SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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TEST REPORT

Application No.:	SZEM1705004503CR
Applicant:	Sichuan Changhong Network Technologies Co., Ltd.
Address of Applicant:	Science and Technology Park, Mianyang City, Sichuan Province, China
Manufacturer:	Sichuan Changhong Network Technologies Co., Ltd.
Address of Manufacturer:	Science and Technology Park, Mianyang City, Sichuan Province, China
Factory:	Sichuan Changhong Network Technologies Co., Ltd.
Address of Factory:	No. 49 North HuoJu West Street, high-tech park, mianyang, sichuan, china
Equipment Under Test (EUT):	
EUT Name:	Network Set-Top Box
Model No.:	IHO-4000 I
Trade mark:	FREEDOCAST
FCC ID:	2AIFQIHO-4000I
Standards:	47 CFR Part 15, Subpart E 15.407
Date of Receipt:	2017-05-15
Date of Test:	2017-05-19 to 2017-06-20
Date of Issue:	2017-07-14
Test Result :	**Pass***

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

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Jack Zhang
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2017-07-14		Original

Authorized for issue by:				
		Edison Li **Edison Li /Project Engineer**		
		Eric Fu **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 E 15.407	N/A	47 CFR Part 15, Subpart E 15.203	Pass
Transmission in the Absence of Data	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

N/A: Not applicable

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart E 15.207 & 15.407 b(6)	Pass
99% Bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 II D	N/A	Pass
26dB Emission bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
DFS: Channel Move Time	47 CFR Part 15, Subpart E 15.407	KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
DFS: Channel Closing Transmission Time	47 CFR Part 15, Subpart E 15.407	KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Radiated Emissions	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart E 15.209 & 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart E 15.209 & 15.407(b)	Pass
Frequency Stability	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass

N/A: Not applicable

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3 Contents

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4 General Information

4.1 Details of E.U.T.

Power supply: DC 7.2V, 2600mAh rechargeable lithium-ion battery which charged by AC /DC adapter
AC/DC Adapter
3.0V DC(1.5V x 2 "AAA" Size Batteries) for remote controller
Model: GSCU1500S012V18N
Input: AC 100-240V, 50/60Hz, 0.5A Max
Output: DC 12V, 1.5A

Cable: DC cable: 150cm unshielded
Network cable: 147cm unshielded
HDMI cable: 142cm unshielded

Operation Frequency:

Band	Mode	Frequency Range(MHz)	Number of channels
UNII Band I	IEEE 802.11a/n(HT20)	5180-5240	4
	IEEE 802.11n(HT40)	5190-5230	2
UNII Band II-A	IEEE 802.11a/n(HT20)	5260-5320	4
	IEEE 802.11n(HT40)	5270-5310	2
UNII Band II-C	IEEE 802.11a/n(HT20)	5500-5700	11
	IEEE 802.11n(HT40)	5510-5670	5
UNII Band III	IEEE 802.11a/n(HT20)	5745-5825	5
	IEEE 802.11n(HT40)	5755-5795	2

Modulation Type: IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)

DFS Function: Slave without radar detection

Sample Type: Fixed device

Antenna Type: Integral

Antenna Gain: Antenna 1/ Antenna 2: 3dBi
Note: MIMO for 802.11n

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Channel list for 802.11a/n(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	60	5300MHz	116	5580MHz	140	5700MHz
40	5200MHz	64	5320MHz	120	5600MHz	149	5745MHz
44	5220MHz	100	5500MHz	124	5620MHz	153	5765MHz
48	5240MHz	104	5520MHz	128	5640MHz	157	5785MHz
52	5260MHz	108	5540MHz	132	5660MHz	161	5805MHz
56	5280MHz	112	5560MHz	136	5680MHz	165	5825MHz

Channel list for 802.11n(HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190MHz	62	5310MHz	118	5590MHz	151	5755MHz
46	5230MHz	102	5510MHz	126	5630MHz	159	5795MHz
54	5270MHz	110	5550MHz	134	5670MHz		

Selected Test Channel for 802.11a/n(HT20)		
Band	Channel	Frequency
U-NII Band I	The lowest channel (CH36)	5180MHz
	The middle channel (CH40)	5200MHz
	The highest channel (CH48)	5240MHz
U-NII Band II-A	The lowest channel (CH52)	5260MHz
	The middle channel (CH60)	5300MHz
	The highest channel (CH64)	5320MHz
U-NII Band II-C	The lowest channel (CH100)	5500MHz
	The middle channel (CH116)	5580MHz
	The highest channel (CH140)	5700MHz
U-NII Band III	The lowest channel (CH149)	5745MHz
	The middle channel (CH157)	5785MHz
	The highest channel (CH165)	5825MHz

Selected Test Channel for 802.11n(HT40)		
Band	Channel	Frequency
U-NII Band I	The lowest channel (CH38)	5190MHz
	The highest channel (CH46)	5230MHz
U-NII Band II-A	The lowest channel (CH54)	5270MHz
	The highest channel (CH62)	5310MHz
U-NII Band II-C	The lowest channel (CH102)	5510MHz
	The middle channel (CH110)	5550MHz
	The highest channel (CH134)	5670MHz
U-NII Band III	The lowest channel (CH151)	5755MHz
	The highest channel (CH159)	5795MHz

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4.2 Description of Support Units

The EUT has been tested independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25×10^{-8}
2	Duty cycle	0.37%
3	Occupied Bandwidth	3%
4	RF conducted power	0.75dB
5	RF power density	2.84dB
6	Conducted Spurious emissions	0.75dB
7	RF Radiated power	4.5dB (below 1GHz)
		4.8dB (above 1GHz)
8	Radiated Spurious emission test	4.5dB (30MHz-1GHz)
		4.8dB (1GHz-18GHz)
9	Temperature test	1℃
10	Humidity test	3%
11	Supply voltages	1.5%

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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• 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 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 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.

• Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017-05-10	2018-05-10
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
LISN	Rohde & Schwarz	ENV216	SEM007-01	2016-10-09	2017-10-09
LISN	ETS-LINDGREN	3816/2	SEM007-02	2017-04-14	2018-04-13
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2016-09-28	2017-09-28
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2016-09-28	2017-09-28
2 Line ISN	Fischer Custom	FCC-TLISN-T2-02	EMC0122	2016-09-28	2017-09-28

RF Conduced Test					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2017-04-14	2018-04-13
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09

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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	2017-05-10	2018-05-10
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017-03-05	2020-03-05
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2014-11-24	2017-11-24
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-14	2015-02-12	2018-02-12
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2016-10-09	2017-10-09
Pre-amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-10	2016-10-17	2017-10-17
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2017-04-14	2018-04-13
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14
Band filter	N/A	N/A	SEM023-01	N/A	N/A

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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	2017-05-10	2018-05-10
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017-03-05	2020-03-05
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2014-11-24	2017-11-24
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-14	2015-02-12	2018-02-12
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2016-10-09	2017-10-09
Pre-amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-10	2016-10-17	2017-10-17
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2017-04-14	2018-04-13
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14
Band filter	N/A	N/A	SEM023-01	N/A	N/A

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DFS test system					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
Power Meter	Agilent Technologies	U2021XA_Ch1	SEM009-01	2016-10-09	2017-10-09
Power Meter	Agilent Technologies	U2021XA_Ch2	SEM009-02	2016-10-09	2017-10-09
Power Meter	Agilent Technologies	U2021XA_Ch3	SEM009-03	2016-10-09	2017-10-09
Power Meter	Agilent Technologies	U2021XA_Ch4	SEM009-04	2016-10-09	2017-10-09
DAQ Device	Agilent Technologies	U2531A	SEN005-01	N/A	N/A
EXG Analog Signal Generator	KEYSIGHT	N5171B	SEM006-04	2014-08-27	2017-08-27
EXA Signal Analyzer	Agilent Technologies	N9010A	SEM004-09	2016-07-19	2017-07-19
ESG vector signal generator	Agilent Technologies	E4438C	SEM006-03	2016-07-19	2017-07-19
Router	Skyworth	ROUTER 750	SEM007-03	N/A	N/A

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2016-10-12	2017-10-12
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2016-10-12	2017-10-12
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2016-10-12	2017-10-12
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2017-04-18	2018-04-18

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart E 15.203

6.1.2 Conclusion

Standard Requirement:

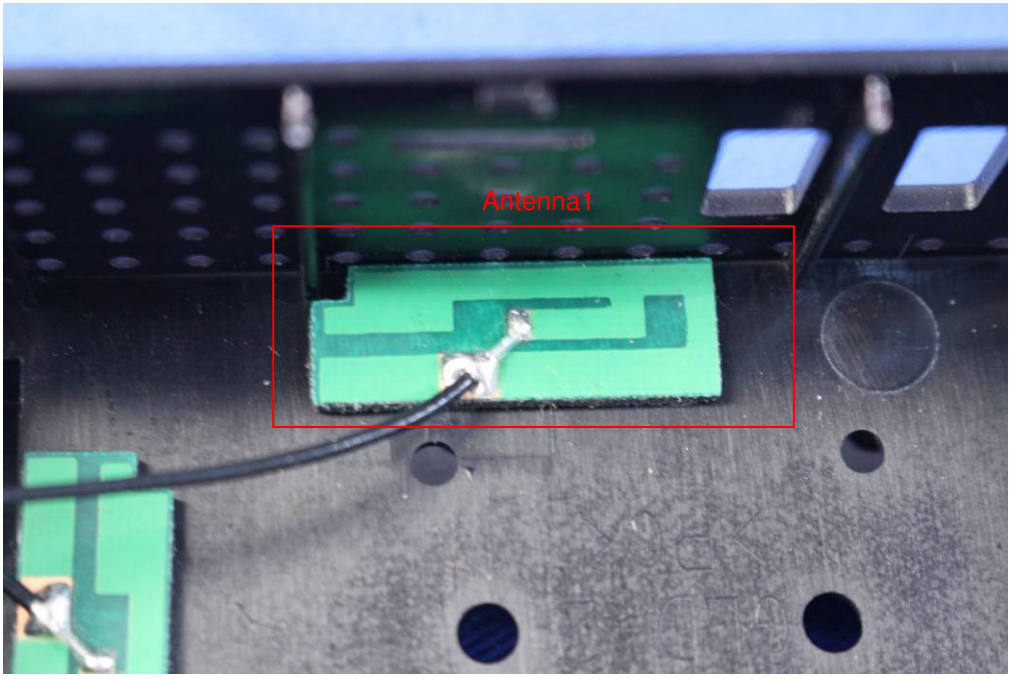
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3dBi.

Direction Gain = 3.0dBi + 10 x log(2) = 6dBi

Ant1:



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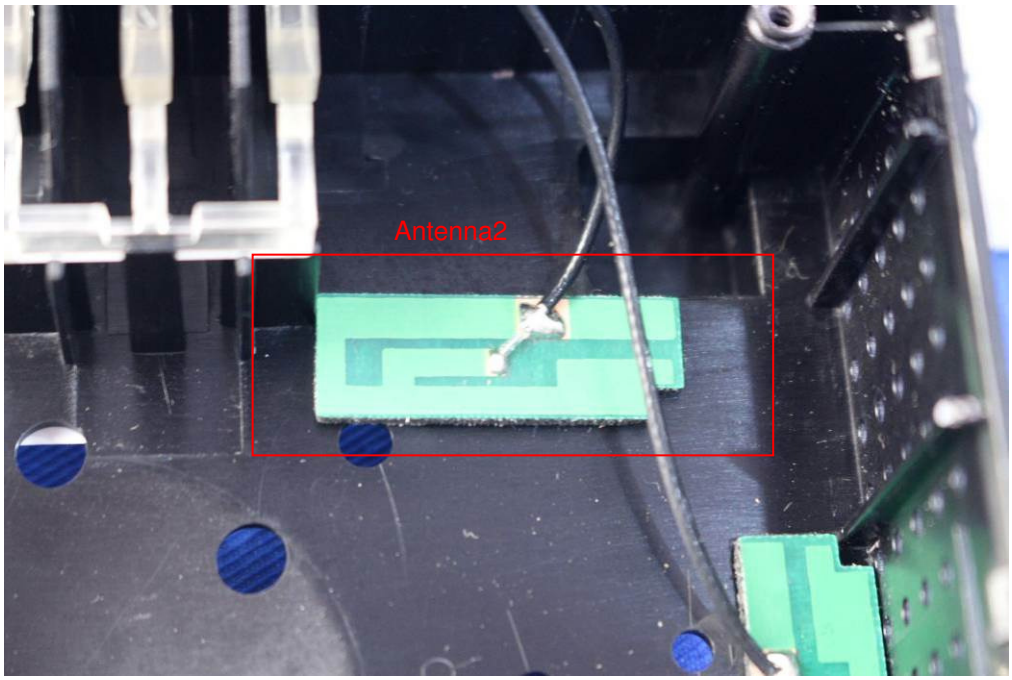
Ant2:



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

WIFI chip (MT7632U) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.

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6.3 Dynamic Frequency Selection

6.3.1 Applicability of DFS requirements

47 CFR Part 15, Subpart E 15.407 (c)

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	☐Master	☒Client Without Radar Detection	☐Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	☐Master Device or Client with Radar Detection	☒Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	☐Master Device or Client with Radar Detection	☒Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

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6.3.2 Limit

DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

DFS Detection Thresholds

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required facilitating a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart E 15.207 & 15.407 b(6)

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

Limit:

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

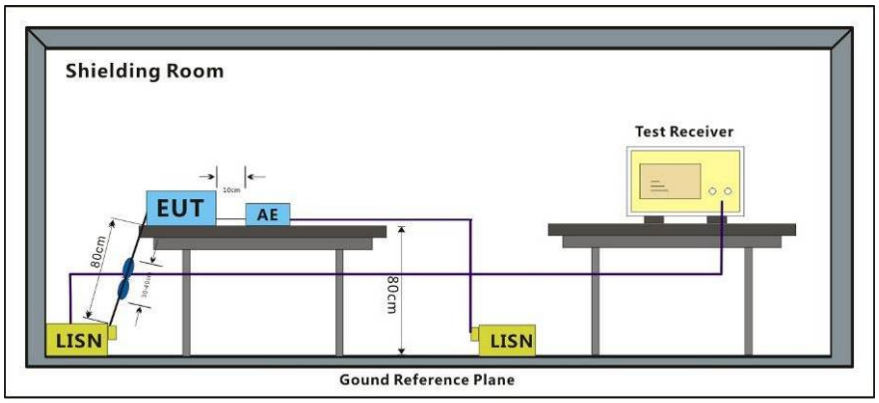
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 54 % RH Atmospheric Pressure: 1015 mbar

Test mode g: Charge + TX mode (Band I)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



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7.1.3 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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

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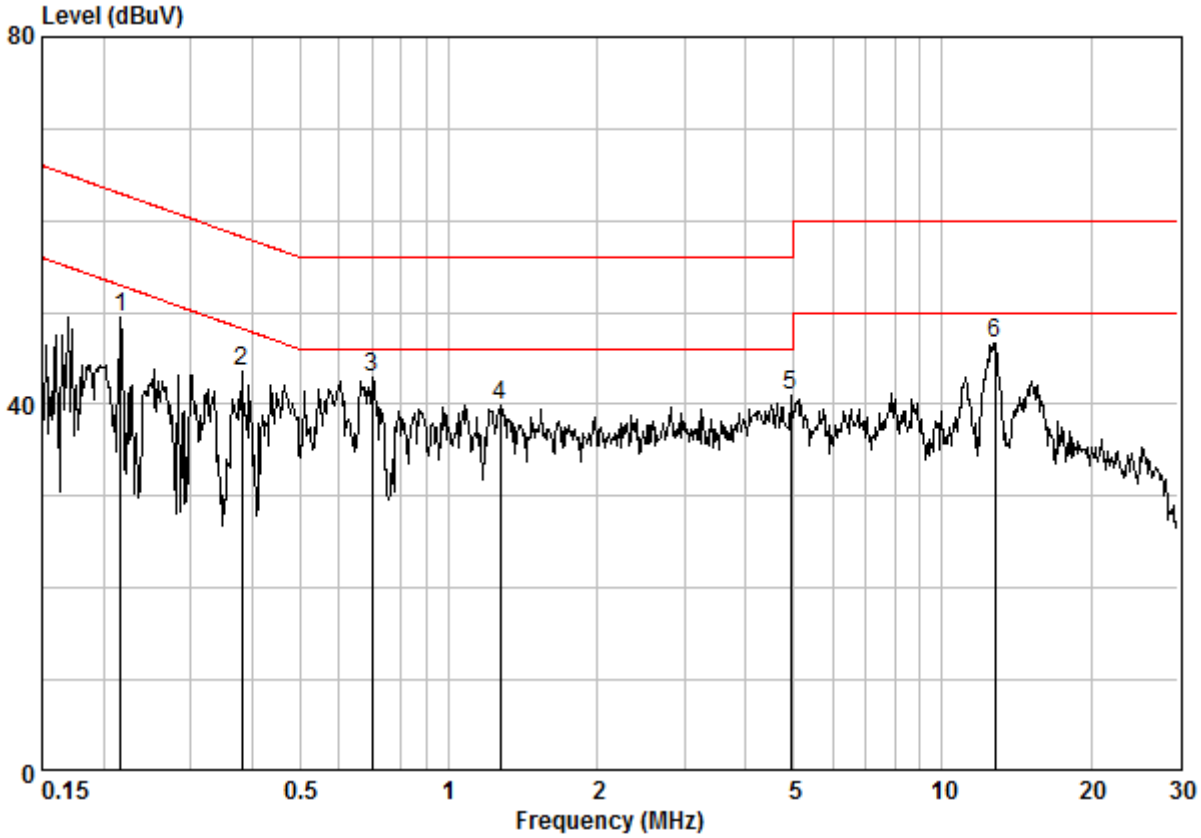
Mode:g; Line:Live Line



Site : Shielding Room
Condition : CE LINE
Job No, : 04503CR
Test Mode : g

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.21620	0.02	9.64	39.84	49.50	52.96	-3.46	Peak
2	0.38113	0.02	9.64	33.95	43.61	48.25	-4.64	Peak
3 @	0.70096	0.02	9.65	33.30	42.98	46.00	-3.02	Peak
4	1.269	0.03	9.66	30.17	39.86	46.00	-6.14	Peak
5	4.926	0.02	9.74	31.22	40.97	46.00	-5.03	Peak
6	12.784	0.15	9.92	36.63	46.70	50.00	-3.30	Peak

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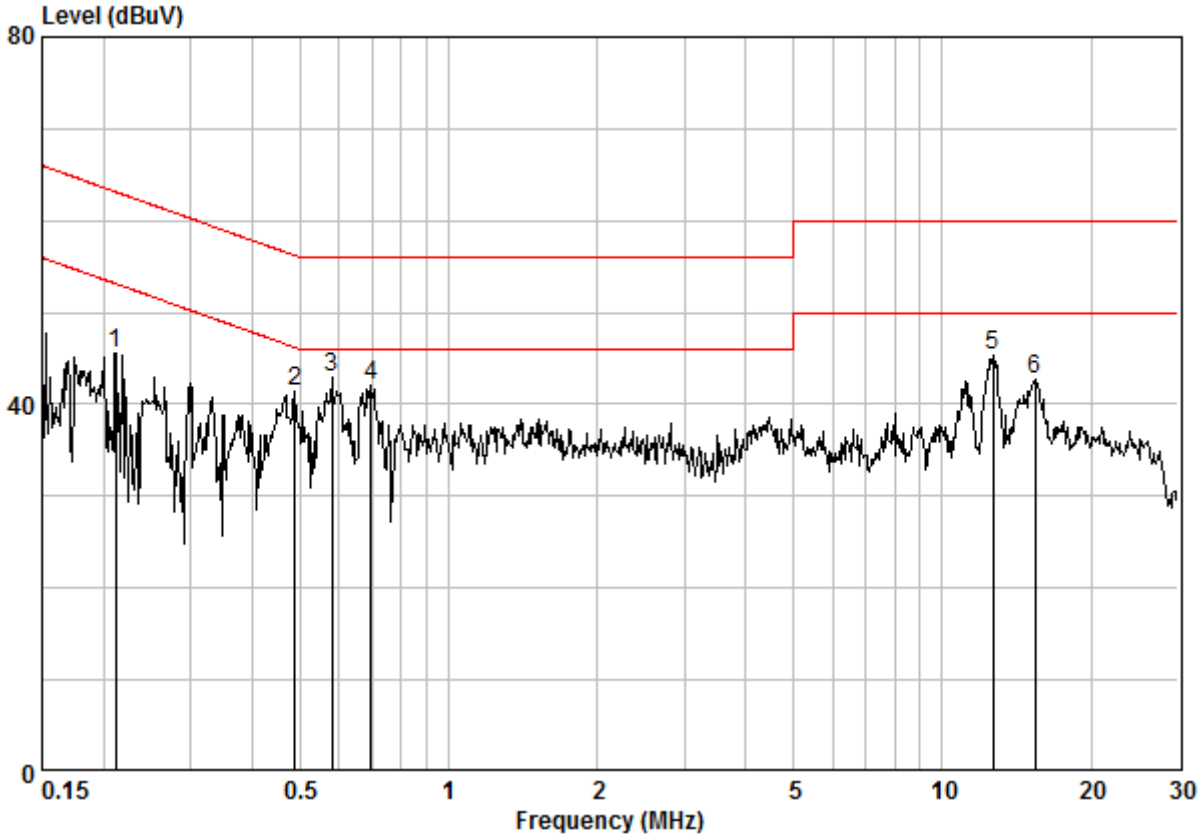
Mode:g; Line:Neutral Line



Site : Shielding Room
Condition : CE NEUTRAL
Job No, : 04503CR
Test Mode : g

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.21167	0.02	9.63	35.92	45.57	53.14	-7.57	Peak
2	0.48890	0.02	9.63	31.74	41.39	46.19	-4.79	Peak
3	0.57923	0.02	9.63	33.29	42.95	46.00	-3.05	Peak
4	0.69725	0.02	9.64	32.42	42.08	46.00	-3.92	Peak
5	12.649	0.15	9.92	35.36	45.42	50.00	-4.58	Peak
6	15.388	0.16	9.99	32.48	42.63	50.00	-7.37	Peak

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7.2 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 56 % RH Atmospheric Pressure: 1010 mbar

Pretest these mode to find the worst case:

f: TX mode (Band I/II-A/II-C/III)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

g: Charge + TX mode (I/II-A/II-C/III)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

The worst case for final test:

f: TX mode (Band I/II-A/II-C/III)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

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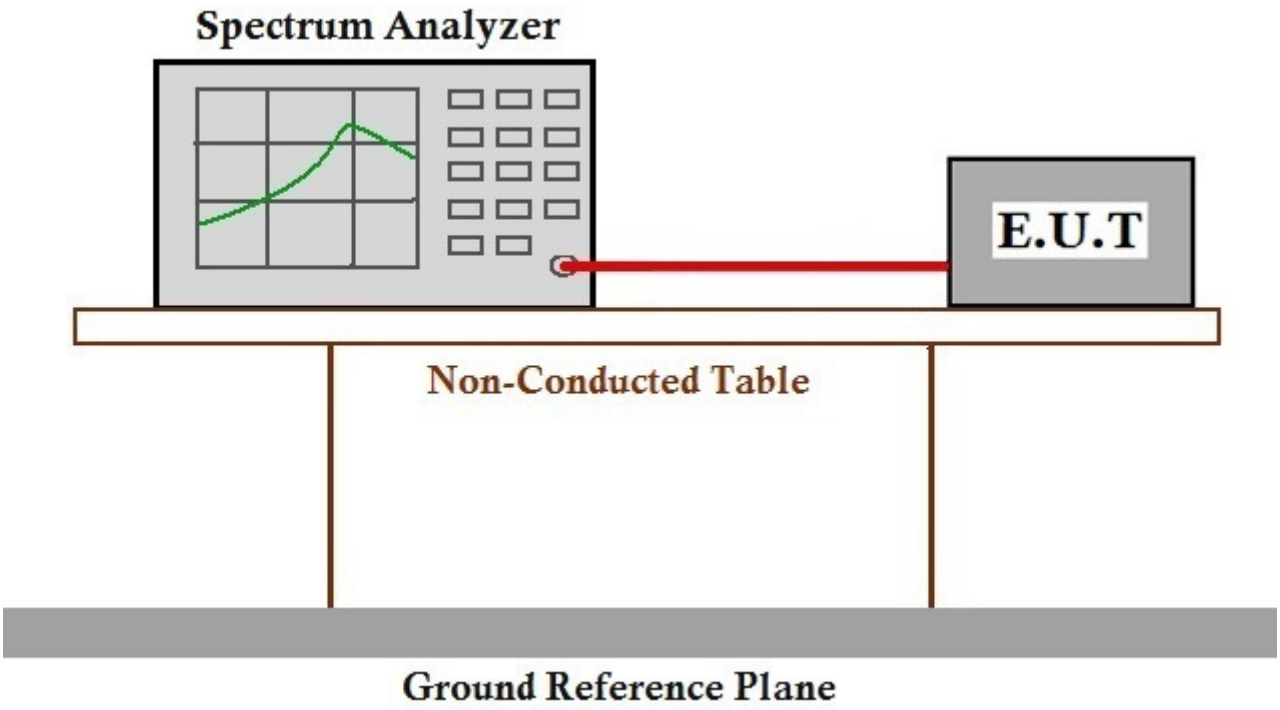
7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407

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7.3 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 56 % RH Atmospheric Pressure: 1010 mbar

Pretest these mode to find the worst case:

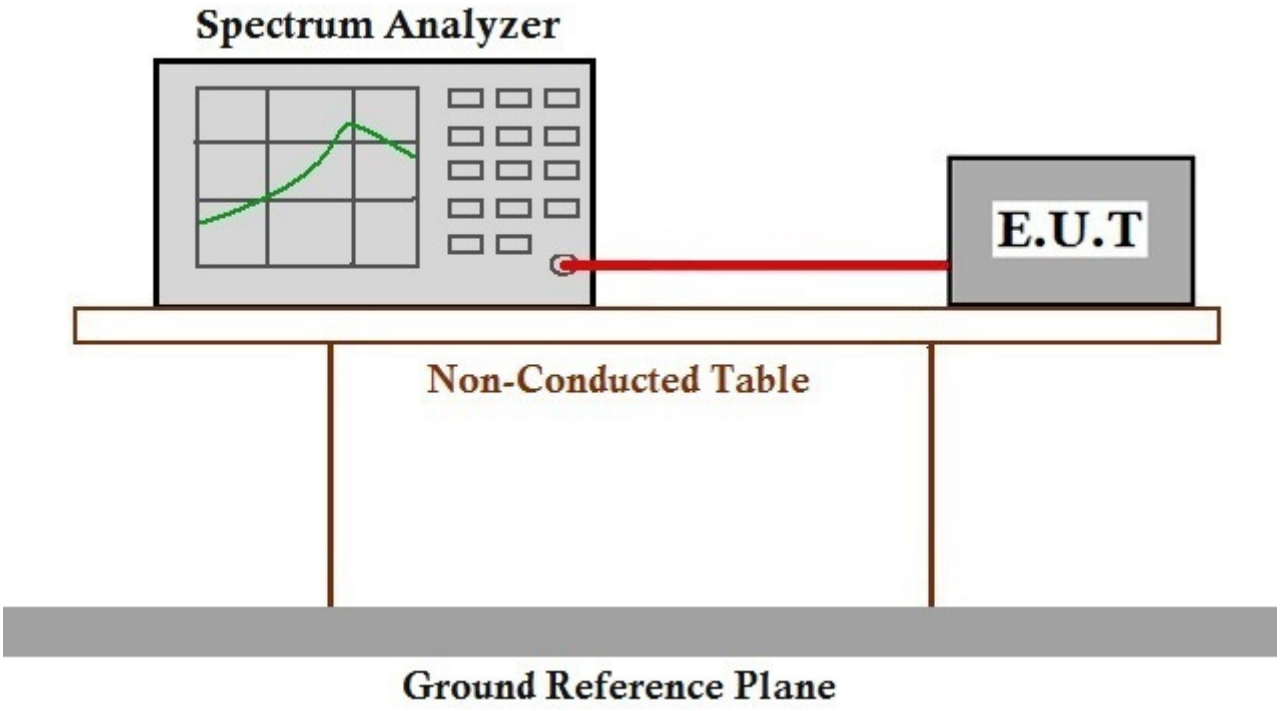
f: TX mode (Band I/II-A/II-C/III)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

g: Charge + TX mode (I/II-A/II-C/III)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

The worst case for final test:

f: TX mode (Band I/II-A/II-C/III)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407

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7.4 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

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

Test Method: KDB 789033 D02 II C 2

Limit: ⩾500 kHz

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 56 % RH Atmospheric Pressure: 1010 mbar

Pretest these mode to find the worst case:

f: TX mode (Band I/II-A/II-C/III)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

g: Charge + TX mode (I/II-A/II-C/III)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

The worst case for final test:

f: TX mode (Band I/II-A/II-C/III)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

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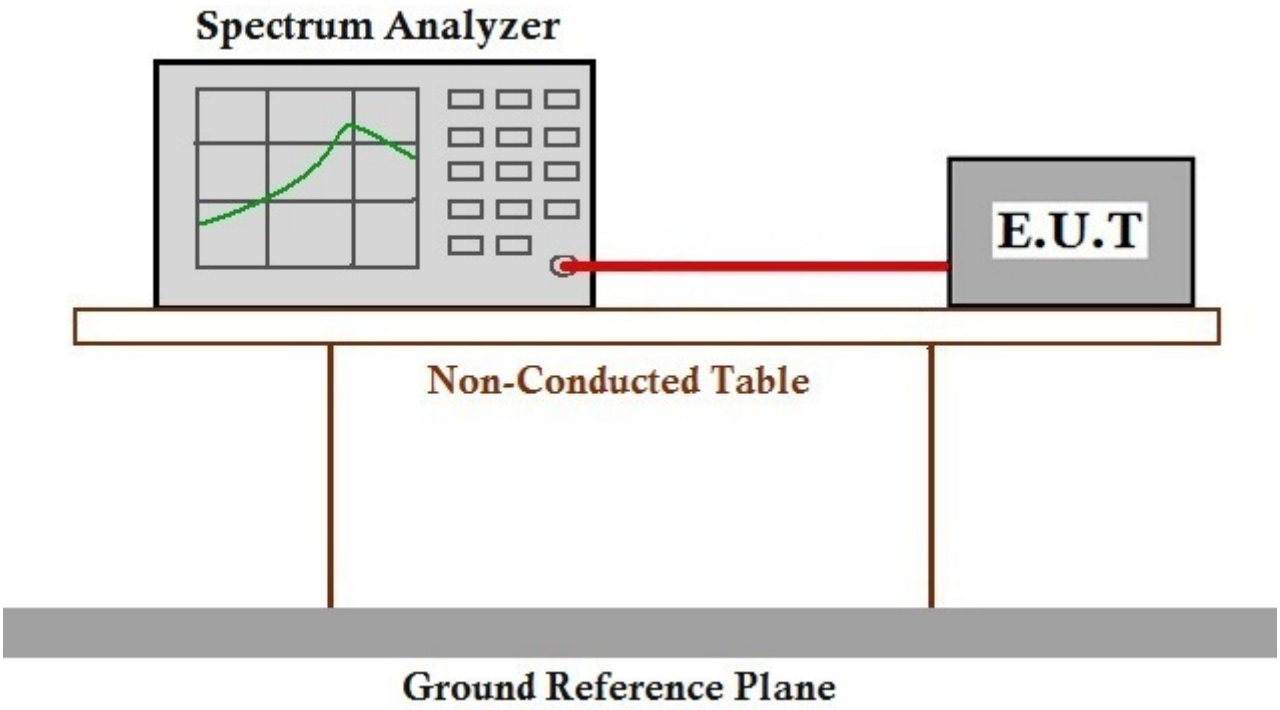
7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407

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7.5 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 56 % RH Atmospheric Pressure: 1010 mbar

Pretest these mode to find the worst case:

f: TX mode (Band I/II-A/II-C/III)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

g: Charge + TX mode (I/II-A/II-C/III)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

The worst case for final test:

f: TX mode (Band I/II-A/II-C/III)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

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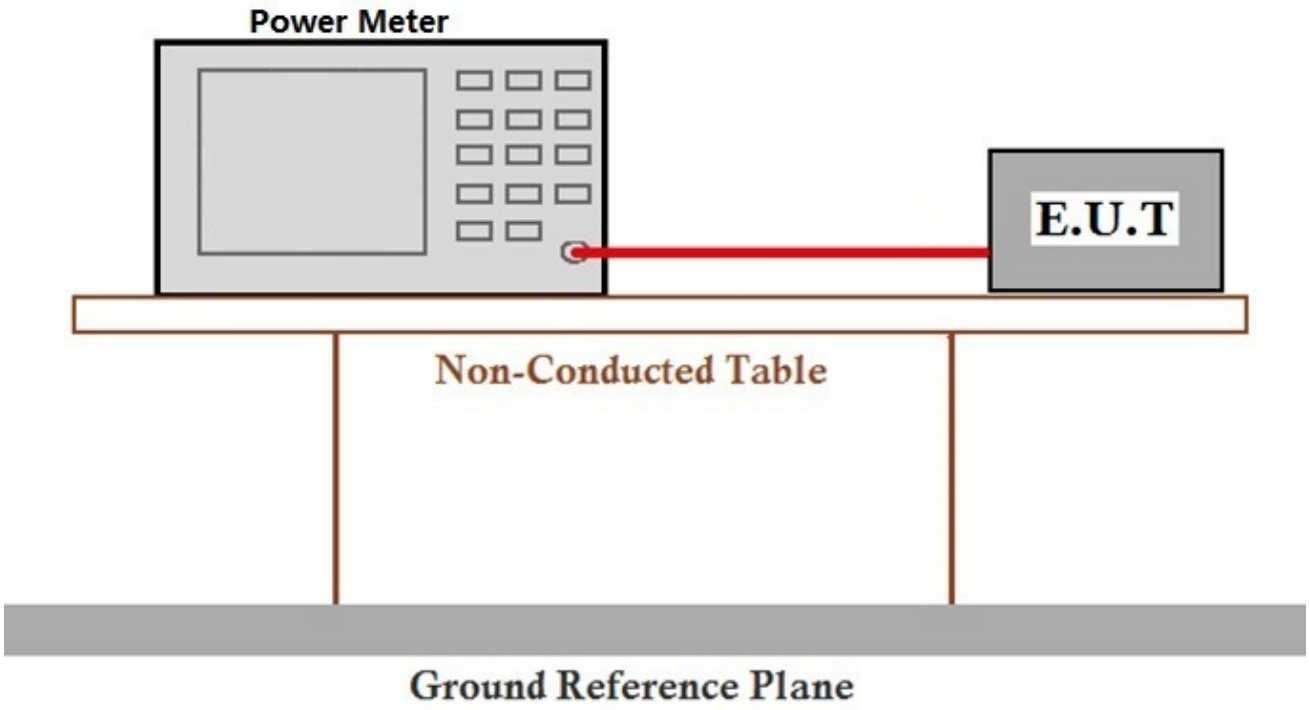
7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407

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7.6 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 56 % RH Atmospheric Pressure: 1010 mbar

Pretest these mode to find the worst case:

f: TX mode (Band I/II-A/II-C/III)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

g: Charge + TX mode (I/II-A/II-C/III)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

The worst case for final test:

f: TX mode (Band I/II-A/II-C/III)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

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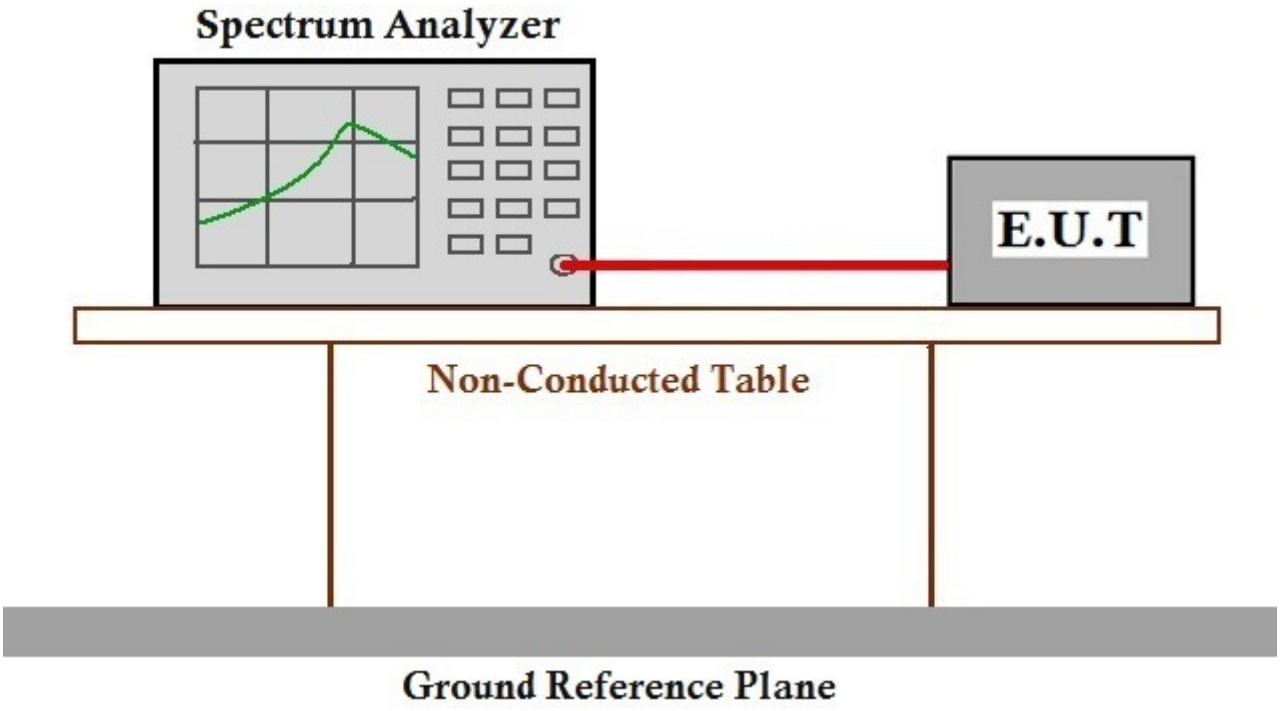
7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407

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7.7 DFS: Channel Move Time

Test Requirement	KDB 905462 D02 Section 5.1
Test Method:	KDB 905462 D02 Section 7.8.3
Limit:	10 seconds(should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst)

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Pretest these mode to find the worst case:	f: TX mode (Band I/II-A/II-C/III)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report. g: Charge + TX mode (I/II-A/II-C/III)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.
The worst case for final test:	f: TX mode (Band I/II-A/II-C/III)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

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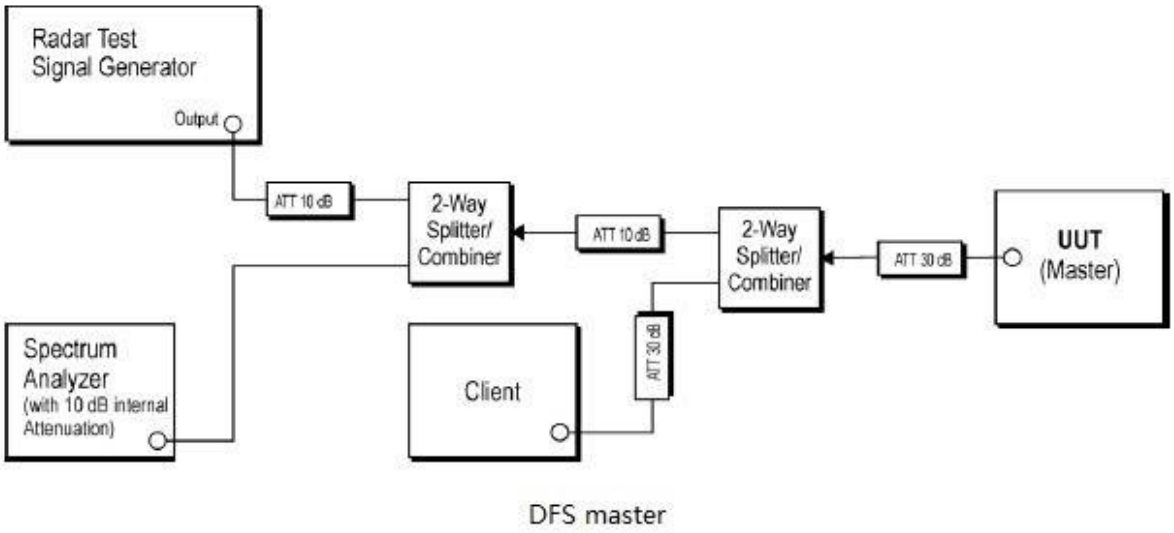
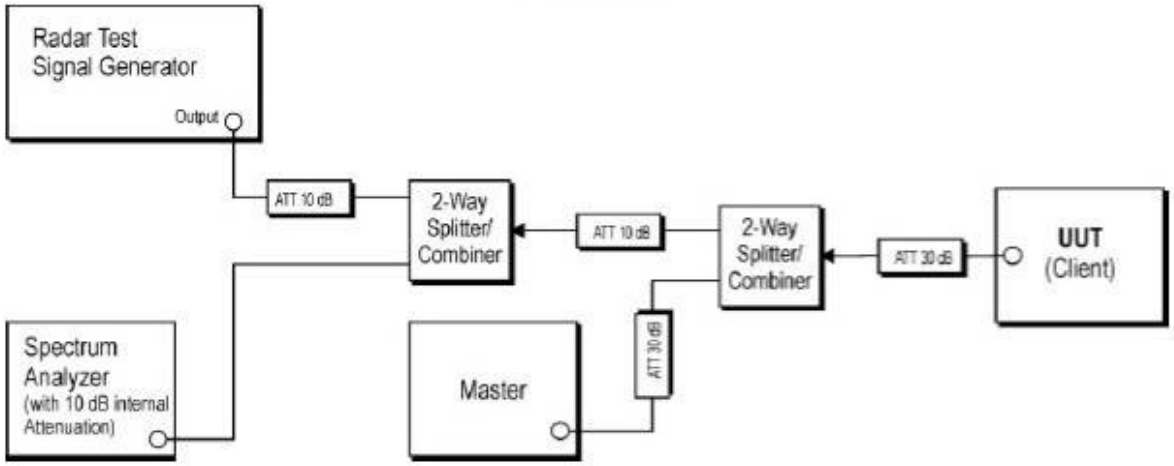
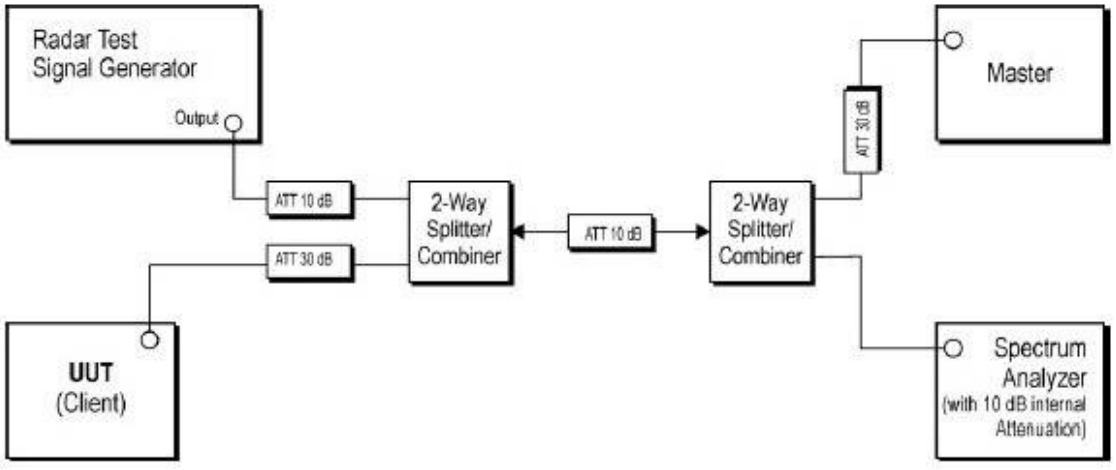
7.7.2 Test Setup Diagram



DFS master



DFS slave with radar detection



DFS slave without radar detection

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7.7.3 Measurement Procedure and Data

1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.

2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.

3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.

4) EUT will associate with the master at channel. The file “iperf.exe” specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.

5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.

6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.

7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

The detailed test data see: Appendix 15.407

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7.8 DFS: Channel Closing Transmission Time

Test Requirement	KDB 905462 D02 Section 5.1
Test Method:	KDB 905462 D02 Section 7.8.3
Limit:	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period(should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. It is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions)

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Pretest these mode to find the worst case:	f: TX mode (Band I/II-A/II-C/III)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report. g: Charge + TX mode (I/II-A/II-C/III)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.
The worst case for final test:	f: TX mode (Band I/II-A/II-C/III)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

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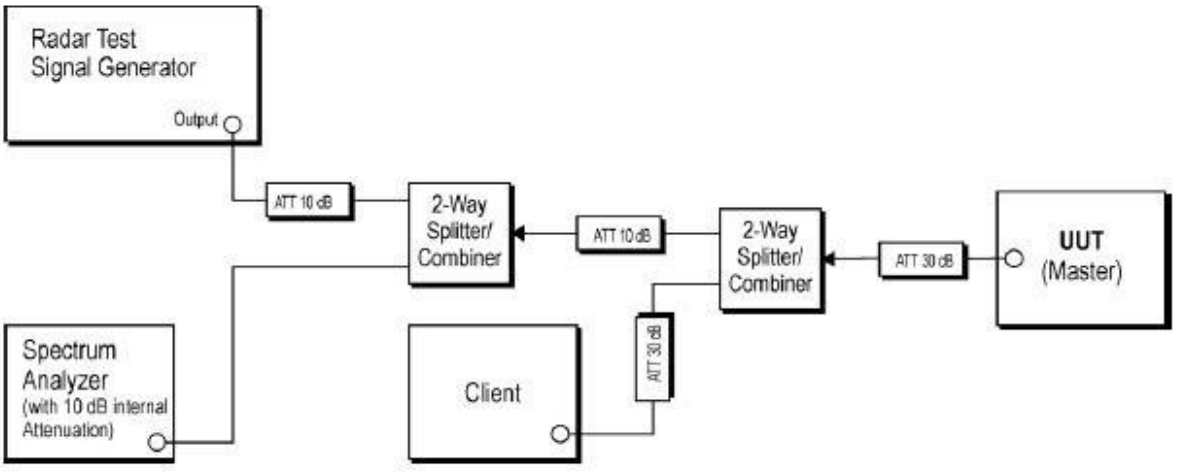
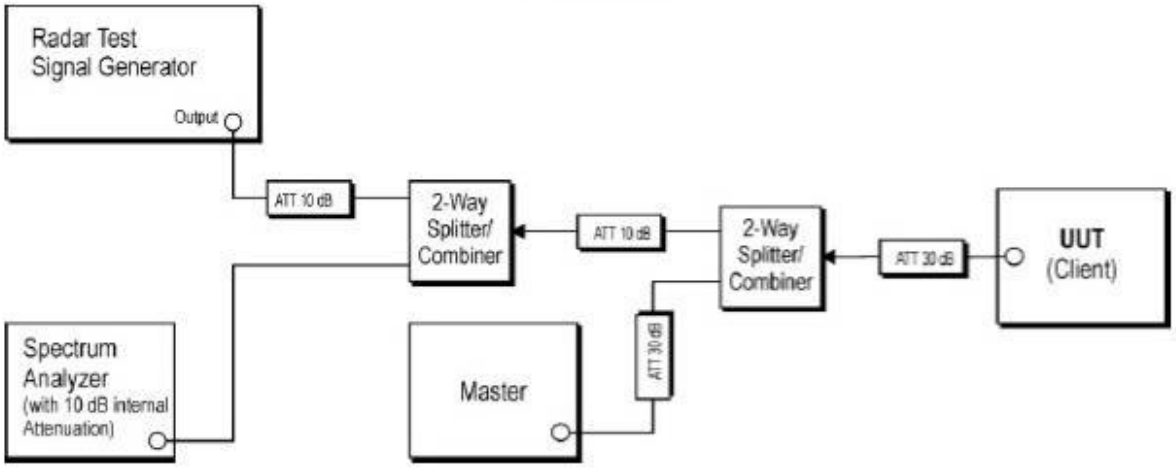
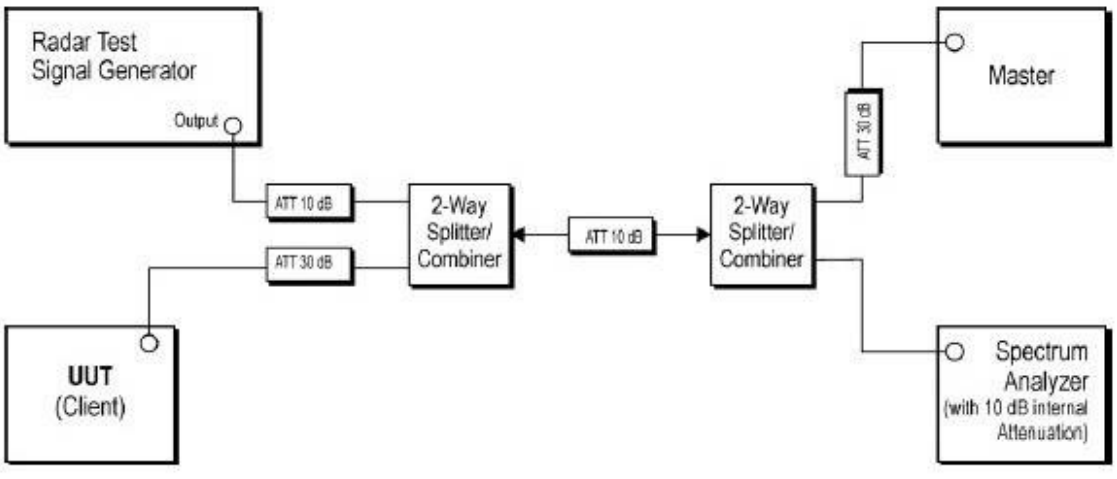
7.8.2 Test Setup Diagram



DFS master



DFS slave with radar detection



DFS slave without radar detection

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7.8.3 Measurement Procedure and Data

1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.

2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.

3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.

4) EUT will associate with the master at channel. The file “iperf.exe” specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.

5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.

6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.

7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

The detailed test data see: Appendix 15.407

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7.9 Radiated Emissions

Test Requirement	47 CFR Part 15, Subpart E 15.209 & 15.407(b)
Test Method:	KDB 789033 D02 II G
Measurement Distance:	3m

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1015 mbar

Pretest these mode to find the worst case:	f: TX mode (Band I/II-A/II-C/III)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report. g: Charge + TX mode (I/II-A/II-C/III)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.
The worst case for final test:	g: Charge + TX mode (I/II-A/II-C/III)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

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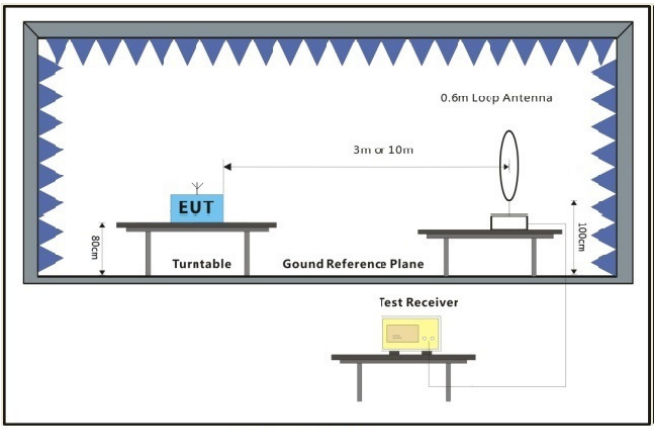
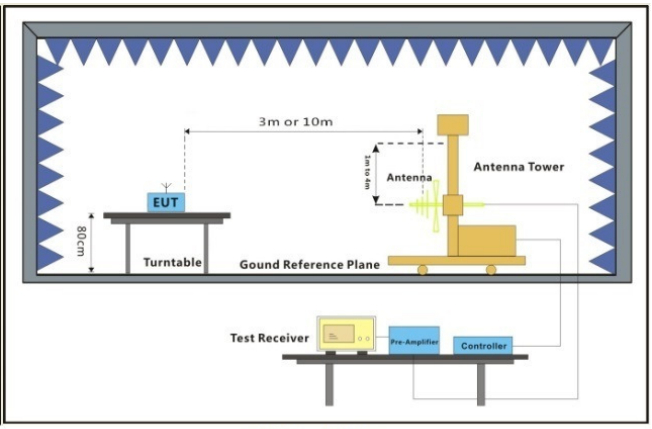
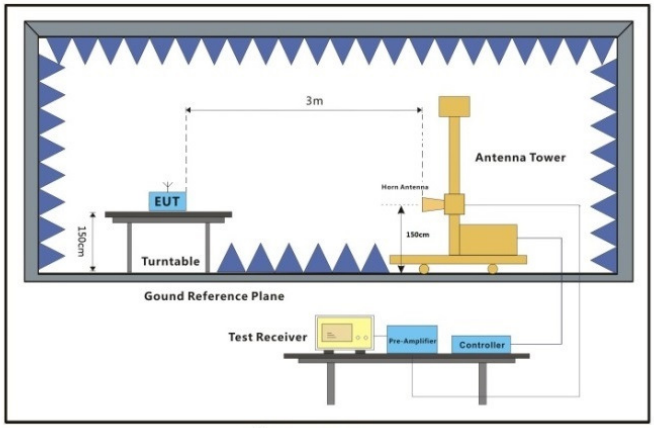
7.9.2 Test Setup Diagram



Below 30MHz



30MHz-1GHz



Above 1GHz

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7.9.3 Measurement Procedure and Data

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

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

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

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

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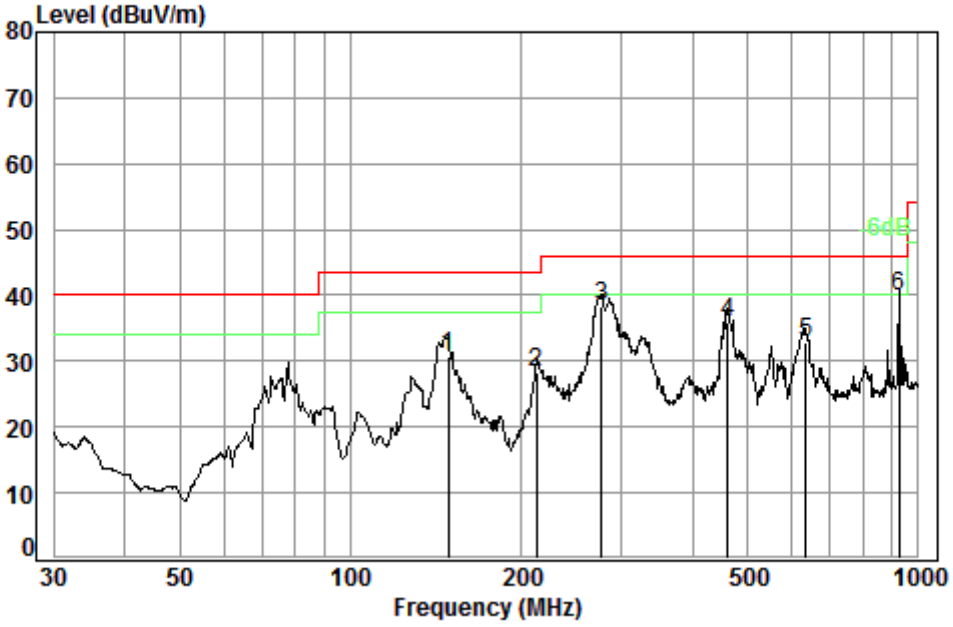
Below 1GHz

Mode:g; Polarization:Horizontal; Modulation Type:802.11a;



Condition: 3m HORIZONTAL
Job No. : 04503CR
Test mode: g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	148.44	1.31	8.86	26.91	47.53	30.79	43.50	-12.71
2	213.02	1.48	10.88	26.65	42.71	28.42	43.50	-15.08
3	277.09	1.80	12.89	26.46	49.97	38.20	46.00	-7.80
4	462.35	2.46	17.34	27.52	43.74	36.02	46.00	-9.98
5	633.91	2.77	20.54	27.49	37.06	32.88	46.00	-13.12
6 pp	925.76	3.63	23.30	26.64	39.58	39.87	46.00	-6.13

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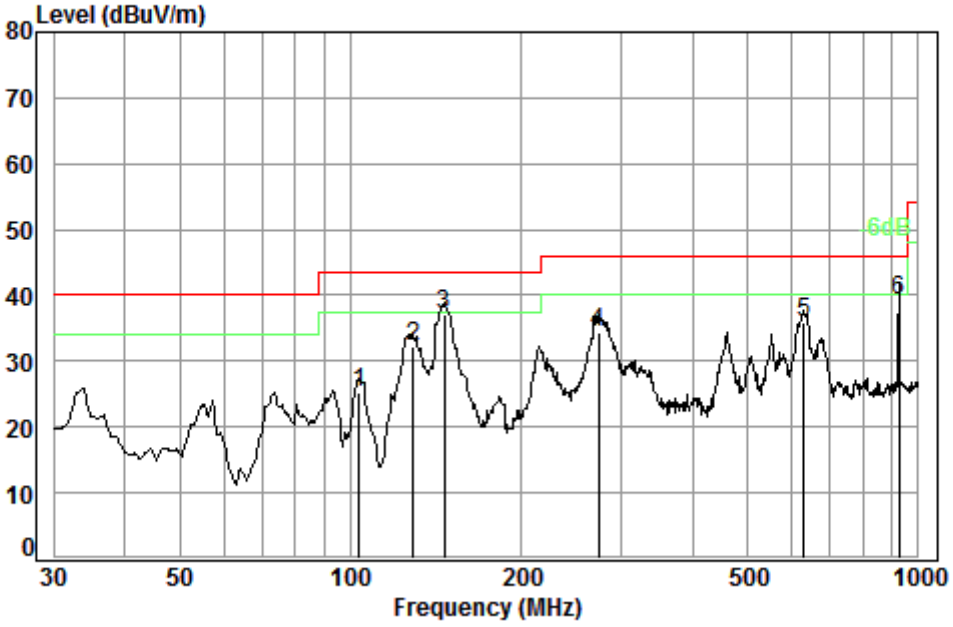
Mode:g; Polarization:Vertical; Modulation Type:802.11a;



Condition: 3m VERTICAL
Job No. : 04503CR
Test mode: g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	103.81	1.21	8.91	27.17	42.42	25.37	43.50	-18.13
2	129.01	1.27	7.72	27.02	50.16	32.13	43.50	-11.37
3 pp	146.37	1.31	8.67	26.93	53.98	37.03	43.50	-6.47
4	273.23	1.78	12.76	26.47	46.19	34.26	46.00	-11.74
5	629.48	2.76	20.52	27.50	40.08	35.86	46.00	-10.14
6	925.76	3.63	23.30	26.64	38.81	39.10	46.00	-6.90

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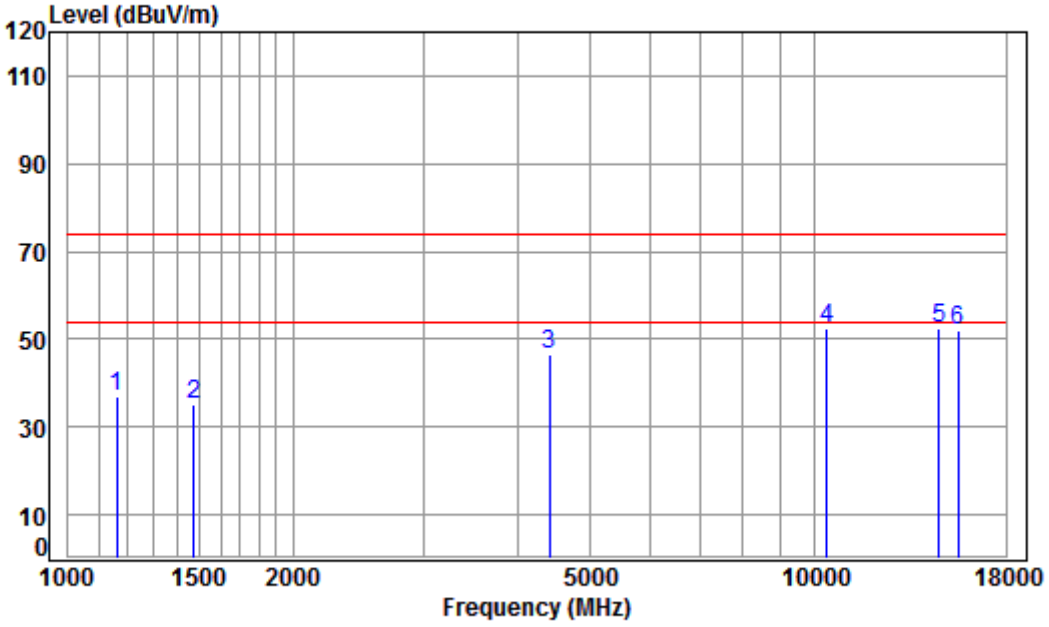
Above 1GHz (Band 1)
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: Low



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5180 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1162.182	4.02	24.29	38.08	46.72	36.95	74.00	-37.05	peak
2	1473.013	4.44	25.69	38.05	43.17	35.25	74.00	-38.75	peak
3	4405.090	7.18	33.60	38.20	44.06	46.64	74.00	-27.36	peak
4	10360.000	11.74	37.24	35.08	38.61	52.51	74.00	-21.49	peak
5	pp14660.480	14.76	40.69	38.93	36.15	52.67	74.00	-21.33	peak
6	15540.000	15.28	41.38	38.31	33.55	51.90	74.00	-22.10	peak

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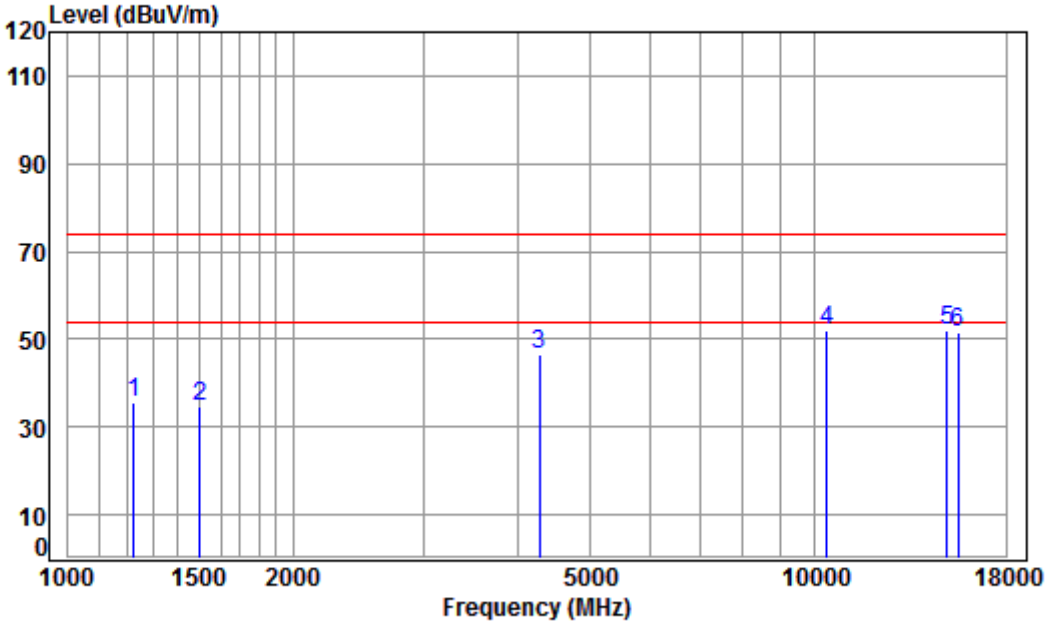
Mode:g; Polarization:Vertical; Modulation Type:802.11a; Channel: Low



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5180 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	4.11	24.60	38.08	44.97	35.60	74.00	-38.40	peak
2	1503.119	4.47	25.81	38.05	42.48	34.71	74.00	-39.29	peak
3	4279.589	7.03	33.60	38.14	44.11	46.60	74.00	-27.40	peak
4	10360.000	11.74	37.24	35.08	37.93	51.83	74.00	-22.17	peak
5	pp15003.420	14.85	41.30	38.90	34.82	52.07	74.00	-21.93	peak
6	15540.000	15.28	41.38	38.31	33.27	51.62	74.00	-22.38	peak

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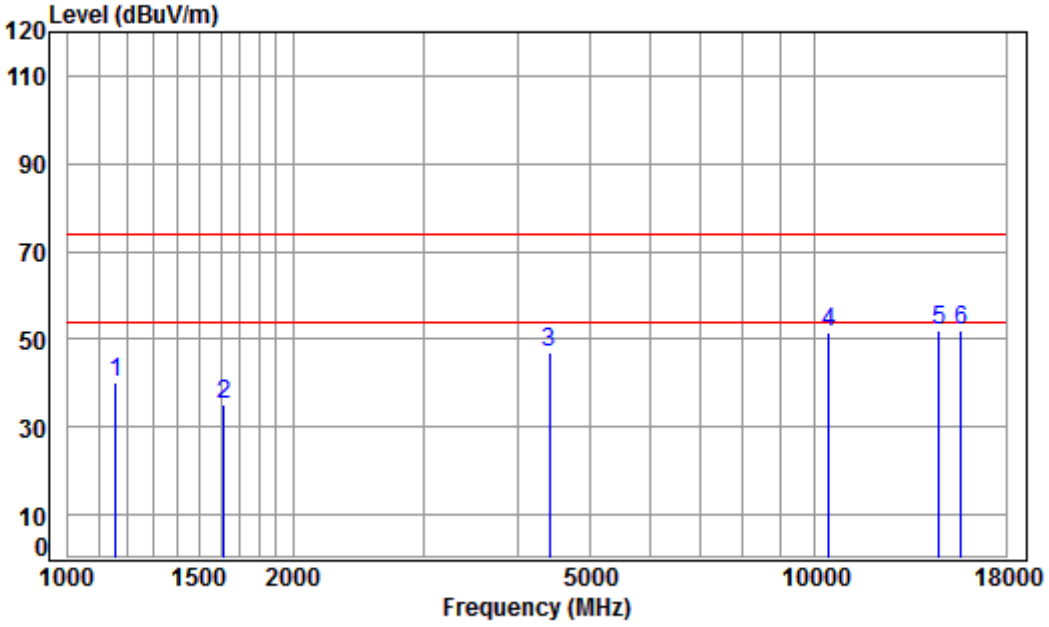
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: Middle



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5220 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	50.13	40.34	74.00	-33.66	peak
2	1615.754	4.61	26.32	38.04	42.04	34.93	74.00	-39.07	peak
3	4405.090	7.18	33.60	38.20	44.57	47.15	74.00	-26.85	peak
4	10440.000	11.81	37.16	35.12	37.68	51.53	74.00	-22.47	peak
5	14660.480	14.76	40.69	38.93	35.27	51.79	74.00	-22.21	peak
6	pp15660.000	15.38	41.34	38.17	33.26	51.81	74.00	-22.19	peak

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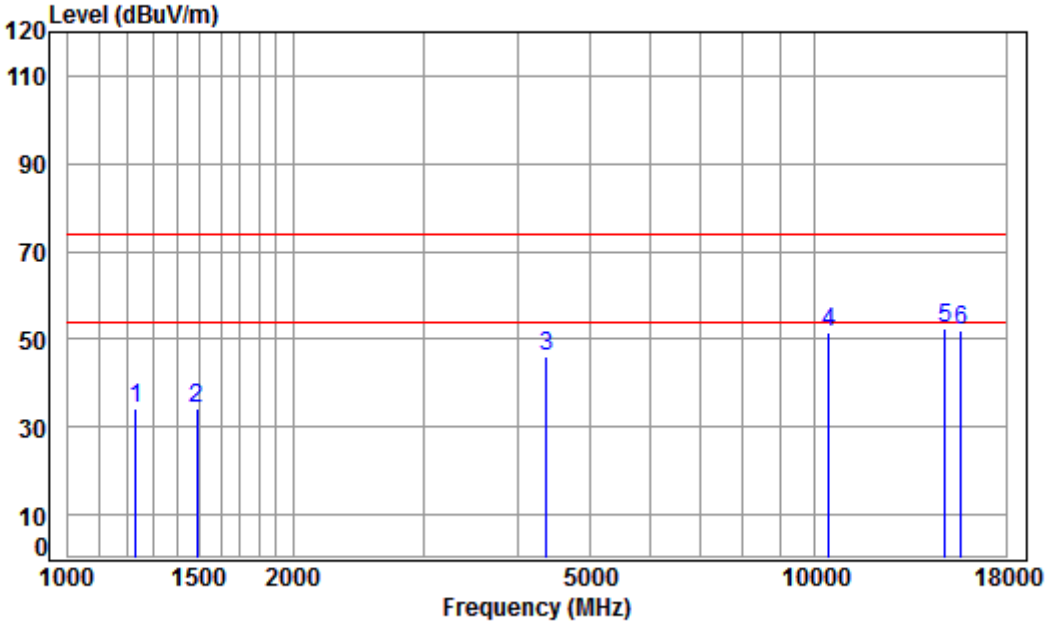
Mode:g; Polarization:Vertical; Modulation Type:802.11a; Channel: Middle



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5220 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.345	4.12	24.63	38.08	43.40	34.07	74.00	-39.93	peak
2	1490.142	4.46	25.76	38.05	42.12	34.29	74.00	-39.71	peak
3	4367.058	7.13	33.60	38.18	43.57	46.12	74.00	-27.88	peak
4	10440.000	11.81	37.16	35.12	37.77	51.62	74.00	-22.38	peak
5	pp14916.940	14.83	41.15	38.91	35.41	52.48	74.00	-21.52	peak
6	15660.000	15.38	41.34	38.17	33.51	52.06	74.00	-21.94	peak

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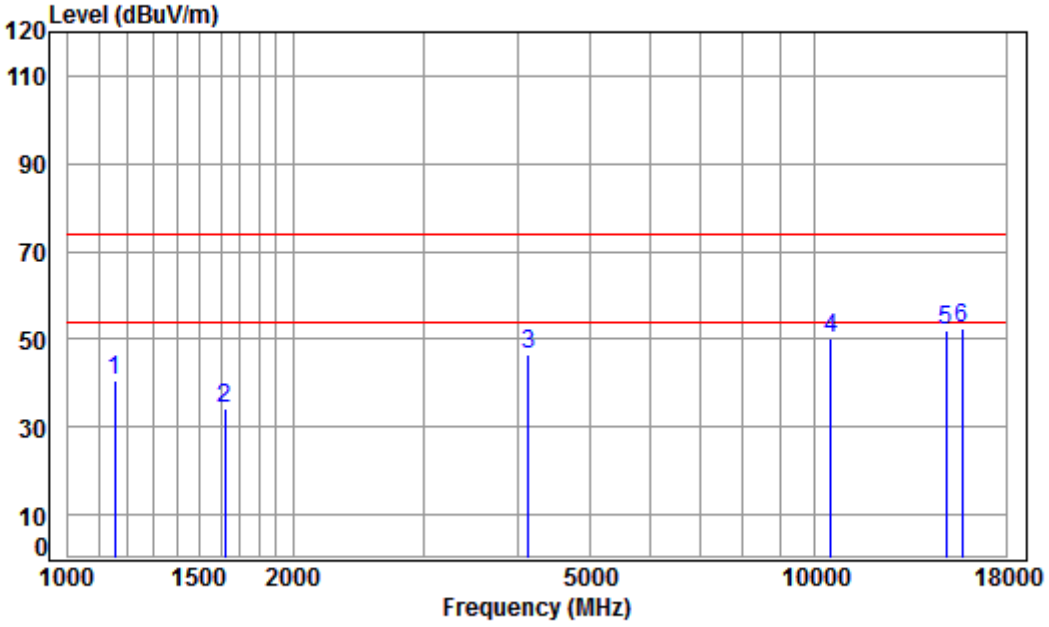
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: High



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5240 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	50.25	40.44	74.00	-33.56	peak
2	1620.431	4.61	26.34	38.04	41.30	34.21	74.00	-39.79	peak
3	4133.699	6.86	33.60	38.07	43.99	46.38	74.00	-27.62	peak
4	10480.000	11.84	37.12	35.14	36.51	50.33	74.00	-23.67	peak
5	14960.120	14.84	41.23	38.90	34.69	51.86	74.00	-22.14	peak
6	pp15720.000	15.42	41.31	38.11	34.08	52.70	74.00	-21.30	peak

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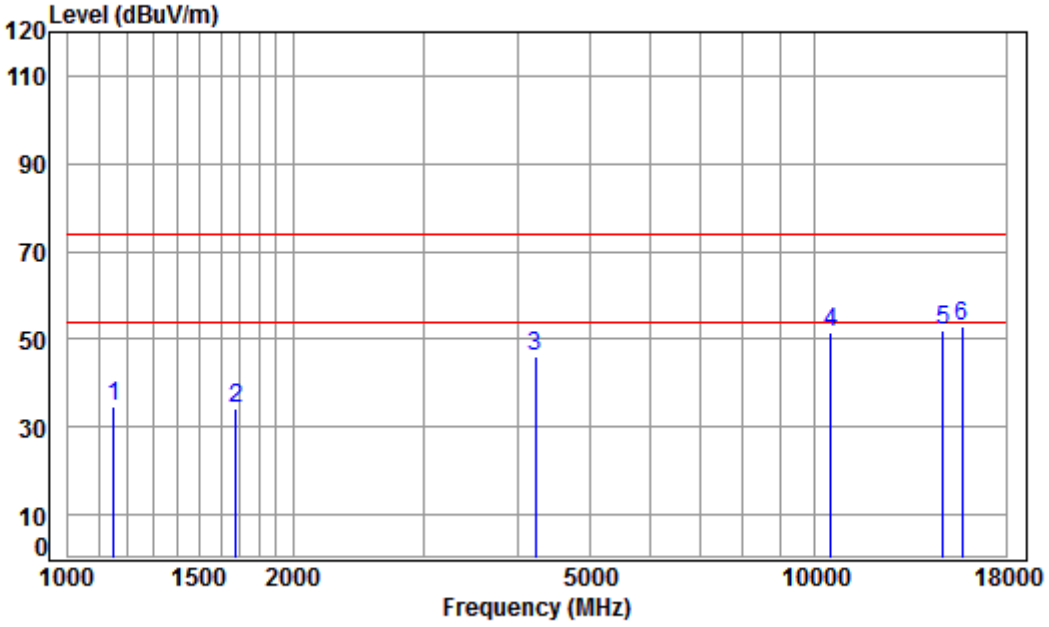
Mode:g; Polarization:Vertical; Modulation Type:802.11a; Channel: High



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5240 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	4.01	24.24	38.08	44.59	34.76	74.00	-39.24	peak
2	1677.621	4.68	26.58	38.03	40.91	34.14	74.00	-39.86	peak
3	4218.186	6.96	33.60	38.11	43.83	46.28	74.00	-27.72	peak
4	10480.000	11.84	37.12	35.14	37.77	51.59	74.00	-22.41	peak
5	14830.960	14.81	41.00	38.92	35.29	52.18	74.00	-21.82	peak
6	pp15720.000	15.42	41.31	38.11	34.27	52.89	74.00	-21.11	peak

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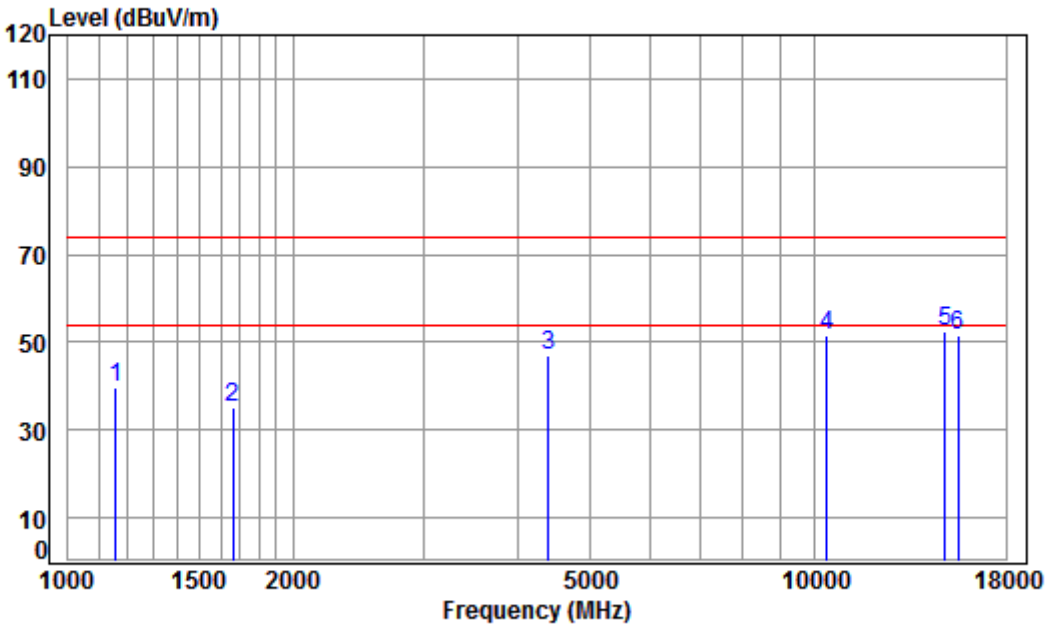
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: Low



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5180 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	49.35	39.56	74.00	-34.44	peak
2	1663.137	4.66	26.52	38.03	41.92	35.07	74.00	-38.93	peak
3	4392.376	7.16	33.60	38.20	44.49	47.05	74.00	-26.95	peak
4	10360.000	11.74	37.24	35.08	37.78	51.68	74.00	-22.32	peak
5	pp14916.940	14.83	41.15	38.91	35.48	52.55	74.00	-21.45	peak
6	15540.000	15.28	41.38	38.31	33.02	51.37	74.00	-22.63	peak

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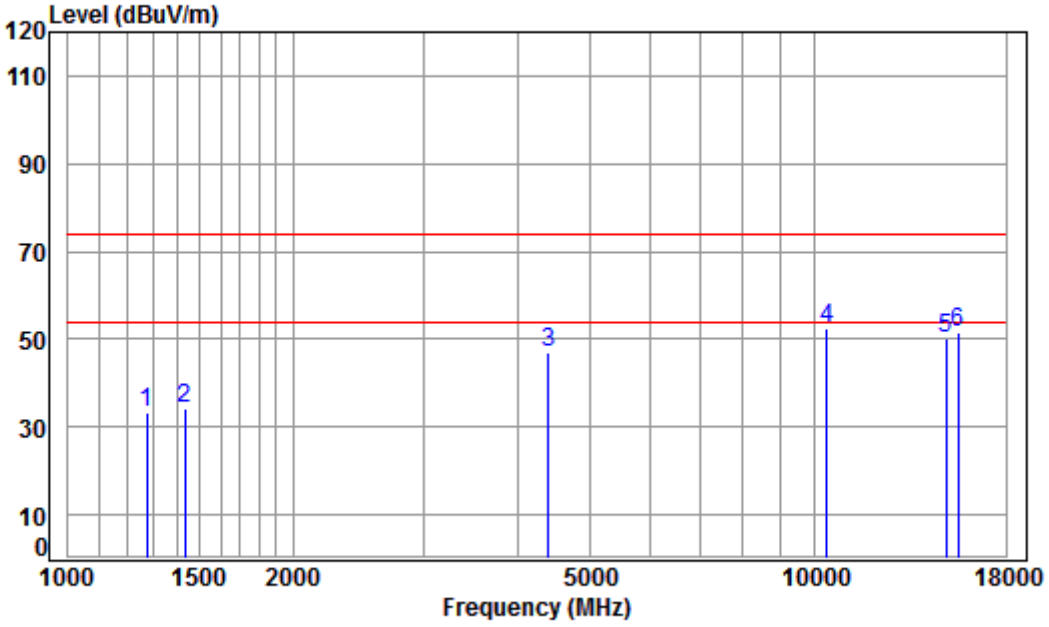
Mode:g; Polarization:Vertical; Modulation Type:802.11n; Channel: Low



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5180 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	4.19	24.84	38.07	42.37	33.33	74.00	-40.67	peak
2	1435.189	4.39	25.54	38.06	42.19	34.06	74.00	-39.94	peak
3	4392.376	7.16	33.60	38.20	44.28	46.84	74.00	-27.16	peak
4	pp10360.000	11.74	37.24	35.08	38.41	52.31	74.00	-21.69	peak
5	14960.120	14.84	41.23	38.90	33.13	50.30	74.00	-23.70	peak
6	15540.000	15.28	41.38	38.31	33.16	51.51	74.00	-22.49	peak

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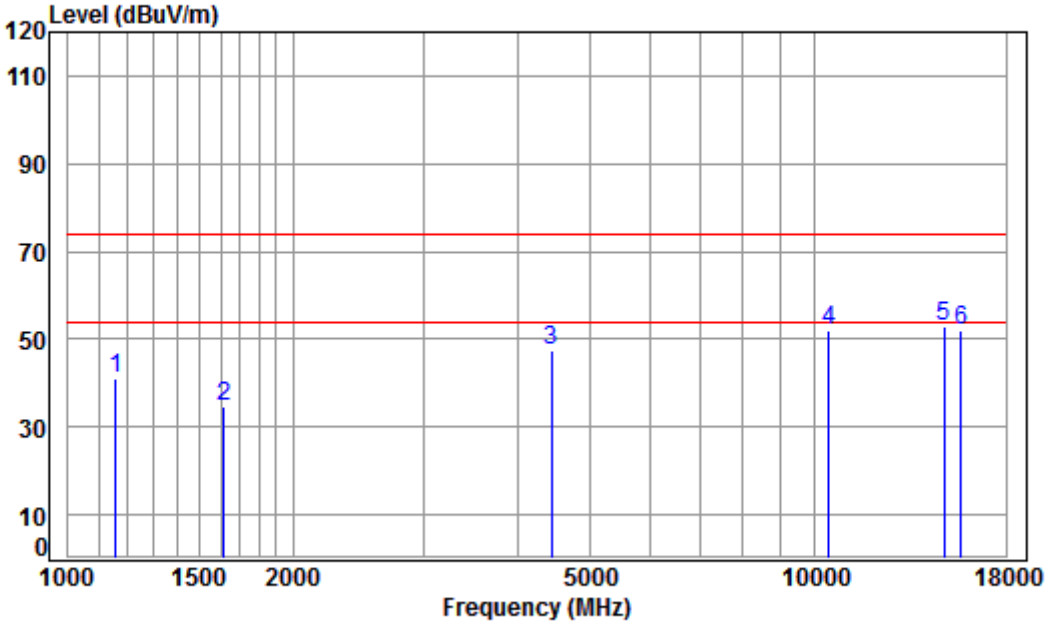
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: Middle



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5220 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	50.86	41.07	74.00	-32.93	peak
2	1615.754	4.61	26.32	38.04	41.66	34.55	74.00	-39.45	peak
3	4430.628	7.20	33.60	38.22	44.65	47.23	74.00	-26.77	peak
4	10440.000	11.81	37.16	35.12	38.35	52.20	74.00	-21.80	peak
5	pp14873.890	14.82	41.08	38.91	35.76	52.75	74.00	-21.25	peak
6	15660.000	15.38	41.34	38.17	33.54	52.09	74.00	-21.91	peak

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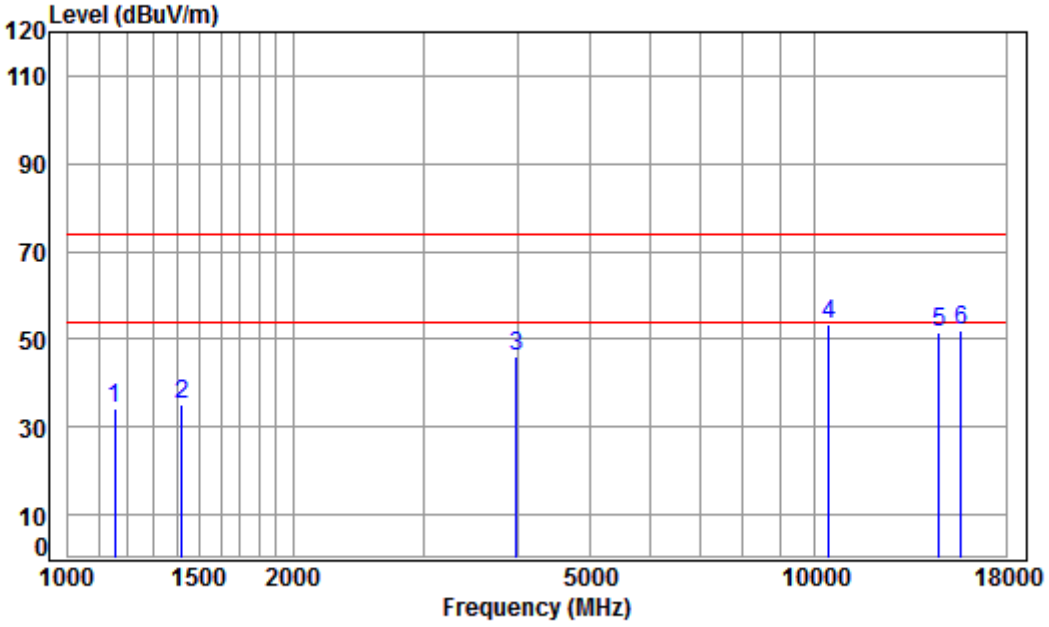
Mode:g; Polarization:Vertical; Modulation Type:802.11n; Channel: Middle



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5220 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	43.90	34.09	74.00	-39.91	peak
2	1422.798	4.38	25.49	38.06	43.13	34.94	74.00	-39.06	peak
3	3981.257	6.69	33.55	38.00	43.92	46.16	74.00	-27.84	peak
4	pp10440.000	11.81	37.16	35.12	39.39	53.24	74.00	-20.76	peak
5	14660.480	14.76	40.69	38.93	35.22	51.74	74.00	-22.26	peak
6	15660.000	15.38	41.34	38.17	33.53	52.08	74.00	-21.92	peak

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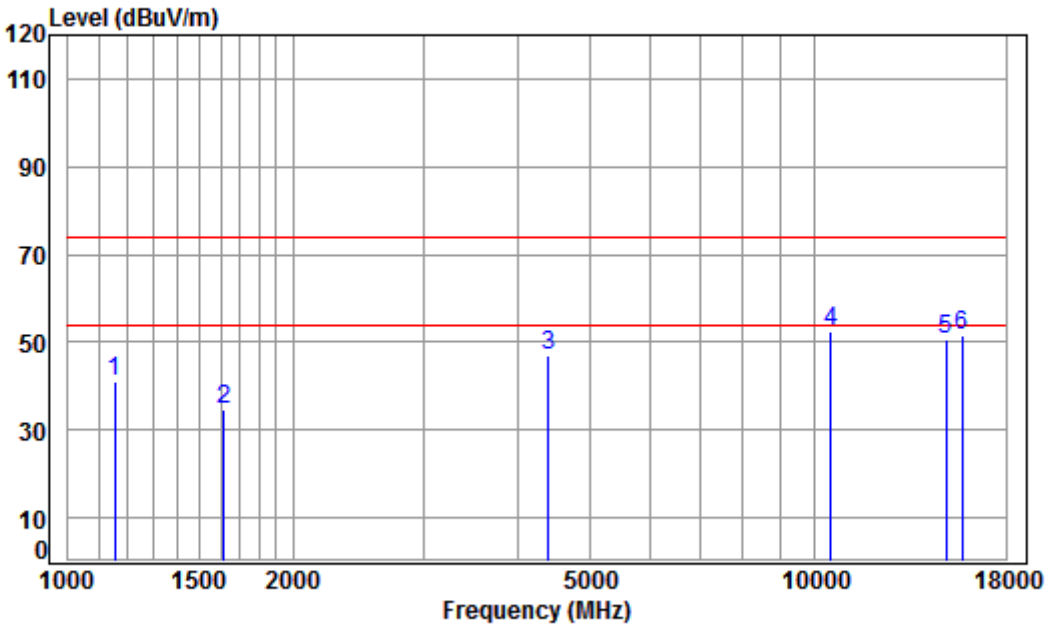
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: High



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5240 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	50.88	41.07	74.00	-32.93	peak
2	1615.754	4.61	26.32	38.04	41.97	34.86	74.00	-39.14	peak
3	4392.376	7.16	33.60	38.20	44.22	46.78	74.00	-27.22	peak
4	pp10480.000	11.84	37.12	35.14	38.53	52.35	74.00	-21.65	peak
5	14960.120	14.84	41.23	38.90	33.53	50.70	74.00	-23.30	peak
6	15720.000	15.42	41.31	38.11	32.96	51.58	74.00	-22.42	peak

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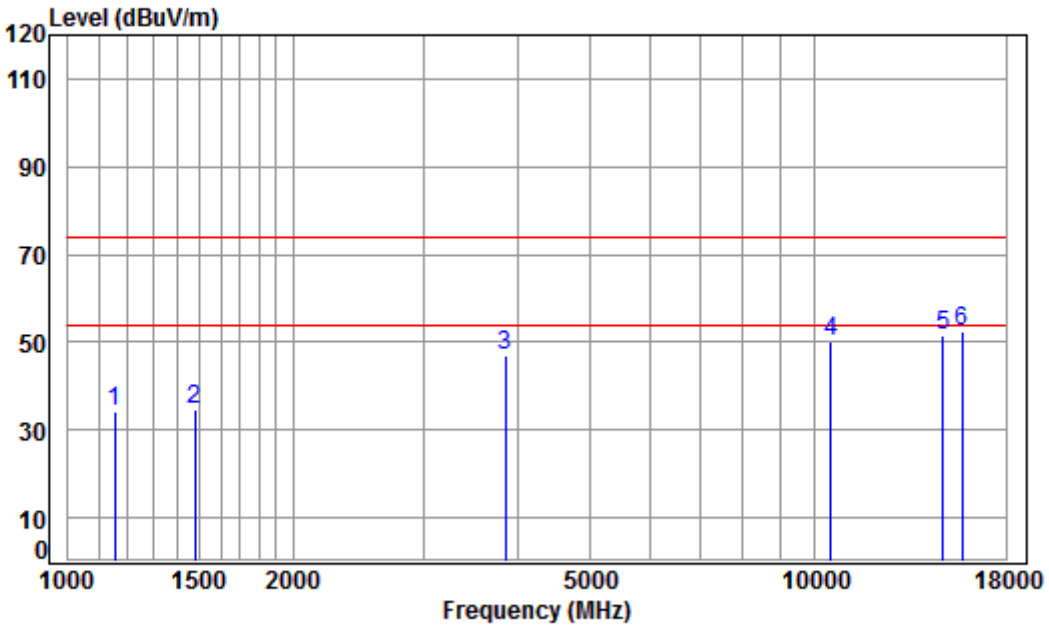
Mode:g; Polarization:Vertical; Modulation Type:802.11n; Channel: High



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5240 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	43.96	34.15	74.00	-39.85	peak
2	1477.276	4.44	25.71	38.05	42.69	34.79	74.00	-39.21	peak
3	3845.537	6.58	33.19	37.98	45.07	46.86	74.00	-27.14	peak
4	10480.000	11.84	37.12	35.14	36.52	50.34	74.00	-23.66	peak
5	14830.960	14.81	41.00	38.92	34.70	51.59	74.00	-22.41	peak
6	pp15720.000	15.42	41.31	38.11	33.68	52.30	74.00	-21.70	peak

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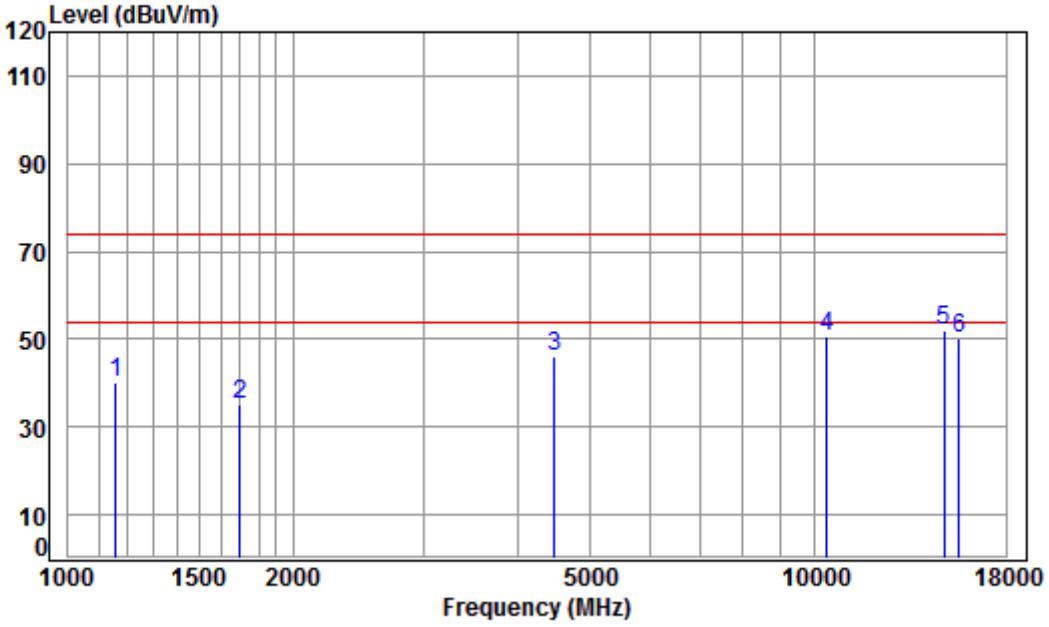
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: Low



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5190 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	49.88	40.09	74.00	-33.91	peak
2	1697.129	4.70	26.66	38.03	41.77	35.10	74.00	-38.90	peak
3	4482.150	7.26	33.60	38.24	43.63	46.25	74.00	-27.75	peak
4	10380.000	11.76	37.22	35.09	36.82	50.71	74.00	-23.29	peak
5	pp14873.890	14.82	41.08	38.91	34.82	51.81	74.00	-22.19	peak
6	15570.000	15.31	41.37	38.27	31.66	50.07	74.00	-23.93	peak

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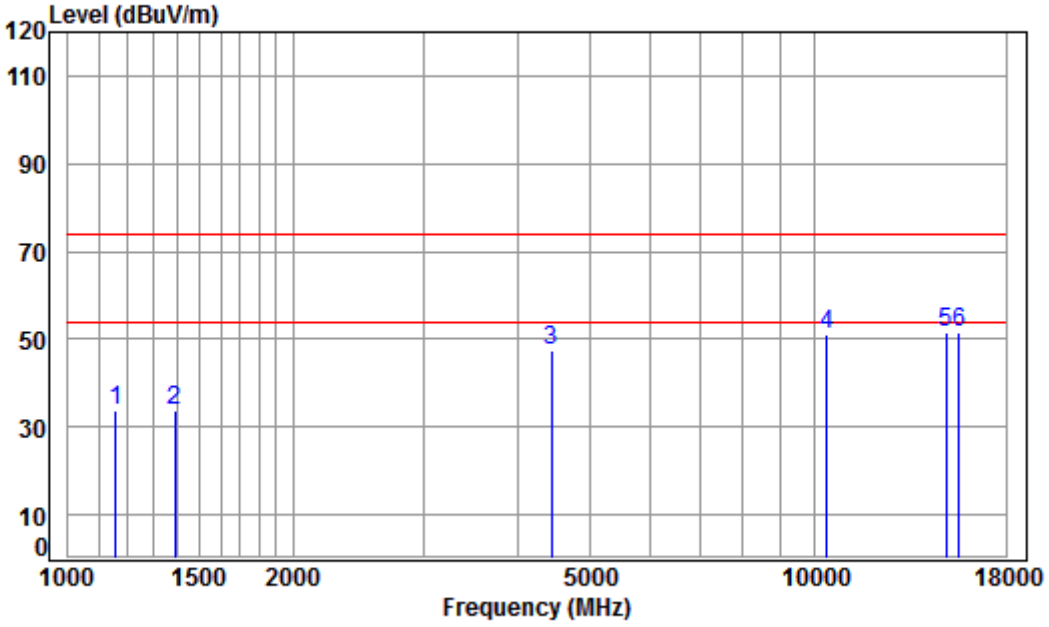
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: Low



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5190 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	43.70	33.91	74.00	-40.09	peak
2	1390.276	4.34	25.35	38.06	42.36	33.99	74.00	-40.01	peak
3	4430.628	7.20	33.60	38.22	45.07	47.65	74.00	-26.35	peak
4	10380.000	11.76	37.22	35.09	37.06	50.95	74.00	-23.05	peak
5	14960.120	14.84	41.23	38.90	34.35	51.52	74.00	-22.48	peak
6	pp15570.000	15.31	41.37	38.27	33.14	51.55	74.00	-22.45	peak

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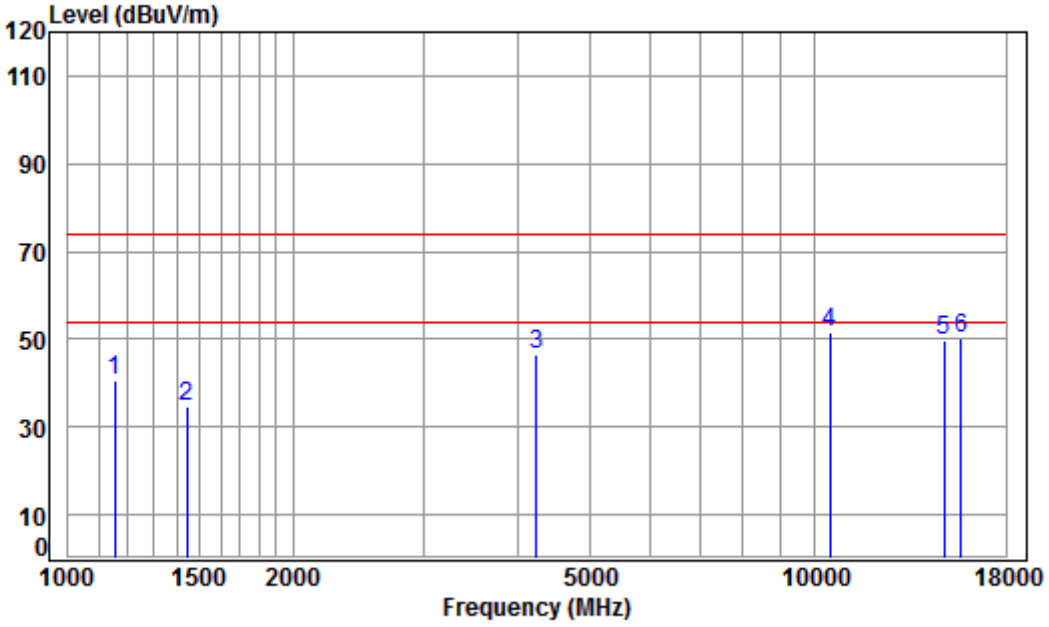
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: High



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5230 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	50.60	40.79	74.00	-33.21	peak
2	1443.509	4.40	25.57	38.06	42.78	34.69	74.00	-39.31	peak
3	4230.396	6.98	33.60	38.12	43.97	46.43	74.00	-27.57	peak
4	pp10460.000	11.83	37.14	35.13	37.89	51.73	74.00	-22.27	peak
5	14873.890	14.82	41.08	38.91	32.68	49.67	74.00	-24.33	peak
6	15690.000	15.40	41.32	38.14	31.55	50.13	74.00	-23.87	peak

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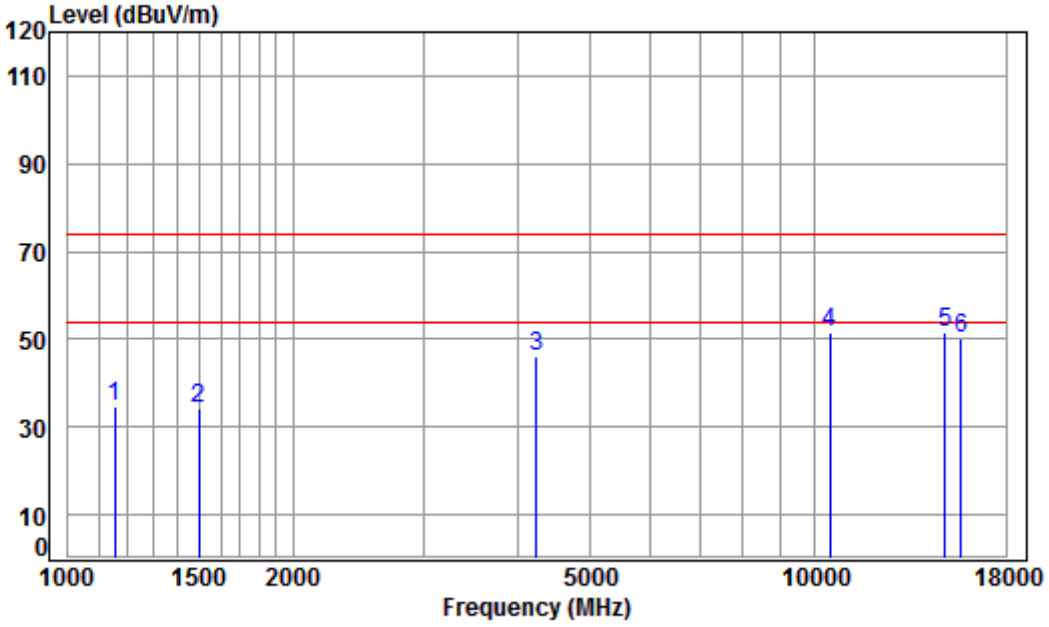
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: High



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5230 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	44.45	34.64	74.00	-39.36	peak
2	1498.781	4.47	25.80	38.05	42.23	34.45	74.00	-39.55	peak
3	4230.396	6.98	33.60	38.12	43.54	46.00	74.00	-28.00	peak
4	pp10460.000	11.83	37.14	35.13	37.95	51.79	74.00	-22.21	peak
5	14916.940	14.83	41.15	38.91	34.60	51.67	74.00	-22.33	peak
6	15690.000	15.40	41.32	38.14	31.78	50.36	74.00	-23.64	peak

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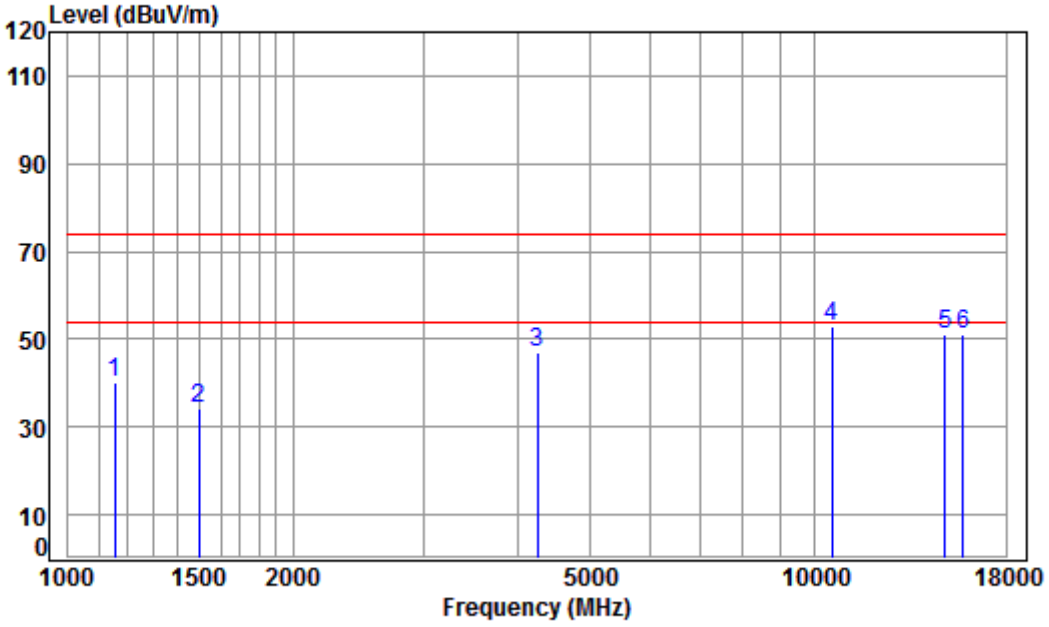
Band2

Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: Low



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5260 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	50.14	40.33	74.00	-33.67	peak
2	1498.781	4.47	25.80	38.05	41.85	34.07	74.00	-39.93	peak
3	4254.921	7.00	33.60	38.13	44.38	46.85	74.00	-27.15	peak
4	pp10520.000	11.88	37.12	35.16	39.21	53.05	74.00	-20.95	peak
5	14916.940	14.83	41.15	38.91	34.14	51.21	74.00	-22.79	peak
6	15780.000	15.47	41.29	38.04	32.55	51.27	74.00	-22.73	peak

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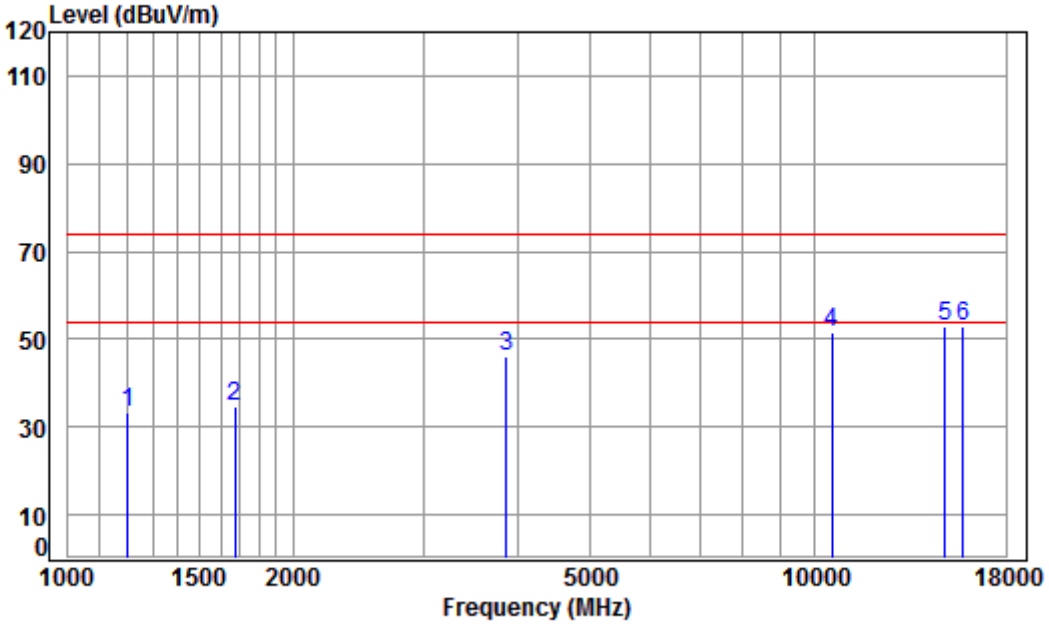
Mode:g; Polarization:Vertical; Modulation Type:802.11a; Channel: Low



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5260 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1203.199	4.08	24.49	38.08	42.71	33.20	74.00	-40.80	peak
2	1672.779	4.67	26.56	38.03	41.60	34.80	74.00	-39.20	peak
3	3856.668	6.59	33.22	37.99	44.49	46.31	74.00	-27.69	peak
4	10520.000	11.88	37.12	35.16	37.71	51.55	74.00	-22.45	peak
5	pp14916.940	14.83	41.15	38.91	35.83	52.90	74.00	-21.10	peak
6	15780.000	15.47	41.29	38.04	34.06	52.78	74.00	-21.22	peak

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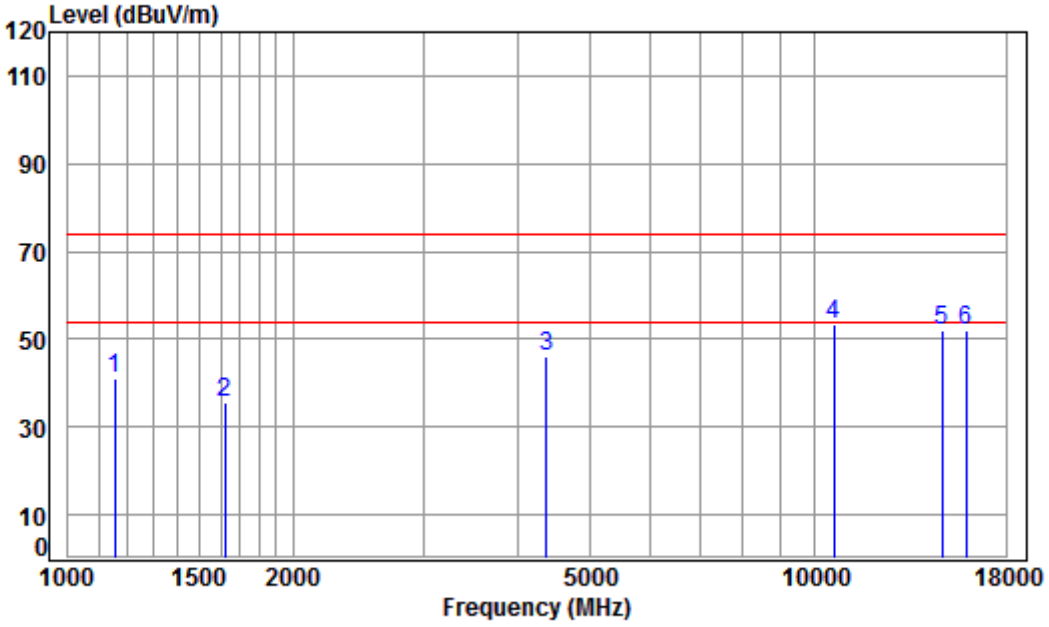
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: Middle



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5300 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	50.91	41.10	74.00	-32.90	peak
2	1620.431	4.61	26.34	38.04	42.78	35.69	74.00	-38.31	peak
3	4367.058	7.13	33.60	38.18	43.50	46.05	74.00	-27.95	peak
4	pp10600.000	11.94	37.22	35.20	39.39	53.35	74.00	-20.65	peak
5	14788.150	14.80	40.92	38.92	35.39	52.19	74.00	-21.81	peak
6	15900.000	15.56	41.24	37.91	33.16	52.05	74.00	-21.95	peak

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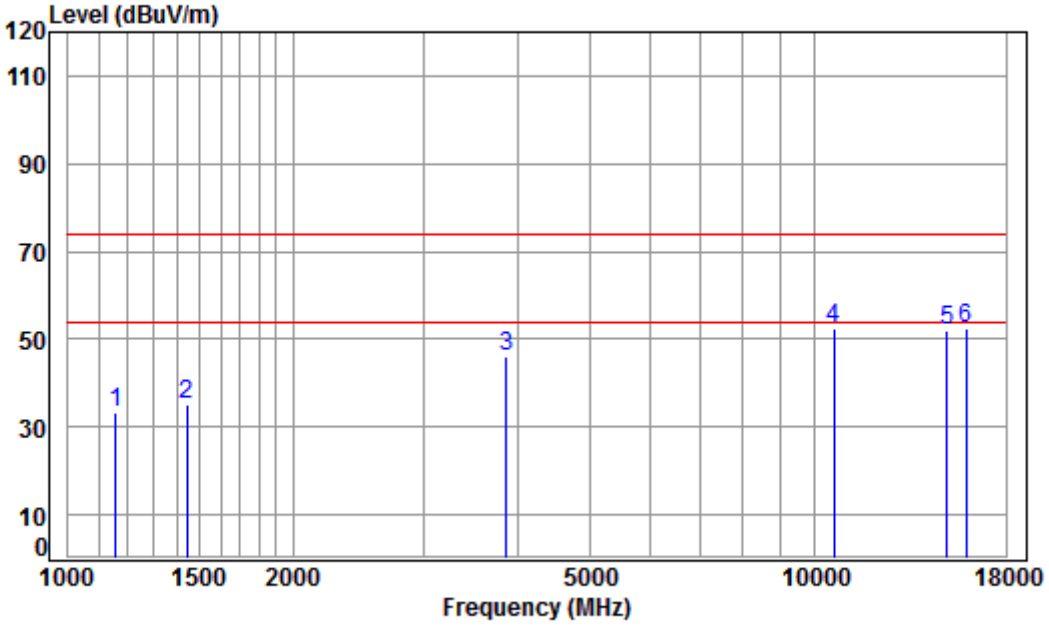
Mode:g; Polarization:Vertical; Modulation Type:802.11a; Channel: Middle



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5300 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	43.30	33.51	74.00	-40.49	peak
2	1443.509	4.40	25.57	38.06	43.34	35.25	74.00	-38.75	peak
3	3856.668	6.59	33.22	37.99	44.28	46.10	74.00	-27.90	peak
4	pp10600.000	11.94	37.22	35.20	38.57	52.53	74.00	-21.47	peak
5	15003.420	14.85	41.30	38.90	34.82	52.07	74.00	-21.93	peak
6	15900.000	15.56	41.24	37.91	33.45	52.34	74.00	-21.66	peak

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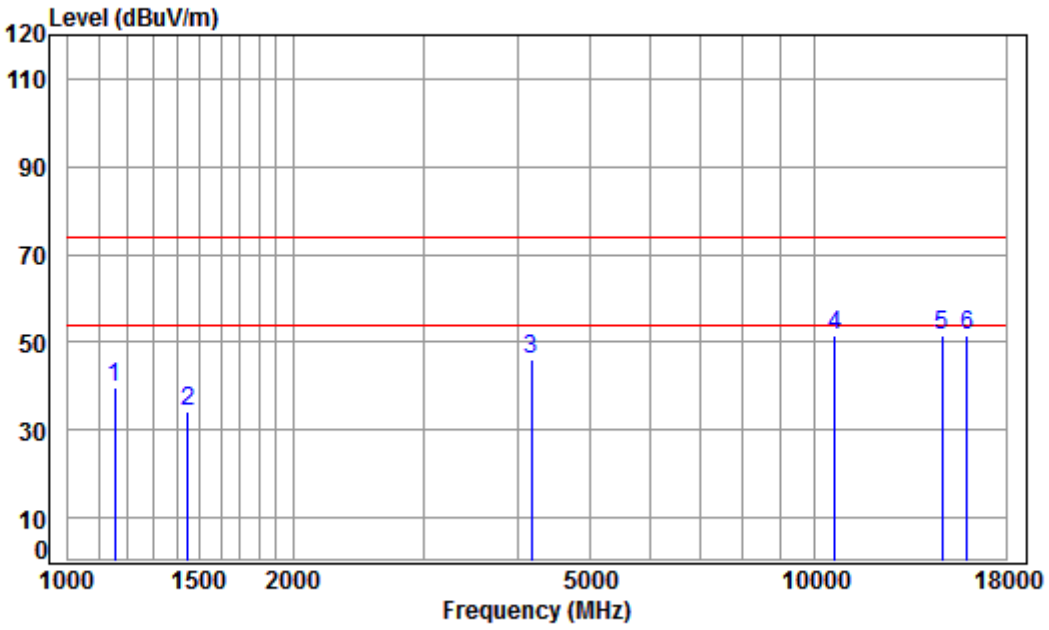
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: High



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5320 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	49.56	39.75	74.00	-34.25	peak
2	1447.688	4.41	25.59	38.06	42.39	34.33	74.00	-39.67	peak
3	4169.698	6.90	33.60	38.08	43.68	46.10	74.00	-27.90	peak
4	10640.000	11.97	37.27	35.22	37.41	51.43	74.00	-22.57	peak
5	pp14788.150	14.80	40.92	38.92	34.91	51.71	74.00	-22.29	peak
6	15960.000	15.61	41.22	37.84	32.51	51.50	74.00	-22.50	peak

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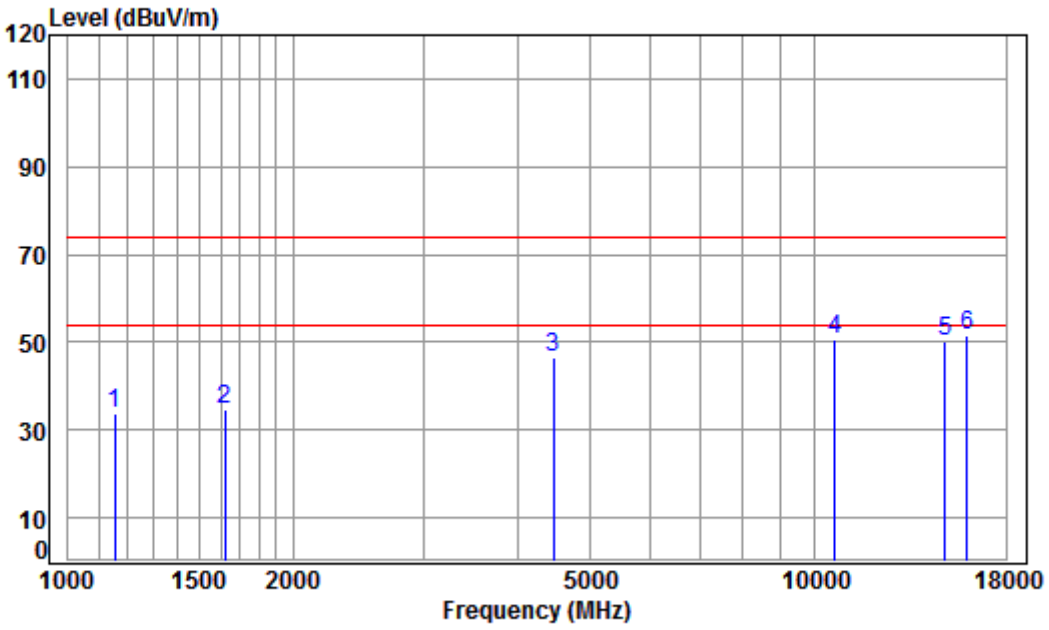
Mode:g; Polarization:Vertical; Modulation Type:802.11a; Channel: High



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5320 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	43.66	33.85	74.00	-40.15	peak
2	1620.431	4.61	26.34	38.04	41.80	34.71	74.00	-39.29	peak
3	4469.214	7.25	33.60	38.23	43.86	46.48	74.00	-27.52	peak
4	10640.000	11.97	37.27	35.22	36.58	50.60	74.00	-23.40	peak
5	14916.940	14.83	41.15	38.91	33.23	50.30	74.00	-23.70	peak
6	pp15960.000	15.61	41.22	37.84	32.52	51.51	74.00	-22.49	peak

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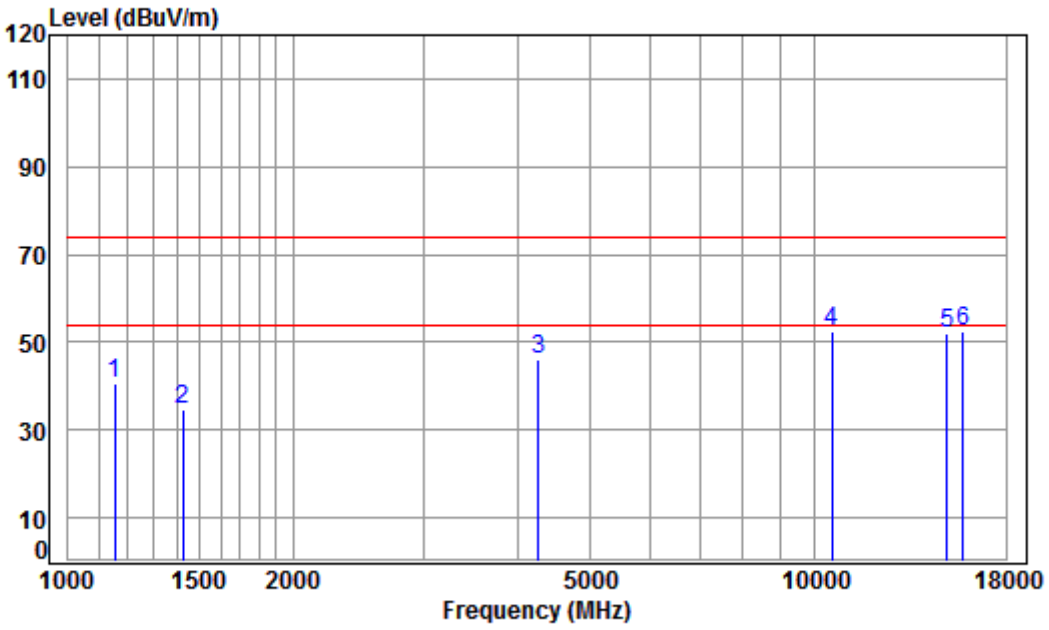
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: Low



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5260 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	50.27	40.46	74.00	-33.54	peak
2	1426.916	4.38	25.50	38.06	42.66	34.48	74.00	-39.52	peak
3	4267.237	7.02	33.60	38.13	43.73	46.22	74.00	-27.78	peak
4	pp10520.000	11.88	37.12	35.16	38.72	52.56	74.00	-21.44	peak
5	15003.420	14.85	41.30	38.90	34.58	51.83	74.00	-22.17	peak
6	15780.000	15.47	41.29	38.04	33.69	52.41	74.00	-21.59	peak

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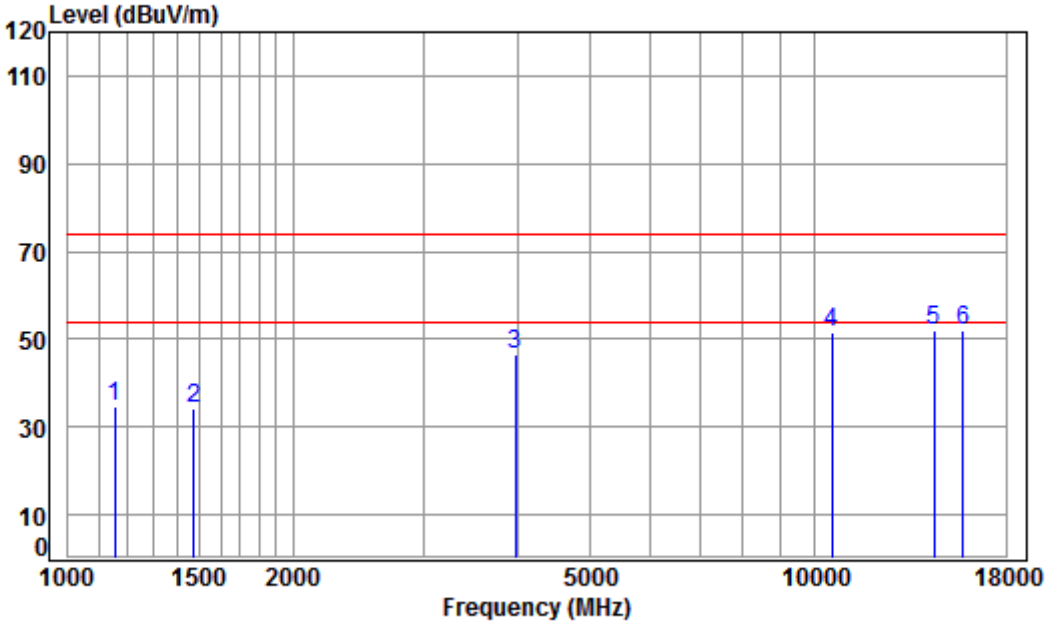
Mode:g; Polarization:Vertical; Modulation Type:802.11n; Channel: Low



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5260 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	44.41	34.60	74.00	-39.40	peak
2	1473.013	4.44	25.69	38.05	42.08	34.16	74.00	-39.84	peak
3	3969.767	6.68	33.52	38.00	44.18	46.38	74.00	-27.62	peak
4	10520.000	11.88	37.12	35.16	37.57	51.41	74.00	-22.59	peak
5	14408.430	14.70	40.18	38.96	35.88	51.80	74.00	-22.20	peak
6	pp15780.000	15.47	41.29	38.04	33.35	52.07	74.00	-21.93	peak

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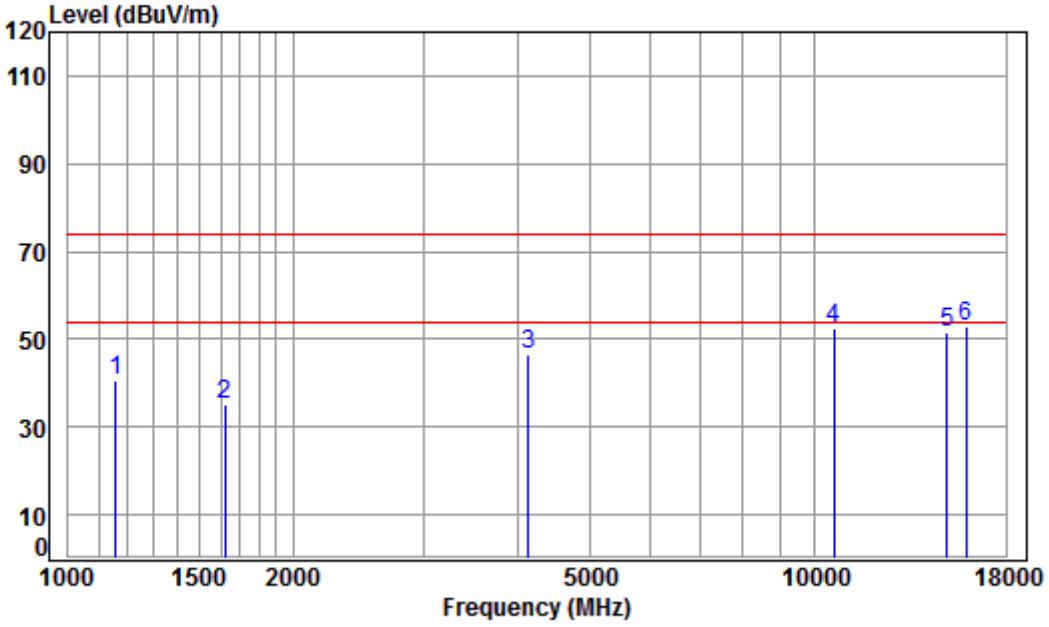
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: Middle



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5300 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	50.31	40.52	74.00	-33.48	peak
2	1620.431	4.61	26.34	38.04	42.25	35.16	74.00	-38.84	peak
3	4133.699	6.86	33.60	38.07	44.25	46.64	74.00	-27.36	peak
4	10600.000	11.94	37.22	35.20	38.46	52.42	74.00	-21.58	peak
5	15003.420	14.85	41.30	38.90	34.22	51.47	74.00	-22.53	peak
6	pp15900.000	15.56	41.24	37.91	34.04	52.93	74.00	-21.07	peak

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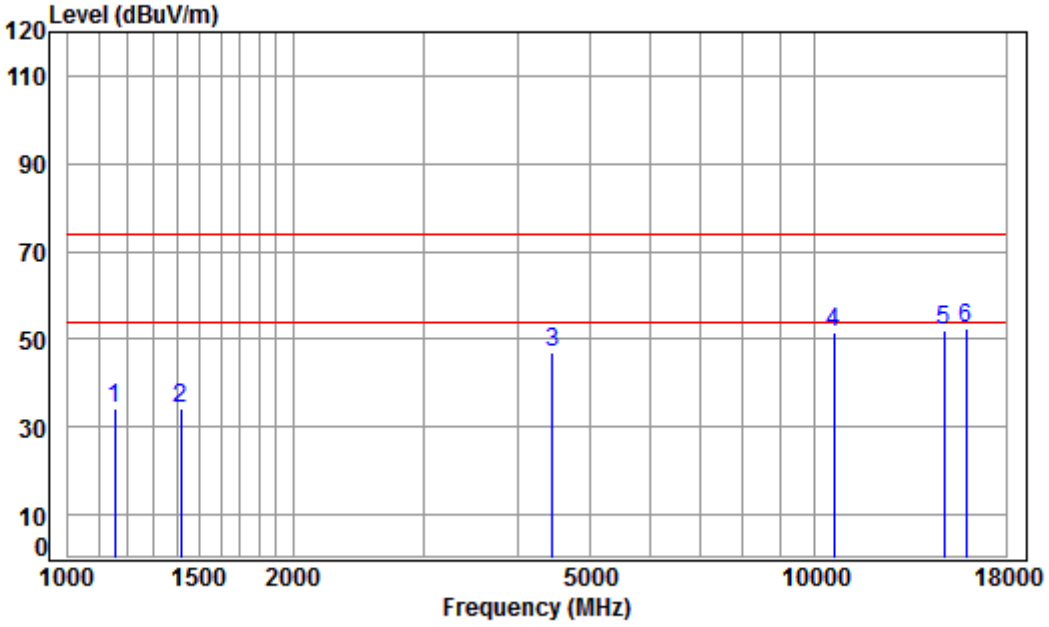
Mode:g; Polarization:Vertical; Modulation Type:802.11n; Channel: Middle



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5300 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	43.84	34.03	74.00	-39.97	peak
2	1414.597	4.37	25.45	38.06	42.33	34.09	74.00	-39.91	peak
3	4456.315	7.23	33.60	38.23	44.46	47.06	74.00	-26.94	peak
4	10600.000	11.94	37.22	35.20	37.41	51.37	74.00	-22.63	peak
5	14873.890	14.82	41.08	38.91	35.13	52.12	74.00	-21.88	peak
6	pp15900.000	15.56	41.24	37.91	33.38	52.27	74.00	-21.73	peak

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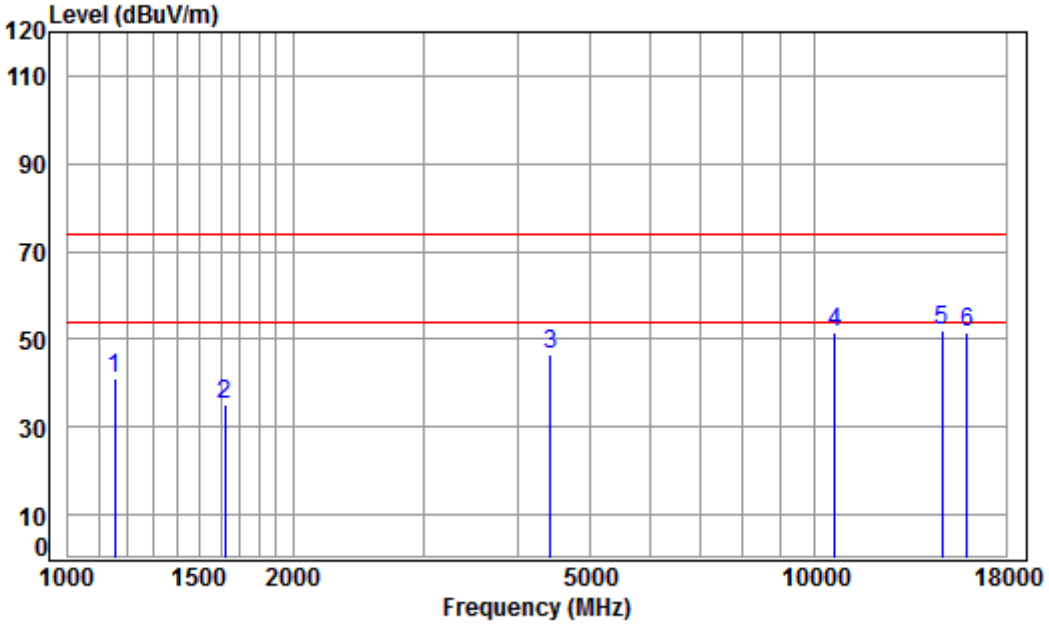
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: High



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5320 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	50.89	41.08	74.00	-32.92	peak
2	1620.431	4.61	26.34	38.04	42.26	35.17	74.00	-38.83	peak
3	4417.841	7.19	33.60	38.21	44.15	46.73	74.00	-27.27	peak
4	10640.000	11.97	37.27	35.22	37.51	51.53	74.00	-22.47	peak
5	pp14788.150	14.80	40.92	38.92	35.25	52.05	74.00	-21.95	peak
6	15960.000	15.61	41.22	37.84	32.69	51.68	74.00	-22.32	peak

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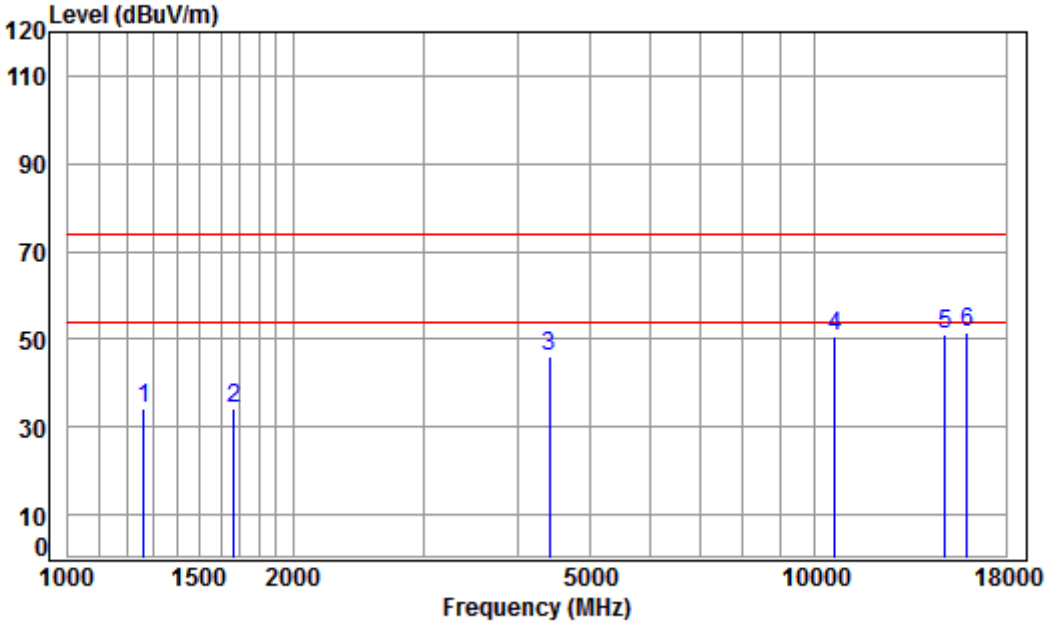
Mode:g; Polarization:Vertical; Modulation Type:802.11n; Channel: High



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5320 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	4.17	24.79	38.07	43.13	34.02	74.00	-39.98	peak
2	1667.951	4.67	26.54	38.03	40.92	34.10	74.00	-39.90	peak
3	4405.090	7.18	33.60	38.20	43.69	46.27	74.00	-27.73	peak
4	10640.000	11.97	37.27	35.22	36.61	50.63	74.00	-23.37	peak
5	14916.940	14.83	41.15	38.91	33.97	51.04	74.00	-22.96	peak
6	pp15960.000	15.61	41.22	37.84	32.45	51.44	74.00	-22.56	peak

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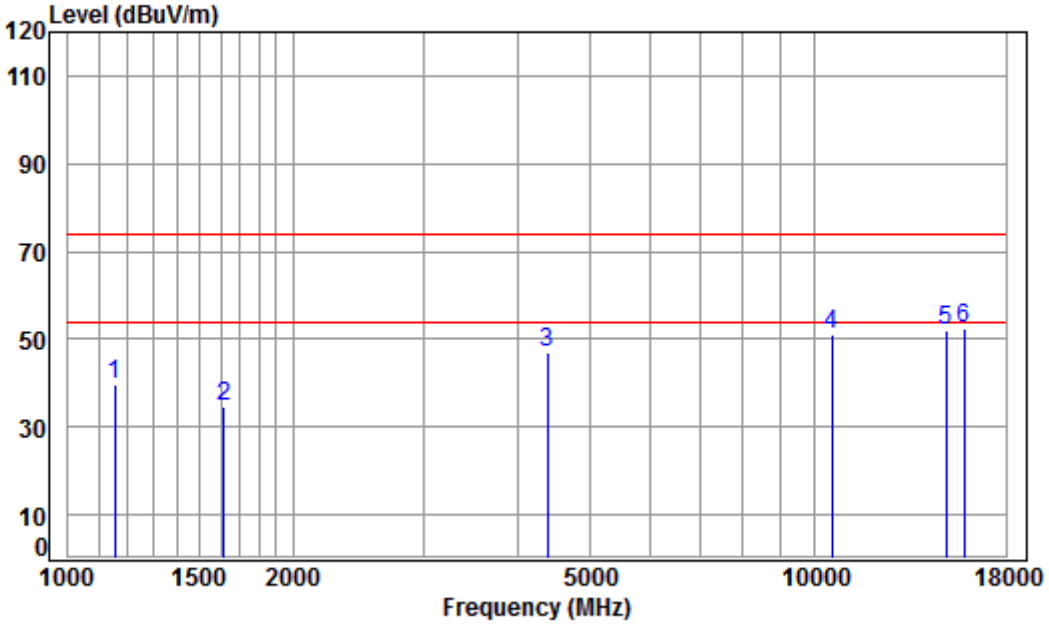
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: Low



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5270 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	49.54	39.73	74.00	-34.27	peak
2	1615.754	4.61	26.32	38.04	41.89	34.78	74.00	-39.22	peak
3	4379.699	7.15	33.60	38.19	44.28	46.84	74.00	-27.16	peak
4	10540.000	11.89	37.15	35.17	37.39	51.26	74.00	-22.74	peak
5	14960.120	14.84	41.23	38.90	34.88	52.05	74.00	-21.95	peak
6	pp15810.000	15.49	41.28	38.01	33.91	52.67	74.00	-21.33	peak

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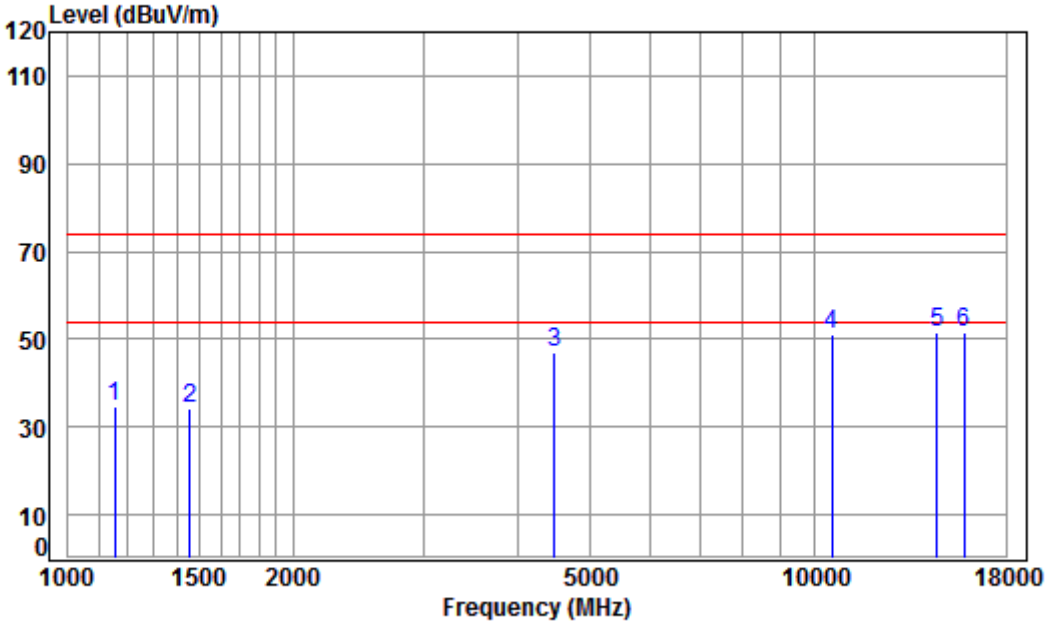
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: Low



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5270 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	44.61	34.80	74.00	-39.20	peak
2	1456.081	4.42	25.62	38.05	42.30	34.29	74.00	-39.71	peak
3	4482.150	7.26	33.60	38.24	44.24	46.86	74.00	-27.14	peak
4	10540.000	11.89	37.15	35.17	37.35	51.22	74.00	-22.78	peak
5	pp14575.970	14.74	40.54	38.94	35.41	51.75	74.00	-22.25	peak
6	15810.000	15.49	41.28	38.01	32.67	51.43	74.00	-22.57	peak

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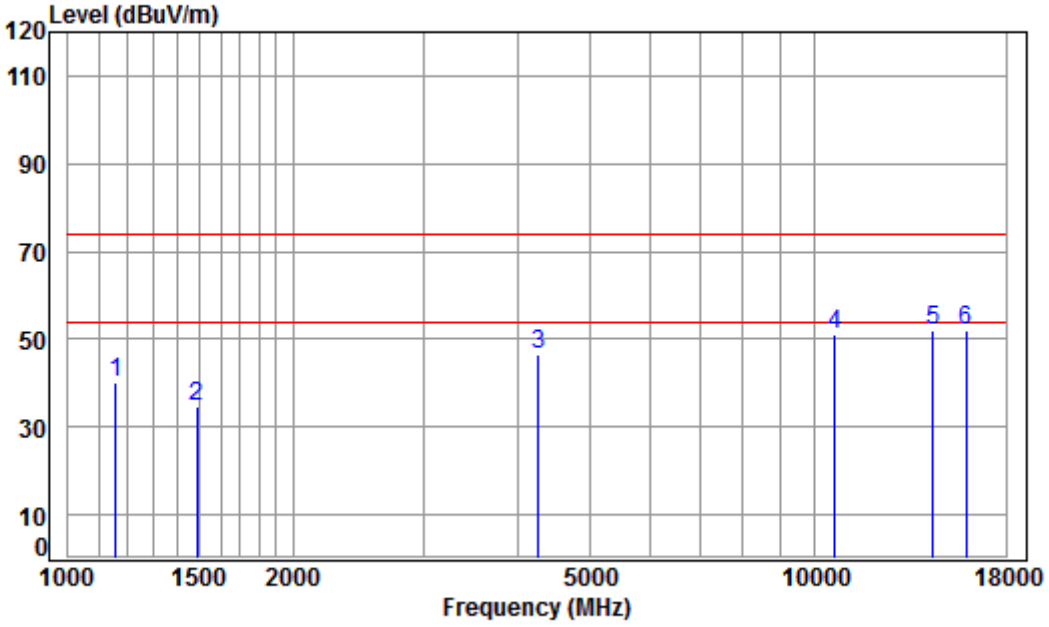
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: High



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5310 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	50.00	40.21	74.00	-33.79	peak
2	1485.841	4.45	25.74	38.05	42.70	34.84	74.00	-39.16	peak
3	4267.237	7.02	33.60	38.13	43.86	46.35	74.00	-27.65	peak
4	10620.000	11.96	37.25	35.21	37.18	51.18	74.00	-22.82	peak
5	pp14366.840	14.69	40.08	38.96	36.34	52.15	74.00	-21.85	peak
6	15930.000	15.59	41.23	37.88	32.92	51.86	74.00	-22.14	peak

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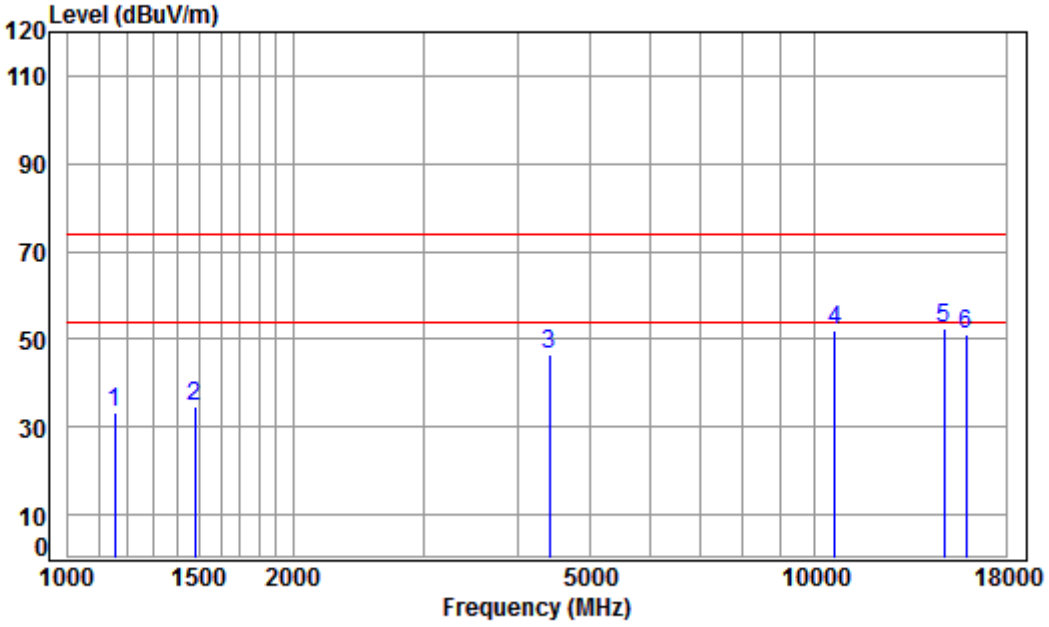
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: High



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5310 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	43.15	33.34	74.00	-40.66	peak
2	1477.276	4.44	25.71	38.05	42.46	34.56	74.00	-39.44	peak
3	4405.090	7.18	33.60	38.20	43.75	46.33	74.00	-27.67	peak
4	10620.000	11.96	37.25	35.21	37.90	51.90	74.00	-22.10	peak
5	pp14873.890	14.82	41.08	38.91	35.56	52.55	74.00	-21.45	peak
6	15930.000	15.59	41.23	37.88	32.35	51.29	74.00	-22.71	peak

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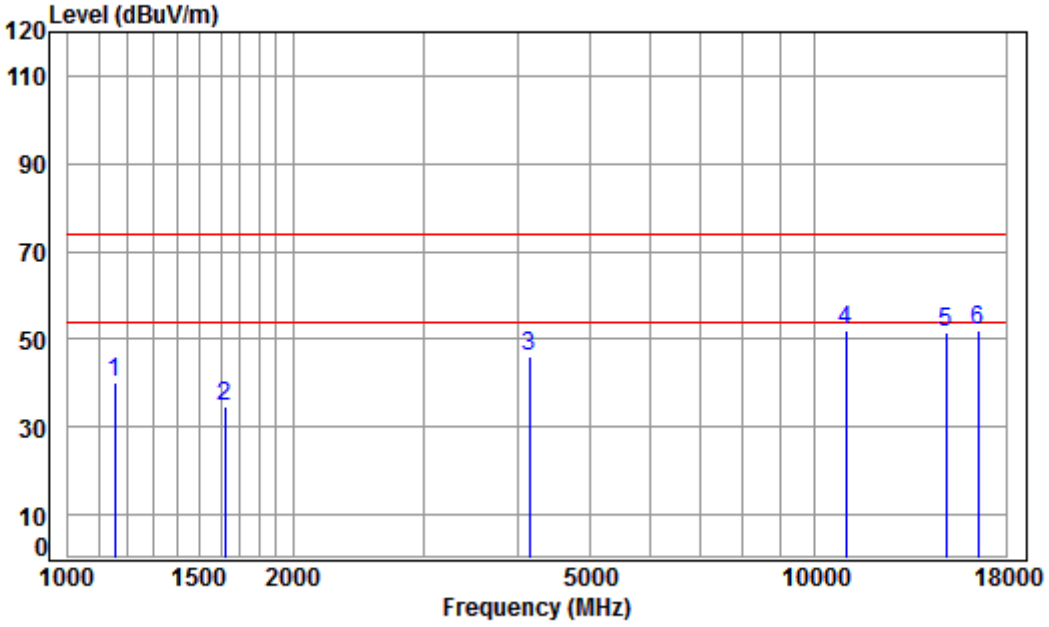
Band3

Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: Low



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5500 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	49.78	39.97	74.00	-34.03	peak
2	1620.431	4.61	26.34	38.04	41.74	34.65	74.00	-39.35	peak
3	4145.664	6.88	33.60	38.07	43.90	46.31	74.00	-27.69	peak
4	11000.000	12.26	37.70	35.40	37.37	51.93	74.00	-22.07	peak
5	14960.120	14.84	41.23	38.90	34.61	51.78	74.00	-22.22	peak
6	pp16500.000	16.03	42.70	37.05	30.30	51.98	74.00	-22.02	peak

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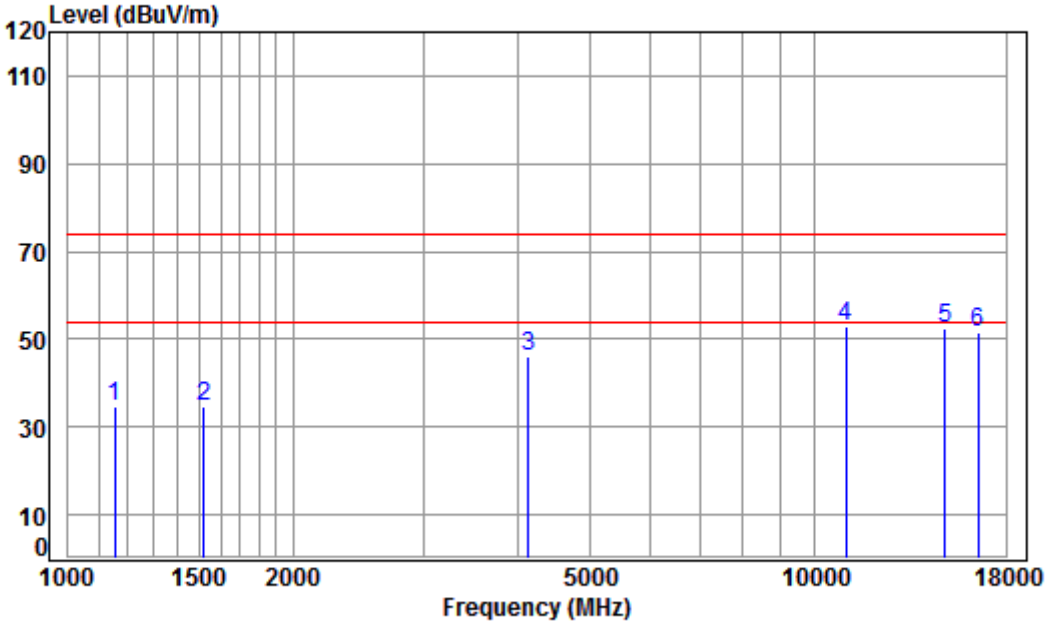
Mode:g; Polarization:Vertical; Modulation Type:802.11a; Channel: Low



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5500 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	44.31	34.50	74.00	-39.50	peak
2	1520.598	4.50	25.89	38.05	42.43	34.77	74.00	-39.23	peak
3	4133.699	6.86	33.60	38.07	43.54	45.93	74.00	-28.07	peak
4	pp11000.000	12.26	37.70	35.40	38.19	52.75	74.00	-21.25	peak
5	14916.940	14.83	41.15	38.91	35.20	52.27	74.00	-21.73	peak
6	16500.000	16.03	42.70	37.05	29.73	51.41	74.00	-22.59	peak

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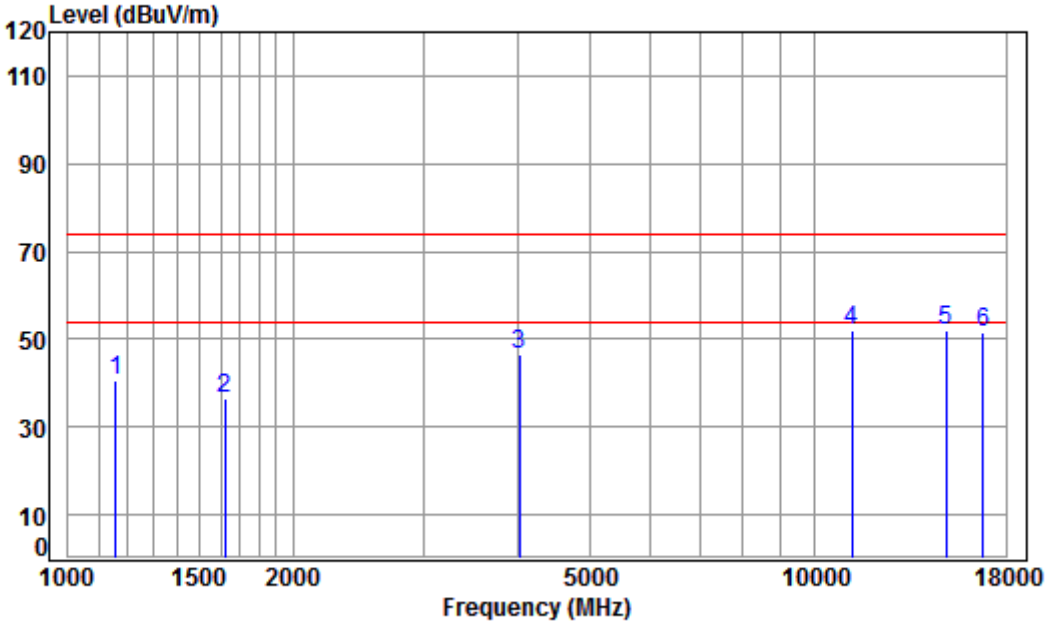
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: Middle



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5600 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	50.40	40.61	74.00	-33.39	peak
2	1620.431	4.61	26.34	38.04	43.71	36.62	74.00	-37.38	peak
3	4015.929	6.72	33.60	38.01	44.38	46.69	74.00	-27.31	peak
4	pp11200.000	12.29	37.86	35.44	37.33	52.04	74.00	-21.96	peak
5	14960.120	14.84	41.23	38.90	34.70	51.87	74.00	-22.13	peak
6	16800.000	16.59	42.76	36.60	28.73	51.48	74.00	-22.52	peak

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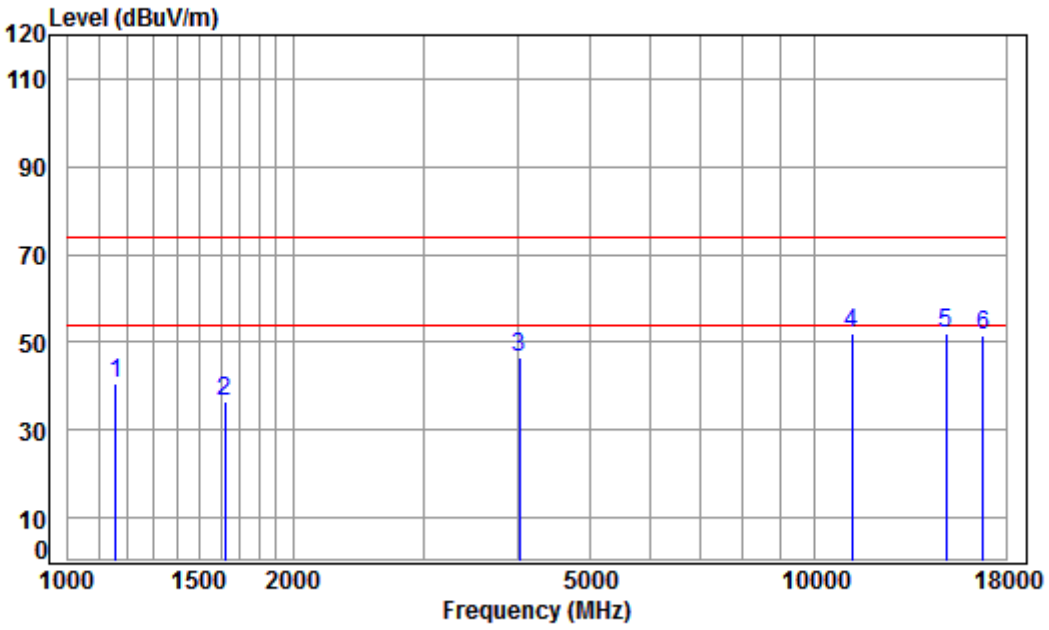
Mode:g; Polarization:Vertical; Modulation Type:802.11a; Channel: Middle



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5600 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	50.40	40.61	74.00	-33.39	peak
2	1620.431	4.61	26.34	38.04	43.71	36.62	74.00	-37.38	peak
3	4015.929	6.72	33.60	38.01	44.38	46.69	74.00	-27.31	peak
4	pp11200.000	12.29	37.86	35.44	37.33	52.04	74.00	-21.96	peak
5	14960.120	14.84	41.23	38.90	34.70	51.87	74.00	-22.13	peak
6	16800.000	16.59	42.76	36.60	28.73	51.48	74.00	-22.52	peak

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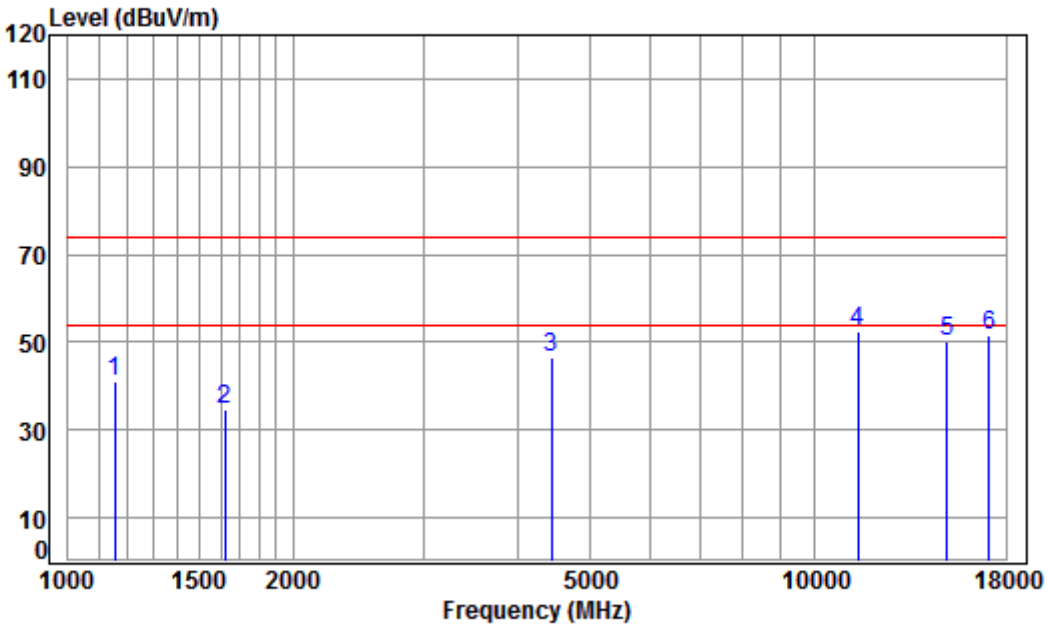
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: High



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5700 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	50.72	40.91	74.00	-33.09	peak
2	1620.431	4.61	26.34	38.04	41.71	34.62	74.00	-39.38	peak
3	4443.453	7.22	33.60	38.22	44.13	46.73	74.00	-27.27	peak
4	pp11400.000	12.32	38.02	35.48	37.39	52.25	74.00	-21.75	peak
5	15003.420	14.85	41.30	38.90	33.06	50.31	74.00	-23.69	peak
6	17100.000	17.23	42.92	36.25	27.67	51.57	74.00	-22.43	peak

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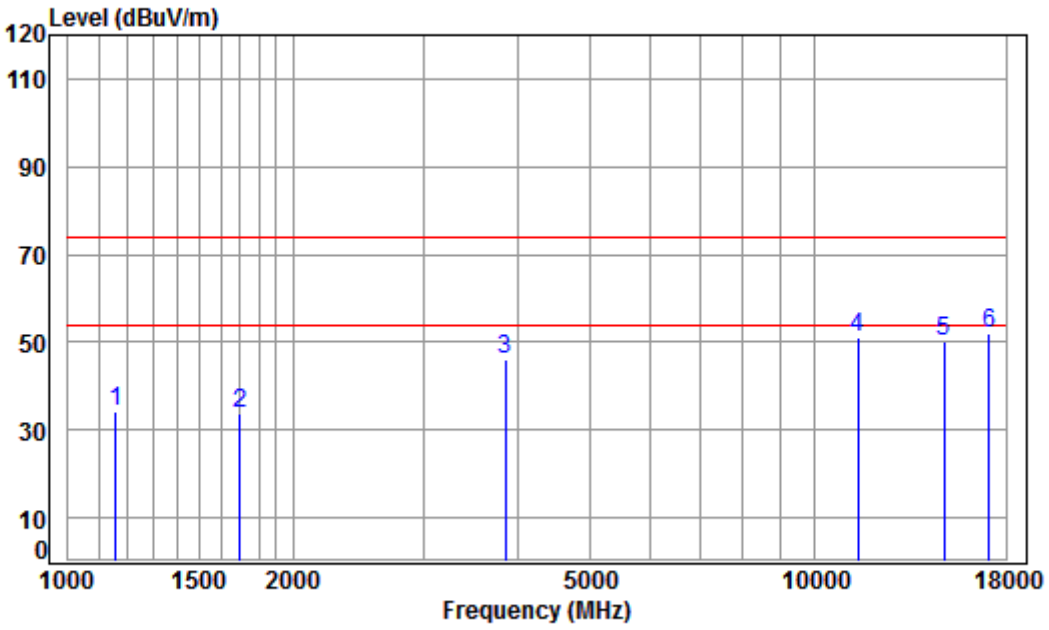
Mode:g; Polarization:Vertical; Modulation Type:802.11a; Channel: High



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5700 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	44.15	34.36	74.00	-39.64	peak
2	1697.129	4.70	26.66	38.03	40.55	33.88	74.00	-40.12	peak
3	3845.537	6.58	33.19	37.98	44.50	46.29	74.00	-27.71	peak
4	11400.000	12.32	38.02	35.48	36.40	51.26	74.00	-22.74	peak
5	14873.890	14.82	41.08	38.91	33.30	50.29	74.00	-23.71	peak
6	pp17100.000	17.23	42.92	36.25	28.31	52.21	74.00	-21.79	peak

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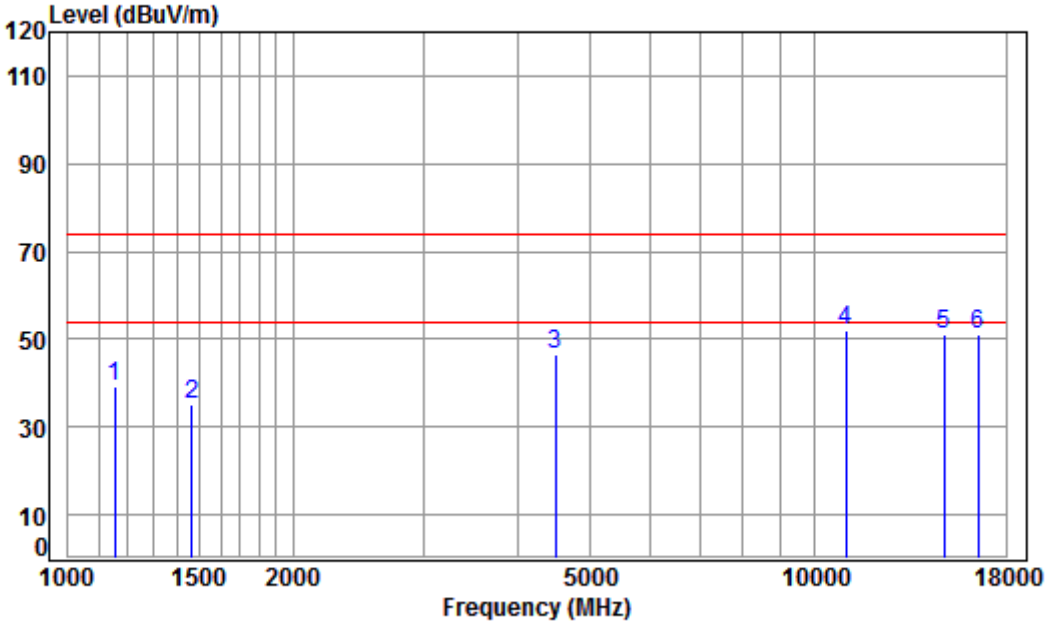
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: Low



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5500 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	49.21	39.40	74.00	-34.60	peak
2	1464.522	4.43	25.66	38.05	43.25	35.29	74.00	-38.71	peak
3	4495.125	7.27	33.60	38.25	44.00	46.62	74.00	-27.38	peak
4	pp11000.000	12.26	37.70	35.40	37.31	51.87	74.00	-22.13	peak
5	14873.890	14.82	41.08	38.91	34.15	51.14	74.00	-22.86	peak
6	16500.000	16.03	42.70	37.05	29.51	51.19	74.00	-22.81	peak

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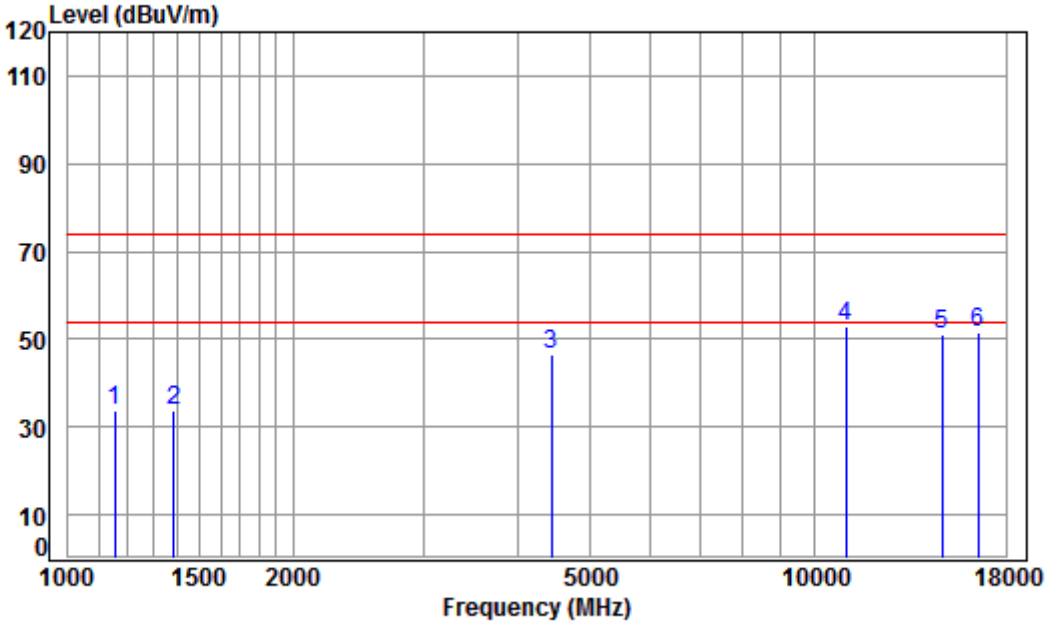
Mode:g; Polarization:Vertical; Modulation Type:802.11n; Channel: Low



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5500 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	43.71	33.90	74.00	-40.10	peak
2	1386.264	4.33	25.33	38.06	42.02	33.62	74.00	-40.38	peak
3	4443.453	7.22	33.60	38.22	43.92	46.52	74.00	-27.48	peak
4	pp11000.000	12.26	37.70	35.40	38.19	52.75	74.00	-21.25	peak
5	14788.150	14.80	40.92	38.92	34.43	51.23	74.00	-22.77	peak
6	16500.000	16.03	42.70	37.05	30.05	51.73	74.00	-22.27	peak

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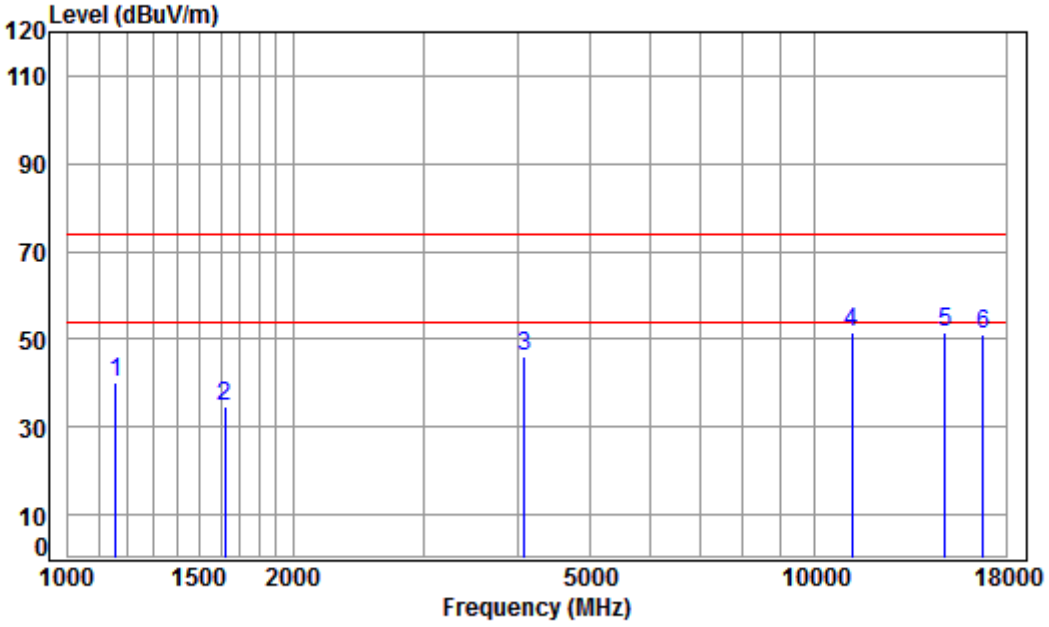
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: Middle



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5600 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	49.78	39.99	74.00	-34.01	peak
2	1620.431	4.61	26.34	38.04	41.99	34.90	74.00	-39.10	peak
3	4086.182	6.80	33.60	38.04	43.95	46.31	74.00	-27.69	peak
4	pp11200.000	12.29	37.86	35.44	36.99	51.70	74.00	-22.30	peak
5	14916.940	14.83	41.15	38.91	34.57	51.64	74.00	-22.36	peak
6	16800.000	16.59	42.76	36.60	28.55	51.30	74.00	-22.70	peak

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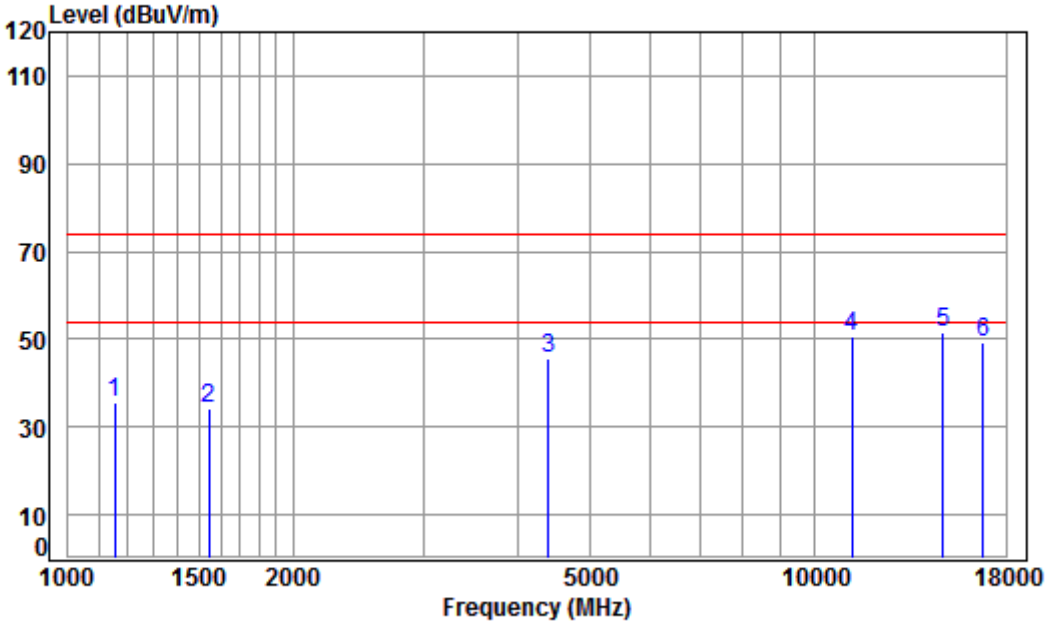
Mode:g; Polarization:Vertical; Modulation Type:802.11n; Channel: Middle



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5600 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	45.63	35.82	74.00	-38.18	peak
2	1542.733	4.52	26.00	38.05	41.69	34.16	74.00	-39.84	peak
3	4392.376	7.16	33.60	38.20	43.23	45.79	74.00	-28.21	peak
4	11200.000	12.29	37.86	35.44	35.93	50.64	74.00	-23.36	peak
5	pp14830.960	14.81	41.00	38.92	34.61	51.50	74.00	-22.50	peak
6	16800.000	16.59	42.76	36.60	26.57	49.32	74.00	-24.68	peak

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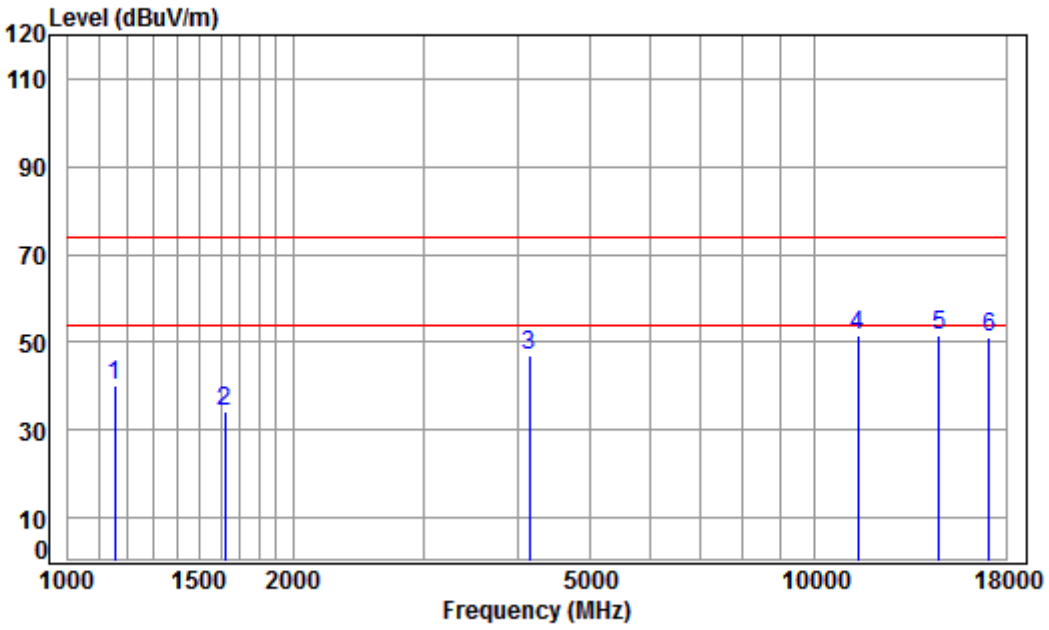
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: High



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5700 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	49.81	40.00	74.00	-34.00	peak
2	1620.431	4.61	26.34	38.04	41.31	34.22	74.00	-39.78	peak
3	4145.664	6.88	33.60	38.07	44.52	46.93	74.00	-27.07	peak
4	pp11400.000	12.32	38.02	35.48	36.69	51.55	74.00	-22.45	peak
5	14660.480	14.76	40.69	38.93	34.99	51.51	74.00	-22.49	peak
6	17100.000	17.23	42.92	36.25	27.20	51.10	74.00	-22.90	peak

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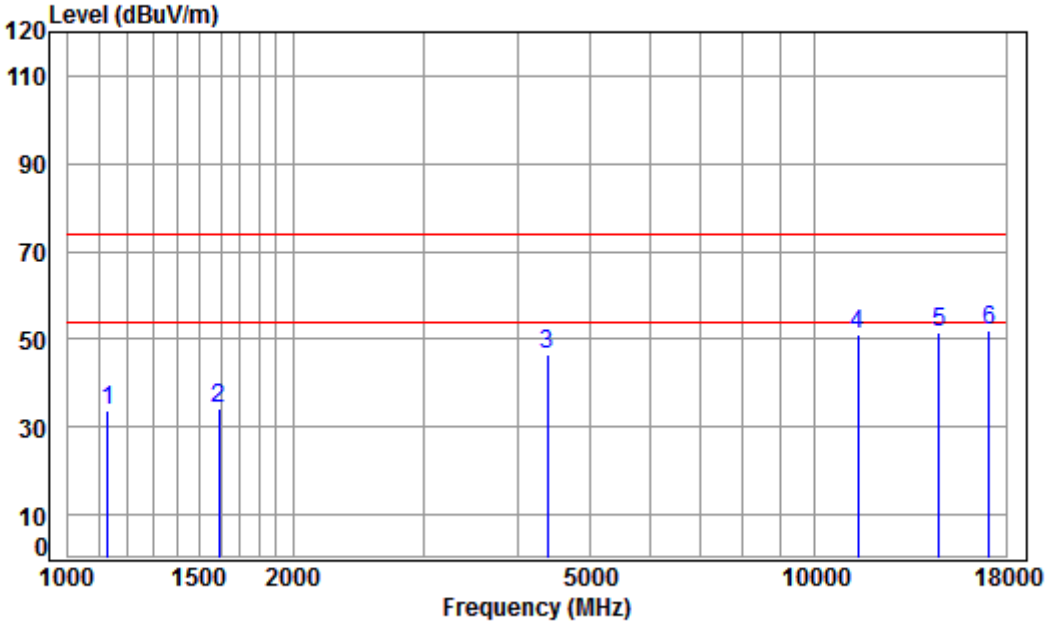
Mode:g; Polarization:Vertical; Modulation Type:802.11n; Channel: High



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5700 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1129.072	3.97	24.12	38.09	43.69	33.69	74.00	-40.31	peak
2	1592.571	4.58	26.22	38.04	41.59	34.35	74.00	-39.65	peak
3	4379.699	7.15	33.60	38.19	43.82	46.38	74.00	-27.62	peak
4	11400.000	12.32	38.02	35.48	36.29	51.15	74.00	-22.85	peak
5	14660.480	14.76	40.69	38.93	35.09	51.61	74.00	-22.39	peak
6	pp17100.000	17.23	42.92	36.25	28.26	52.16	74.00	-21.84	peak

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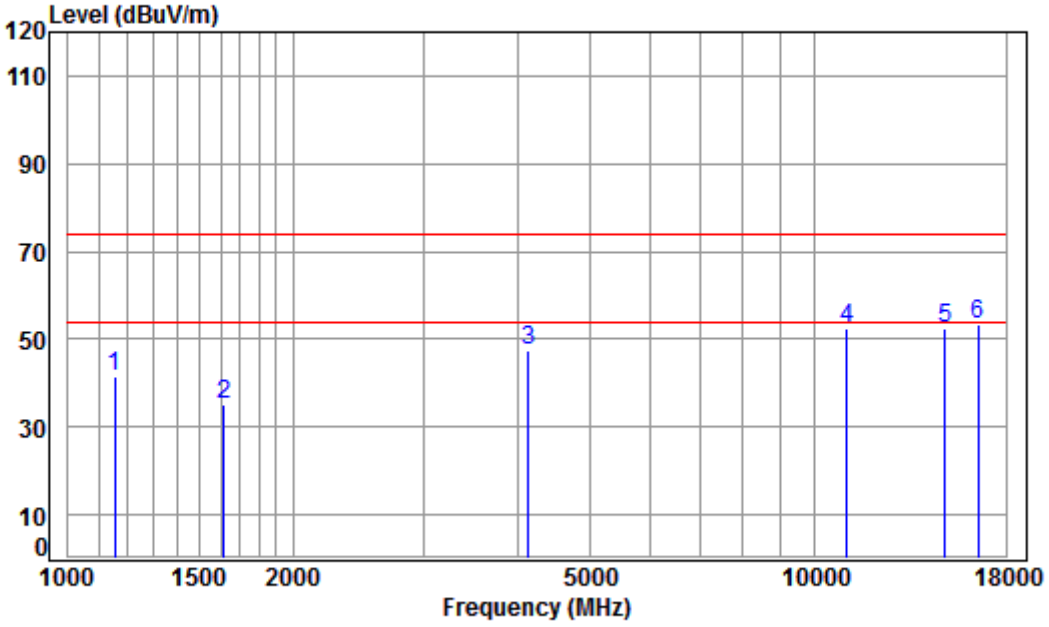
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: Low



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5510 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	51.18	41.37	74.00	-32.63	peak
2	1615.754	4.61	26.32	38.04	42.36	35.25	74.00	-38.75	peak
3	4133.699	6.86	33.60	38.07	45.05	47.44	74.00	-26.56	peak
4	11020.000	12.26	37.72	35.40	38.08	52.66	74.00	-21.34	peak
5	14916.940	14.83	41.15	38.91	35.21	52.28	74.00	-21.72	peak
6	pp16530.000	16.09	42.71	37.01	31.38	53.17	74.00	-20.83	peak

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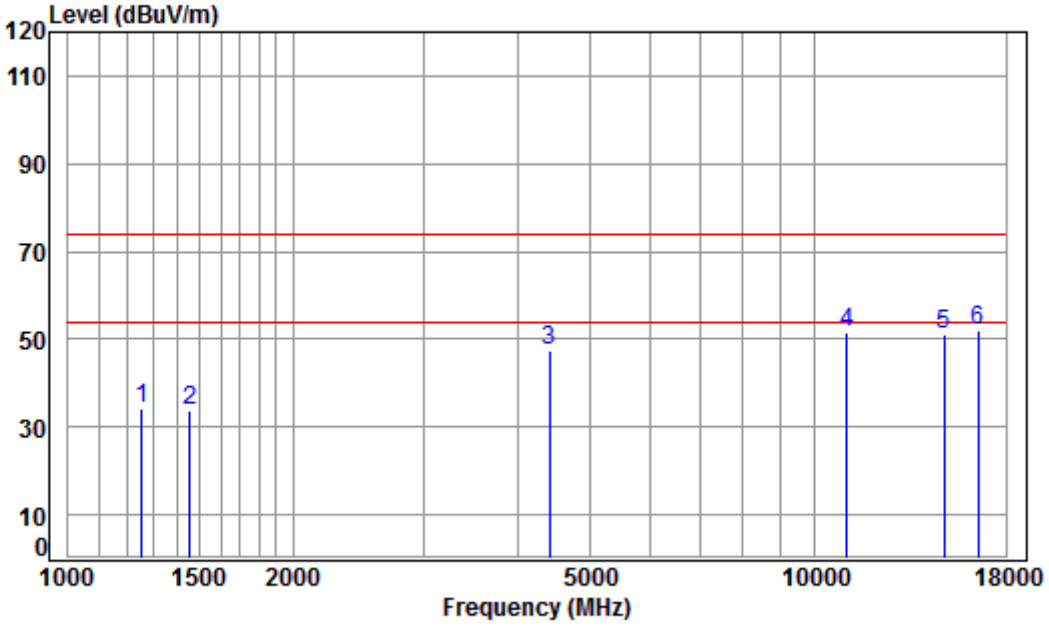
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: Low



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5510 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	4.16	24.75	38.07	43.19	34.03	74.00	-39.97	peak
2	1456.081	4.42	25.62	38.05	41.55	33.54	74.00	-40.46	peak
3	4405.090	7.18	33.60	38.20	44.97	47.55	74.00	-26.45	peak
4	11020.000	12.26	37.72	35.40	36.82	51.40	74.00	-22.60	peak
5	14873.890	14.82	41.08	38.91	33.89	50.88	74.00	-23.12	peak
6	pp16530.000	16.09	42.71	37.01	30.17	51.96	74.00	-22.04	peak

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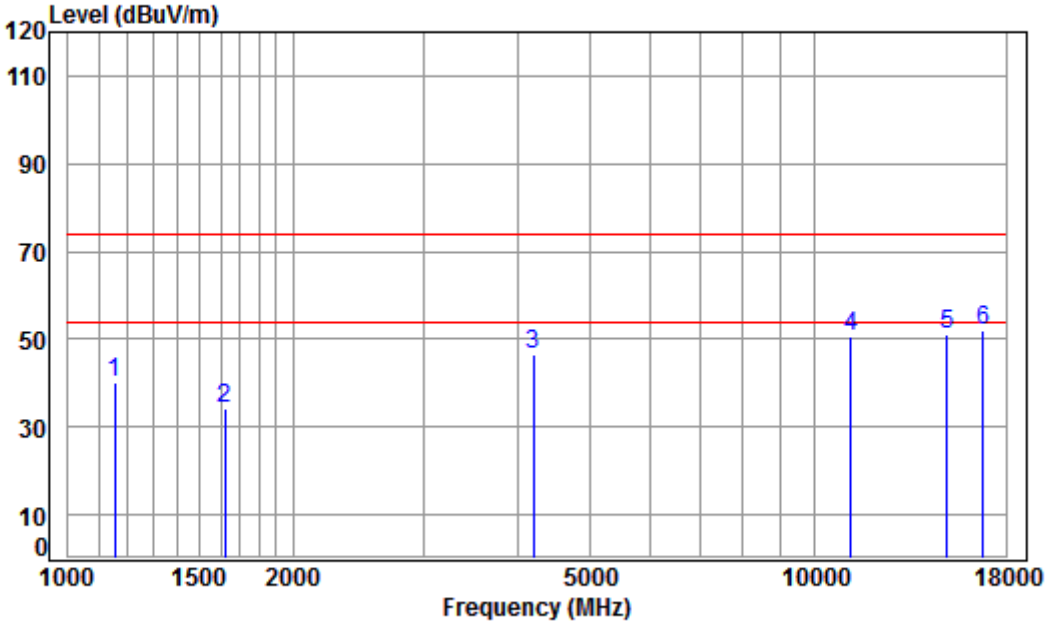
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: Middle



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5590 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	50.09	40.28	74.00	-33.72	peak
2	1620.431	4.61	26.34	38.04	41.29	34.20	74.00	-39.80	peak
3	4193.872	6.93	33.60	38.10	44.06	46.49	74.00	-27.51	peak
4	11180.000	12.29	37.85	35.44	35.98	50.68	74.00	-23.32	peak
5	15003.420	14.85	41.30	38.90	34.01	51.26	74.00	-22.74	peak
6	pp16770.000	16.54	42.75	36.65	29.41	52.05	74.00	-21.95	peak

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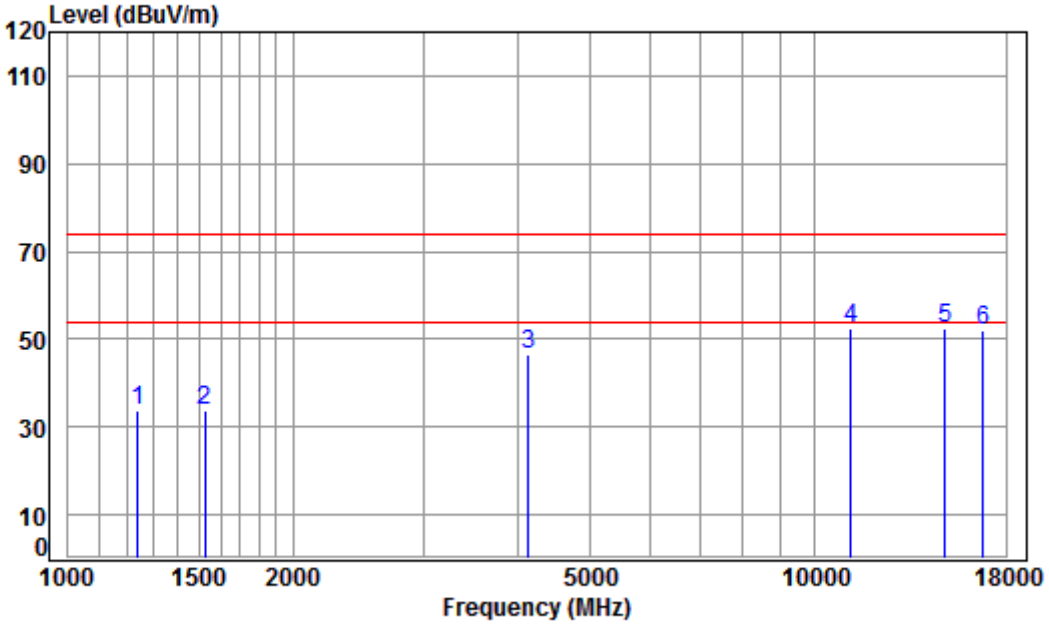
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: Middle



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5590 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	4.13	24.67	38.08	42.86	33.58	74.00	-40.42	peak
2	1525.000	4.50	25.91	38.05	41.46	33.82	74.00	-40.18	peak
3	4133.699	6.86	33.60	38.07	44.20	46.59	74.00	-27.41	peak
4	11180.000	12.29	37.85	35.44	37.63	52.33	74.00	-21.67	peak
5	pp14916.940	14.83	41.15	38.91	35.56	52.63	74.00	-21.37	peak
6	16770.000	16.54	42.75	36.65	29.47	52.11	74.00	-21.89	peak

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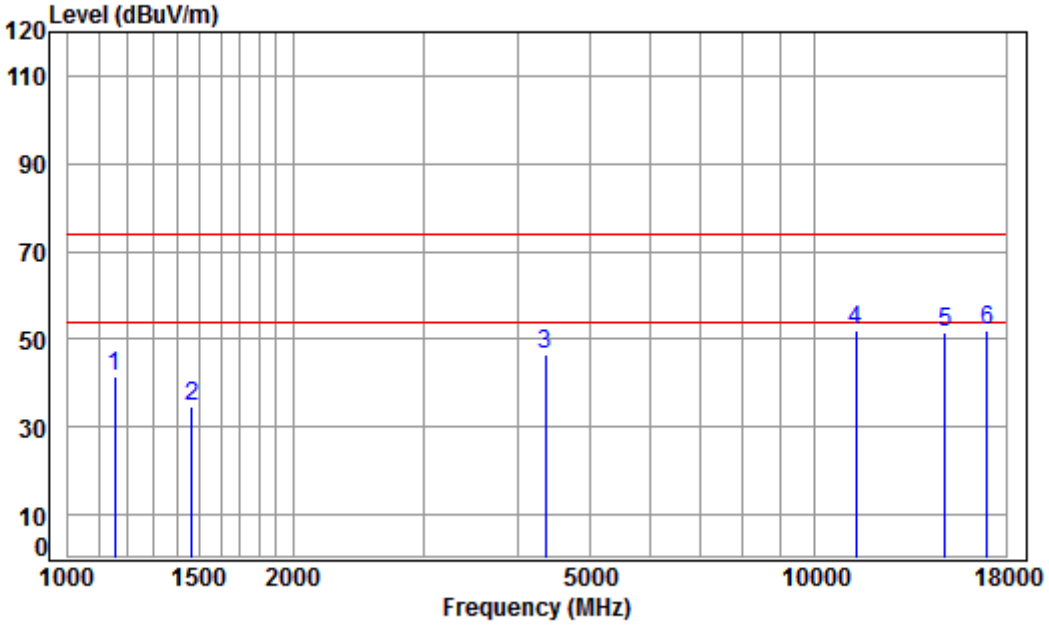
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: High



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5670 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	51.19	41.38	74.00	-32.62	peak
2	1464.522	4.43	25.66	38.05	42.80	34.84	74.00	-39.16	peak
3	4354.454	7.12	33.60	38.18	43.79	46.33	74.00	-27.67	peak
4	pp11340.000	12.31	37.97	35.47	37.29	52.10	74.00	-21.90	peak
5	14916.940	14.83	41.15	38.91	34.33	51.40	74.00	-22.60	peak
6	17010.000	16.99	42.81	36.29	28.42	51.93	74.00	-22.07	peak

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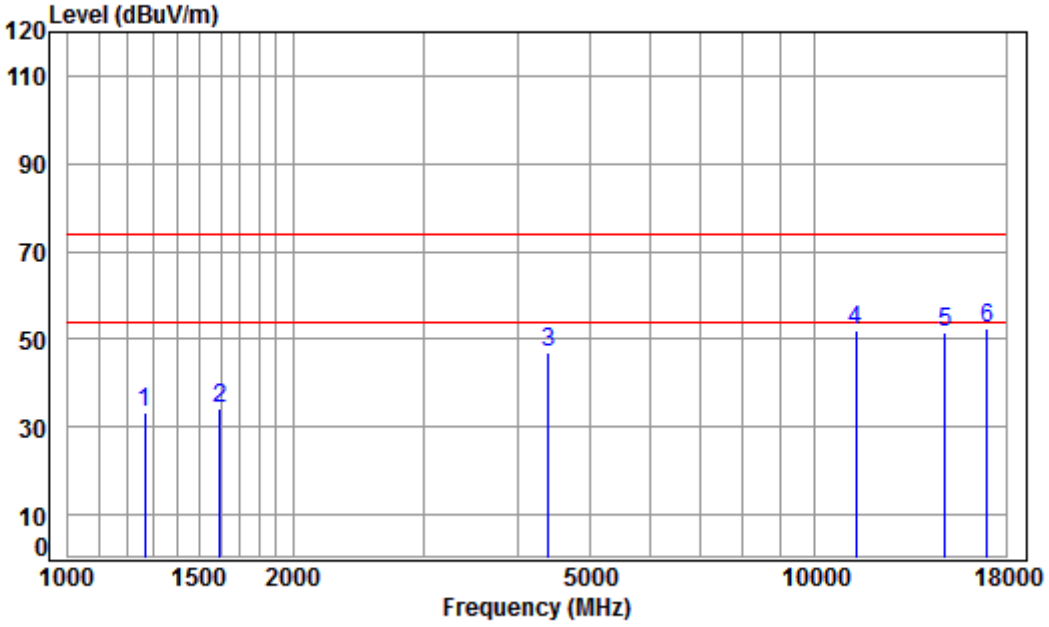
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: High



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5670 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	4.18	24.80	38.07	42.54	33.45	74.00	-40.55	peak
2	1597.181	4.59	26.24	38.04	41.64	34.43	74.00	-39.57	peak
3	4392.376	7.16	33.60	38.20	44.22	46.78	74.00	-27.22	peak
4	11340.000	12.31	37.97	35.47	37.29	52.10	74.00	-21.90	peak
5	14916.940	14.83	41.15	38.91	34.50	51.57	74.00	-22.43	peak
6	pp17010.000	16.99	42.81	36.29	29.00	52.51	74.00	-21.49	peak

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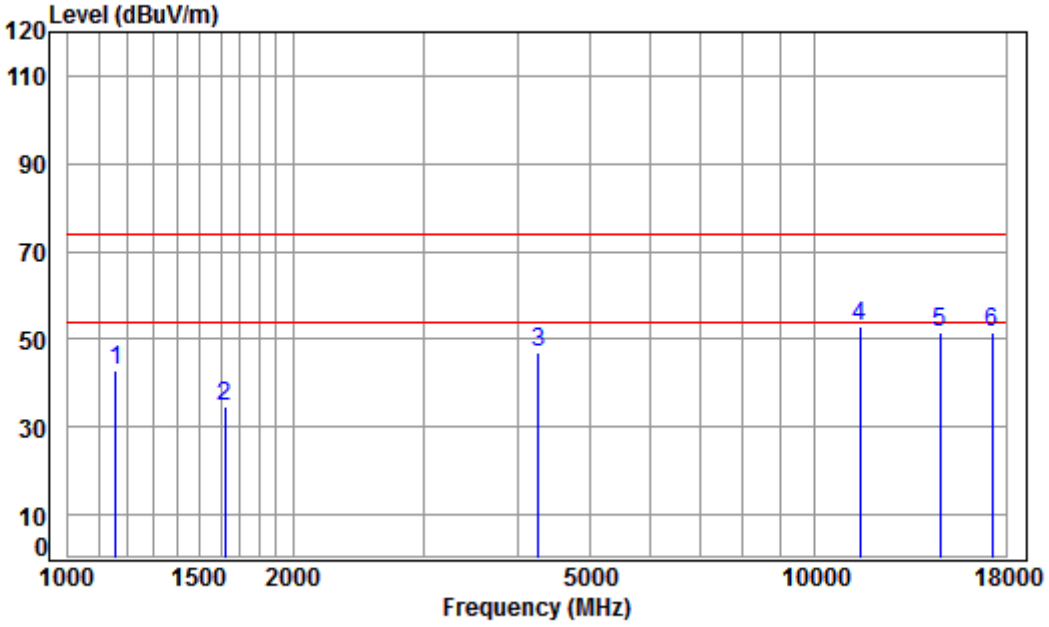
Band4

Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: Low



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5745 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	52.62	42.83	74.00	-31.17	peak
2	1620.431	4.61	26.34	38.04	41.59	34.50	74.00	-39.50	peak
3	4267.237	7.02	33.60	38.13	44.34	46.83	74.00	-27.17	peak
4	pp11490.000	12.33	38.09	35.50	37.85	52.77	74.00	-21.23	peak
5	14702.910	14.77	40.77	38.93	35.15	51.76	74.00	-22.24	peak
6	17235.000	17.60	43.08	36.18	27.24	51.74	74.00	-22.26	peak

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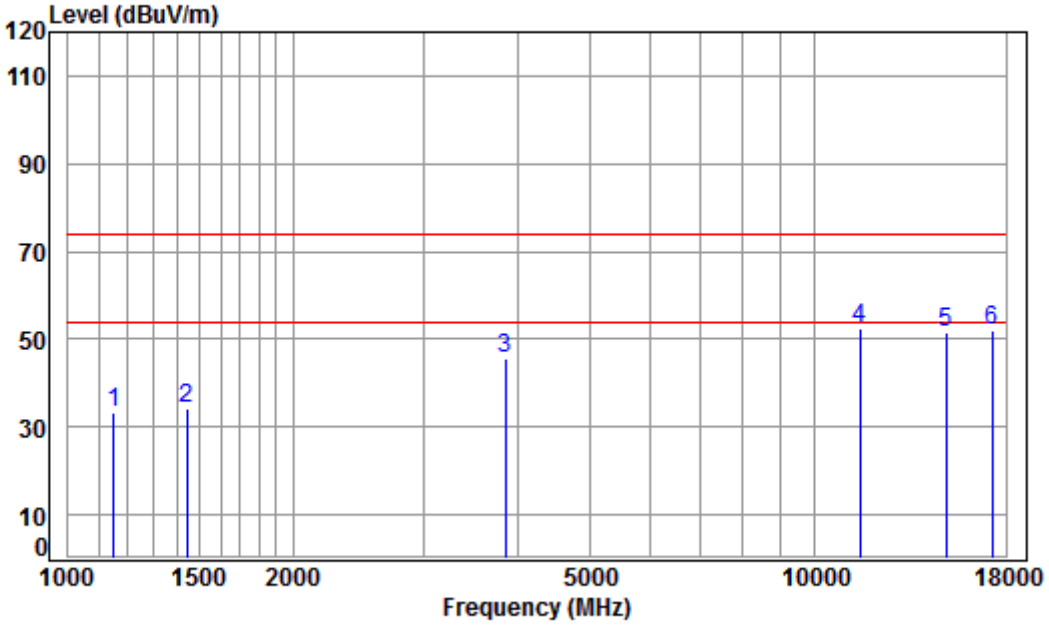
Mode:g; Polarization:Vertical; Modulation Type:802.11a; Channel: Low



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5745 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	4.01	24.24	38.08	43.32	33.49	74.00	-40.51	peak
2	1443.509	4.40	25.57	38.06	42.42	34.33	74.00	-39.67	peak
3	3845.537	6.58	33.19	37.98	44.04	45.83	74.00	-28.17	peak
4	pp11490.000	12.33	38.09	35.50	37.50	52.42	74.00	-21.58	peak
5	14960.120	14.84	41.23	38.90	34.44	51.61	74.00	-22.39	peak
6	17235.000	17.60	43.08	36.18	27.39	51.89	74.00	-22.11	peak

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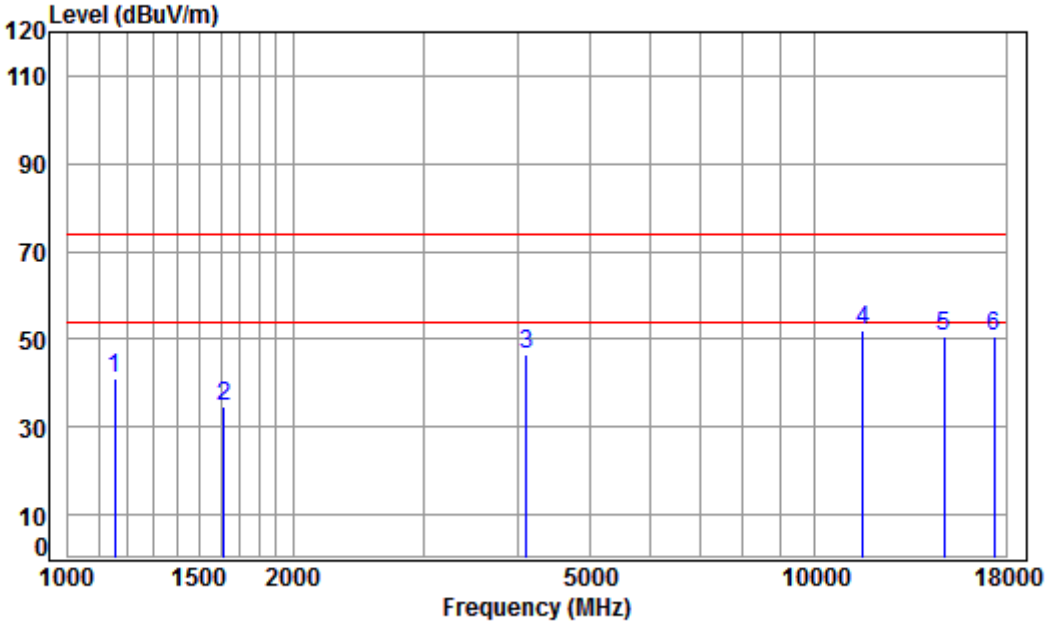
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: Middle



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5785 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	51.06	41.25	74.00	-32.75	peak
2	1615.754	4.61	26.32	38.04	41.72	34.61	74.00	-39.39	peak
3	4109.872	6.83	33.60	38.05	44.07	46.45	74.00	-27.55	peak
4	pp11570.000	12.34	38.17	35.51	36.91	51.91	74.00	-22.09	peak
5	14873.890	14.82	41.08	38.91	33.46	50.45	74.00	-23.55	peak
6	17355.000	17.93	43.23	36.12	25.52	50.56	74.00	-23.44	peak

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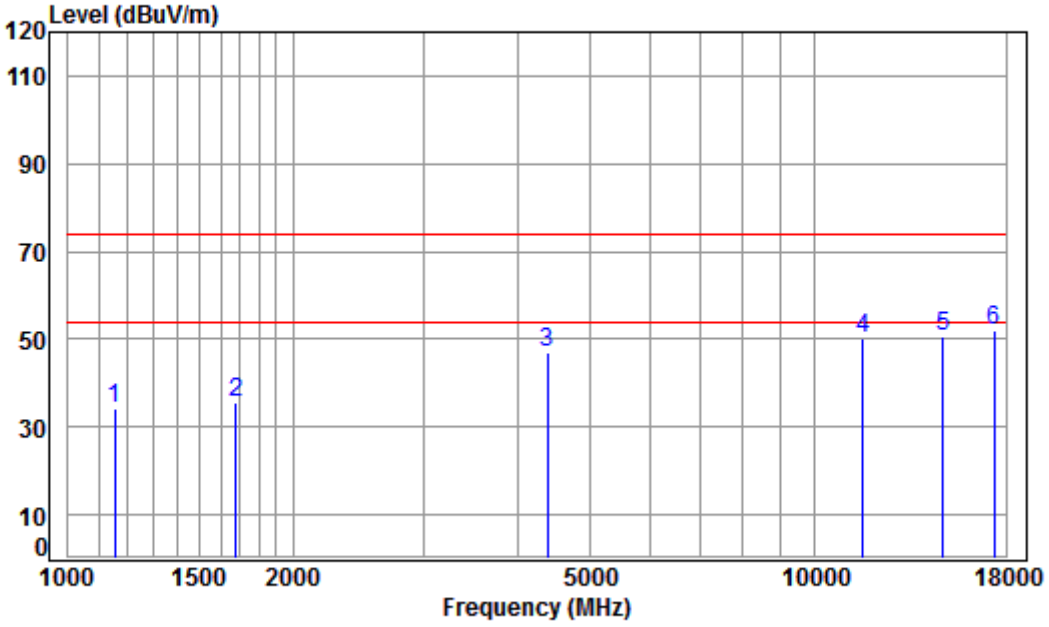
Mode:g; Polarization:Vertical; Modulation Type:802.11a; Channel: Middle



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5785 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	44.08	34.27	74.00	-39.73	peak
2	1677.621	4.68	26.58	38.03	42.43	35.66	74.00	-38.34	peak
3	4379.699	7.15	33.60	38.19	44.32	46.88	74.00	-27.12	peak
4	11570.000	12.34	38.17	35.51	35.00	50.00	74.00	-24.00	peak
5	14830.960	14.81	41.00	38.92	33.89	50.78	74.00	-23.22	peak
6	pp17355.000	17.93	43.23	36.12	26.82	51.86	74.00	-22.14	peak

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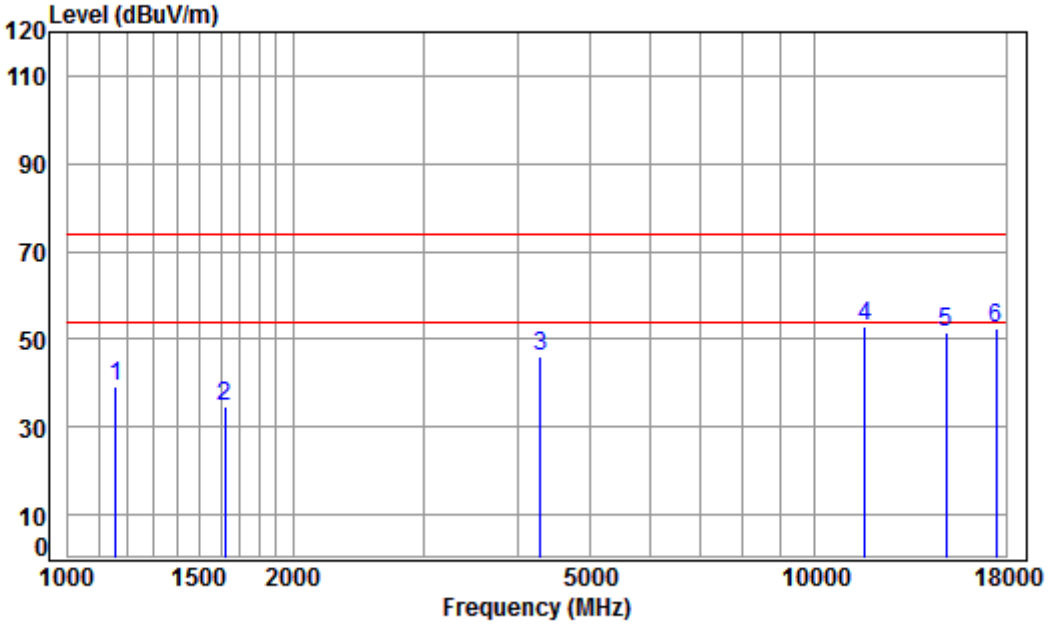
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: High



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5825 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	49.19	39.40	74.00	-34.60	peak
2	1620.431	4.61	26.34	38.04	41.96	34.87	74.00	-39.13	peak
3	4291.977	7.05	33.60	38.15	43.47	45.97	74.00	-28.03	peak
4	pp11650.000	12.35	38.25	35.53	37.84	52.91	74.00	-21.09	peak
5	14960.120	14.84	41.23	38.90	34.61	51.78	74.00	-22.22	peak
6	17475.000	18.25	43.37	36.06	26.88	52.44	74.00	-21.56	peak

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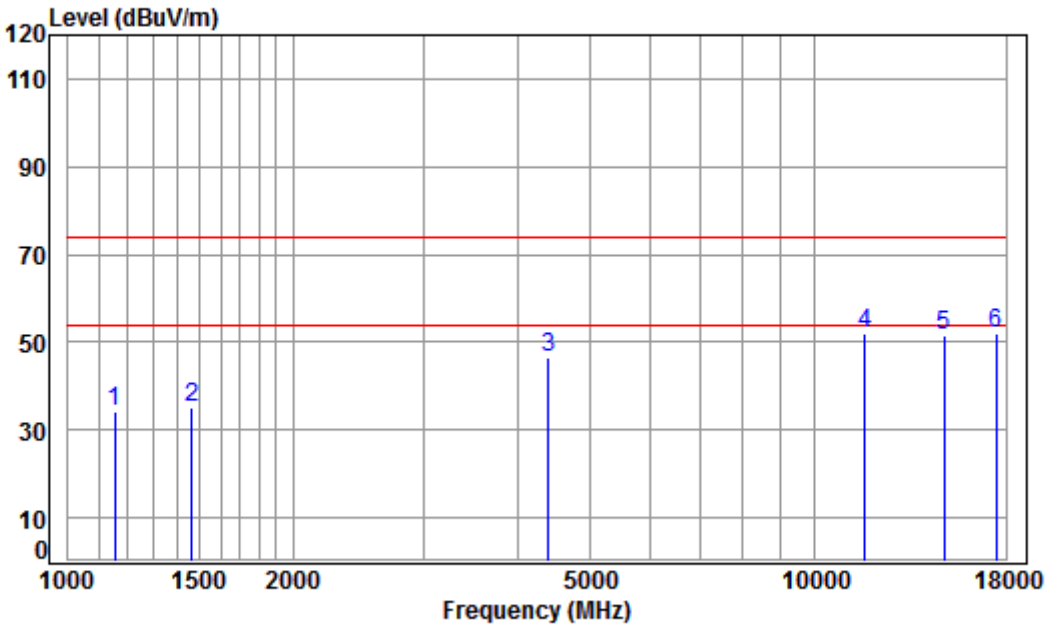
Mode:g; Polarization:Vertical; Modulation Type:802.11a; Channel: High



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5825 TX RSE
: WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	43.87	34.06	74.00	-39.94	peak
2	1464.522	4.43	25.66	38.05	43.06	35.10	74.00	-38.90	peak
3	4392.376	7.16	33.60	38.20	43.79	46.35	74.00	-27.65	peak
4	11650.000	12.35	38.25	35.53	36.82	51.89	74.00	-22.11	peak
5	14873.890	14.82	41.08	38.91	34.79	51.78	74.00	-22.22	peak
6	pp17475.000	18.25	43.37	36.06	26.55	52.11	74.00	-21.89	peak

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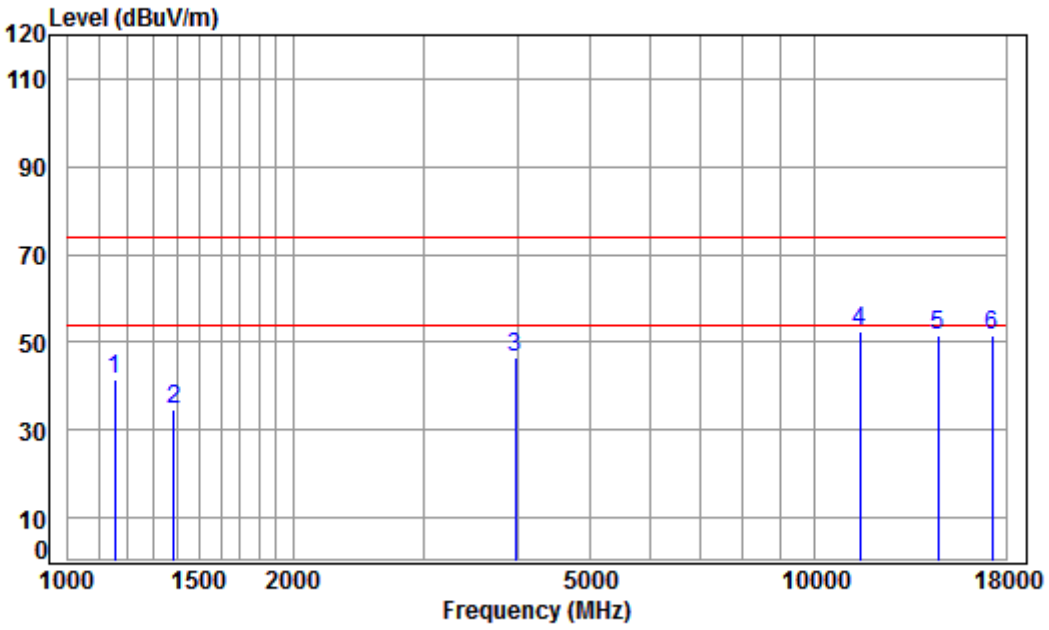
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: Low



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5745 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	51.18	41.37	74.00	-32.63	peak
2	1386.264	4.33	25.33	38.06	43.10	34.70	74.00	-39.30	peak
3	3969.767	6.68	33.52	38.00	44.32	46.52	74.00	-27.48	peak
4	pp11490.000	12.33	38.09	35.50	37.57	52.49	74.00	-21.51	peak
5	14618.170	14.75	40.62	38.94	34.91	51.34	74.00	-22.66	peak
6	17235.000	17.60	43.08	36.18	27.22	51.72	74.00	-22.28	peak

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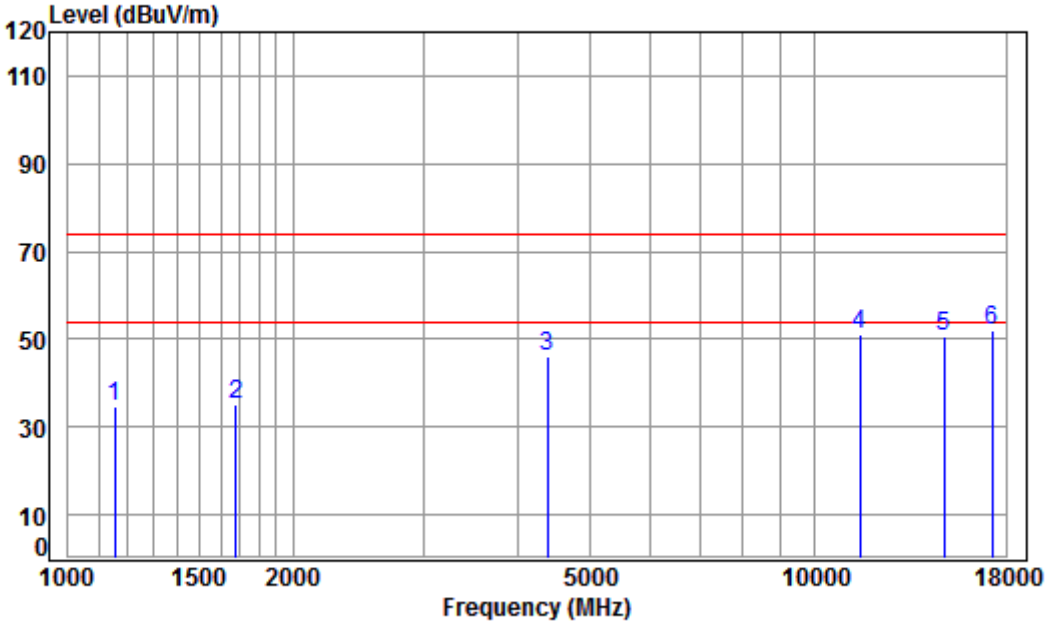
Mode:g; Polarization:Vertical; Modulation Type:802.11n; Channel: Low



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5745 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	44.54	34.73	74.00	-39.27	peak
2	1677.621	4.68	26.58	38.03	42.13	35.36	74.00	-38.64	peak
3	4379.699	7.15	33.60	38.19	43.59	46.15	74.00	-27.85	peak
4	11490.000	12.33	38.09	35.50	36.40	51.32	74.00	-22.68	peak
5	14873.890	14.82	41.08	38.91	33.85	50.84	74.00	-23.16	peak
6	pp17235.000	17.60	43.08	36.18	27.49	51.99	74.00	-22.01	peak

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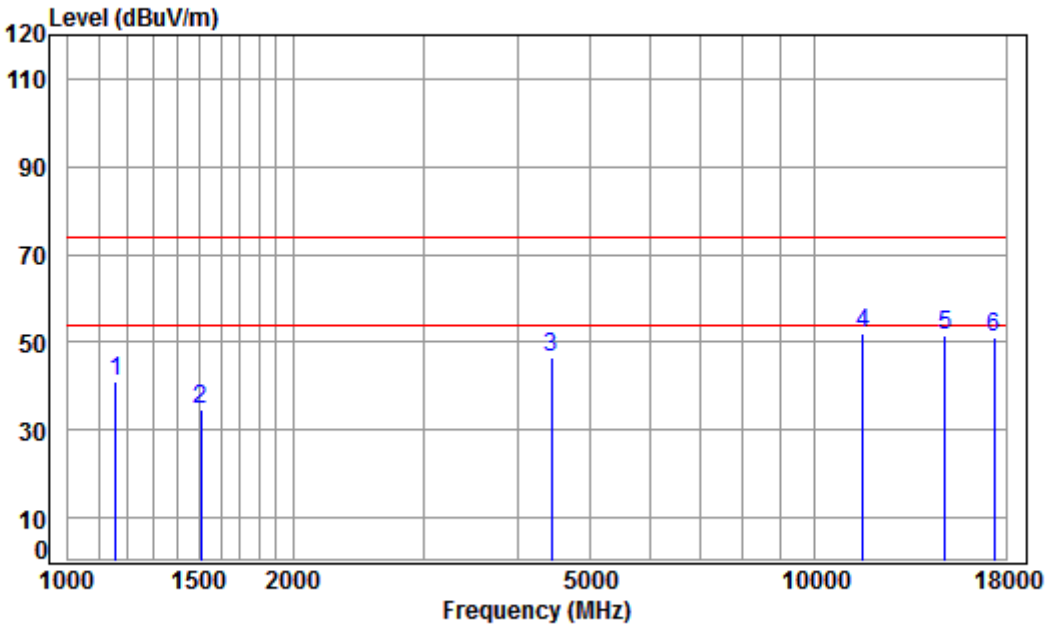
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: Middle



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5785 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	50.89	41.10	74.00	-32.90	peak
2	1507.470	4.48	25.83	38.05	42.59	34.85	74.00	-39.15	peak
3	4443.453	7.22	33.60	38.22	44.04	46.64	74.00	-27.36	peak
4	pp11570.000	12.34	38.17	35.51	37.15	52.15	74.00	-21.85	peak
5	14916.940	14.83	41.15	38.91	34.56	51.63	74.00	-22.37	peak
6	17355.000	17.93	43.23	36.12	26.17	51.21	74.00	-22.79	peak

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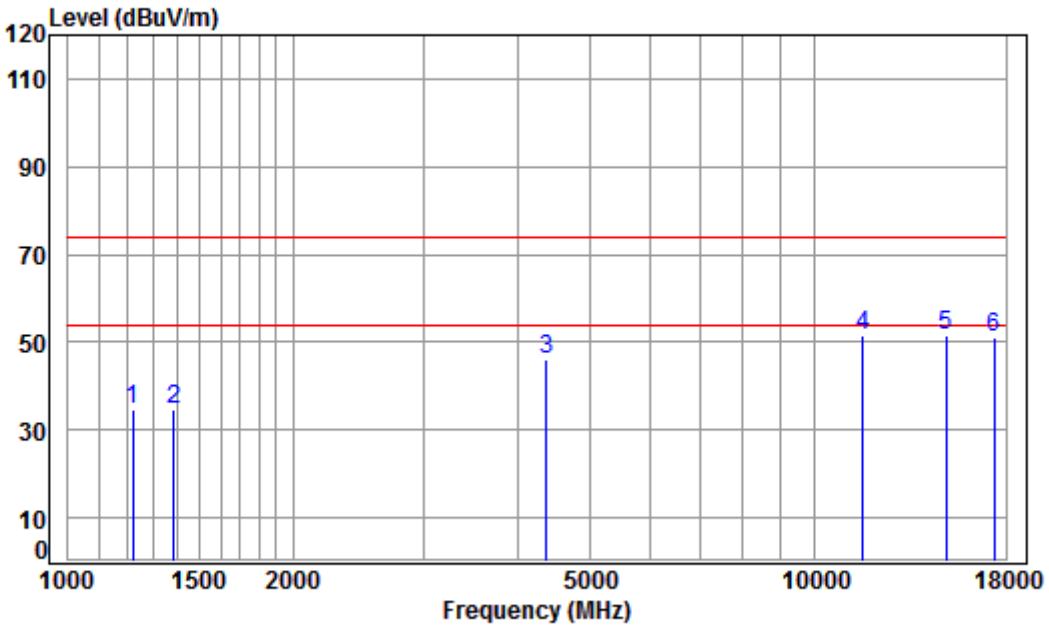
Mode:g; Polarization:Vertical; Modulation Type:802.11n; Channel: Middle



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5785 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1220.714	4.11	24.58	38.08	44.16	34.77	74.00	-39.23	peak
2	1386.264	4.33	25.33	38.06	43.07	34.67	74.00	-39.33	peak
3	4367.058	7.13	33.60	38.18	43.58	46.13	74.00	-27.87	peak
4	11570.000	12.34	38.17	35.51	36.38	51.38	74.00	-22.62	peak
5	pp14960.120	14.84	41.23	38.90	34.22	51.39	74.00	-22.61	peak
6	17355.000	17.93	43.23	36.12	26.15	51.19	74.00	-22.81	peak

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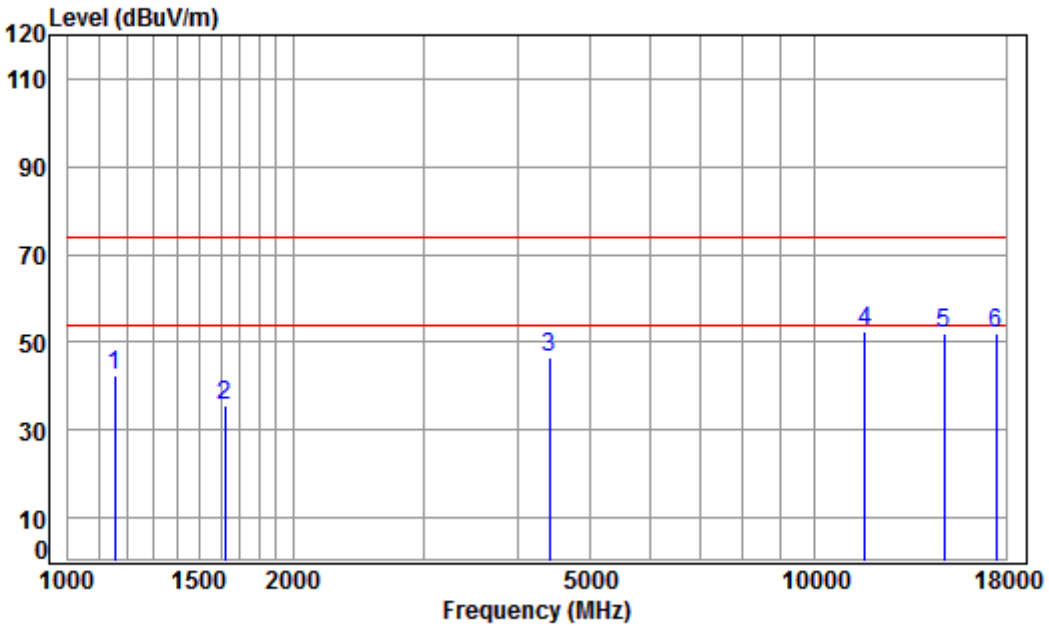
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: High



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5825 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	52.02	42.21	74.00	-31.79	peak
2	1620.431	4.61	26.34	38.04	42.70	35.61	74.00	-38.39	peak
3	4405.090	7.18	33.60	38.20	43.75	46.33	74.00	-27.67	peak
4	pp11650.000	12.35	38.25	35.53	37.23	52.30	74.00	-21.70	peak
5	14873.890	14.82	41.08	38.91	35.20	52.19	74.00	-21.81	peak
6	17475.000	18.25	43.37	36.06	26.37	51.93	74.00	-22.07	peak

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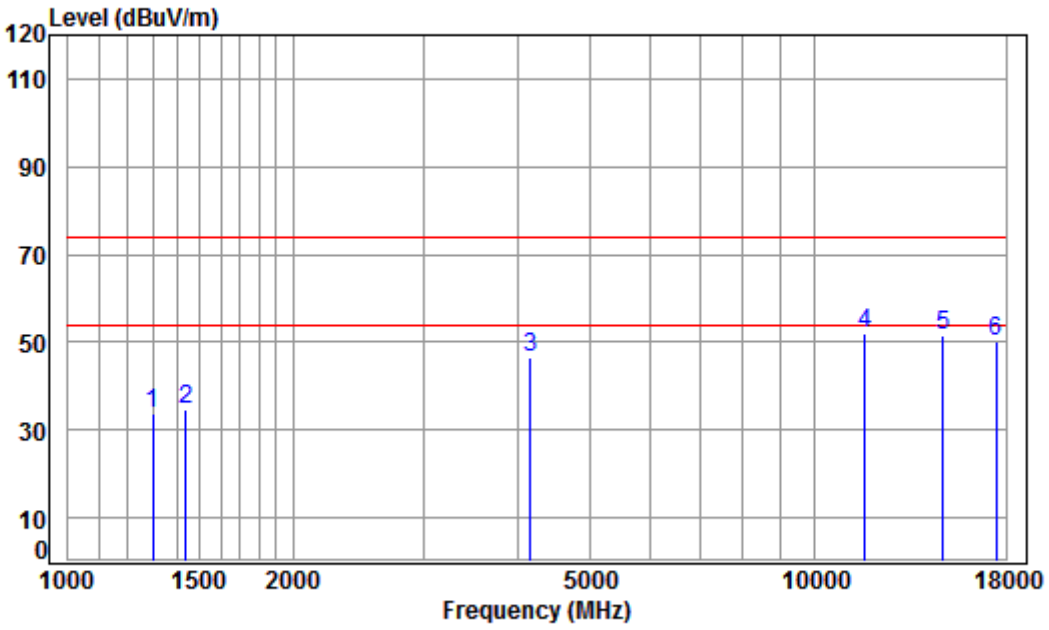
Mode:g; Polarization:Vertical; Modulation Type:802.11n; Channel: High



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5825 TX RSE
: WIFI 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	4.22	24.94	38.07	42.70	33.79	74.00	-40.21	peak
2	1439.343	4.40	25.56	38.06	42.56	34.46	74.00	-39.54	peak
3	4157.664	6.89	33.60	38.08	44.26	46.67	74.00	-27.33	peak
4	pp11650.000	12.35	38.25	35.53	37.01	52.08	74.00	-21.92	peak
5	14830.960	14.81	41.00	38.92	34.61	51.50	74.00	-22.50	peak
6	17475.000	18.25	43.37	36.06	24.66	50.22	74.00	-23.78	peak

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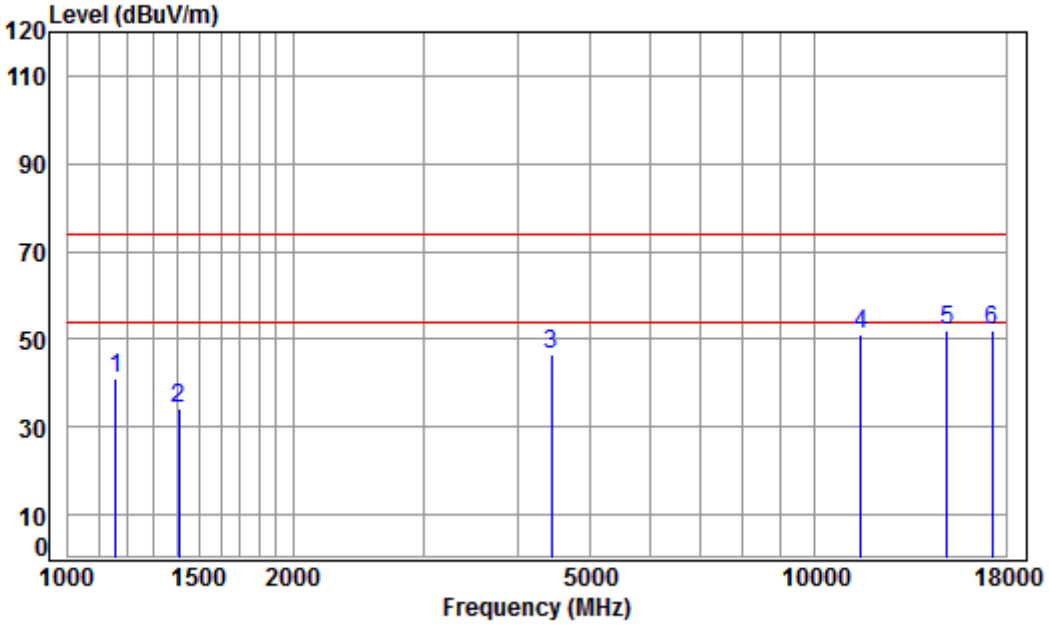
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: Low



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5755 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	50.91	41.12	74.00	-32.88	peak
2	1406.443	4.36	25.42	38.06	42.55	34.27	74.00	-39.73	peak
3	4430.628	7.20	33.60	38.22	44.11	46.69	74.00	-27.31	peak
4	11510.000	12.33	38.11	35.50	36.16	51.10	74.00	-22.90	peak
5	pp15003.420	14.85	41.30	38.90	34.96	52.21	74.00	-21.79	peak
6	17265.000	17.68	43.12	36.17	27.33	51.96	74.00	-22.04	peak

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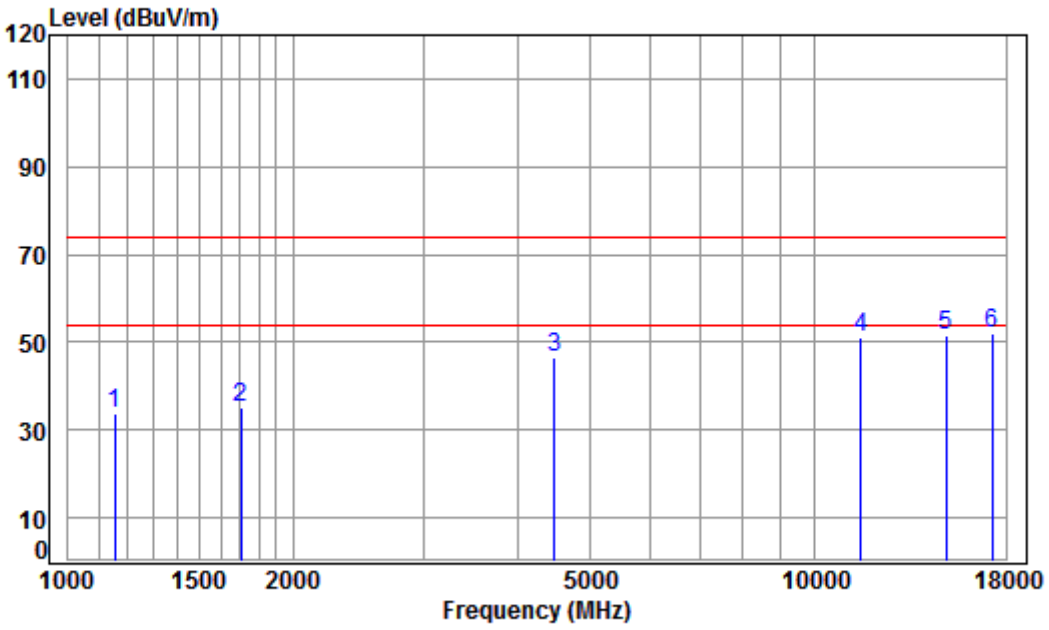
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: Low



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5755 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	43.58	33.77	74.00	-40.23	peak
2	1702.042	4.71	26.68	38.03	41.73	35.09	74.00	-38.91	peak
3	4482.150	7.26	33.60	38.24	43.88	46.50	74.00	-27.50	peak
4	11510.000	12.33	38.11	35.50	36.36	51.30	74.00	-22.70	peak
5	14960.120	14.84	41.23	38.90	34.44	51.61	74.00	-22.39	peak
6	pp17265.000	17.68	43.12	36.17	27.30	51.93	74.00	-22.07	peak

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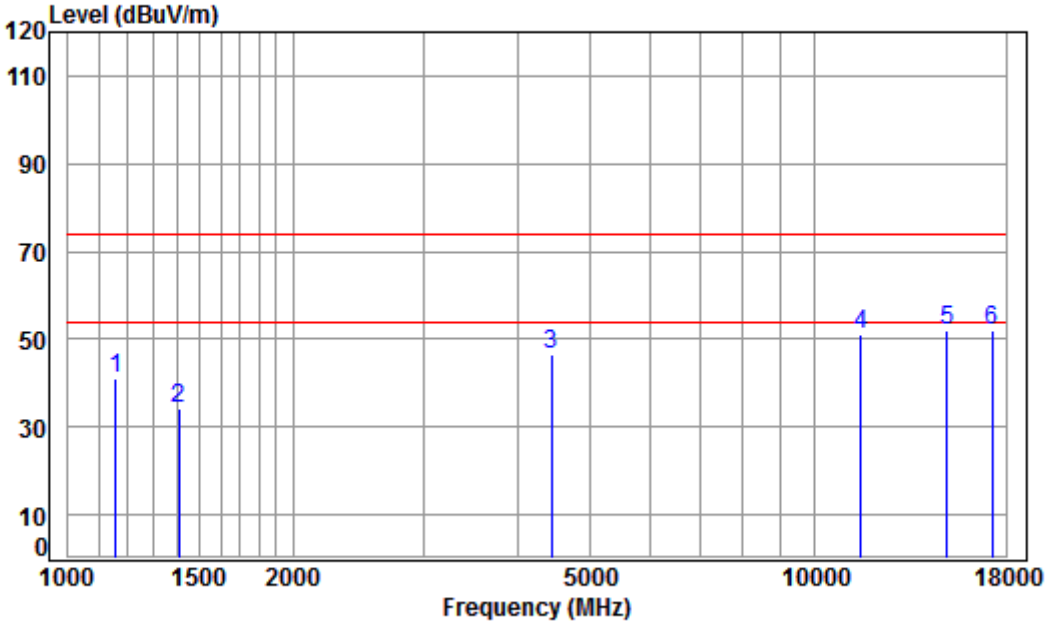
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: High



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5755 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	50.91	41.12	74.00	-32.88	peak
2	1406.443	4.36	25.42	38.06	42.55	34.27	74.00	-39.73	peak
3	4430.628	7.20	33.60	38.22	44.11	46.69	74.00	-27.31	peak
4	11510.000	12.33	38.11	35.50	36.16	51.10	74.00	-22.90	peak
5	pp15003.420	14.85	41.30	38.90	34.96	52.21	74.00	-21.79	peak
6	17265.000	17.68	43.12	36.17	27.33	51.96	74.00	-22.04	peak

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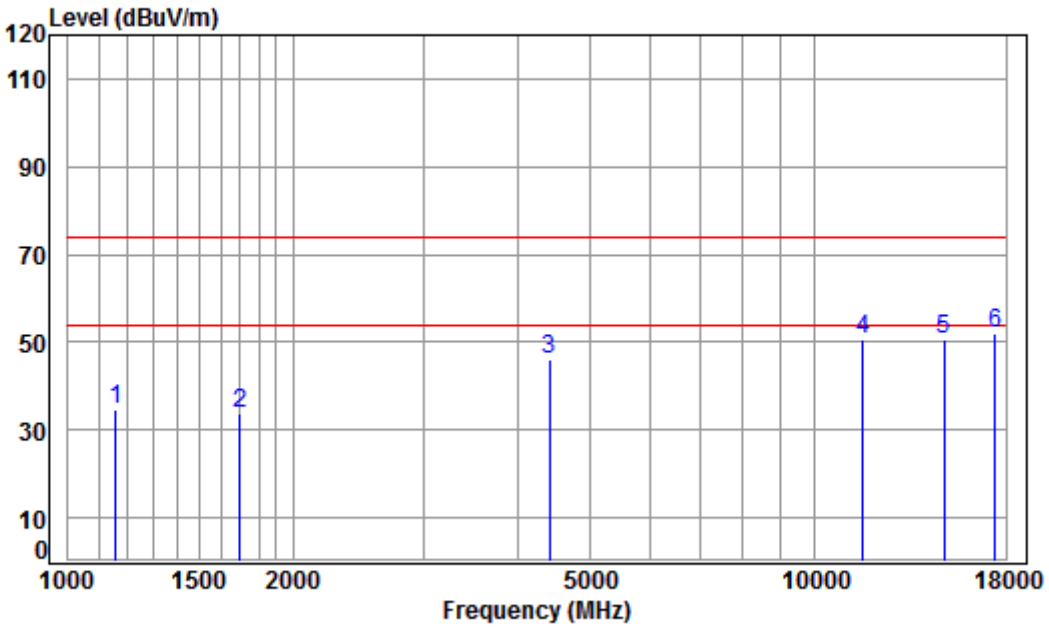
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: High



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5795 TX RSE
: WIFI 11N 40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	4.02	24.27	38.08	44.61	34.82	74.00	-39.18	peak
2	1697.129	4.70	26.66	38.03	40.66	33.99	74.00	-40.01	peak
3	4405.090	7.18	33.60	38.20	43.71	46.29	74.00	-27.71	peak
4	11590.000	12.34	38.19	35.52	35.53	50.54	74.00	-23.46	peak
5	14873.890	14.82	41.08	38.91	33.67	50.66	74.00	-23.34	peak
6	pp17385.000	18.01	43.26	36.11	26.81	51.97	74.00	-22.03	peak

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Remark:

1) 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

2) Scan from 9kHz to 40GHz, 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.

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

4) For 802.11a mode, the test was performed at SISO mode, and only the data of worst case (transmitting with antenna 1) is recorded in the report. For 802.11n mode, the test was performed at MIMO mode.

5) For below 1GHz, through Pre-scan, found that the 802.11a mode @ 6Mbps rate on the lowest channel is the worst case.

6) Only the data of worst case is recorded in the report.

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7.10 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart E 15.209 & 15.407(b)
Test Method: KDB 789033 D02 II G
Measurement Distance: 3m
Limit:

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

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7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

Pretest these mode to find the worst case:

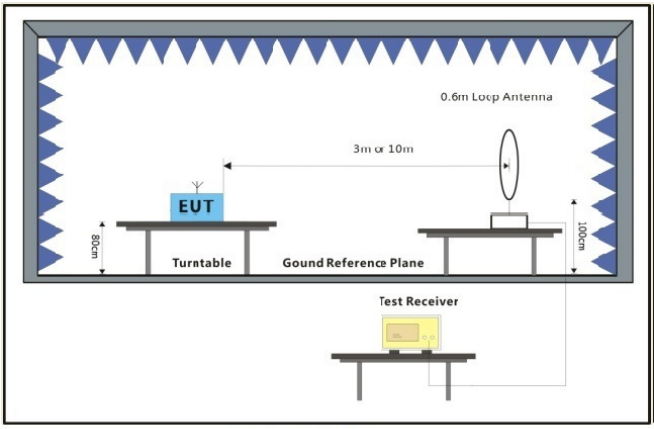
f: TX mode (Band I/II-A/II-C/III)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

g: Charge + TX mode (I/II-A/II-C/III)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

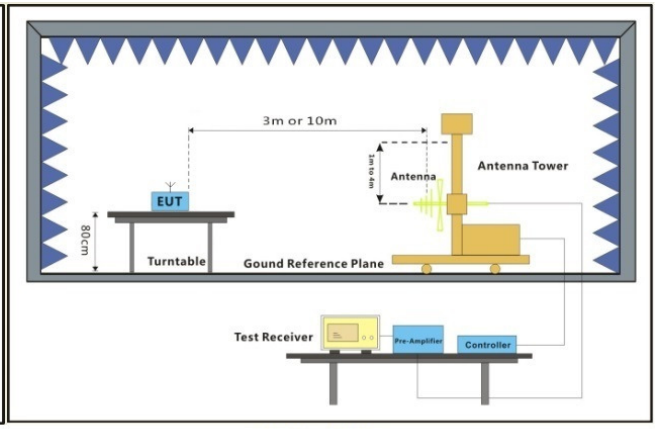
The worst case for final test:

g: Charge + TX mode (I/II-A/II-C/III)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

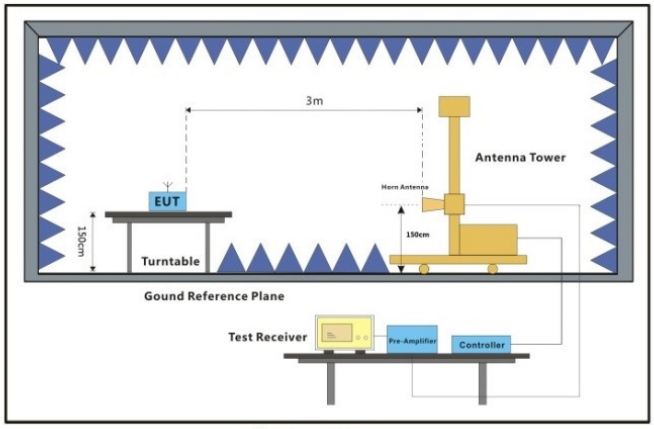
7.10.2 Test Setup Diagram



Below 30MHz



30MHz-1GHz



Above 1GHz

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7.10.3 Measurement Procedure and Data

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

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

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

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

Remark: For 802.11a mode, the test was performed at SISO mode, and only the data of worst case (transmitting with antenna 1) is recorded in the report. For 802.11n mode, the test was performed at MIMO mode.

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

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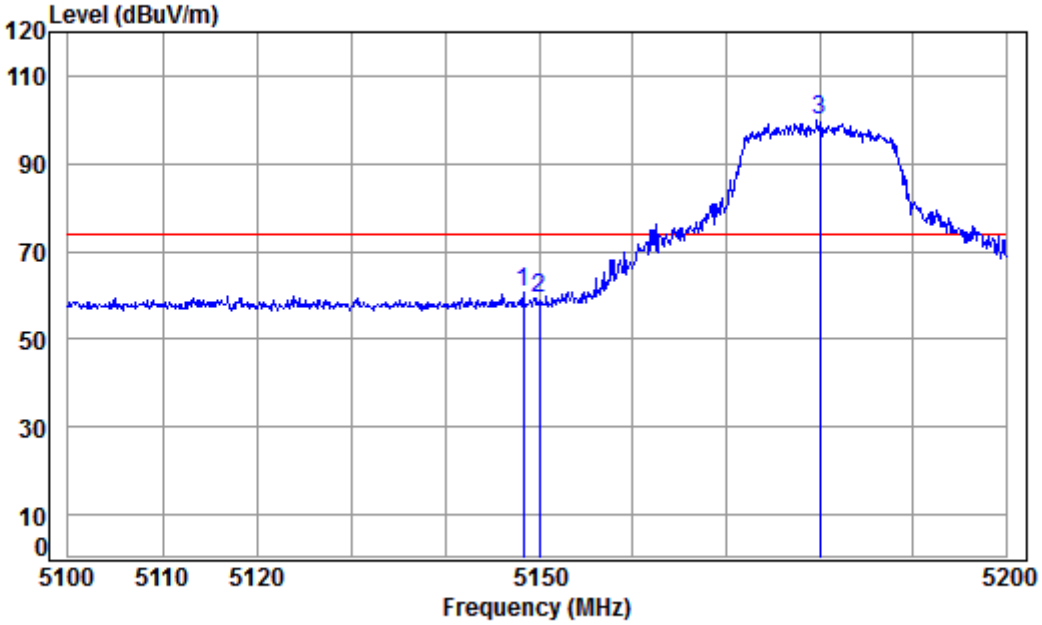
Band1

Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: Low for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5180 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.357	8.08	34.47	38.47	56.62	60.70	74.00	-13.30	peak
2	5150.000	8.08	34.47	38.47	55.27	59.35	74.00	-14.65	peak
3 pp	5180.000	8.09	34.46	38.46	96.01	100.10	74.00	26.10	peak

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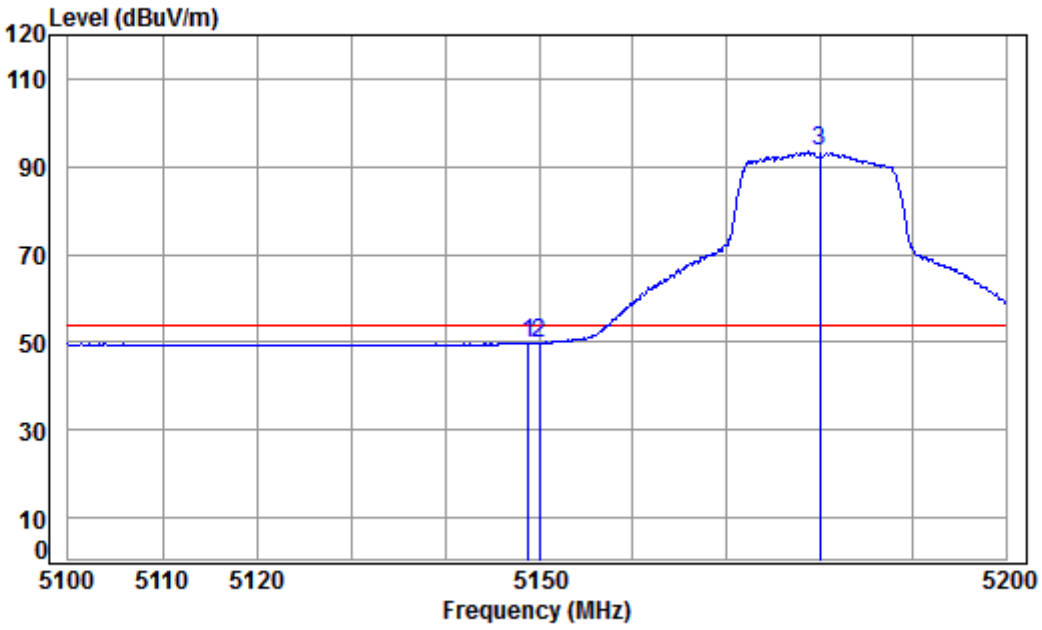
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: Low for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5180 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.857	8.08	34.47	38.47	45.79	49.87	54.00	-4.13	Average
2	5150.000	8.08	34.47	38.47	45.82	49.90	54.00	-4.10	Average
3 pp	5180.000	8.09	34.46	38.46	89.33	93.42	54.00	39.42	Average

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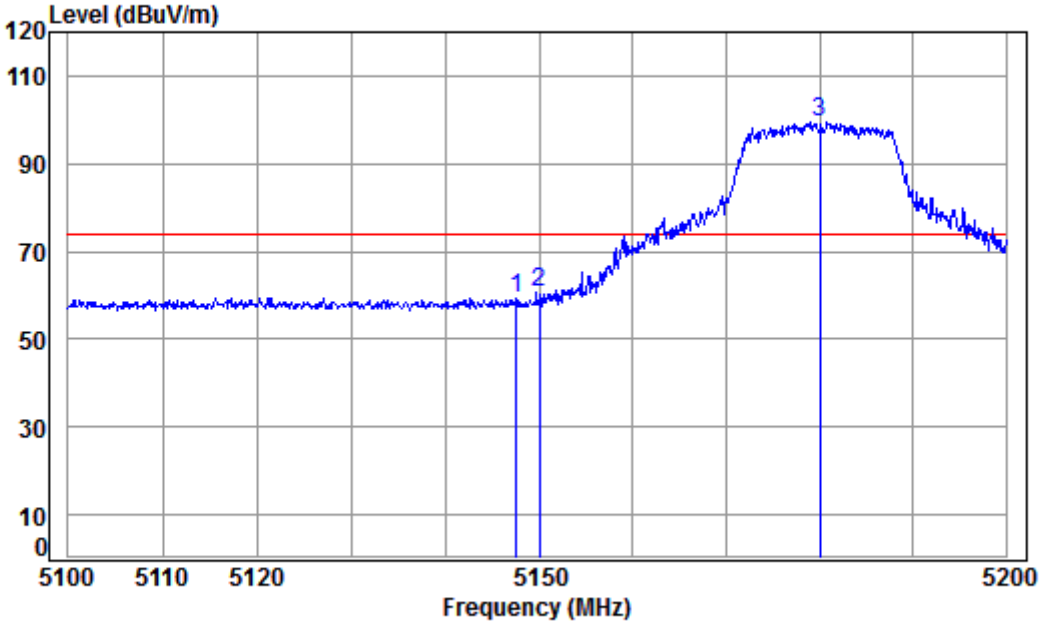
Mode:g; Polarization:Vertical; Modulation Type: 802.11a; Channel: Low for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5180 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.558	8.08	34.47	38.47	55.45	59.53	74.00	-14.47	Peak
2	5150.000	8.08	34.47	38.47	56.62	60.70	74.00	-13.30	Peak
3 pp	5180.000	8.09	34.46	38.46	95.17	99.26	74.00	25.26	Peak

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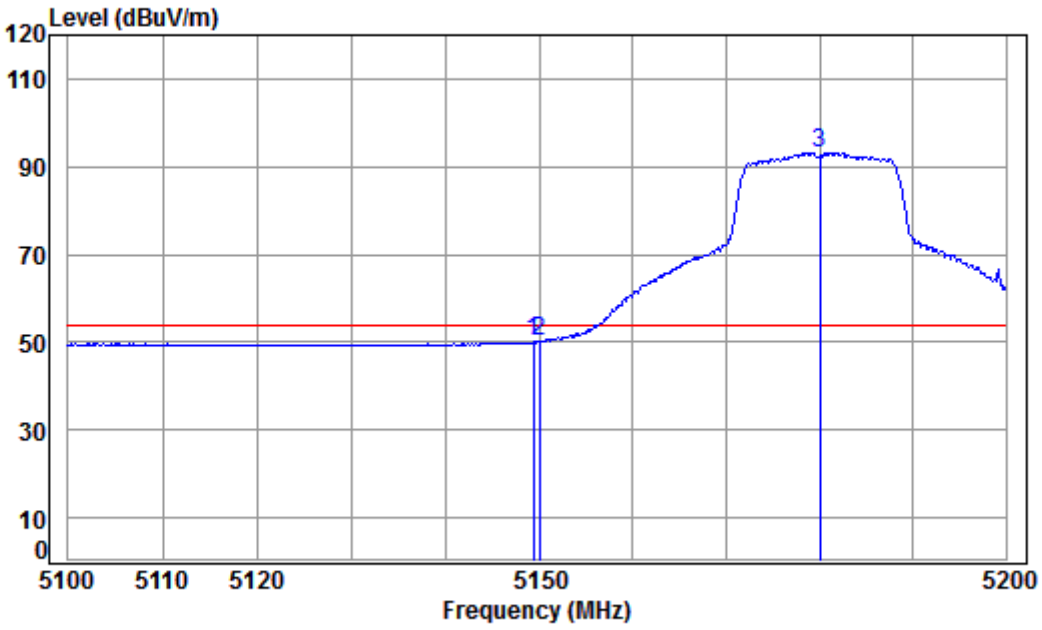
Mode:g; Polarization:Vertical; Modulation Type: 802.11a; Channel: Low for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5180 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.357	8.08	34.47	38.47	45.90	49.98	54.00	-4.02	Average
2	5150.000	8.08	34.47	38.47	46.26	50.34	54.00	-3.66	Average
3 pp	5180.000	8.09	34.46	38.46	89.12	93.21	54.00	39.21	Average

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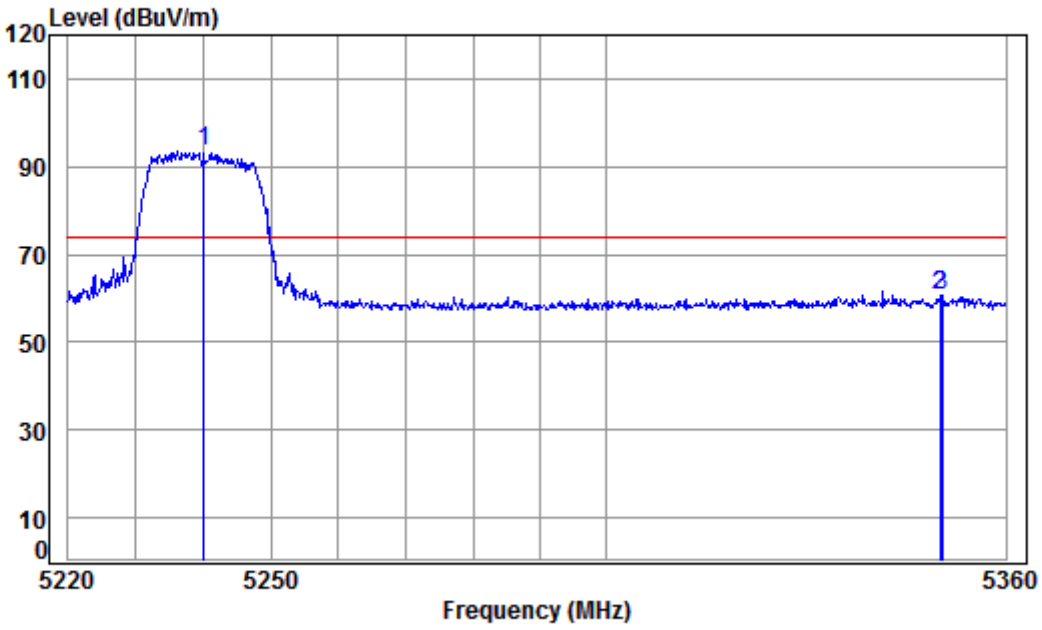
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: High for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5240 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	8.12	34.45	38.45	89.46	93.58	74.00	19.58	peak
2	5350.000	8.18	34.43	38.43	56.43	60.61	74.00	-13.39	peak
3	5350.362	8.18	34.43	38.43	56.53	60.71	74.00	-13.29	peak

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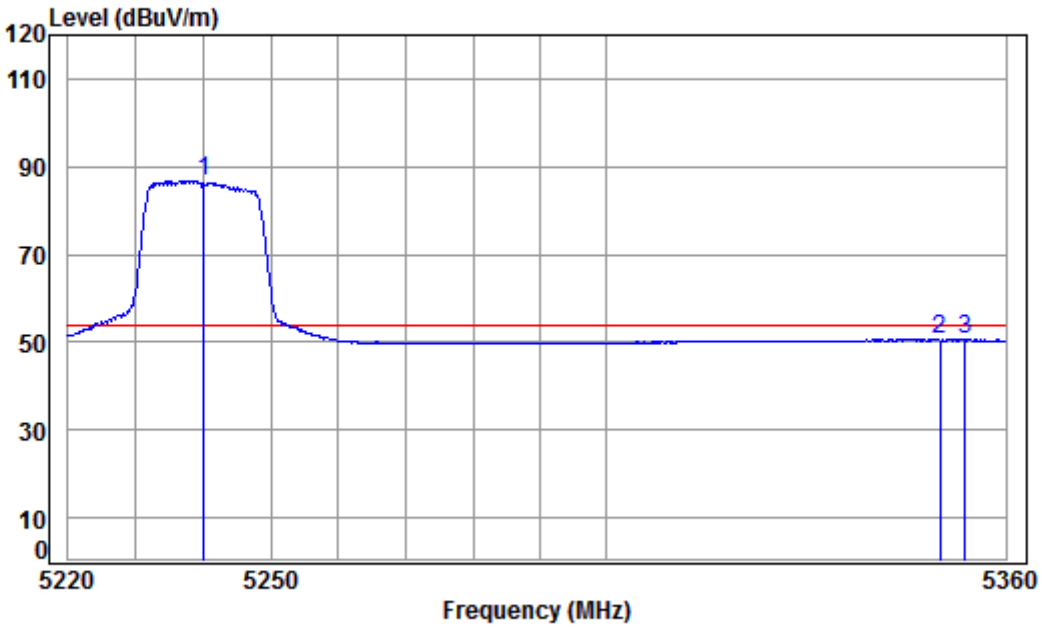
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: High for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5240 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	8.12	34.45	38.45	82.74	86.86	54.00	32.86	Average
2	5350.000	8.18	34.43	38.43	46.27	50.45	54.00	-3.55	Average
3	5353.903	8.18	34.43	38.43	46.33	50.51	54.00	-3.49	Average

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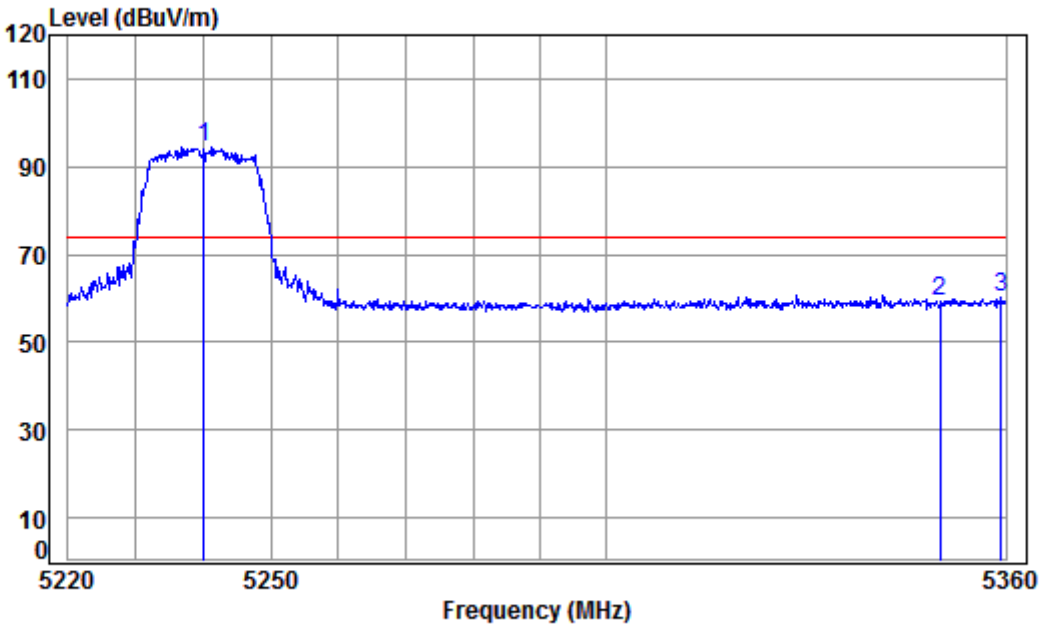
Mode:g; Polarization:Vertical; Modulation Type: 802.11a; Channel: High for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5240 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5240.000	8.12	34.45	38.45	90.54	94.66	74.00	20.66	Peak
2	5350.000	8.18	34.43	38.43	55.06	59.24	74.00	-14.76	Peak
3	5359.291	8.18	34.43	38.43	55.90	60.08	74.00	-13.92	Peak

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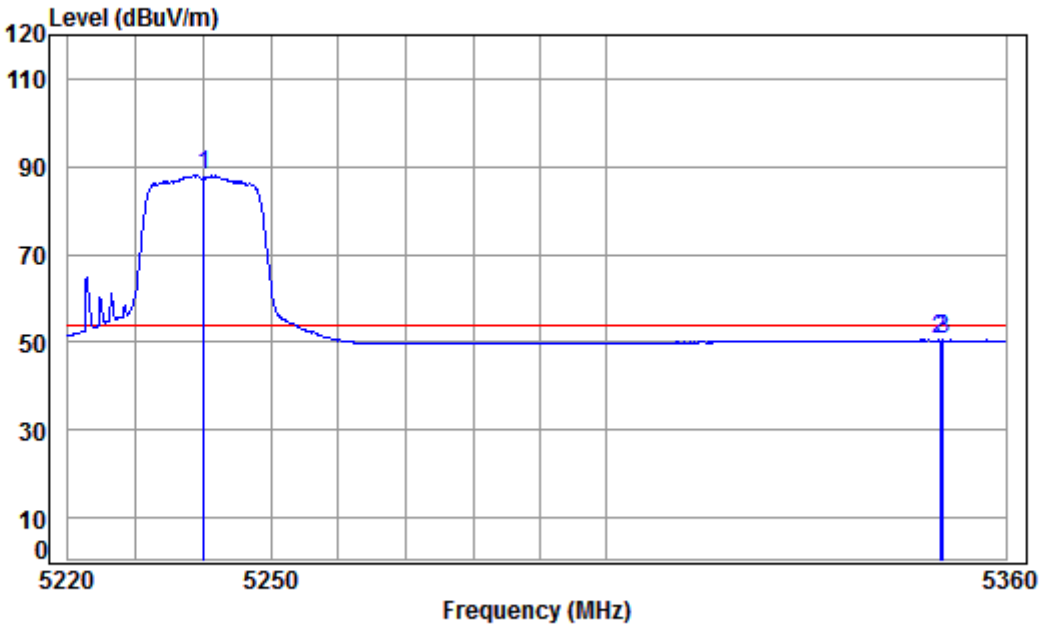
Mode:g; Polarization:Vertical; Modulation Type: 802.11a; Channel: High for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5240 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	8.12	34.45	38.45	83.93	88.05	54.00	34.05	Average
2	5350.000	8.18	34.43	38.43	46.24	50.42	54.00	-3.58	Average
3	5350.504	8.18	34.43	38.43	46.30	50.48	54.00	-3.52	Average

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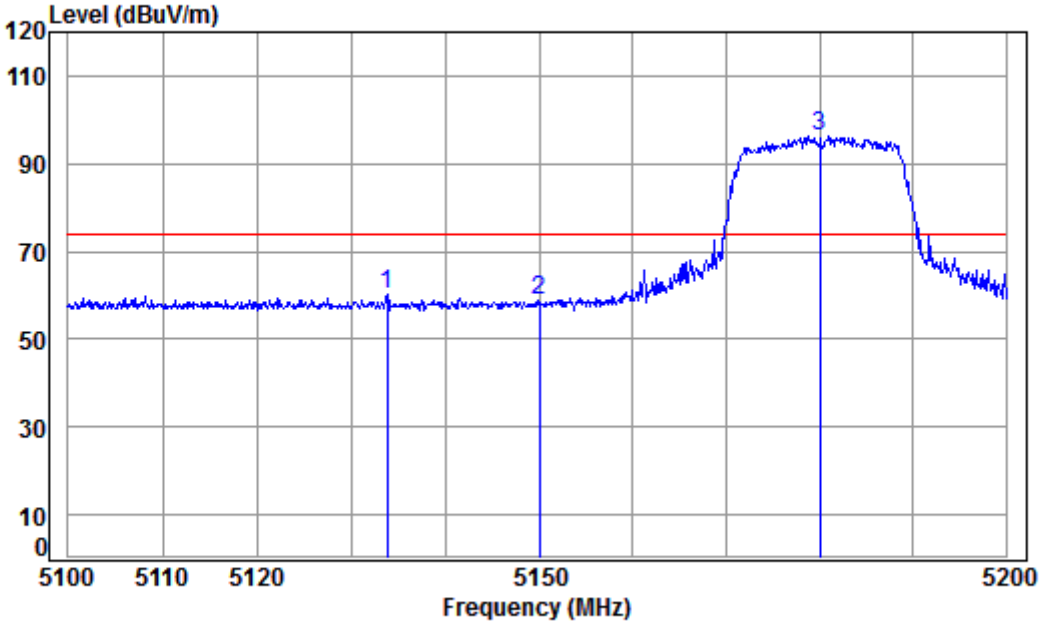
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: Low for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5180 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5133.782	8.07	34.47	38.47	56.11	60.18	74.00	-13.82	peak
2	5150.000	8.08	34.47	38.47	54.61	58.69	74.00	-15.31	peak
3 pp	5180.000	8.09	34.46	38.46	92.31	96.40	74.00	22.40	peak

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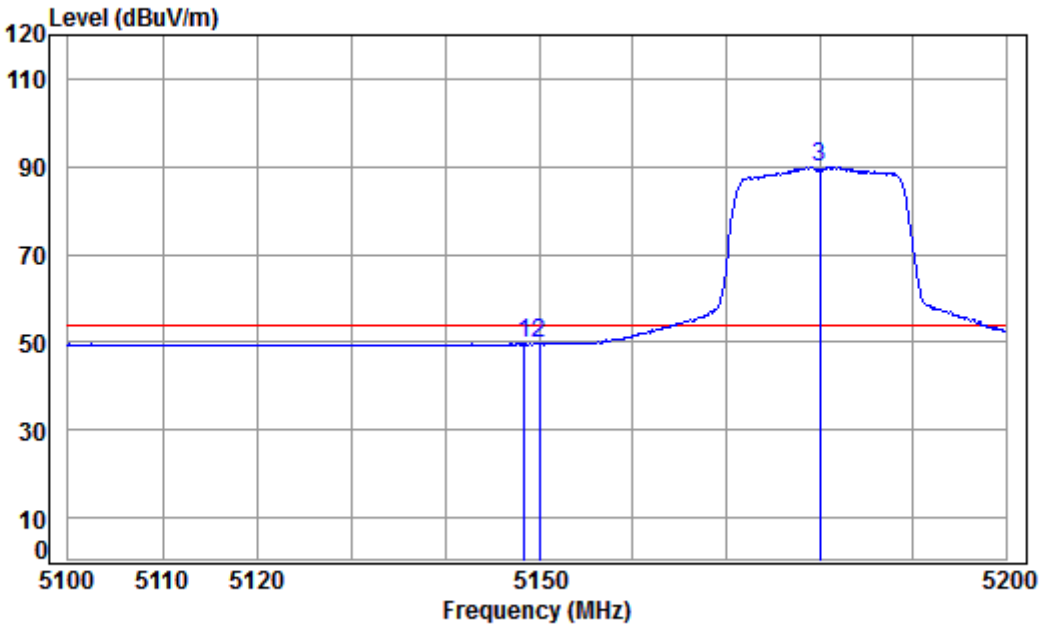
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: Low for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5180 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.458	8.08	34.47	38.47	45.59	49.67	54.00	-4.33	Average
2	5150.000	8.08	34.47	38.47	45.55	49.63	54.00	-4.37	Average
3 pp	5180.000	8.09	34.46	38.46	85.77	89.86	54.00	35.86	Average

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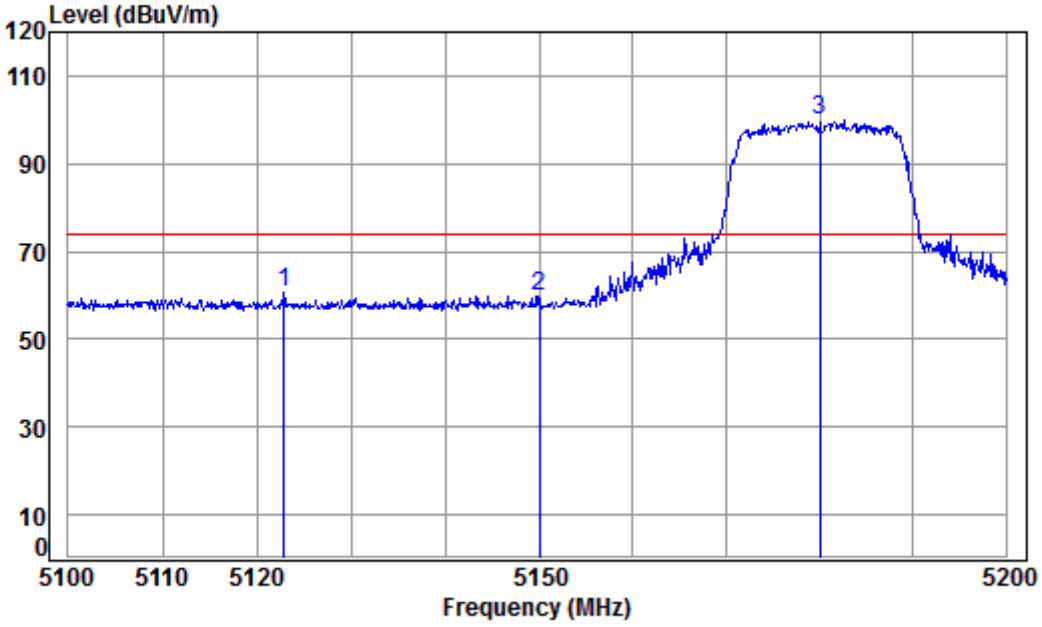
Mode:g; Polarization:Vertical; Modulation Type: 802.11n; Channel: Low for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5180 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5122.828	8.06	34.47	38.48	56.43	60.48	74.00	-13.52	Peak
2	5150.000	8.08	34.47	38.47	55.76	59.84	74.00	-14.16	Peak
3 pp	5180.000	8.09	34.46	38.46	95.63	99.72	74.00	25.72	Peak

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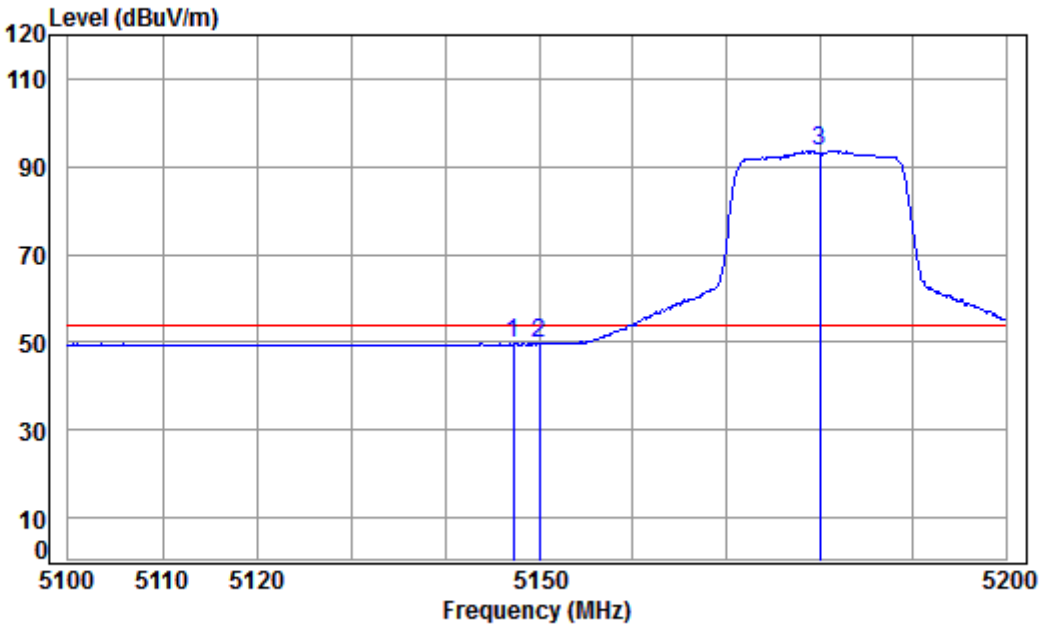
Mode:g; Polarization:Vertical; Modulation Type: 802.11n; Channel: Low for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5180 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.258	8.08	34.47	38.47	45.51	49.59	54.00	-4.41	Average
2	5150.000	8.08	34.47	38.47	45.58	49.66	54.00	-4.34	Average
3 pp	5180.000	8.09	34.46	38.46	89.63	93.72	54.00	39.72	Average

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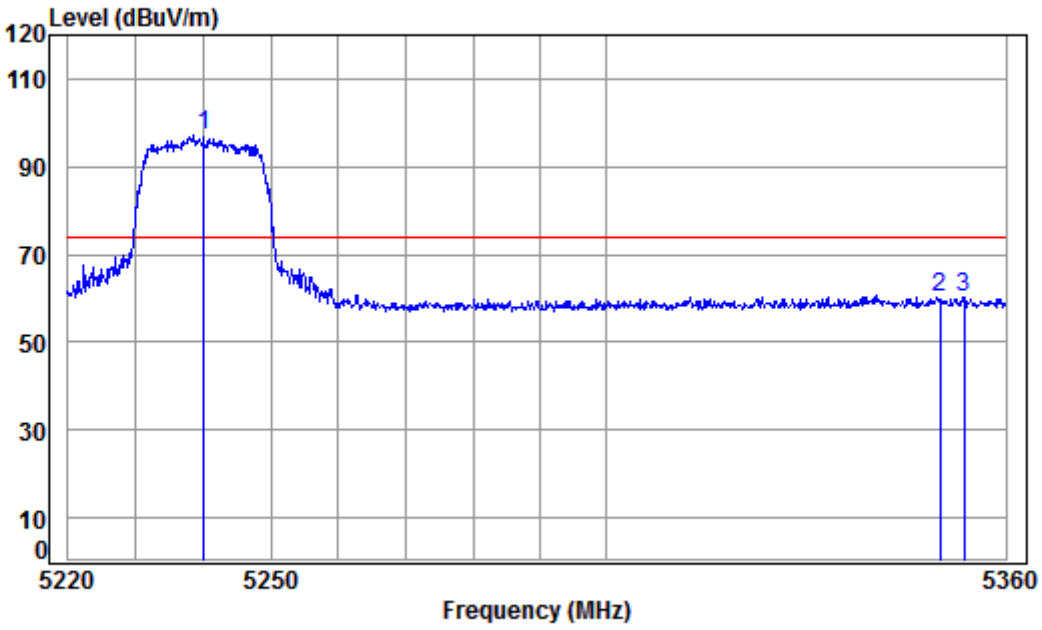
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: High for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5240 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5240.000	8.12	34.45	38.45	93.12	97.24	74.00	23.24	peak
2	5350.000	8.18	34.43	38.43	56.06	60.24	74.00	-13.76	peak
3	5353.620	8.18	34.43	38.43	56.10	60.28	74.00	-13.72	peak

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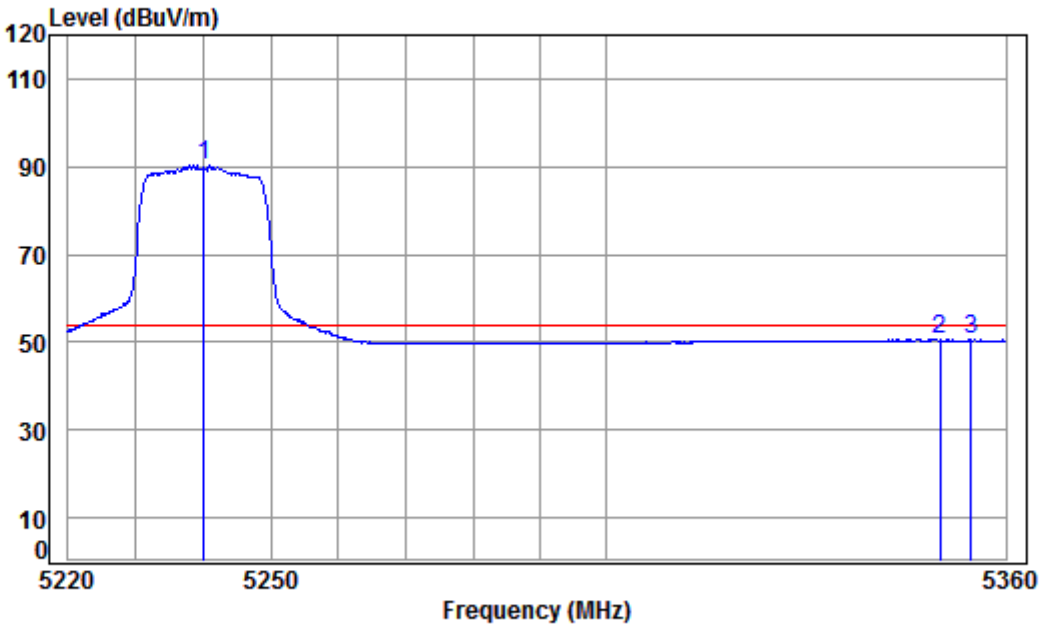
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: High for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5240 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	8.12	34.45	38.45	86.13	90.25	54.00	36.25	Average
2	5350.000	8.18	34.43	38.43	46.25	50.43	54.00	-3.57	Average
3	5354.754	8.18	34.43	38.43	46.30	50.48	54.00	-3.52	Average

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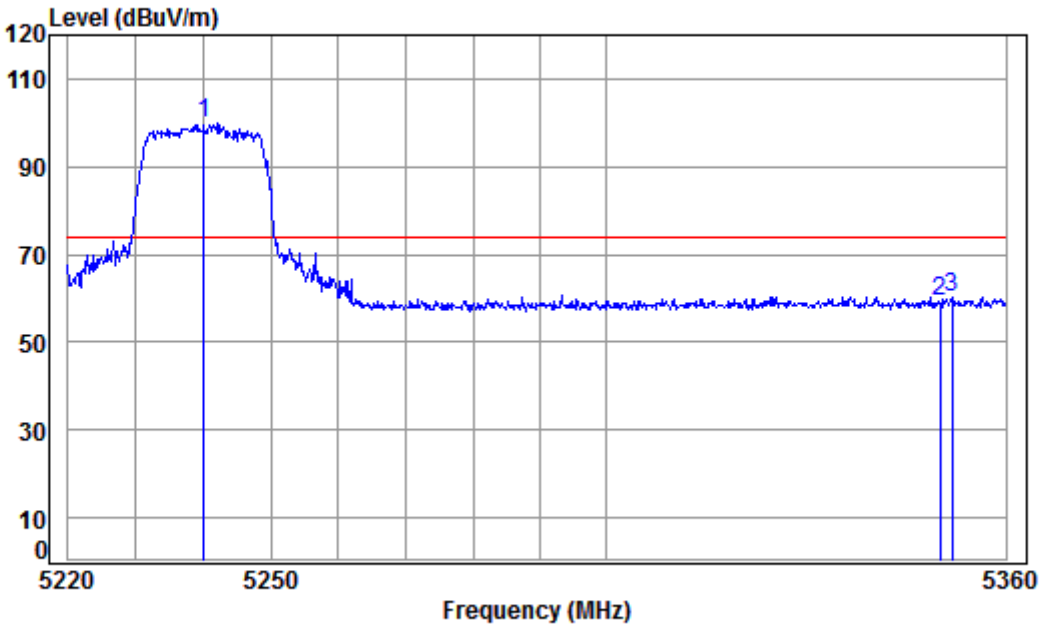
Mode:g; Polarization:Vertical; Modulation Type: 802.11n; Channel: High for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5240 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	8.12	34.45	38.45	95.63	99.75	74.00	25.75	Peak
2	5350.000	8.18	34.43	38.43	54.94	59.12	74.00	-14.88	Peak
3	5351.920	8.18	34.43	38.43	56.27	60.45	74.00	-13.55	Peak

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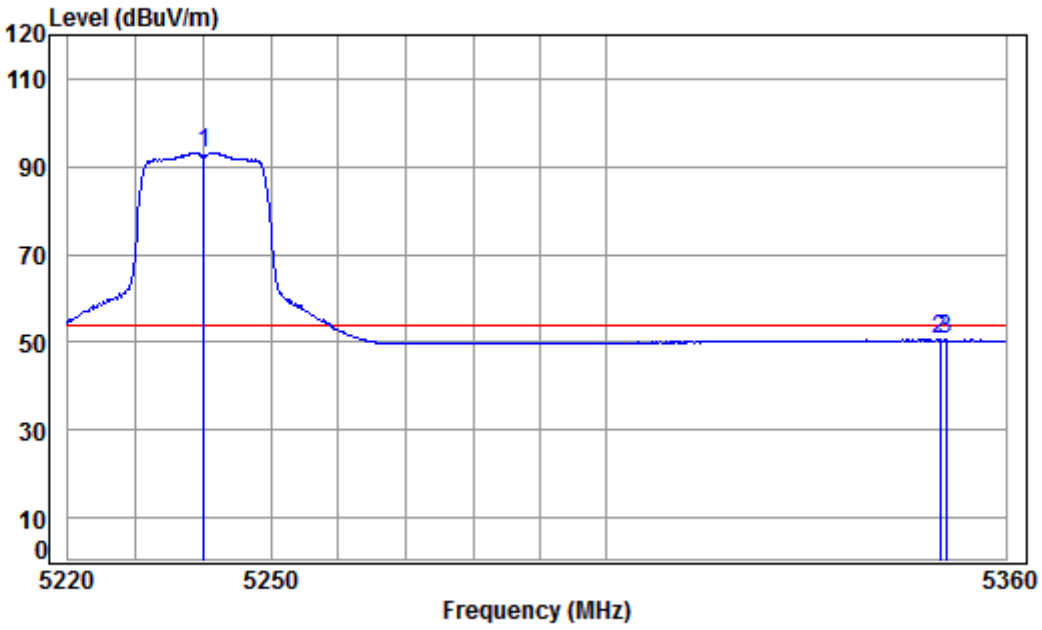
Mode:g; Polarization:Vertical; Modulation Type: 802.11n; Channel: High for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5240 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5240.000	8.12	34.45	38.45	89.08	93.20	54.00	39.20	Average
2	5350.000	8.18	34.43	38.43	46.26	50.44	54.00	-3.56	Average
3	5350.929	8.18	34.43	38.43	46.31	50.49	54.00	-3.51	Average

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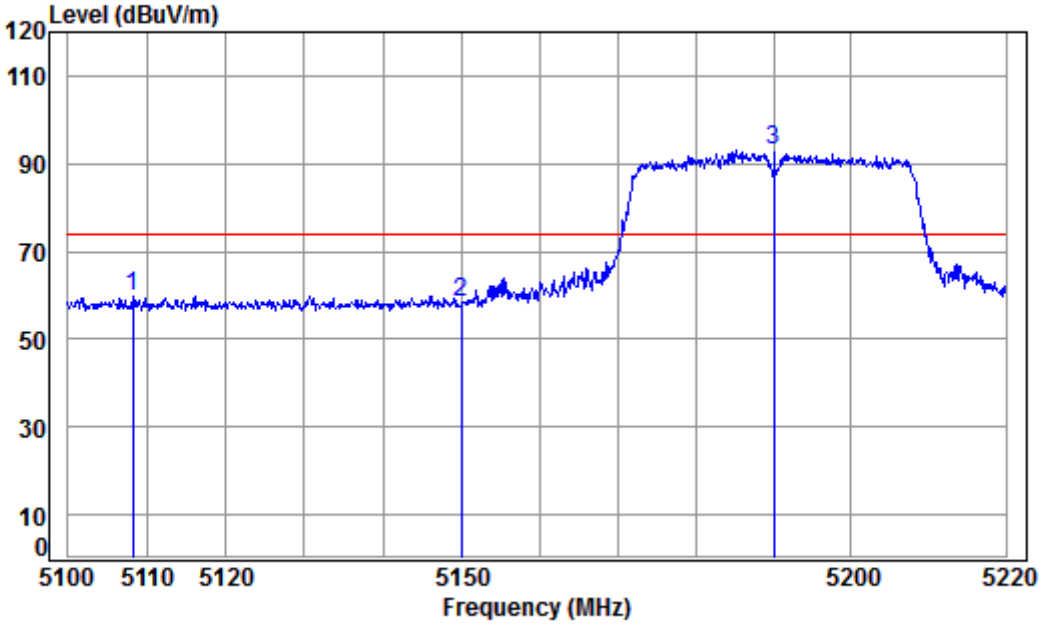
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: Low for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5190 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5108.190	8.06	34.48	38.48	55.84	59.90	74.00	-14.10	peak
2	5150.000	8.08	34.47	38.47	54.51	58.59	74.00	-15.41	peak
3 pp	5190.000	8.10	34.46	38.46	88.86	92.96	74.00	18.96	peak

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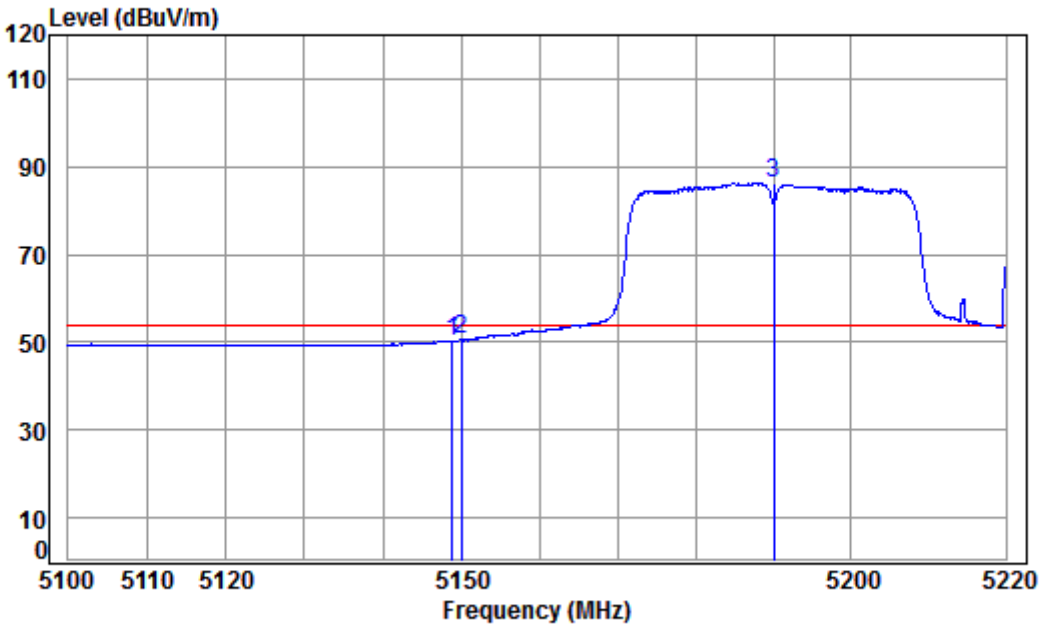
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: Low for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5190 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.863	8.08	34.47	38.47	46.32	50.40	54.00	-3.60	Average
2	5150.000	8.08	34.47	38.47	46.64	50.72	54.00	-3.28	Average
3 pp	5190.000	8.10	34.46	38.46	82.07	86.17	54.00	32.17	Average

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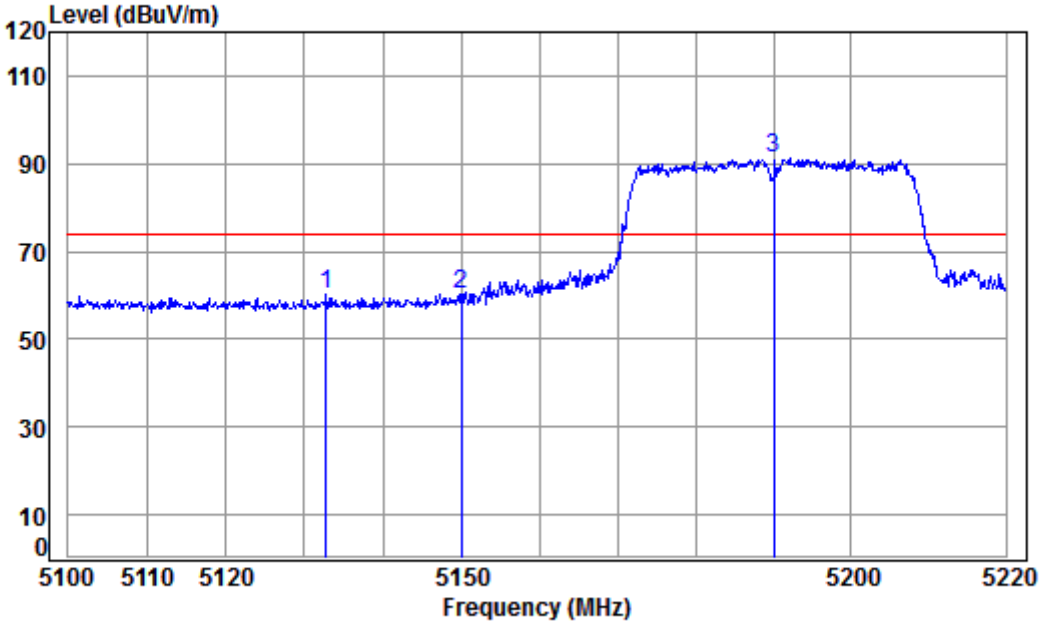
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: Low for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5190 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5132.722	8.07	34.47	38.47	56.30	60.37	74.00	-13.63	Peak
2	5150.000	8.08	34.47	38.47	56.16	60.24	74.00	-13.76	Peak
3 pp	5190.000	8.10	34.46	38.46	87.25	91.35	74.00	17.35	Peak

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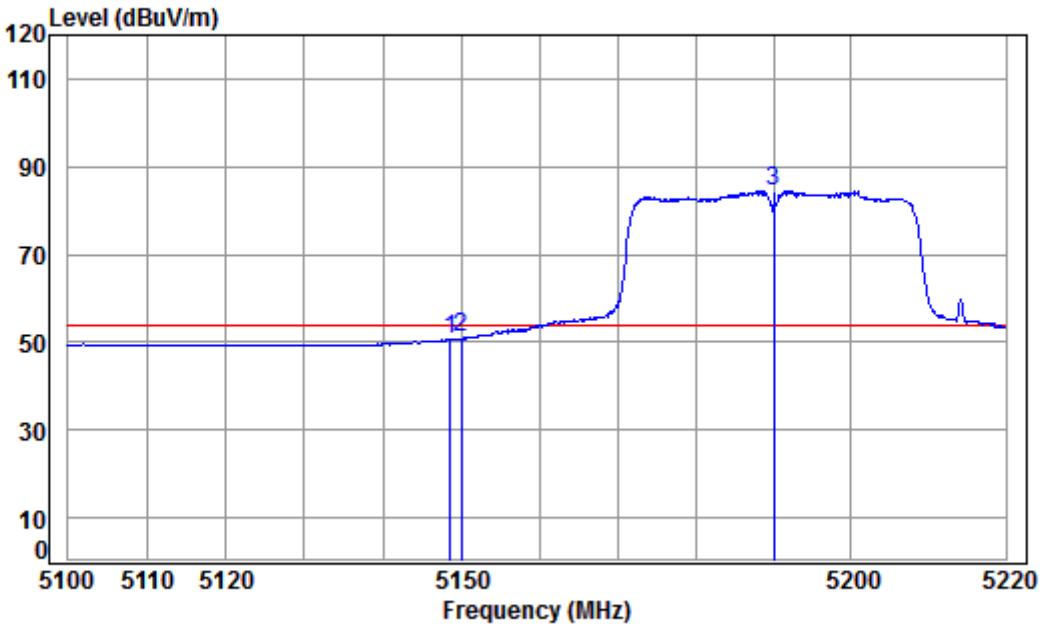
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: Low for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5190 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.623	8.08	34.47	38.47	46.63	50.71	54.00	-3.29	Average
2	5150.000	8.08	34.47	38.47	46.81	50.89	54.00	-3.11	Average
3 pp	5190.000	8.10	34.46	38.46	80.37	84.47	54.00	30.47	Average

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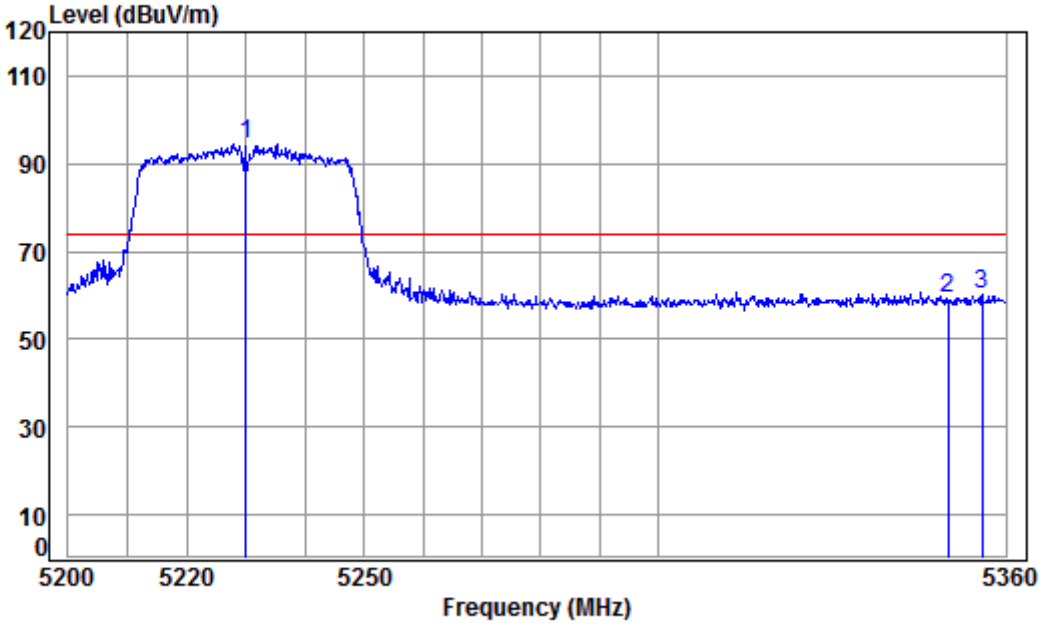
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: High for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5230 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5230.000	8.12	34.45	38.45	90.45	94.57	74.00	20.57	peak
2	5350.000	8.18	34.43	38.43	55.04	59.22	74.00	-14.78	peak
3	5355.940	8.18	34.43	38.43	55.91	60.09	74.00	-13.91	peak

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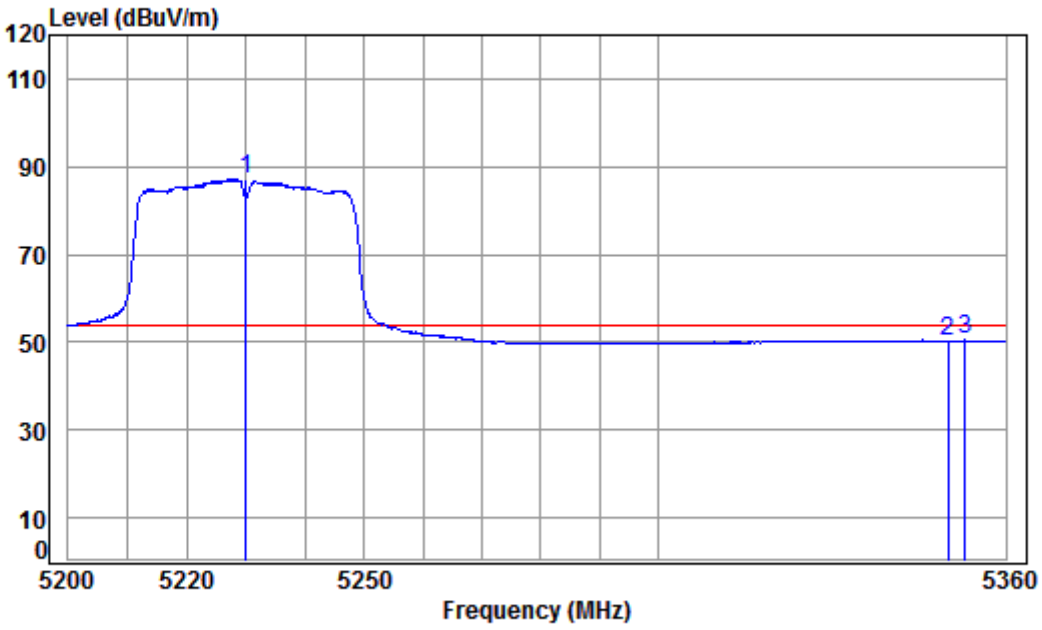
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: High for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5230 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5230.000	8.12	34.45	38.45	82.99	87.11	54.00	33.11	Average
2	5350.000	8.18	34.43	38.43	46.22	50.40	54.00	-3.60	Average
3	5352.857	8.18	34.43	38.43	46.28	50.46	54.00	-3.54	Average

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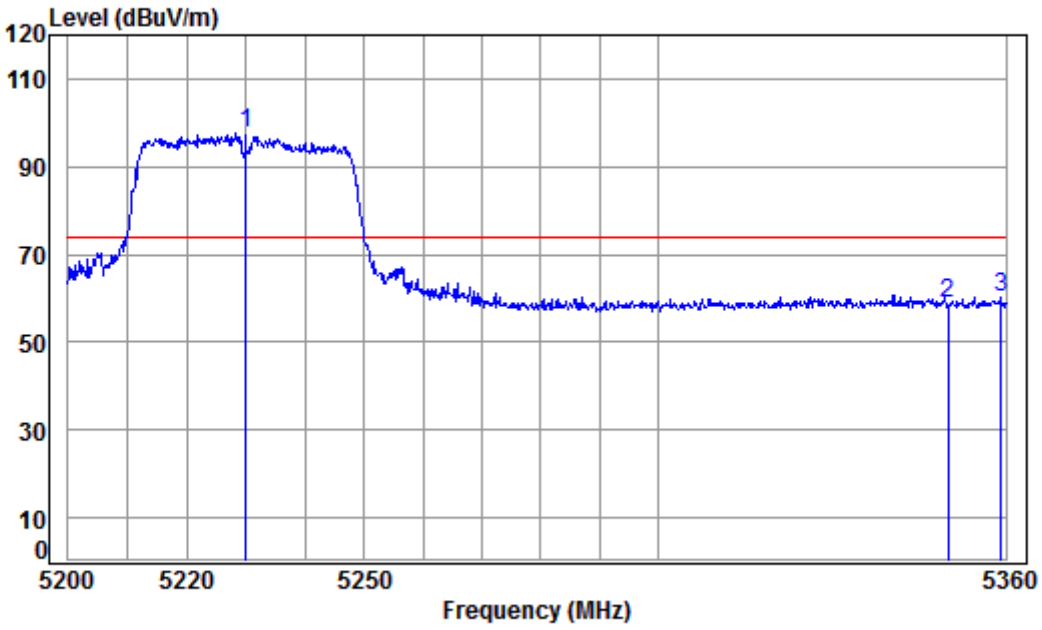
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: High for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5230 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5230.000	8.12	34.45	38.45	93.36	97.48	74.00	23.48	Peak
2	5350.000	8.18	34.43	38.43	54.73	58.91	74.00	-15.09	Peak
3	5359.188	8.18	34.43	38.43	55.98	60.16	74.00	-13.84	Peak

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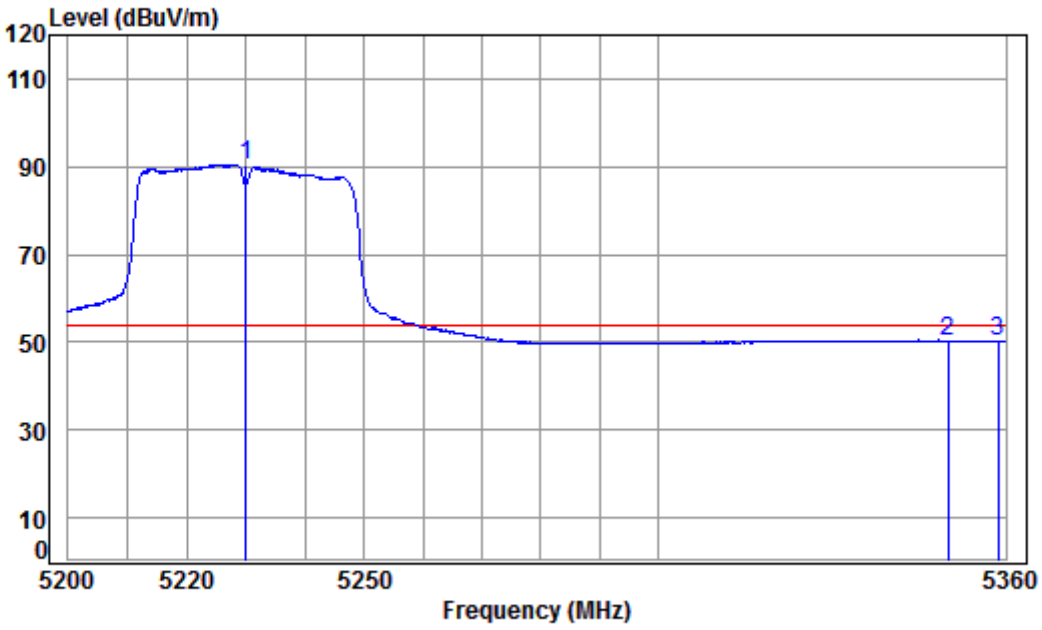
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: High for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5230 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5230.000	8.12	34.45	38.45	86.30	90.42	54.00	36.42	Average
2	5350.000	8.18	34.43	38.43	46.22	50.40	54.00	-3.60	Average
3	5358.701	8.18	34.43	38.43	46.23	50.41	54.00	-3.59	Average

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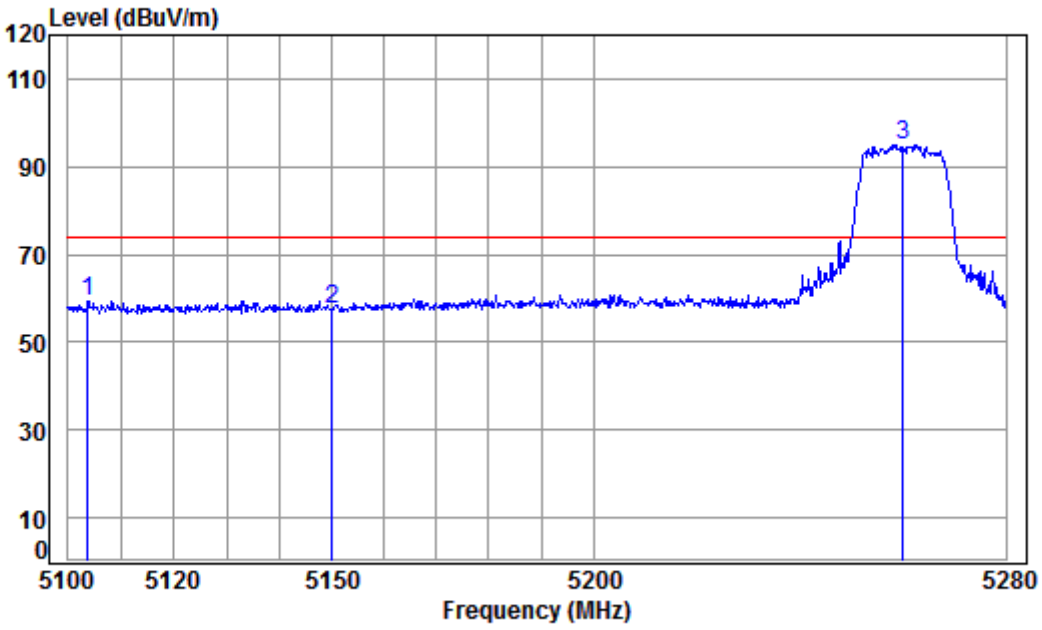
Band2

Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: Low for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5260 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5103.716	8.05	34.48	38.48	55.46	59.51	74.00	-14.49	peak
2	5150.000	8.08	34.47	38.47	53.57	57.65	74.00	-16.35	peak
3 pp	5260.000	8.13	34.45	38.45	90.81	94.94	74.00	20.94	peak

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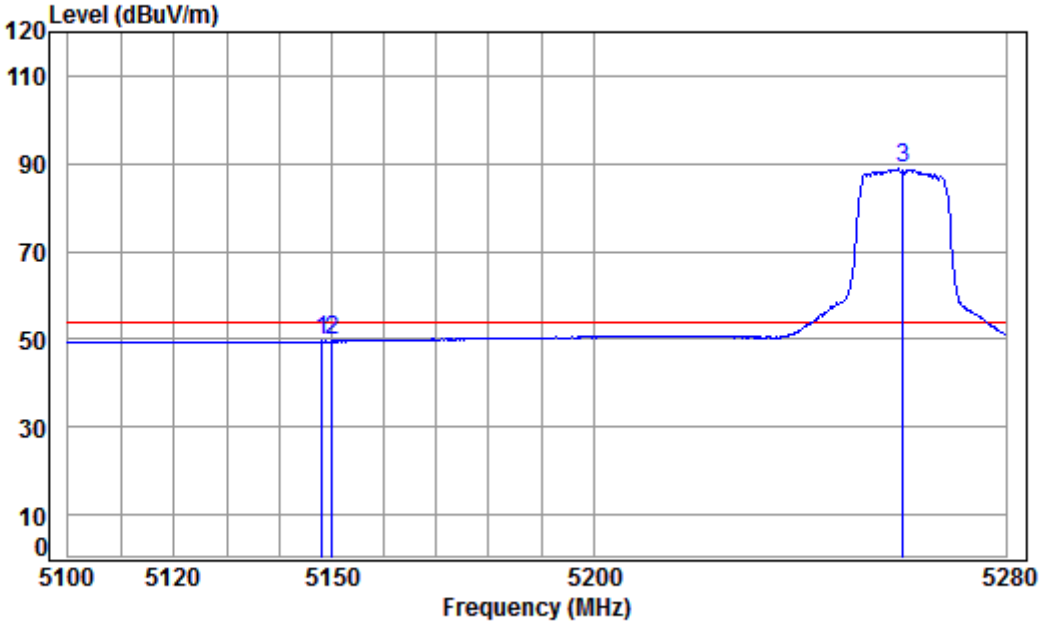
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: Low for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5260 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.165	8.08	34.47	38.47	45.44	49.52	54.00	-4.48	Average
2	5150.000	8.08	34.47	38.47	45.48	49.56	54.00	-4.44	Average
3 pp	5260.000	8.13	34.45	38.45	84.63	88.76	54.00	34.76	Average

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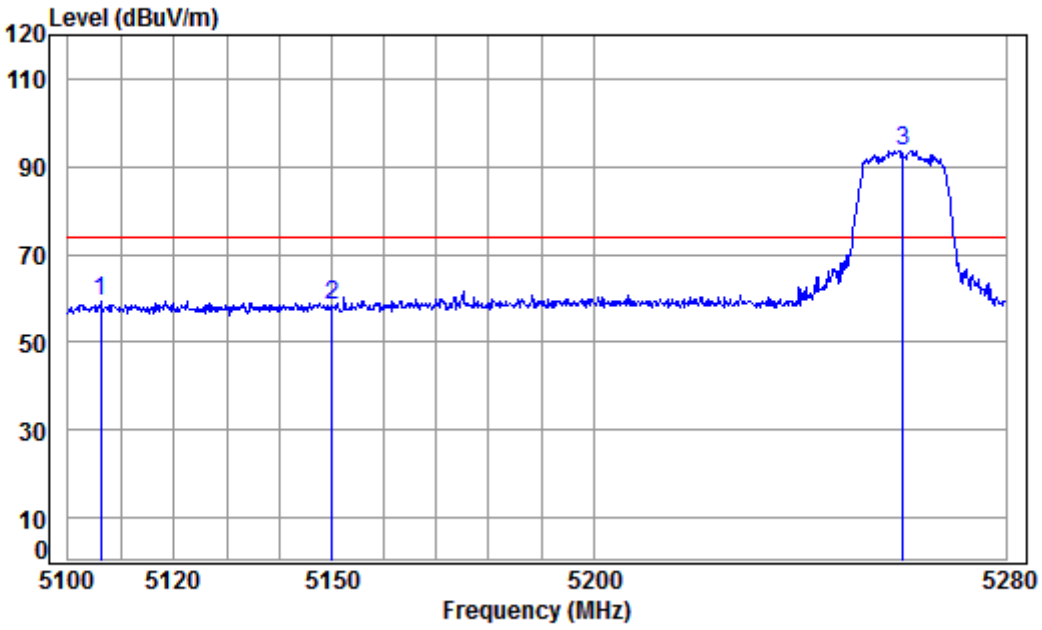
Mode:g; Polarization:Vertical; Modulation Type: 802.11a; Channel: Low for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5260 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5106.195	8.06	34.48	38.48	55.34	59.40	74.00	-14.60	Peak
2	5150.000	8.08	34.47	38.47	54.42	58.50	74.00	-15.50	Peak
3 pp	5260.000	8.13	34.45	38.45	89.58	93.71	74.00	19.71	Peak

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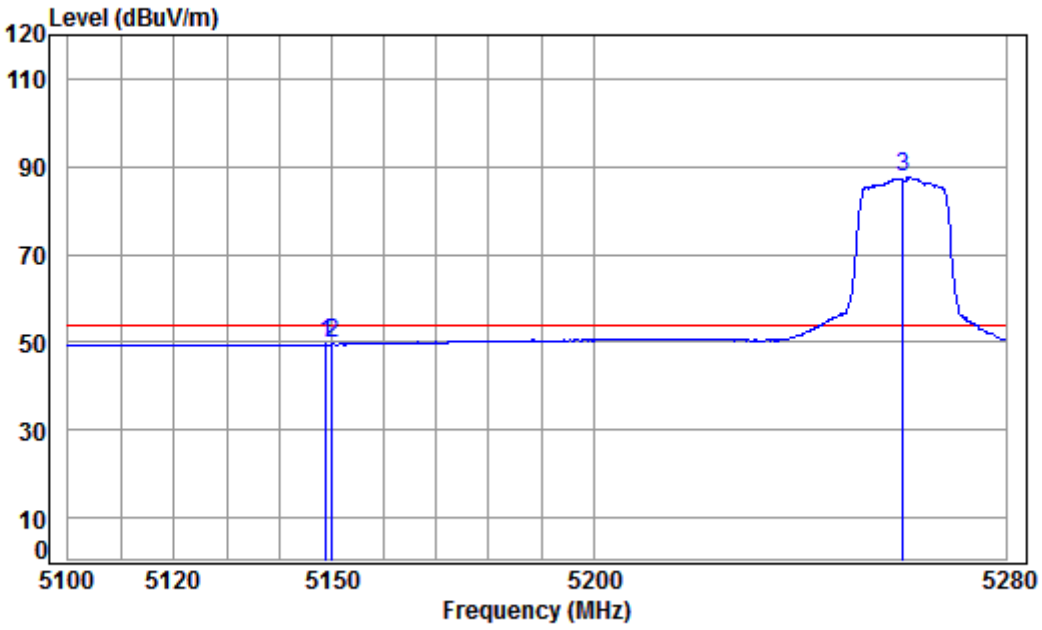
Mode:g; Polarization:Vertical; Modulation Type: 802.11a; Channel: Low for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5260 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.879	8.08	34.47	38.47	45.43	49.51	54.00	-4.49	Average
2	5150.000	8.08	34.47	38.47	45.48	49.56	54.00	-4.44	Average
3 pp	5260.000	8.13	34.45	38.45	83.38	87.51	54.00	33.51	Average

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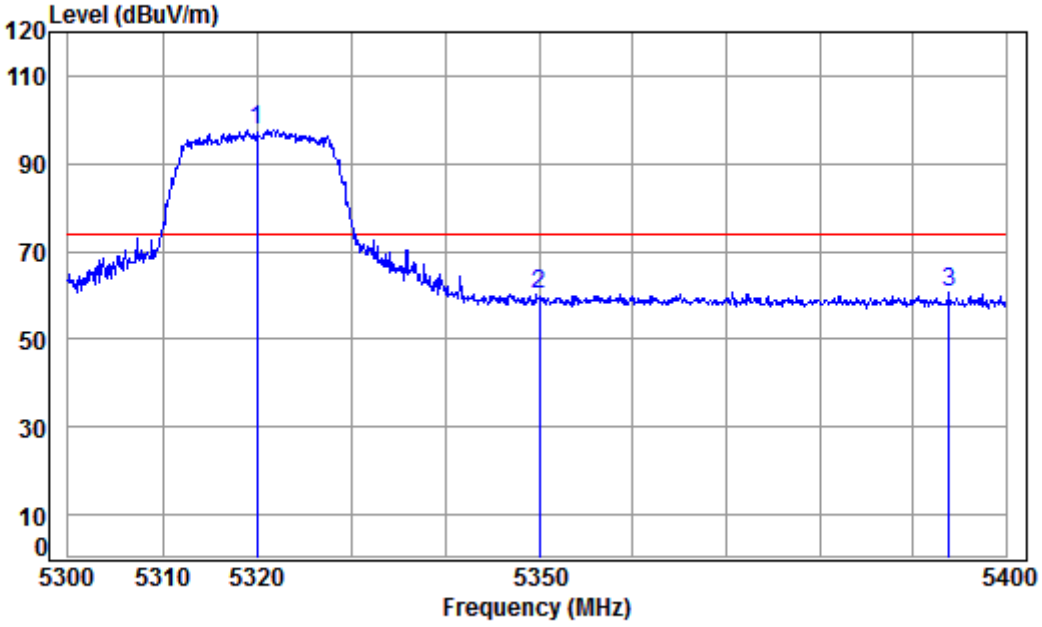
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: High for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5320 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	8.16	34.43	38.44	93.53	97.68	74.00	23.68	peak
2	5350.000	8.18	34.43	38.43	55.82	60.00	74.00	-14.00	peak
3	5393.846	8.20	34.42	38.42	56.50	60.70	74.00	-13.30	peak

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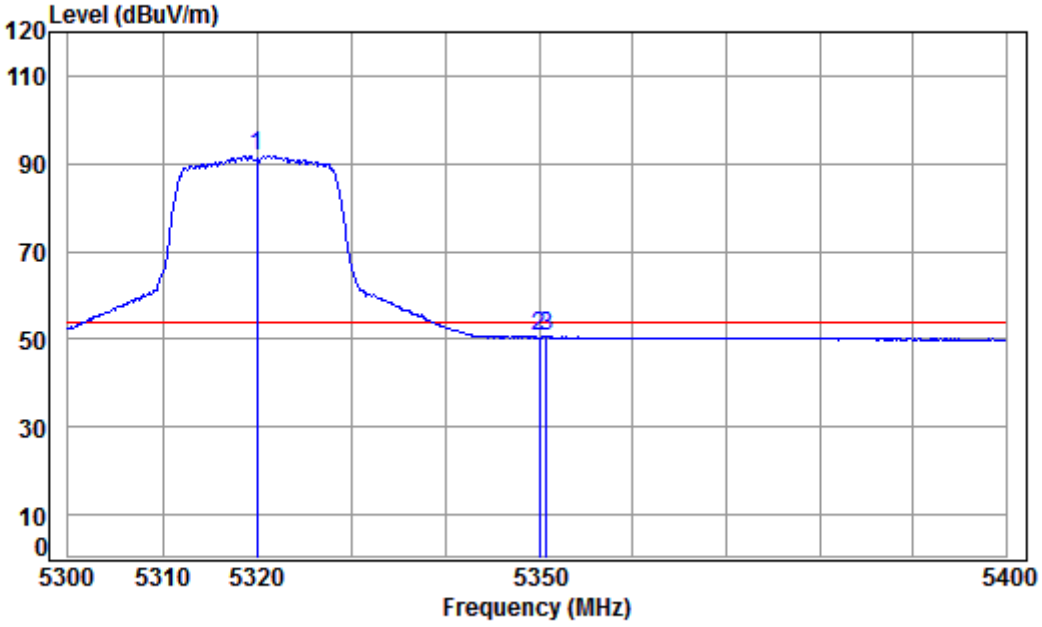
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: High for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5320 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	8.16	34.43	38.44	87.59	91.74	54.00	37.74	Average
2	5350.000	8.18	34.43	38.43	46.27	50.45	54.00	-3.55	Average
3	5350.767	8.18	34.43	38.43	46.28	50.46	54.00	-3.54	Average

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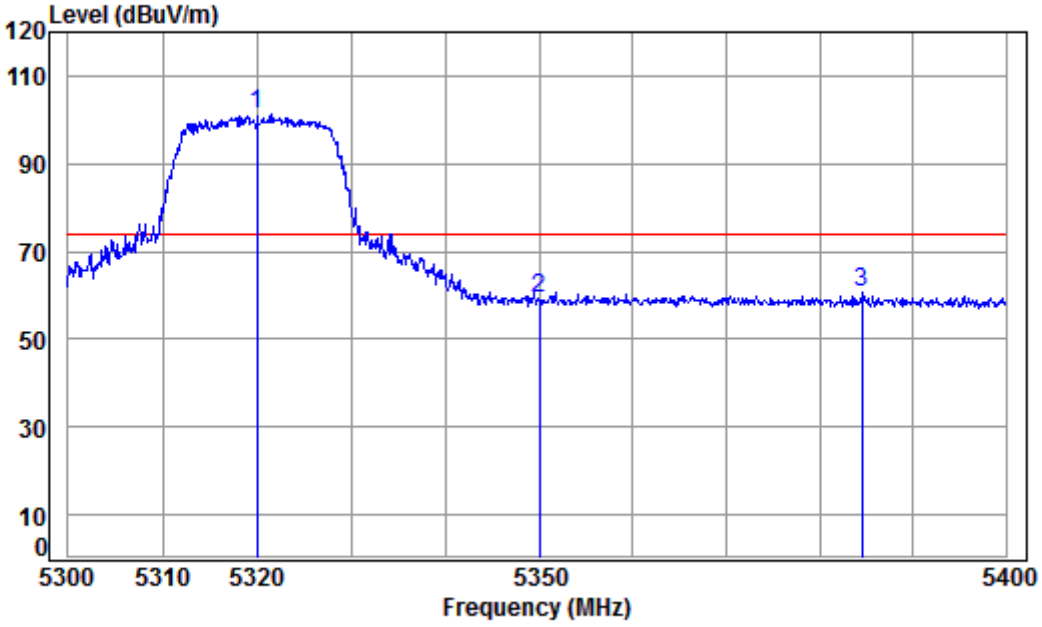
Mode:g; Polarization:Vertical; Modulation Type: 802.11a; Channel: High for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5320 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	8.16	34.43	38.44	97.23	101.38	74.00	27.38	Peak
2	5350.000	8.18	34.43	38.43	55.13	59.31	74.00	-14.69	Peak
3	5384.478	8.19	34.42	38.42	56.50	60.69	74.00	-13.31	Peak

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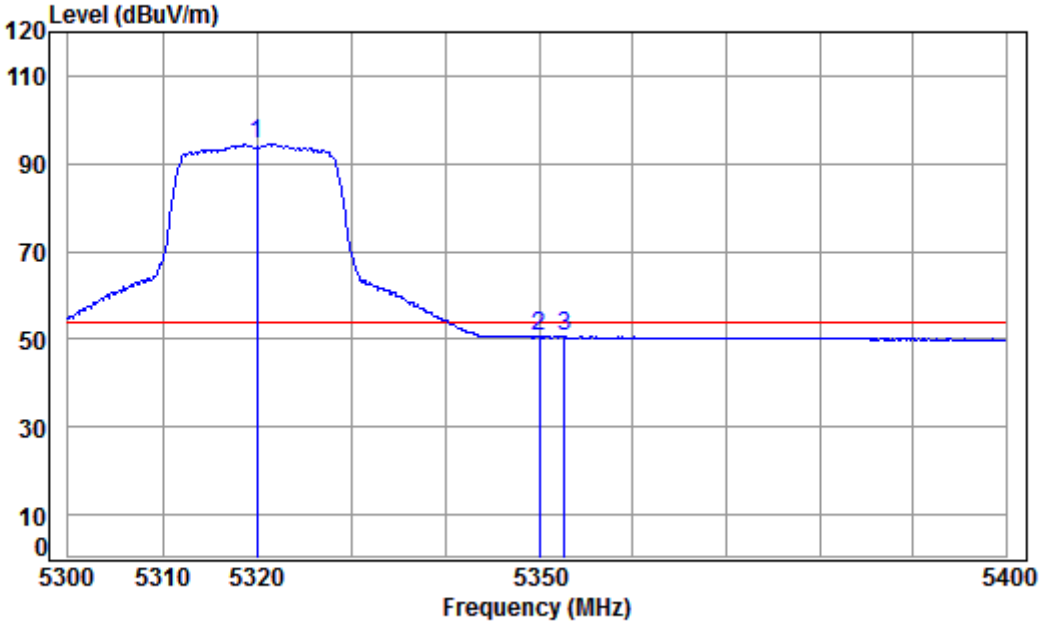
Mode:g; Polarization:Vertical; Modulation Type: 802.11a; Channel: High for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5320 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	8.16	34.43	38.44	90.30	94.45	54.00	40.45	Average
2	5350.000	8.18	34.43	38.43	46.33	50.51	54.00	-3.49	Average
3	5352.667	8.18	34.43	38.43	46.35	50.53	54.00	-3.47	Average

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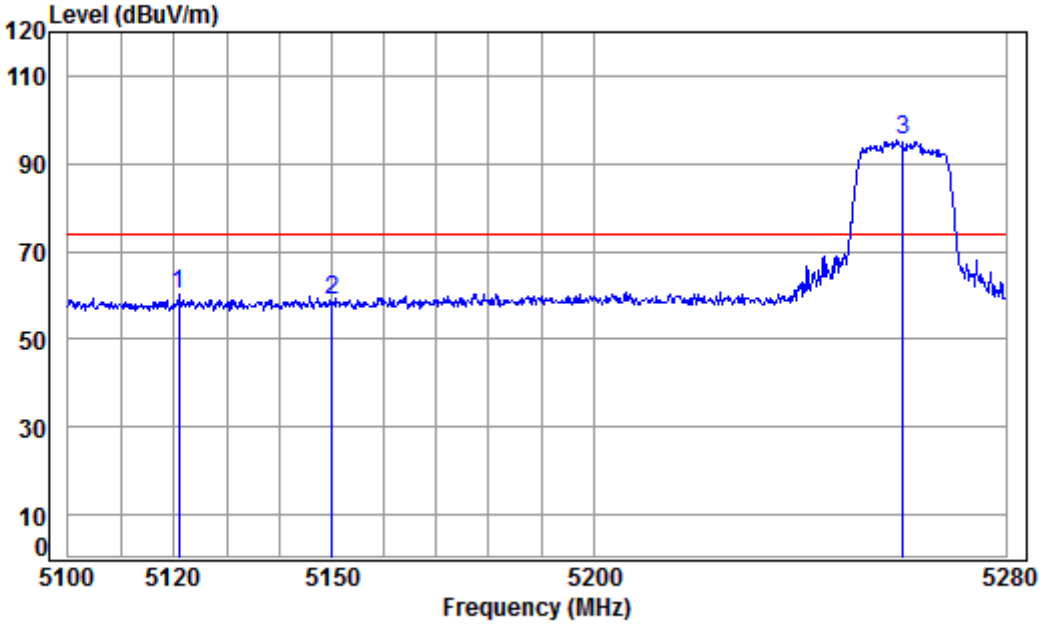
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: Low for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5260 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5120.917	8.06	34.47	38.48	56.36	60.41	74.00	-13.59	peak
2	5150.000	8.08	34.47	38.47	54.69	58.77	74.00	-15.23	peak
3 pp	5260.000	8.13	34.45	38.45	91.08	95.21	74.00	21.21	peak

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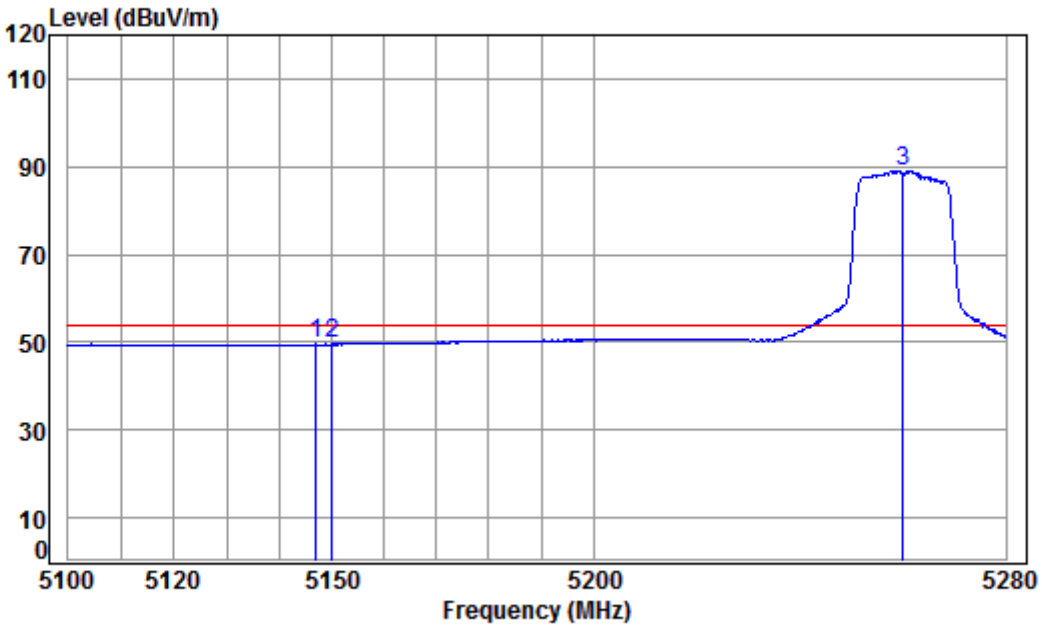
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: Low for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5260 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.094	8.08	34.47	38.47	45.48	49.56	54.00	-4.44	Average
2	5150.000	8.08	34.47	38.47	45.46	49.54	54.00	-4.46	Average
3 pp	5260.000	8.13	34.45	38.45	85.06	89.19	54.00	35.19	Average

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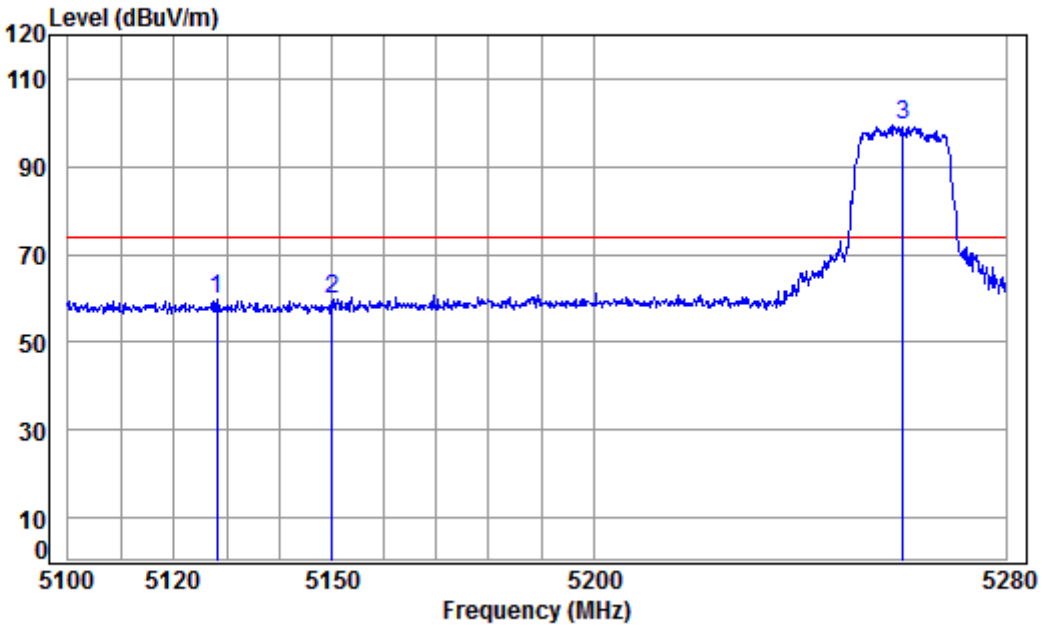
Mode:g; Polarization:Vertical; Modulation Type: 802.11n; Channel: Low for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5260 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5128.204	8.07	34.47	38.47	55.49	59.56	74.00	-14.44	Peak
2	5150.000	8.08	34.47	38.47	55.55	59.63	74.00	-14.37	Peak
3 pp	5260.000	8.13	34.45	38.45	95.34	99.47	74.00	25.47	Peak

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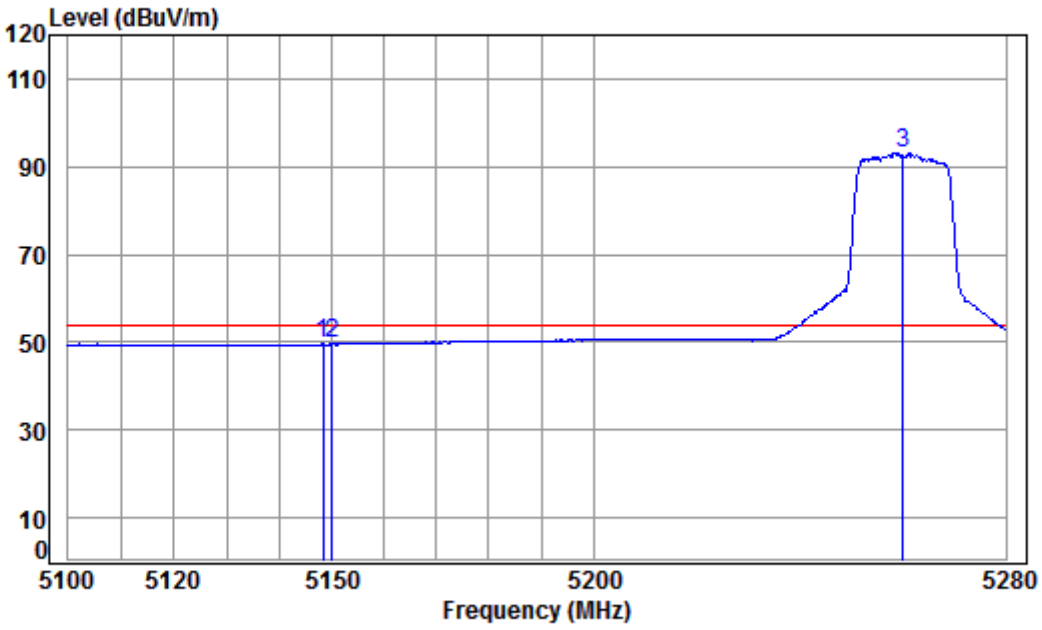
Mode:g; Polarization:Vertical; Modulation Type: 802.11n; Channel: Low for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5260 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.343	8.08	34.47	38.47	45.47	49.55	54.00	-4.45	Average
2	5150.000	8.08	34.47	38.47	45.56	49.64	54.00	-4.36	Average
3 pp	5260.000	8.13	34.45	38.45	88.97	93.10	54.00	39.10	Average

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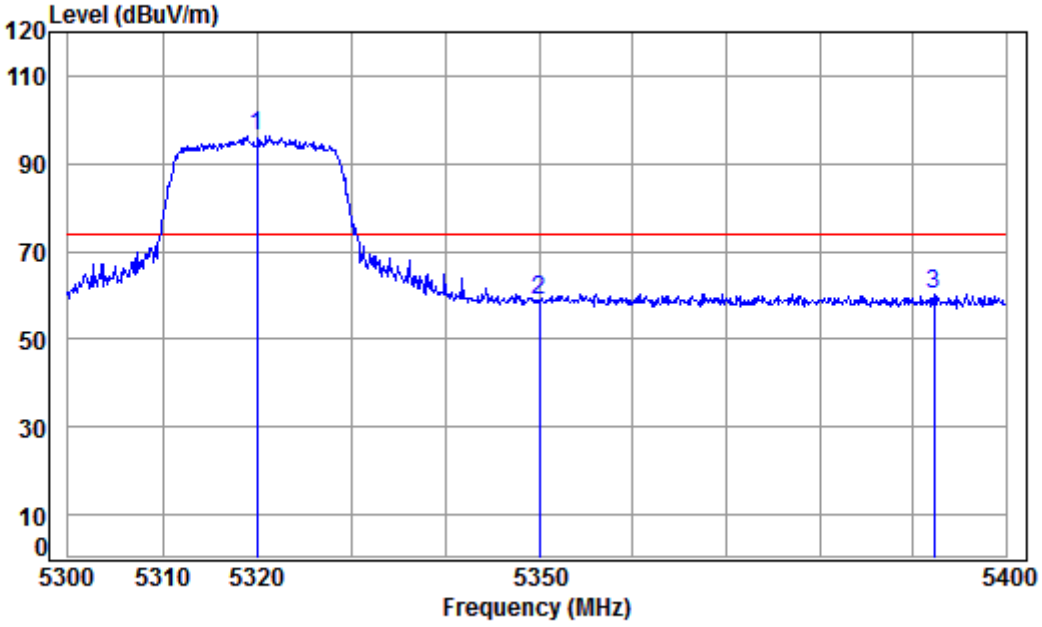
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: High for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5320 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	8.16	34.43	38.44	92.34	96.49	74.00	22.49	peak
2	5350.000	8.18	34.43	38.43	54.88	59.06	74.00	-14.94	peak
3	5392.233	8.20	34.42	38.42	56.19	60.39	74.00	-13.61	peak

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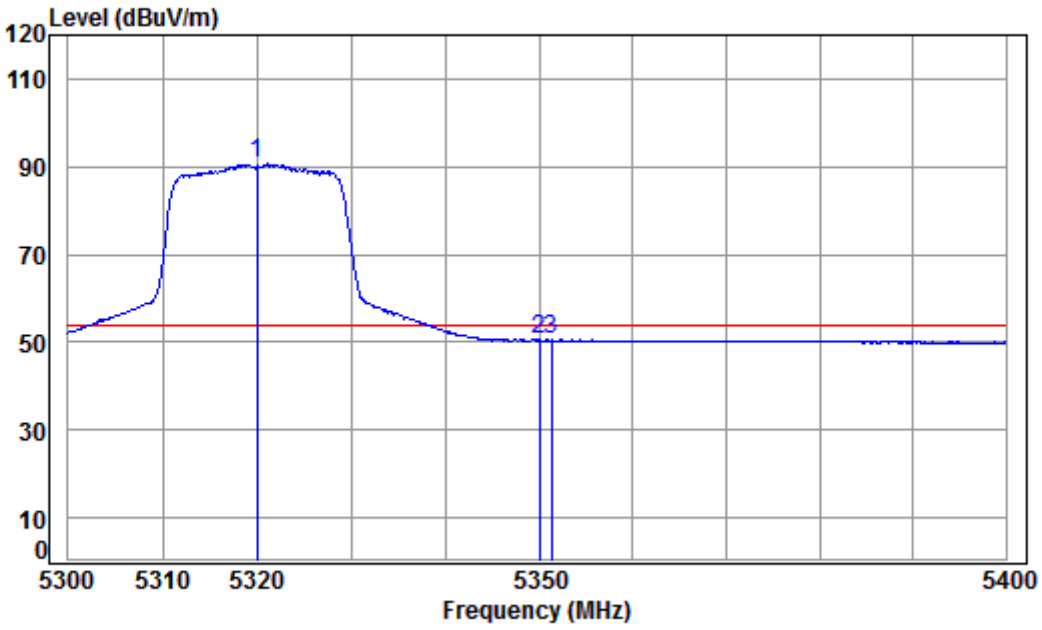
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: High for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5320 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	8.16	34.43	38.44	86.42	90.57	54.00	36.57	Average
2	5350.000	8.18	34.43	38.43	46.32	50.50	54.00	-3.50	Average
3	5351.367	8.18	34.43	38.43	46.35	50.53	54.00	-3.47	Average

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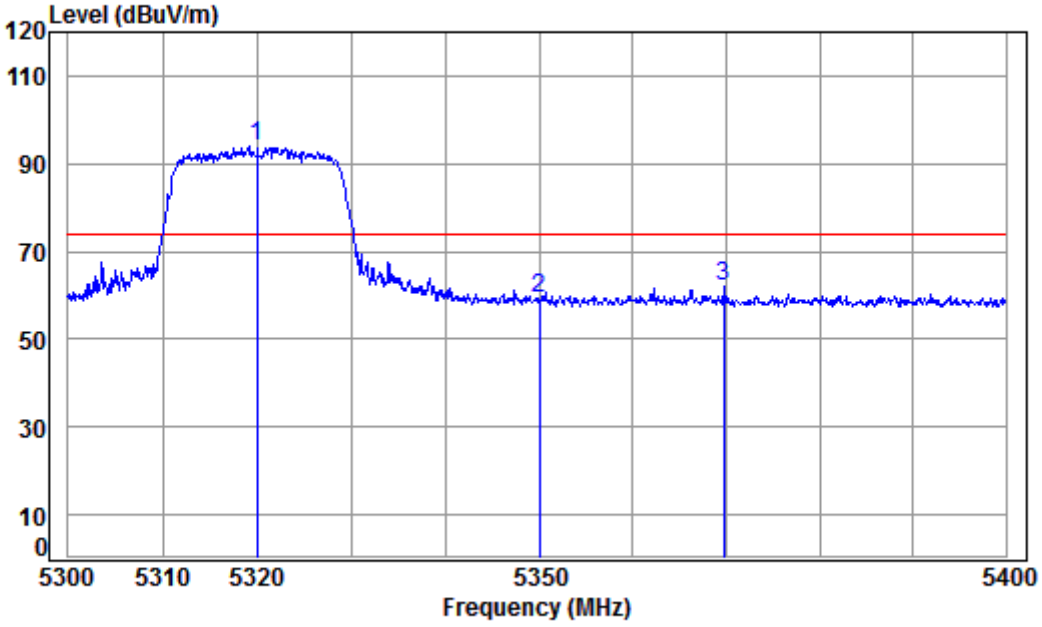
Mode:g; Polarization:Vertical; Modulation Type: 802.11n; Channel: High for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5320 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	8.16	34.43	38.44	89.74	93.89	74.00	19.89	Peak
2	5350.000	8.18	34.43	38.43	55.21	59.39	74.00	-14.61	Peak
3	5369.703	8.19	34.43	38.43	57.75	61.94	74.00	-12.06	Peak

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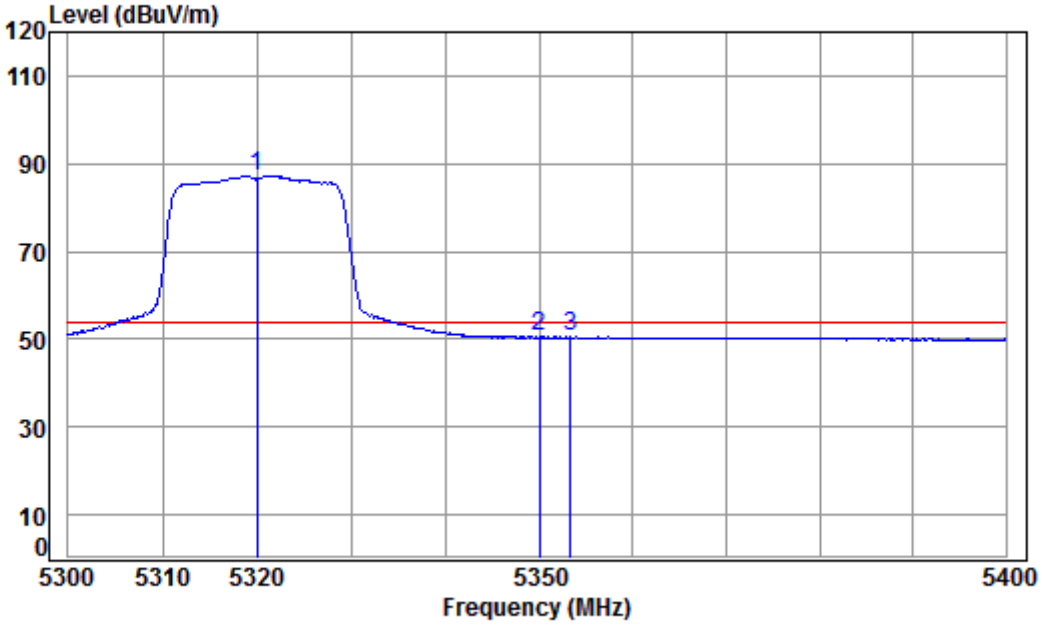
Mode:g; Polarization:Vertical; Modulation Type: 802.11n; Channel: High for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5320 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	8.16	34.43	38.44	83.13	87.28	54.00	33.28	Average
2	5350.000	8.18	34.43	38.43	46.32	50.50	54.00	-3.50	Average
3	5353.368	8.18	34.43	38.43	46.30	50.48	54.00	-3.52	Average

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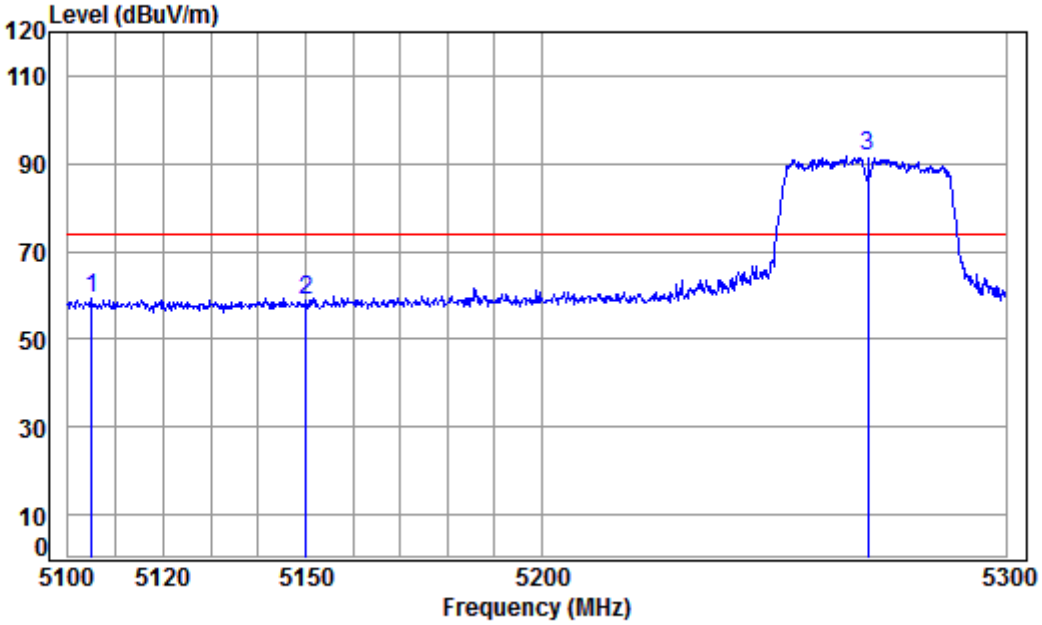
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: Low for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5270 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5104.907	8.05	34.48	38.48	55.15	59.20	74.00	-14.80	peak
2	5150.000	8.08	34.47	38.47	54.96	59.04	74.00	-14.96	peak
3 pp	5270.000	8.14	34.44	38.45	87.80	91.93	74.00	17.93	peak

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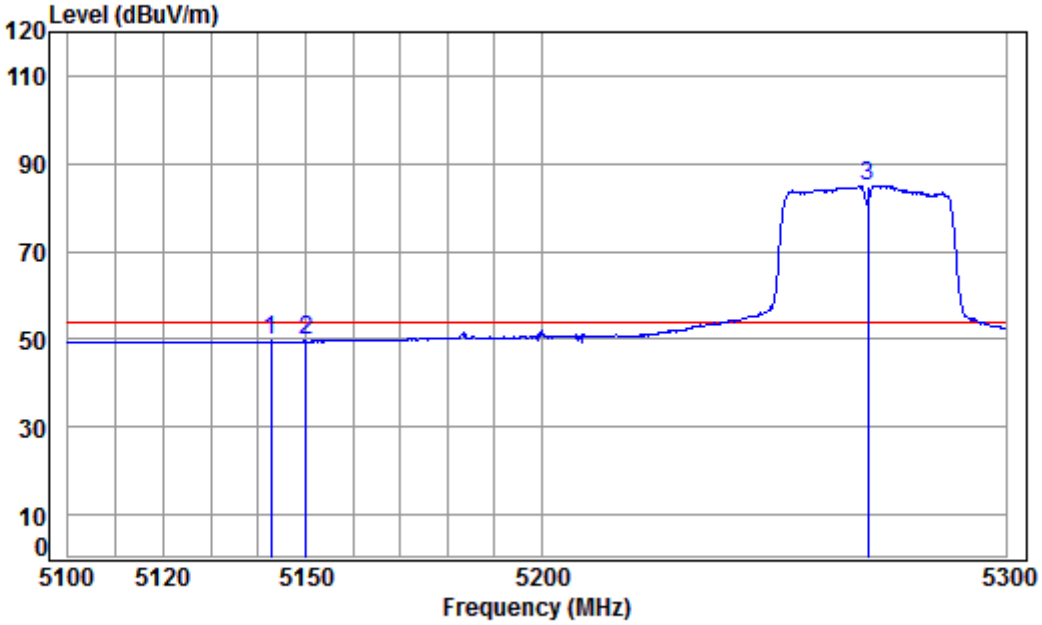
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: Low for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5270 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5142.551	8.07	34.47	38.47	45.46	49.53	54.00	-4.47	Average
2	5150.000	8.08	34.47	38.47	45.44	49.52	54.00	-4.48	Average
3 pp	5270.000	8.14	34.44	38.45	80.87	85.00	54.00	31.00	Average

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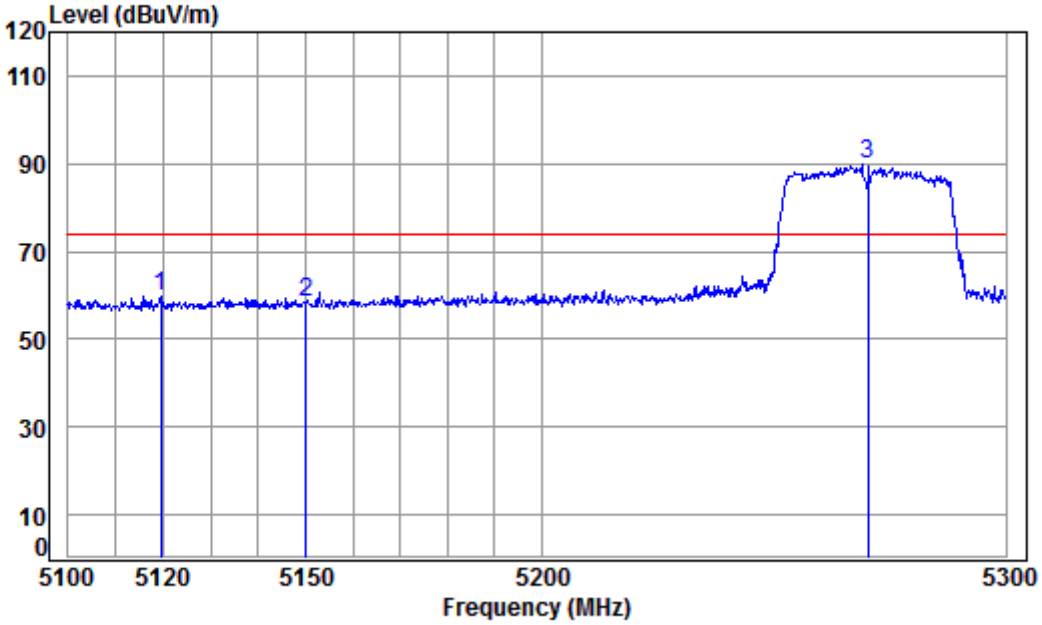
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: Low for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5270 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5119.458	8.06	34.48	38.48	55.85	59.91	74.00	-14.09	Peak
2	5150.000	8.08	34.47	38.47	54.54	58.62	74.00	-15.38	Peak
3 pp	5270.000	8.14	34.44	38.45	85.63	89.76	74.00	15.76	Peak

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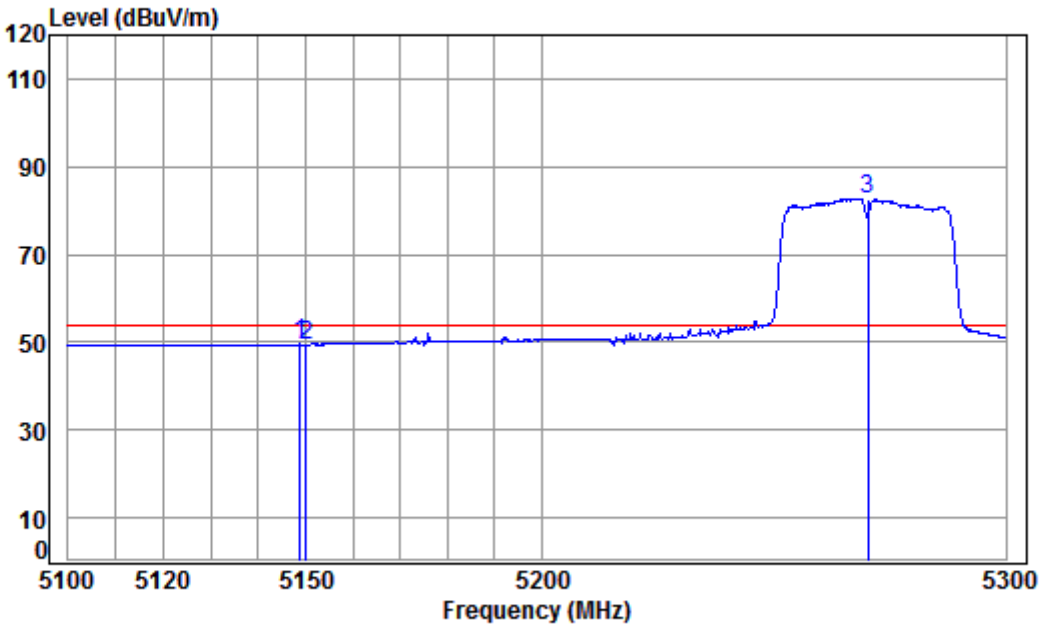
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: Low for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5270 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.687	8.08	34.47	38.47	45.43	49.51	54.00	-4.49	Average
2	5150.000	8.08	34.47	38.47	45.39	49.47	54.00	-4.53	Average
3 pp	5270.000	8.14	34.44	38.45	78.52	82.65	54.00	28.65	Average

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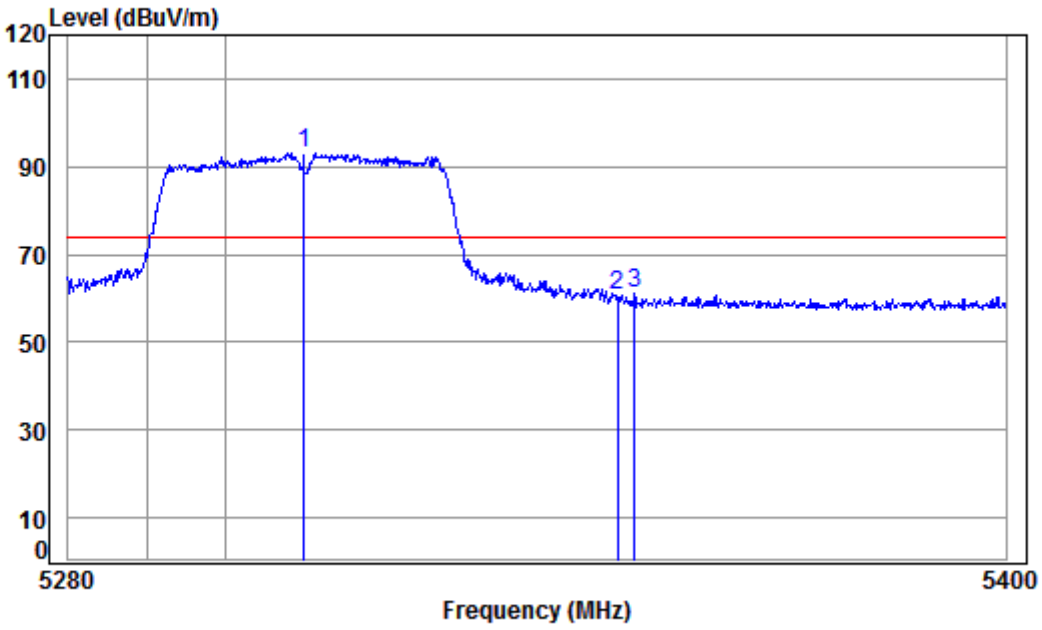
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: High for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5310 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	8.16	34.44	38.44	89.03	93.19	74.00	19.19	peak
2	5350.000	8.18	34.43	38.43	56.45	60.63	74.00	-13.37	peak
3	5352.157	8.18	34.43	38.43	56.88	61.06	74.00	-12.94	peak

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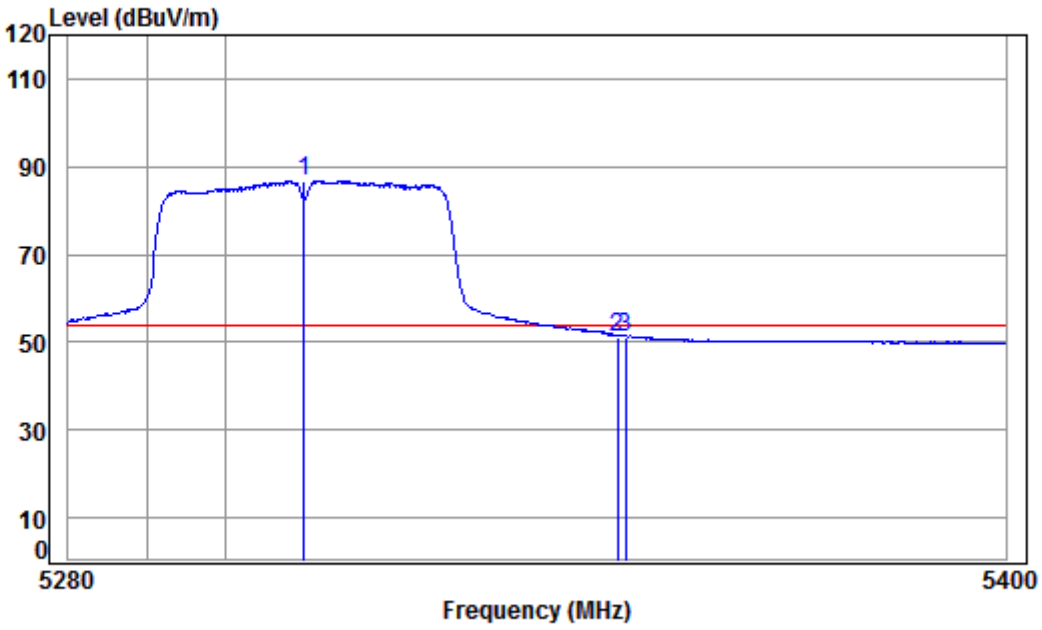
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: High for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5310 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	8.16	34.44	38.44	82.66	86.82	54.00	32.82	Average
2	5350.000	8.18	34.43	38.43	46.74	50.92	54.00	-3.08	Average
3	5350.955	8.18	34.43	38.43	46.72	50.90	54.00	-3.10	Average

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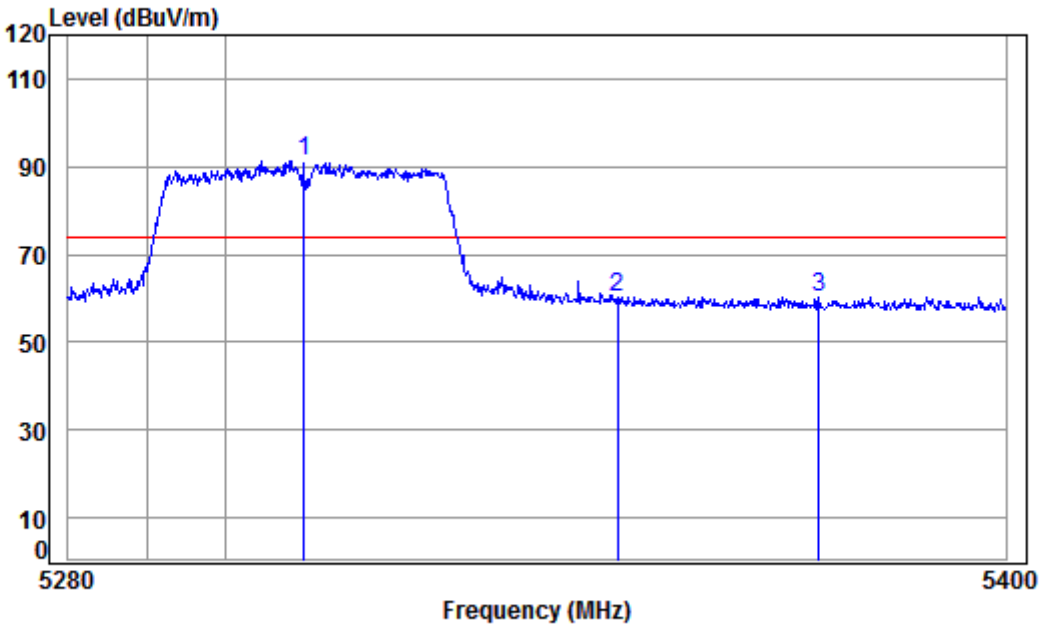
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: High for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5310 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	8.16	34.44	38.44	87.19	91.35	74.00	17.35	Peak
2	5350.000	8.18	34.43	38.43	56.12	60.30	74.00	-13.70	Peak
3	5375.905	8.19	34.42	38.42	56.20	60.39	74.00	-13.61	Peak

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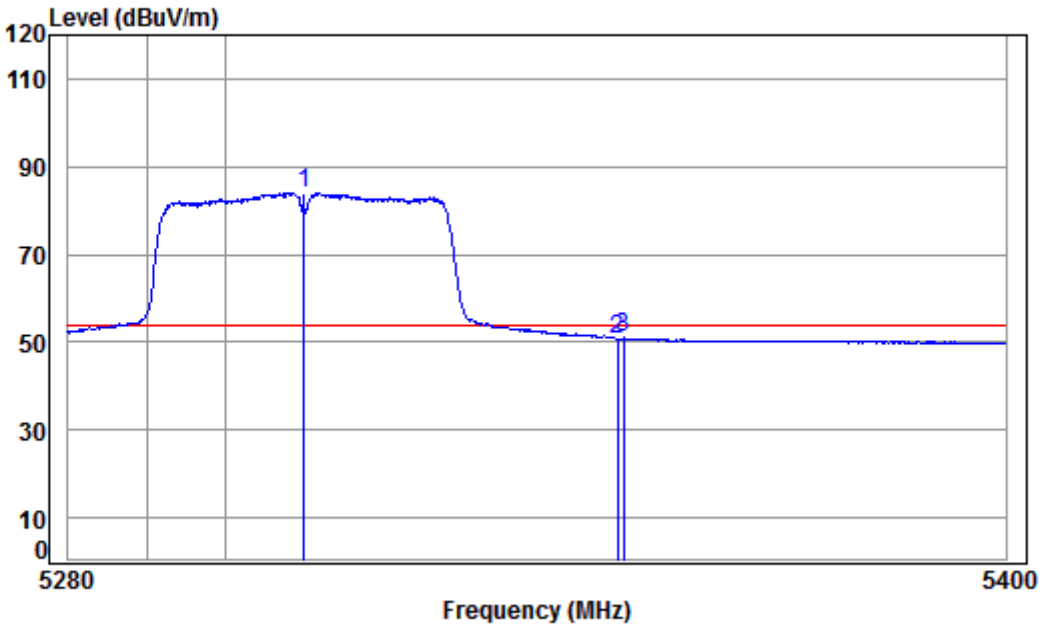
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: High for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5310 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	8.16	34.44	38.44	79.84	84.00	54.00	30.00	Average
2	5350.000	8.18	34.43	38.43	46.68	50.86	54.00	-3.14	Average
3	5350.714	8.18	34.43	38.43	46.70	50.88	54.00	-3.12	Average

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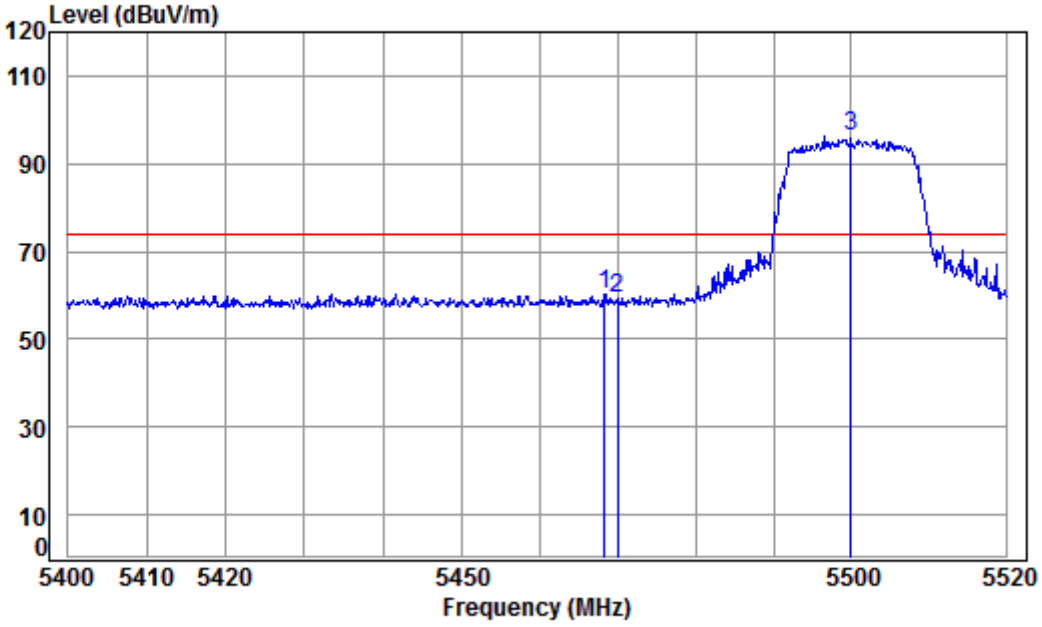
Band3

Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: Low for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5500 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5468.317	8.23	34.41	38.41	56.11	60.34	74.00	-13.66	peak
2	5470.000	8.24	34.41	38.41	54.96	59.20	74.00	-14.80	peak
3 pp	5500.000	8.25	34.40	38.40	91.86	96.11	74.00	22.11	peak

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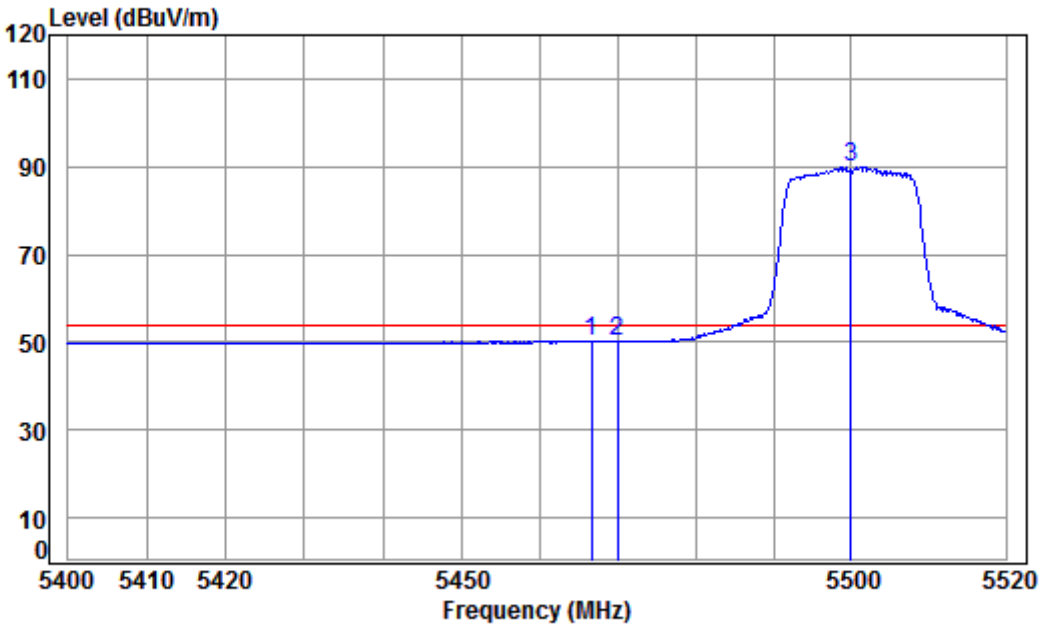
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: Low for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5500 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5466.635	8.23	34.41	38.41	45.93	50.16	54.00	-3.84	Average
2	5470.000	8.24	34.41	38.41	45.86	50.10	54.00	-3.90	Average
3 pp	5500.000	8.25	34.40	38.40	85.65	89.90	54.00	35.90	Average

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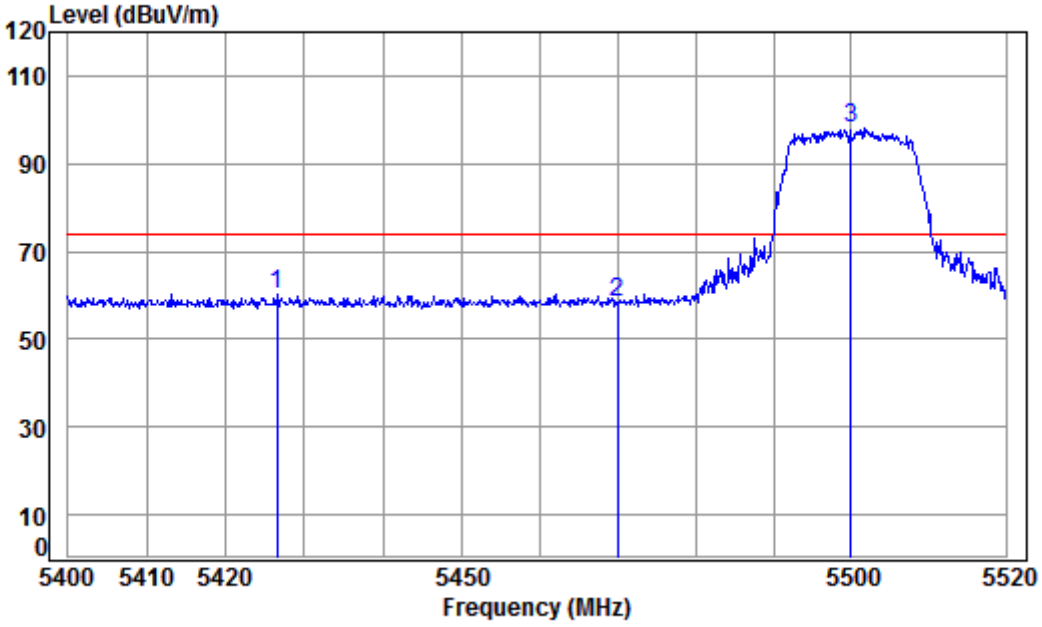
Mode:g; Polarization:Vertical; Modulation Type: 802.11a; Channel: Low for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5500 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5426.532	8.21	34.41	38.41	56.11	60.32	74.00	-13.68	Peak
2	5470.000	8.24	34.41	38.41	54.38	58.62	74.00	-15.38	Peak
3 pp	5500.000	8.25	34.40	38.40	93.78	98.03	74.00	24.03	Peak

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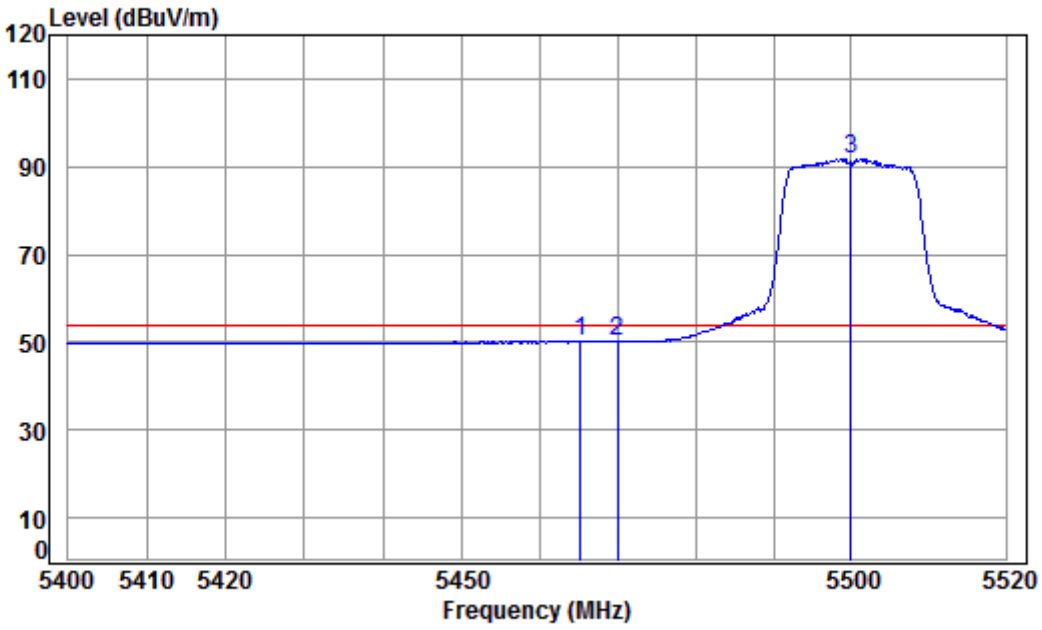
Mode:g; Polarization:Vertical; Modulation Type: 802.11a; Channel: Low for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5500 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5465.193	8.23	34.41	38.41	46.02	50.25	54.00	-3.75	Average
2	5470.000	8.24	34.41	38.41	45.83	50.07	54.00	-3.93	Average
3 pp	5500.000	8.25	34.40	38.40	87.51	91.76	54.00	37.76	Average

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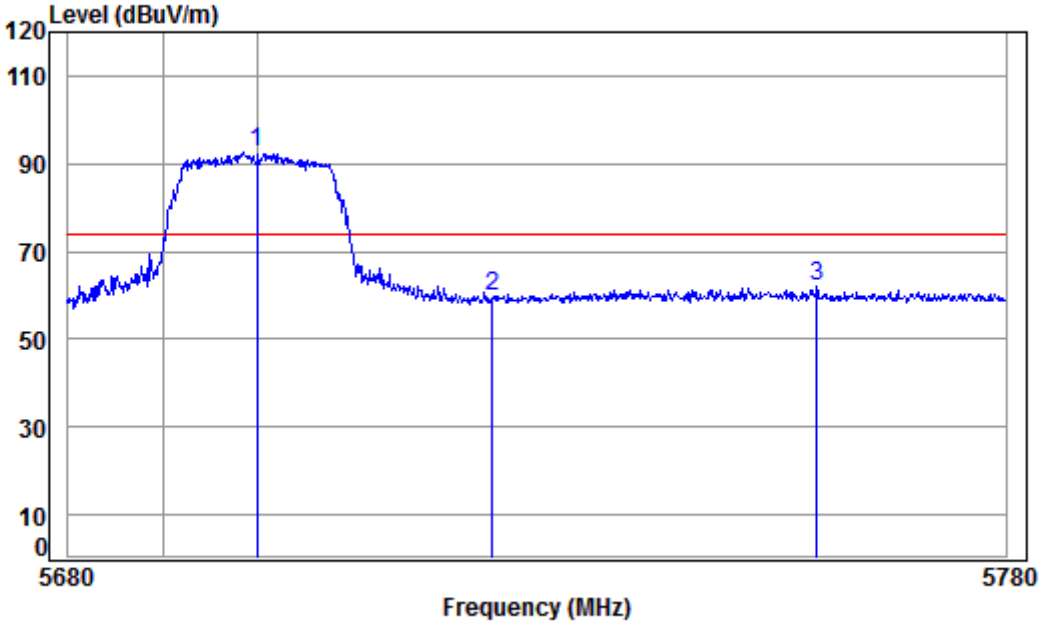
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: High for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5700 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5700.000	8.46	34.52	38.36	87.85	92.47	74.00	18.47	peak
2	5725.000	8.48	34.54	38.35	54.97	59.64	74.00	-14.36	peak
3	5759.659	8.52	34.56	38.35	57.17	61.90	74.00	-12.10	peak

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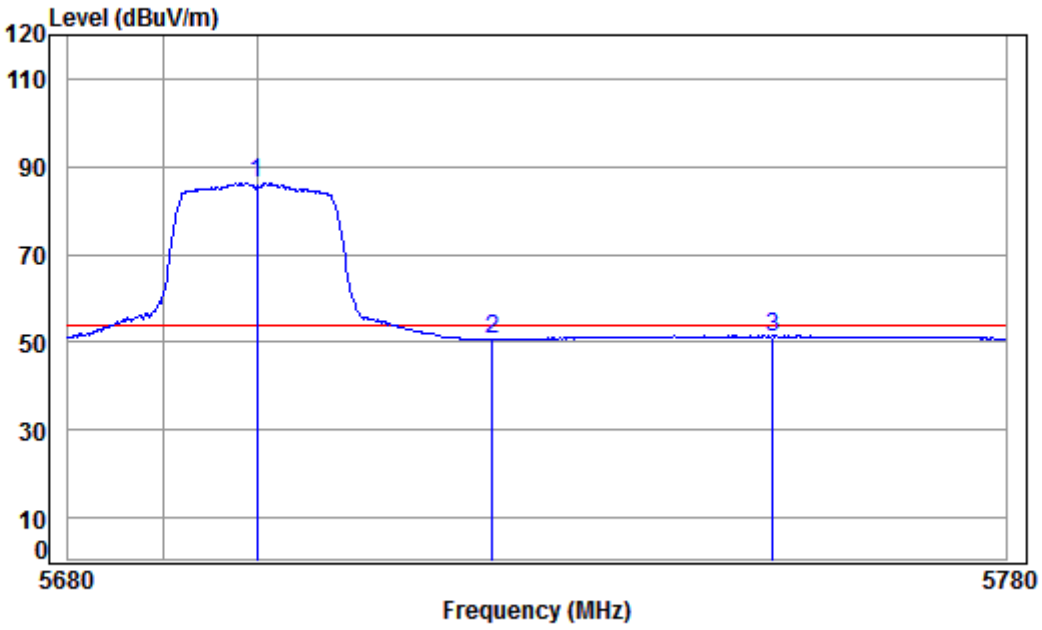
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: High for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5700 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5700.000	8.46	34.52	38.36	81.71	86.33	54.00	32.33	Average
2	5725.000	8.48	34.54	38.35	46.02	50.69	54.00	-3.31	Average
3	5754.937	8.51	34.56	38.35	46.23	50.95	54.00	-3.05	Average

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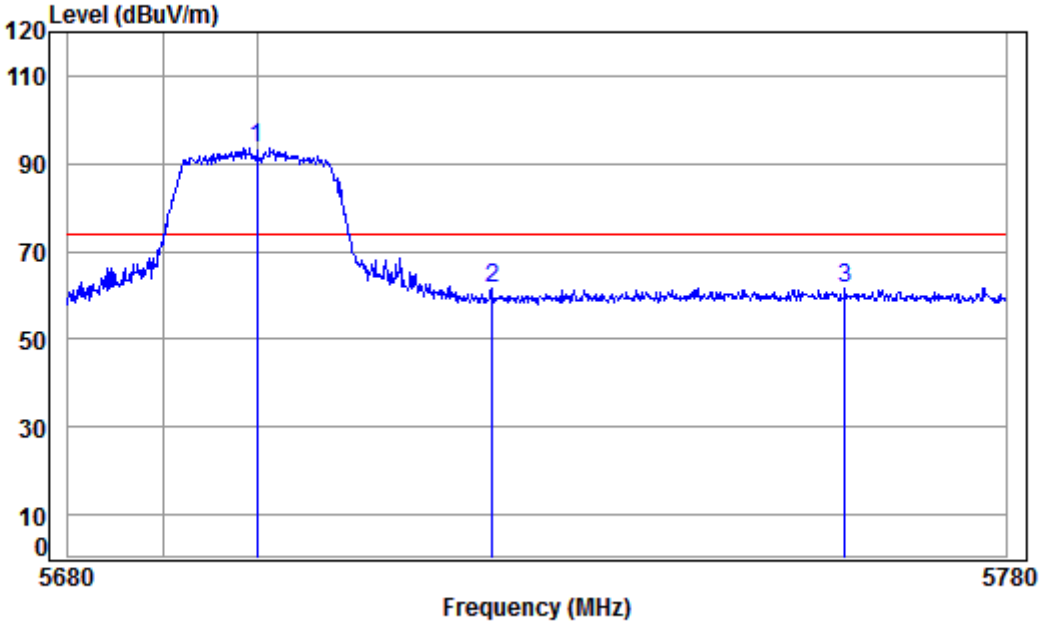
Mode:g; Polarization:Vertical; Modulation Type: 802.11a; Channel: High for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5700 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5700.000	8.46	34.52	38.36	88.82	93.44	74.00	19.44	Peak
2	5725.000	8.48	34.54	38.35	56.90	61.57	74.00	-12.43	Peak
3	5762.675	8.52	34.56	38.35	56.72	61.45	74.00	-12.55	Peak

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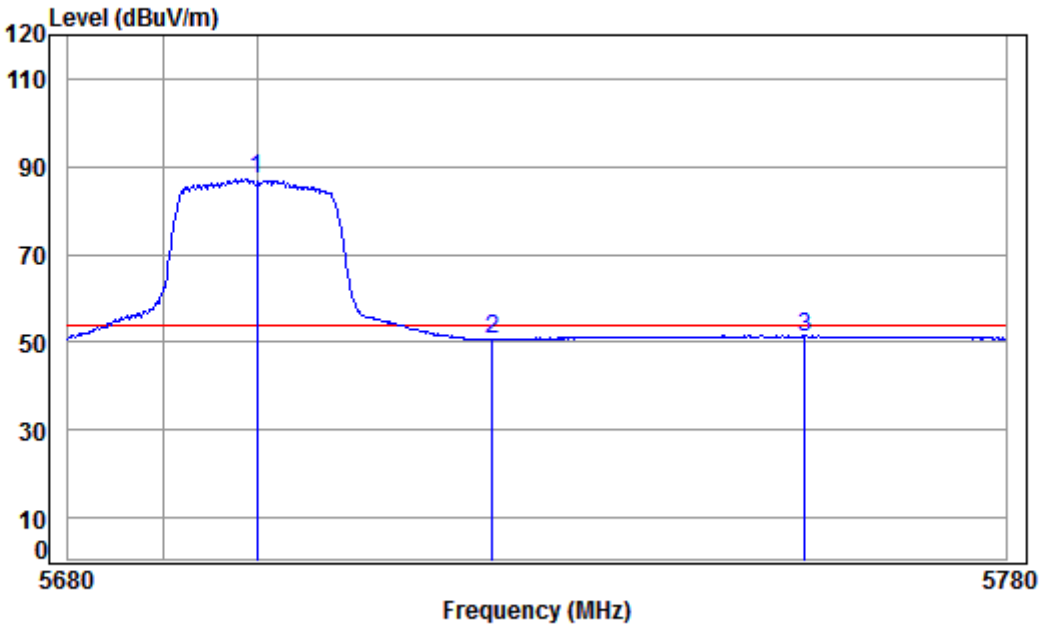
Mode:g; Polarization:Vertical; Modulation Type: 802.11a; Channel: High for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5700 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	8.46	34.52	38.36	82.54	87.16	54.00	33.16	Average
2	5725.000	8.48	34.54	38.35	46.04	50.71	54.00	-3.29	Average
3	5758.453	8.51	34.56	38.35	46.20	50.92	54.00	-3.08	Average

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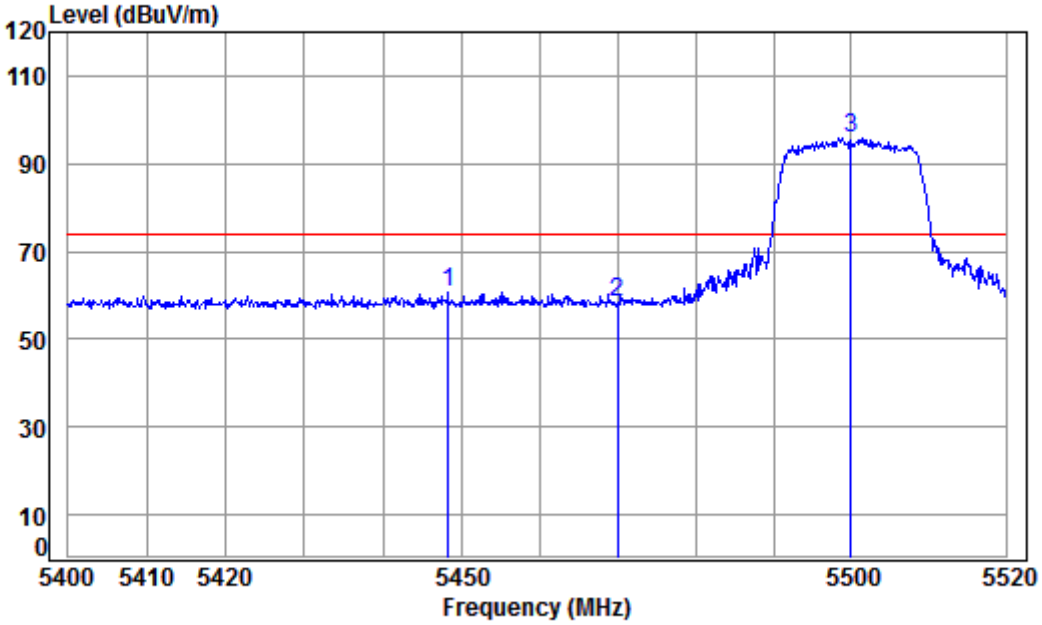
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: Low for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5500 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5448.282	8.23	34.41	38.41	56.57	60.80	74.00	-13.20	peak
2	5470.000	8.24	34.41	38.41	54.26	58.50	74.00	-15.50	peak
3 pp	5500.000	8.25	34.40	38.40	91.62	95.87	74.00	21.87	peak

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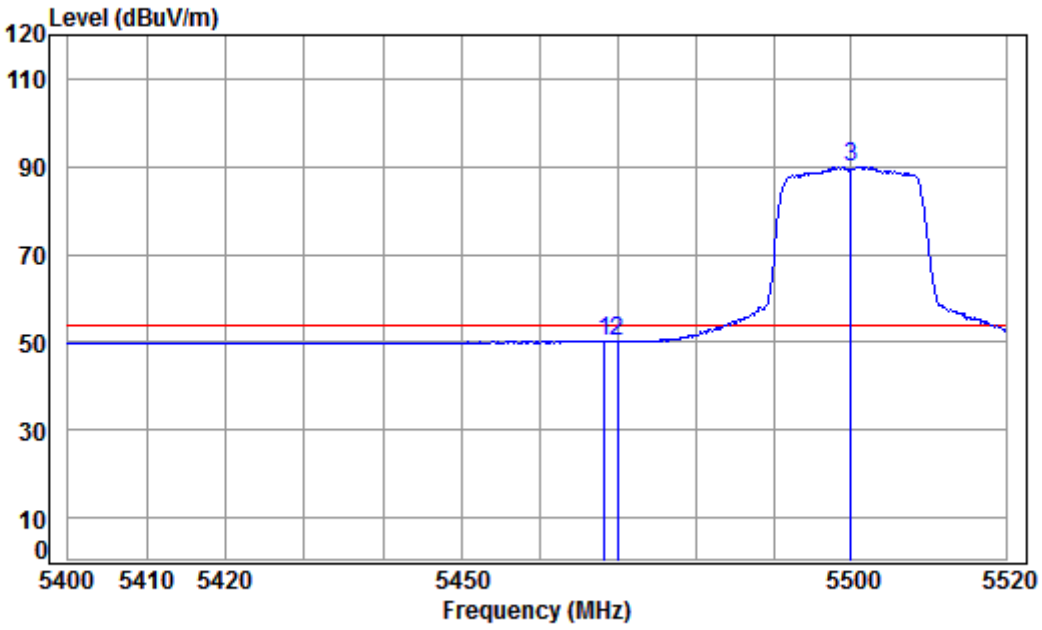
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: Low for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5500 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5468.317	8.23	34.41	38.41	45.96	50.19	54.00	-3.81	Average
2	5470.000	8.24	34.41	38.41	45.92	50.16	54.00	-3.84	Average
3 pp	5500.000	8.25	34.40	38.40	85.84	90.09	54.00	36.09	Average

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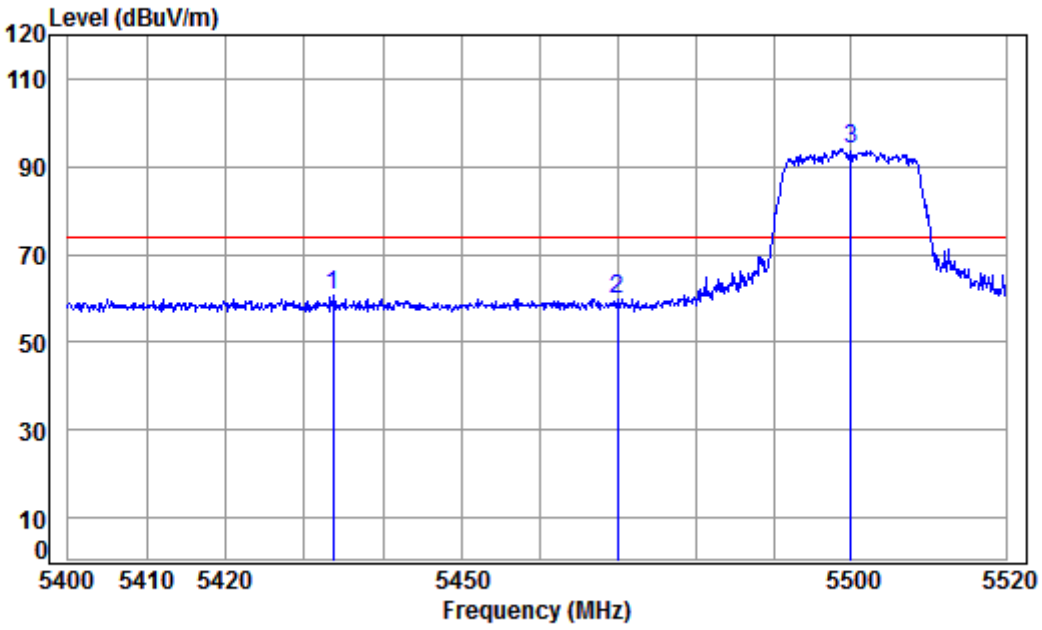
Mode:g; Polarization:Vertical; Modulation Type: 802.11n; Channel: Low for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5500 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5433.693	8.22	34.41	38.41	56.37	60.59	74.00	-13.41	Peak
2	5470.000	8.24	34.41	38.41	55.34	59.58	74.00	-14.42	Peak
3 pp	5500.000	8.25	34.40	38.40	89.62	93.87	74.00	19.87	Peak

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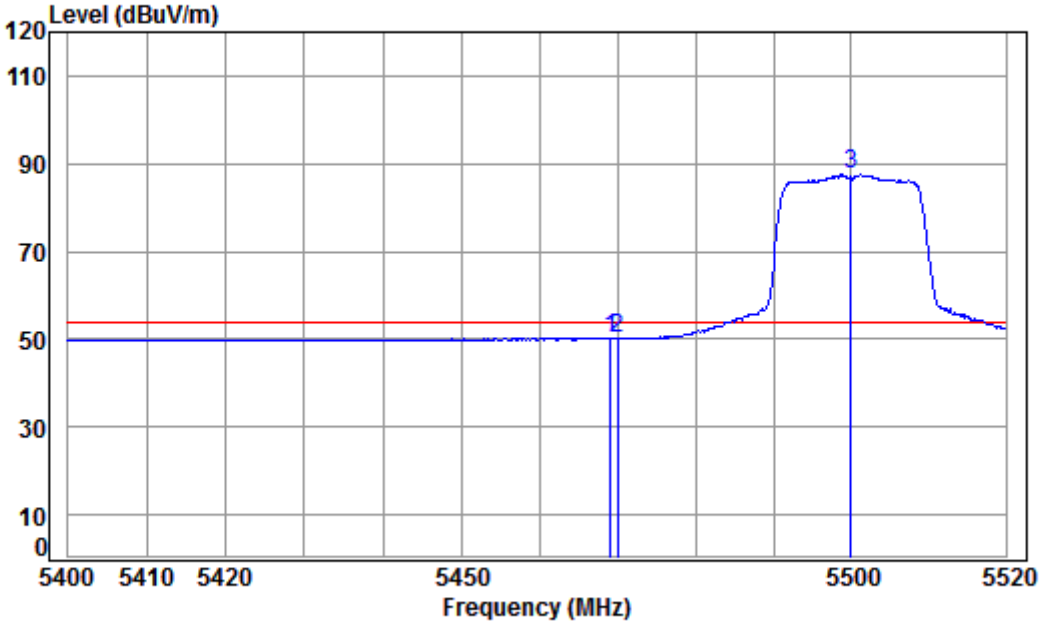
Mode:g; Polarization:Vertical; Modulation Type: 802.11n; Channel: Low for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5500 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5469.038	8.24	34.41	38.41	46.02	50.26	54.00	-3.74	Average
2	5470.000	8.24	34.41	38.41	45.81	50.05	54.00	-3.95	Average
3 pp	5500.000	8.25	34.40	38.40	83.18	87.43	54.00	33.43	Average

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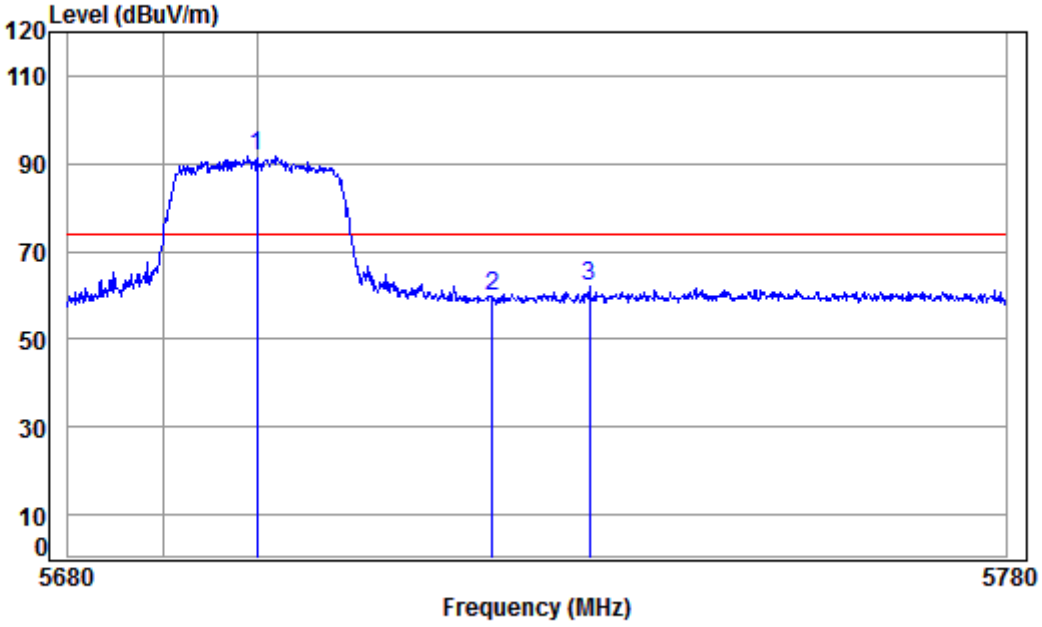
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: High for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5700 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5700.000	8.46	34.52	38.36	87.17	91.79	74.00	17.79	peak
2	5725.000	8.48	34.54	38.35	55.23	59.90	74.00	-14.10	peak
3	5735.384	8.49	34.54	38.35	57.16	61.84	74.00	-12.16	peak

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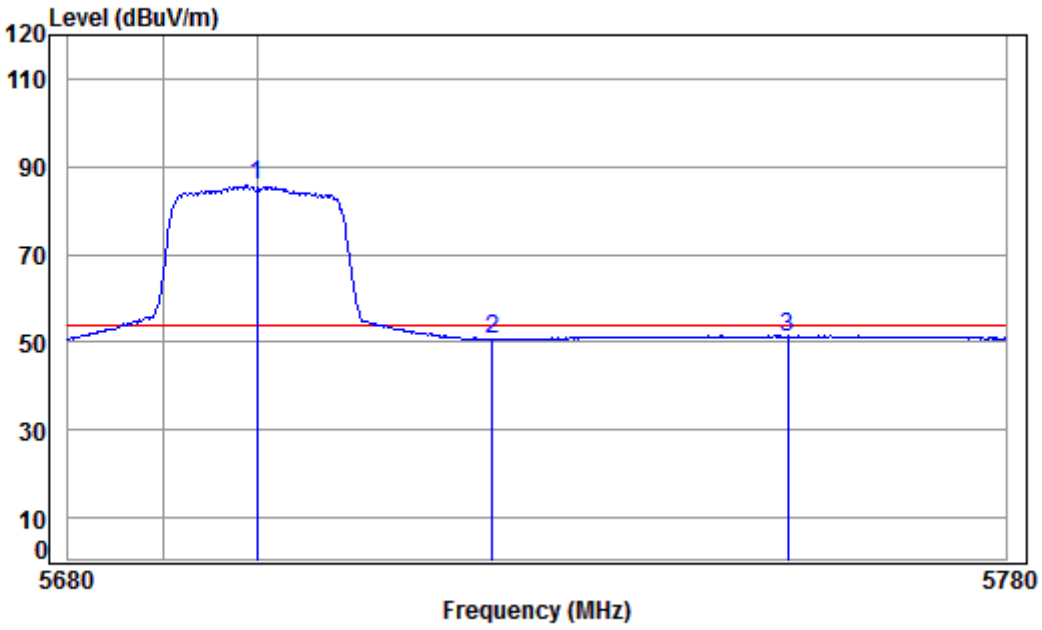
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: High for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5700 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	8.46	34.52	38.36	80.97	85.59	54.00	31.59	Average
2	5725.000	8.48	34.54	38.35	46.06	50.73	54.00	-3.27	Average
3	5756.644	8.51	34.56	38.35	46.25	50.97	54.00	-3.03	Average

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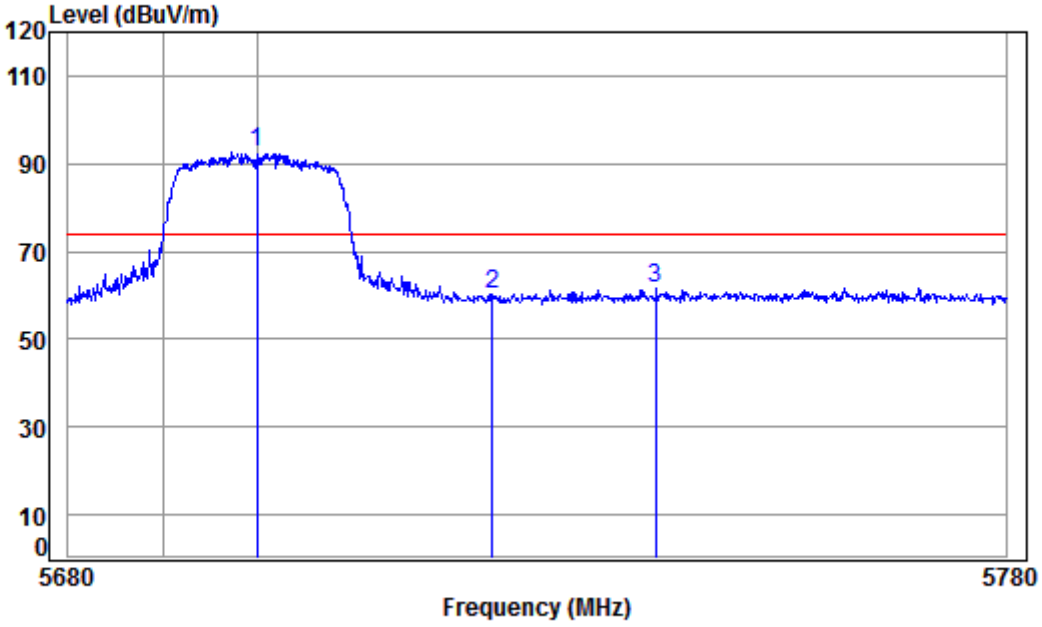
Mode:g; Polarization:Vertical; Modulation Type: 802.11n; Channel: High for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5700 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	8.46	34.52	38.36	88.02	92.64	74.00	18.64	Peak
2	5725.000	8.48	34.54	38.35	55.58	60.25	74.00	-13.75	Peak
3	5742.496	8.50	34.55	38.35	56.87	61.57	74.00	-12.43	Peak

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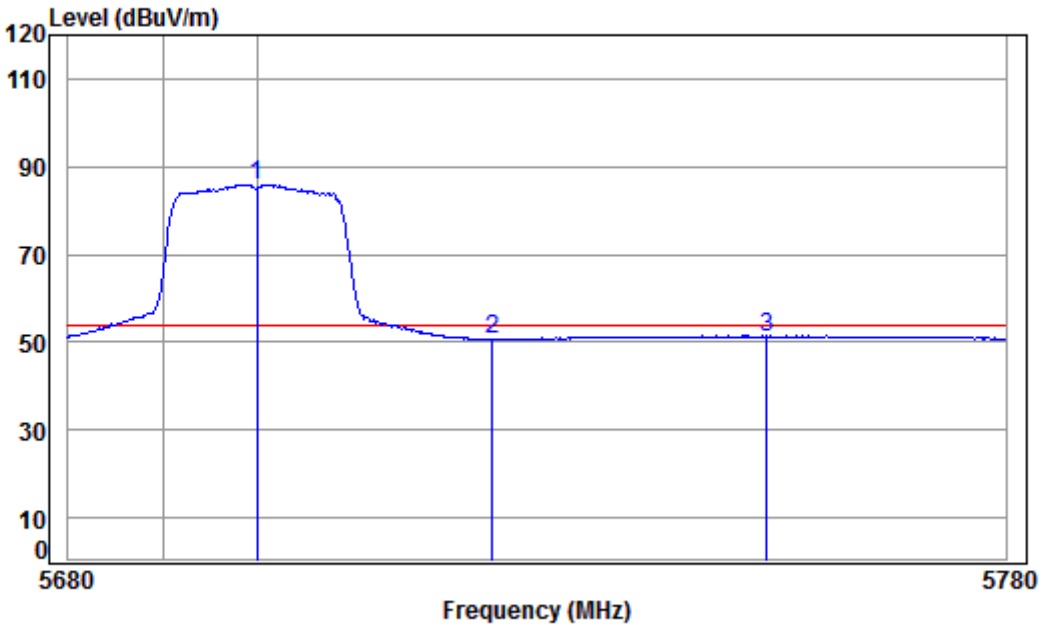
Mode:g; Polarization:Vertical; Modulation Type: 802.11n; Channel: High for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5700 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5700.000	8.46	34.52	38.36	81.33	85.95	54.00	31.95	Average
2	5725.000	8.48	34.54	38.35	46.11	50.78	54.00	-3.22	Average
3	5754.334	8.51	34.56	38.35	46.20	50.92	54.00	-3.08	Average

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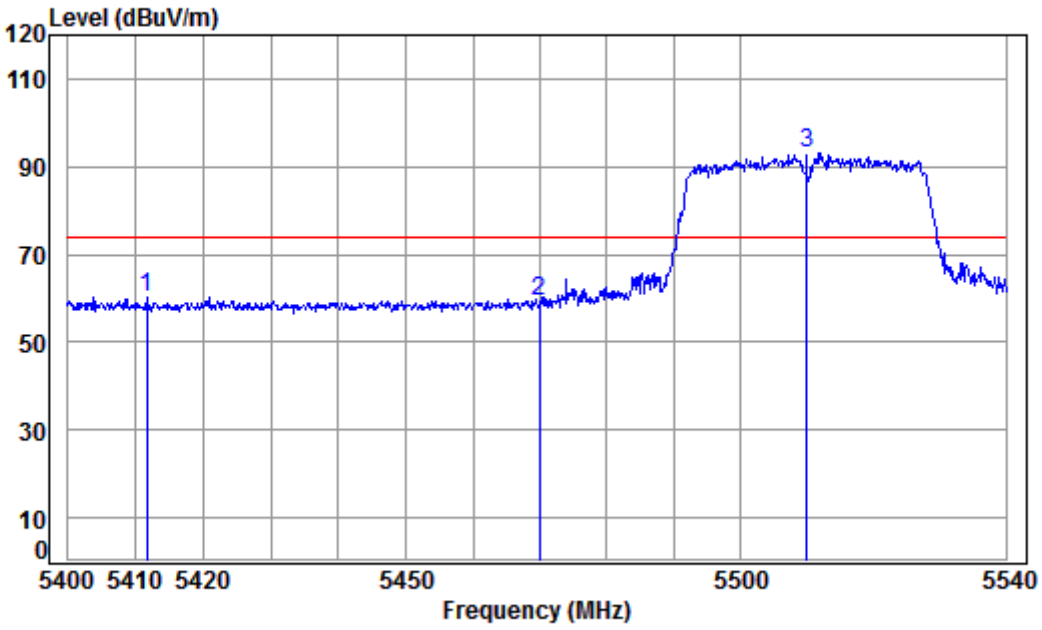
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: Low for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5510 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5411.623	8.21	34.42	38.42	55.96	60.17	74.00	-13.83	peak
2	5470.000	8.24	34.41	38.41	55.08	59.32	74.00	-14.68	peak
3 pp	5510.000	8.26	34.41	38.40	88.70	92.97	74.00	18.97	peak

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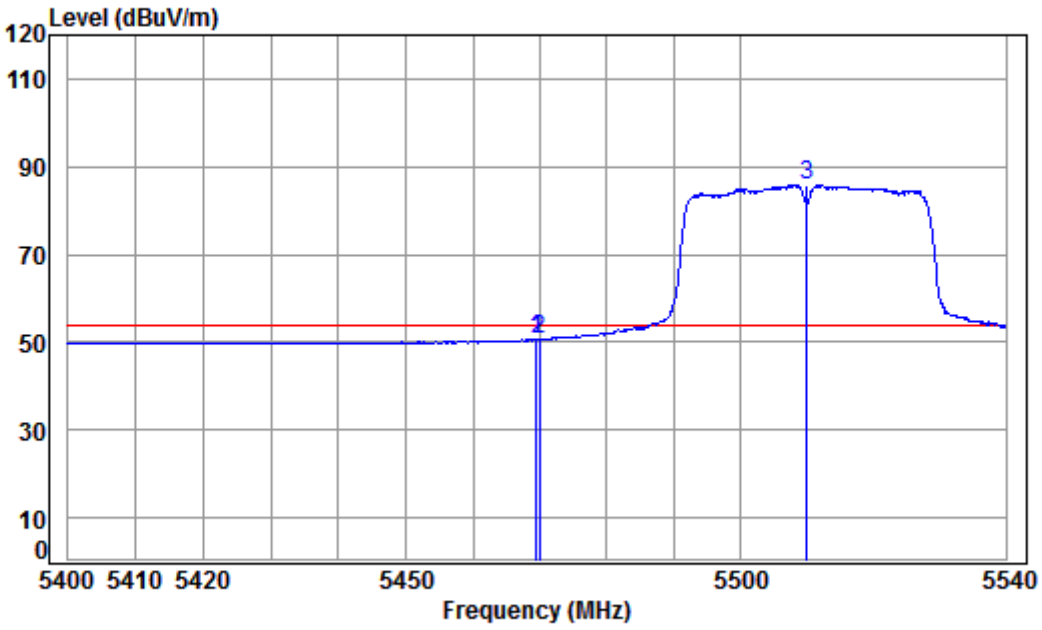
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: Low for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5510 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5469.412	8.24	34.41	38.41	46.38	50.62	54.00	-3.38	Average
2	5470.000	8.24	34.41	38.41	46.34	50.58	54.00	-3.42	Average
3 pp	5510.000	8.26	34.41	38.40	81.60	85.87	54.00	31.87	Average

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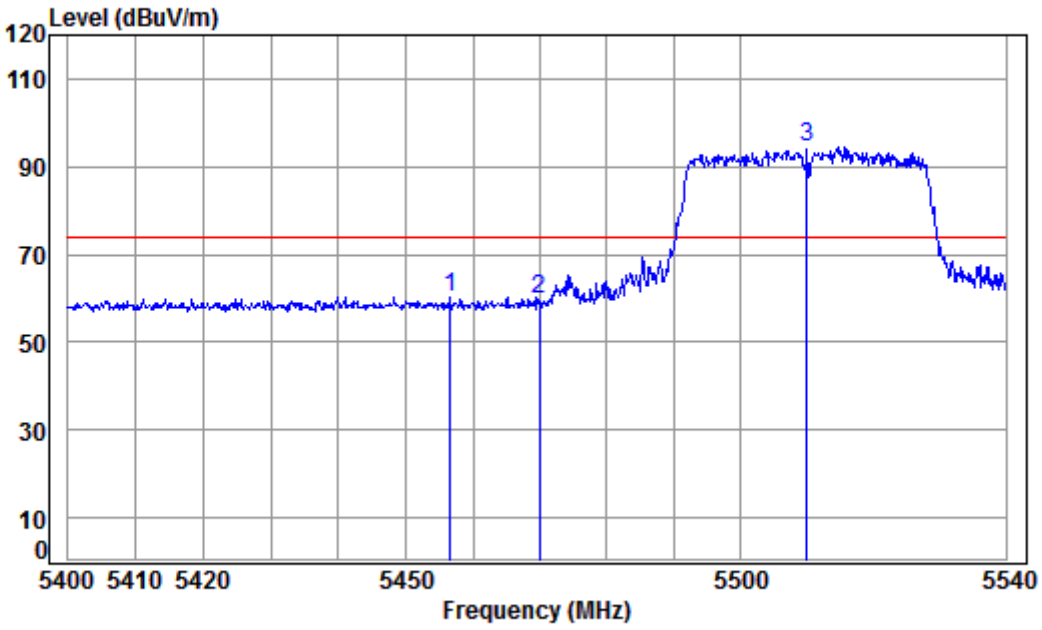
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: Low for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5510 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5456.688	8.23	34.41	38.41	56.15	60.38	74.00	-13.62	Peak
2	5470.000	8.24	34.41	38.41	55.49	59.73	74.00	-14.27	Peak
3 pp	5510.000	8.26	34.41	38.40	90.07	94.34	74.00	20.34	Peak

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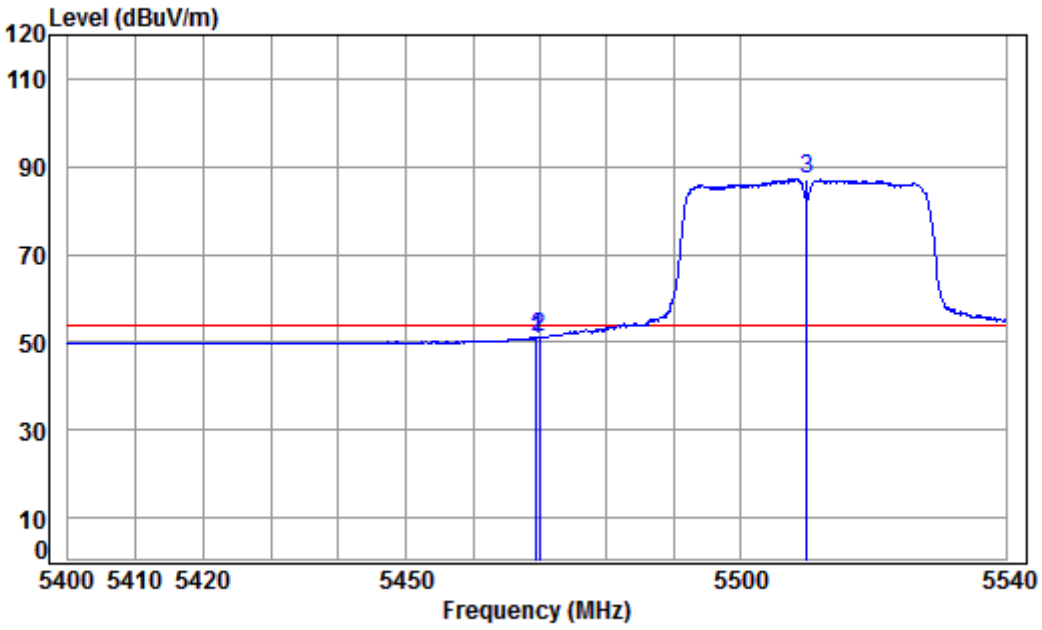
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: Low for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5510 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5469.552	8.24	34.41	38.41	46.52	50.76	54.00	-3.24	Average
2	5470.000	8.24	34.41	38.41	46.72	50.96	54.00	-3.04	Average
3 pp	5510.000	8.26	34.41	38.40	82.80	87.07	54.00	33.07	Average

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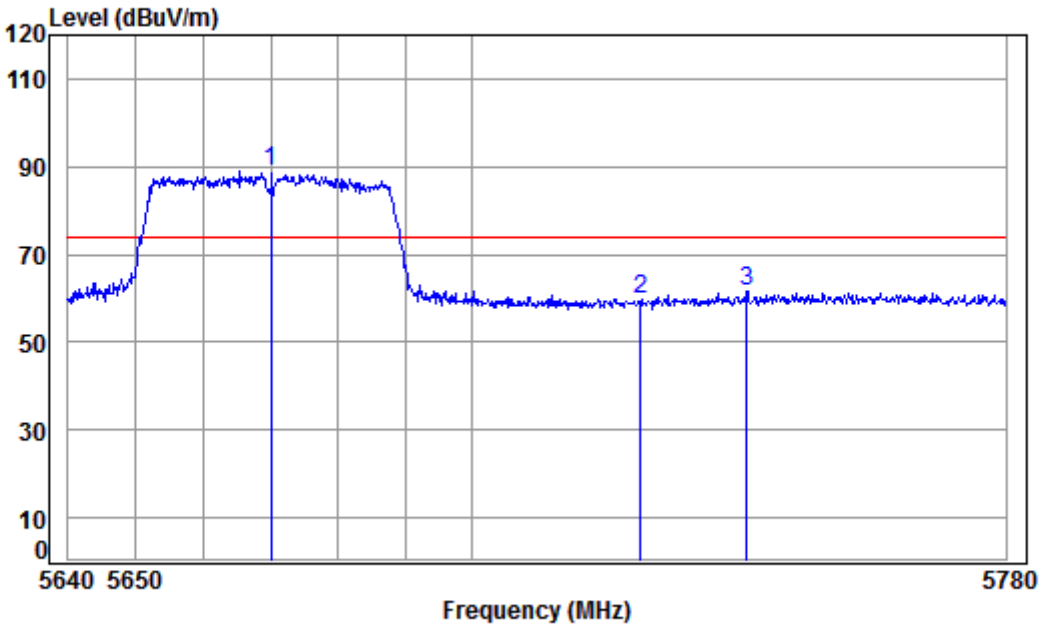
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: High for Peak



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5670 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	8.42	34.50	38.37	84.24	88.79	74.00	14.79	peak
2	5725.000	8.48	34.54	38.35	54.99	59.66	74.00	-14.34	peak
3	5741.017	8.50	34.55	38.35	57.03	61.73	74.00	-12.27	peak

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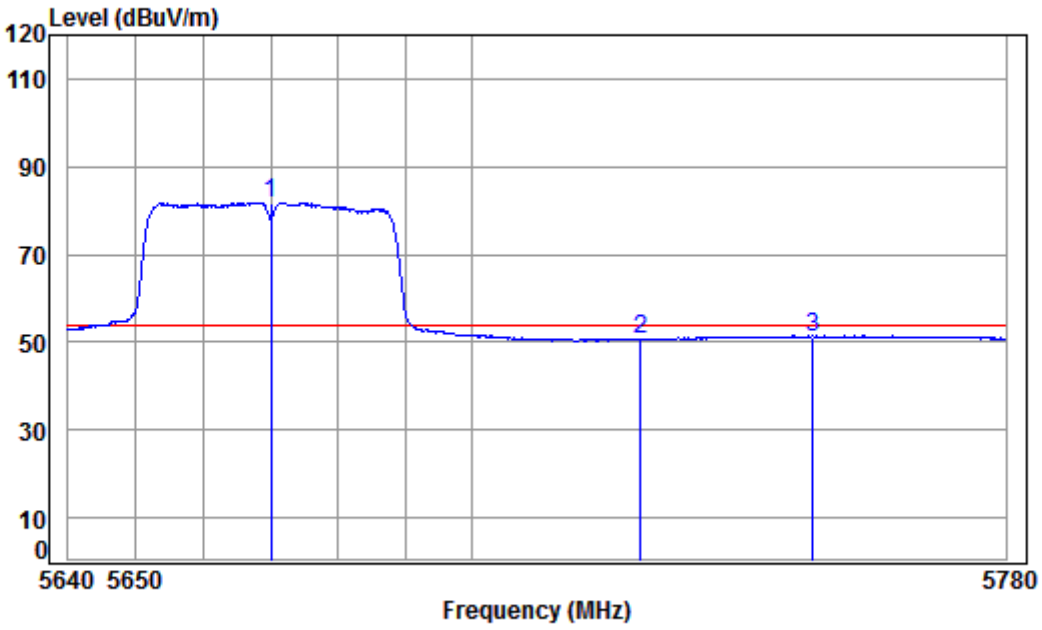
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: High for Average



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5670 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	8.42	34.50	38.37	77.29	81.84	54.00	27.84	Average
2	5725.000	8.48	34.54	38.35	46.00	50.67	54.00	-3.33	Average
3	5750.878	8.51	34.55	38.35	46.25	50.96	54.00	-3.04	Average

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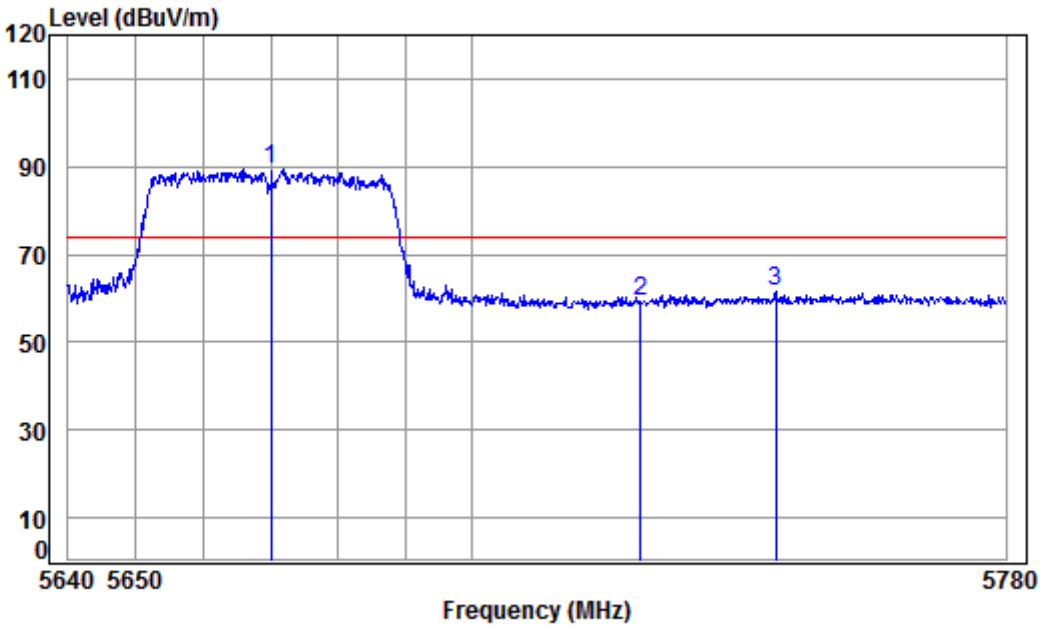
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: High for Peak



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5670 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	8.42	34.50	38.37	84.98	89.53	74.00	15.53	Peak
2	5725.000	8.48	34.54	38.35	54.63	59.30	74.00	-14.70	Peak
3	5745.382	8.50	34.55	38.35	56.89	61.59	74.00	-12.41	Peak

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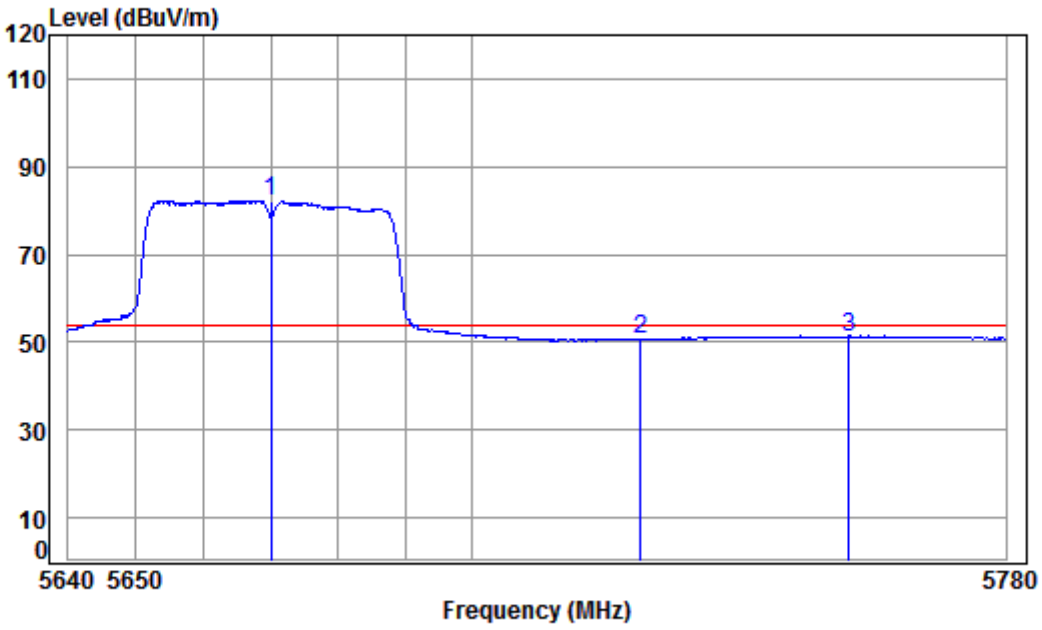
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: High for Average



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5670 Band edge
: WIFI 11N40
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	8.42	34.50	38.37	77.77	82.32	54.00	28.32	Average
2	5725.000	8.48	34.54	38.35	46.01	50.68	54.00	-3.32	Average
3	5756.380	8.51	34.56	38.35	46.23	50.95	54.00	-3.05	Average

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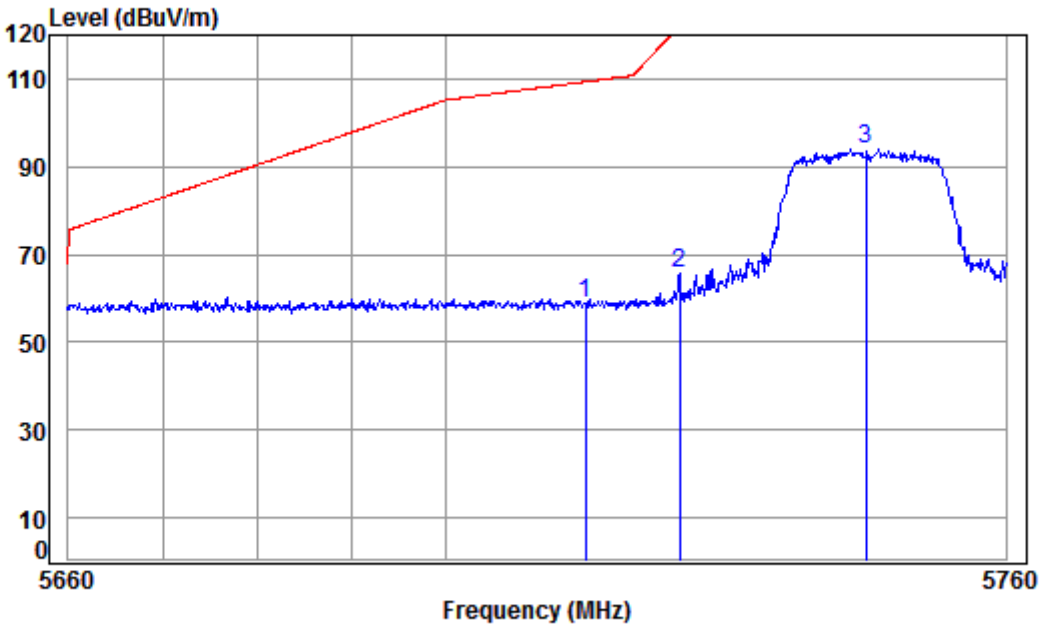
Band4

Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: Low



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5745 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.53	38.36	54.13	58.77	109.40	-50.63	peak
2	5725.000	8.48	34.54	38.35	61.11	65.78	122.20	-56.42	peak
3 pp	5745.000	8.50	34.55	38.35	89.17	93.87	125.20	-31.33	peak

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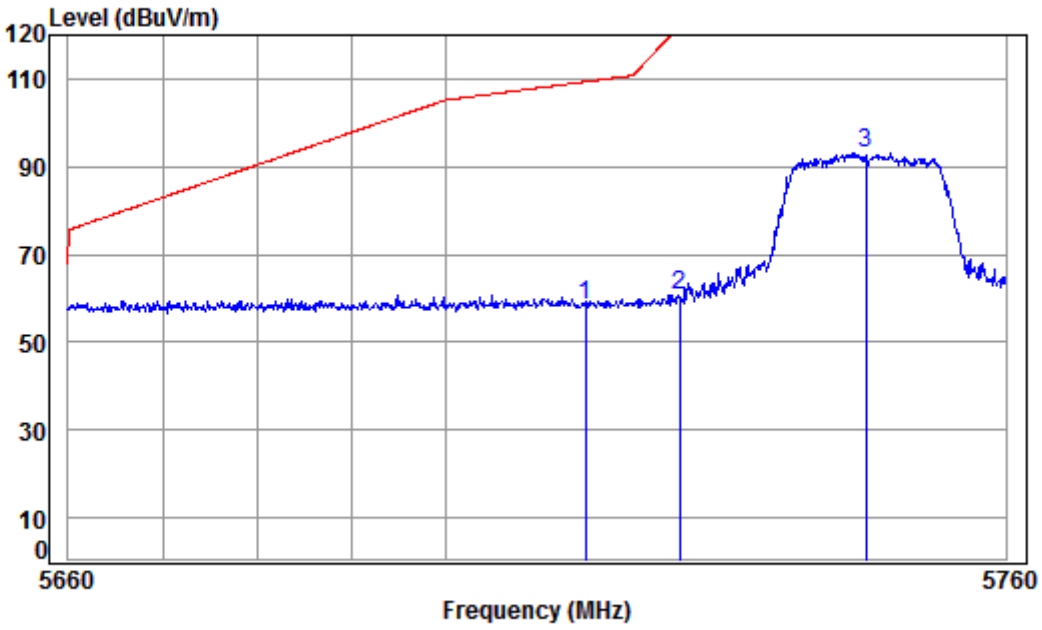
Mode:g; Polarization:Vertical; Modulation Type: 802.11a; Channel: Low



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5745 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.53	38.36	53.64	58.28	109.40	-51.12	peak
2	5725.000	8.48	34.54	38.35	55.95	60.62	122.20	-61.58	peak
3 pp	5745.000	8.50	34.55	38.35	88.45	93.15	125.20	-32.05	peak

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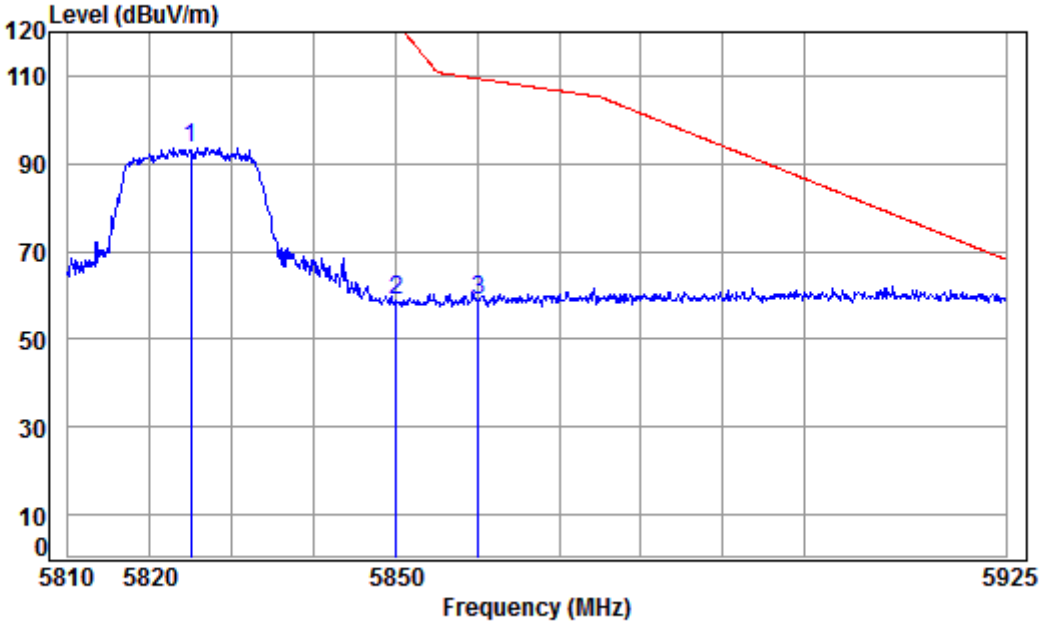
Mode:g; Polarization:Horizontal; Modulation Type:802.11a; Channel: High



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5825 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5825.000	8.58	34.60	38.33	88.78	93.63	125.20	-31.57	peak
2	5850.000	8.60	34.61	38.33	53.76	58.64	122.20	-63.56	peak
3	5860.000	8.61	34.62	38.33	54.12	59.02	109.40	-50.38	peak

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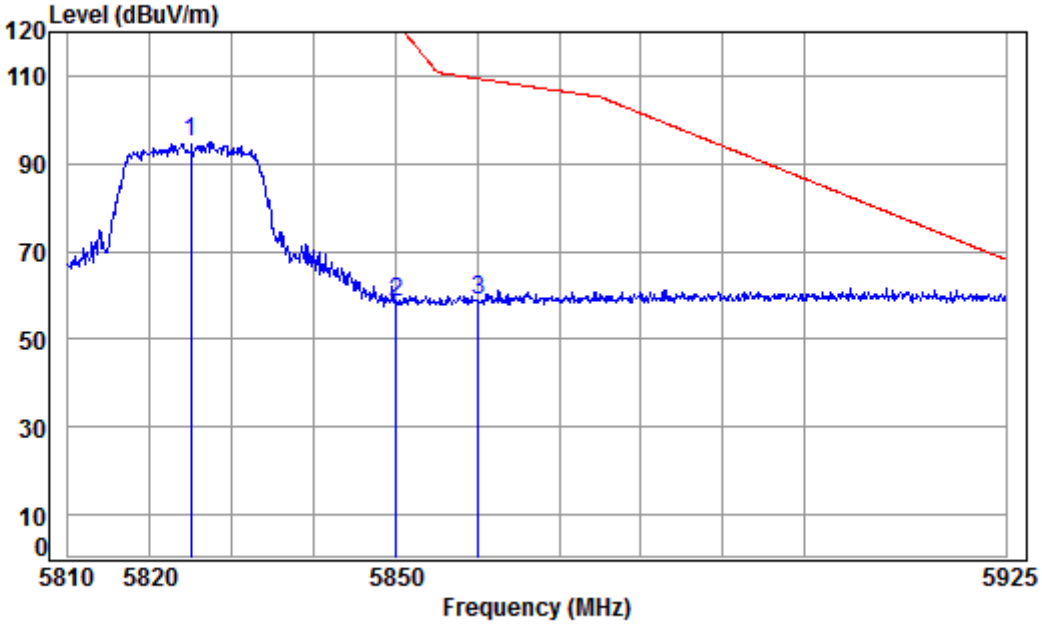
Mode:g; Polarization:Vertical; Modulation Type: 802.11a; Channel: High



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5825 Band edge
: WIFI 11A
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5825.000	8.58	34.60	38.33	90.15	95.00	125.20	-30.20	peak
2	5850.000	8.60	34.61	38.33	53.69	58.57	122.20	-63.63	peak
3	5860.000	8.61	34.62	38.33	53.92	58.82	109.40	-50.58	peak

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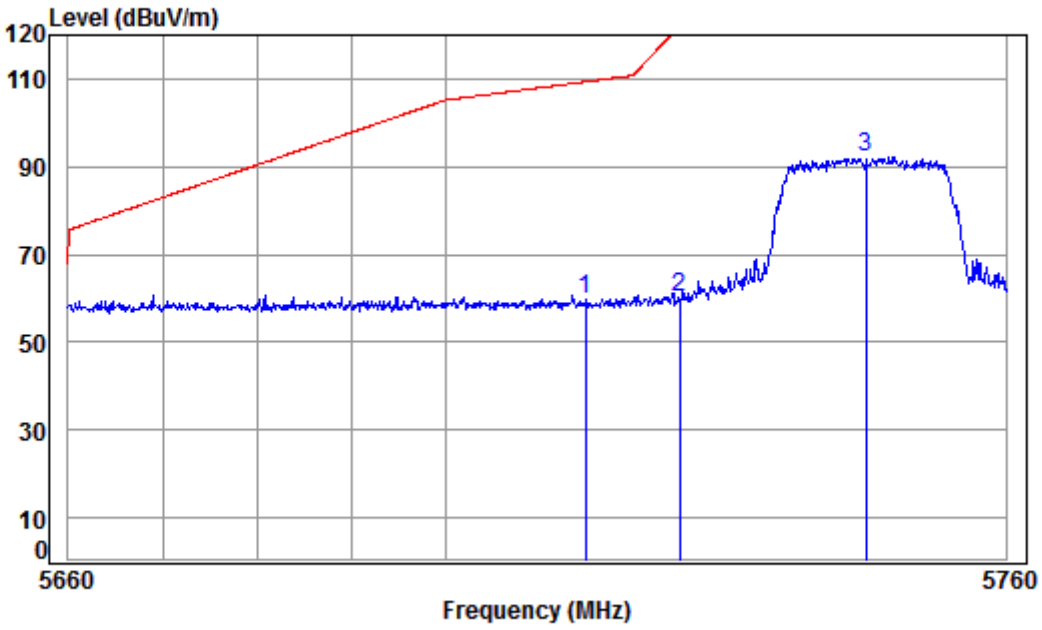
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: Low



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5745 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.53	38.36	55.11	59.75	109.40	-49.65	peak
2	5725.000	8.48	34.54	38.35	55.56	60.23	122.20	-61.97	peak
3 pp	5745.000	8.50	34.55	38.35	87.62	92.32	125.20	-32.88	peak

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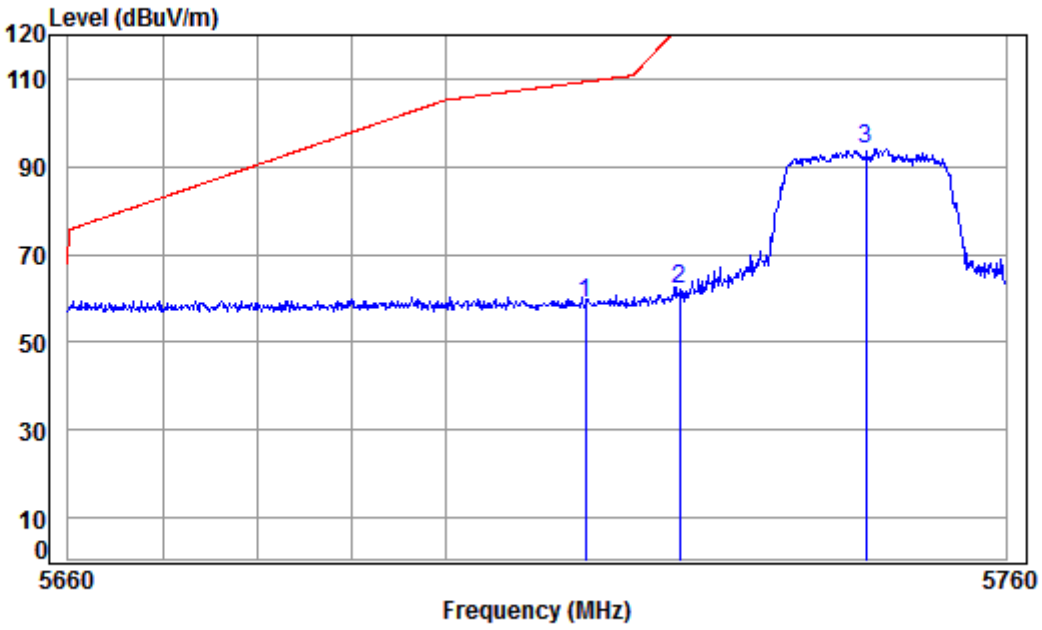
Mode:g; Polarization:Vertical; Modulation Type: 802.11n; Channel: Low



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5745 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.53	38.36	54.18	58.82	109.40	-50.58	peak
2	5725.000	8.48	34.54	38.35	57.33	62.00	122.20	-60.20	peak
3 pp	5745.000	8.50	34.55	38.35	89.34	94.04	125.20	-31.16	peak

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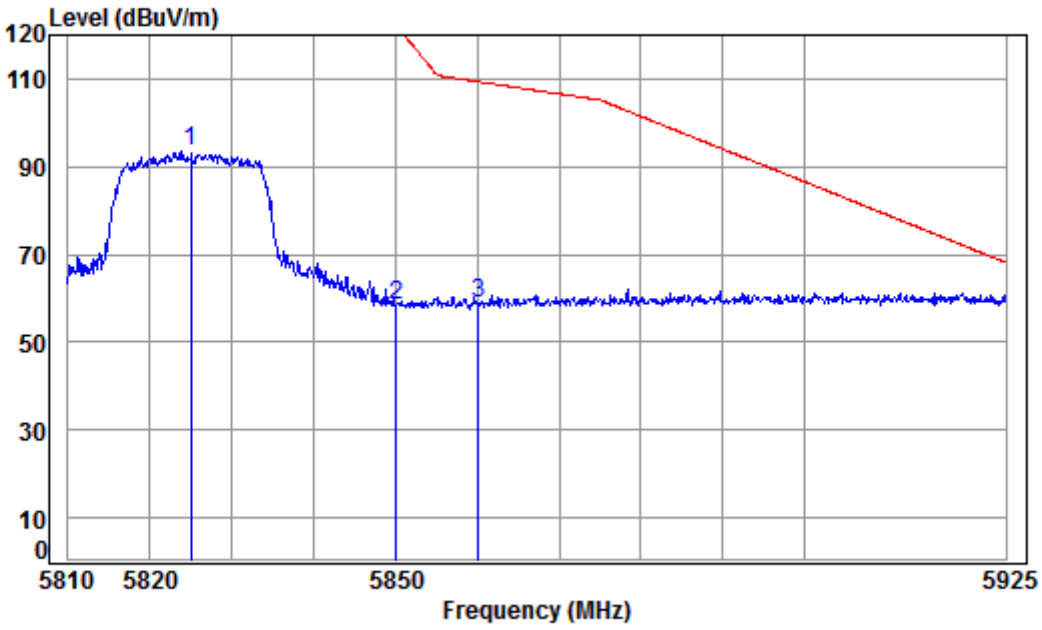
Mode:g; Polarization:Horizontal; Modulation Type:802.11n; Channel: High



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5825 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5825.000	8.58	34.60	38.33	88.54	93.39	125.20	-31.81	peak
2	5850.000	8.60	34.61	38.33	53.49	58.37	122.20	-63.83	peak
3	5860.000	8.61	34.62	38.33	53.97	58.87	109.40	-50.53	peak

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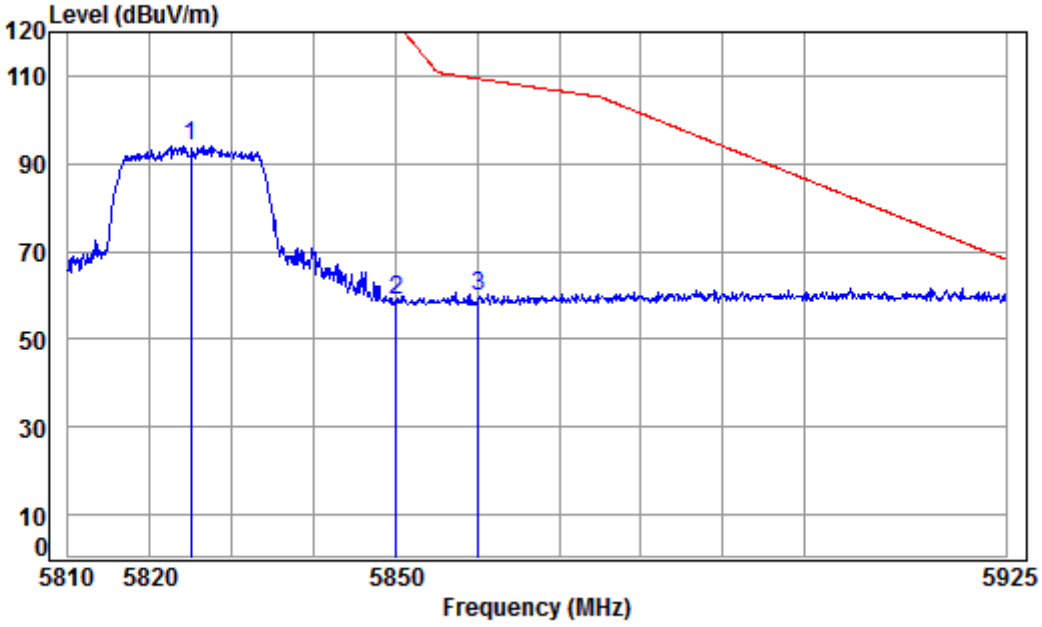
Mode:g; Polarization:Vertical; Modulation Type: 802.11n; Channel: High



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5825 Band edge
: WIFI 11N20
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5825.000	8.58	34.60	38.33	89.27	94.12	125.20	-31.08	peak
2	5850.000	8.60	34.61	38.33	53.93	58.81	122.20	-63.39	peak
3	5860.000	8.61	34.62	38.33	54.87	59.77	109.40	-49.63	peak

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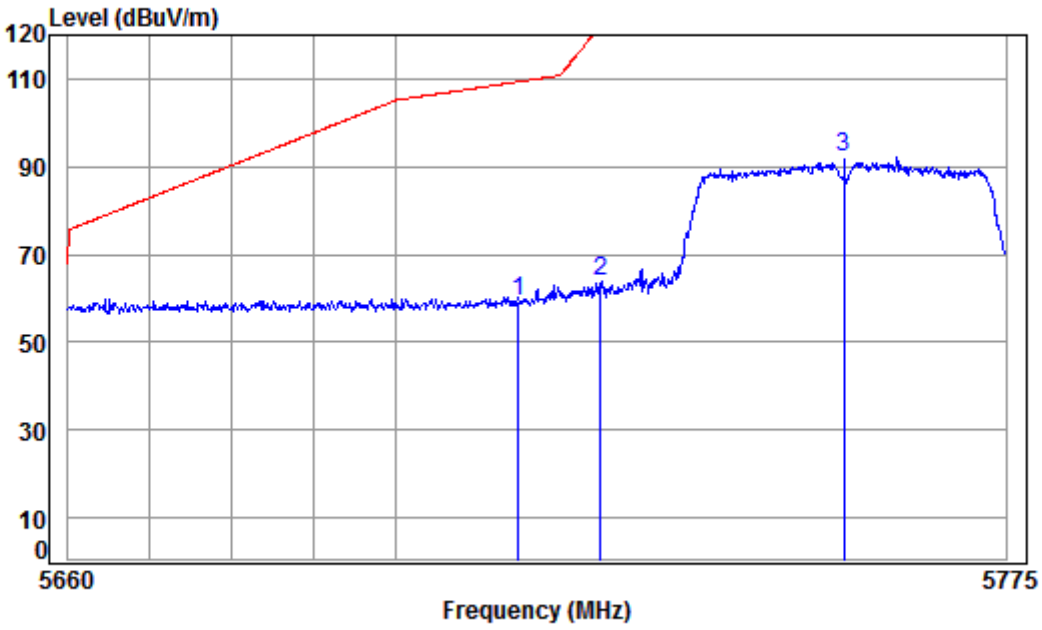
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: Low



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5755 Band edge
: WIFI 1140
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.53	38.36	54.83	59.47	109.40	-49.93	peak
2	5725.000	8.48	34.54	38.35	59.05	63.72	122.20	-58.48	peak
3 pp	5755.000	8.51	34.56	38.35	87.30	92.02	125.20	-33.18	peak

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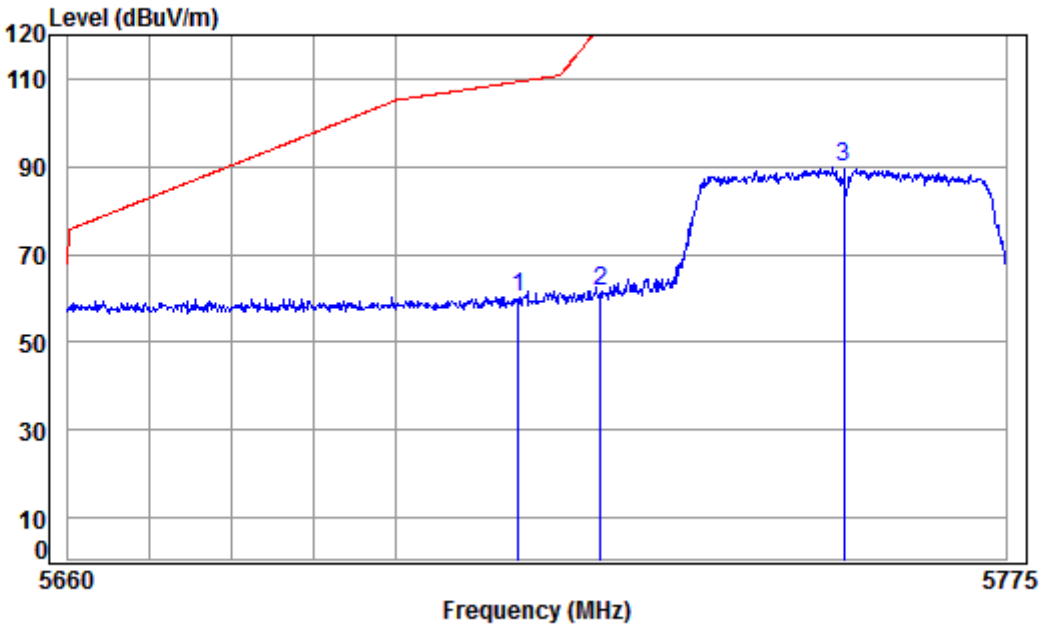
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: Low



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5755 Band edge
: WIFI 1140
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.53	38.36	55.48	60.12	109.40	-49.28	peak
2	5725.000	8.48	34.54	38.35	57.01	61.68	122.20	-60.52	peak
3 pp	5755.000	8.51	34.56	38.35	85.28	90.00	125.20	-35.20	peak

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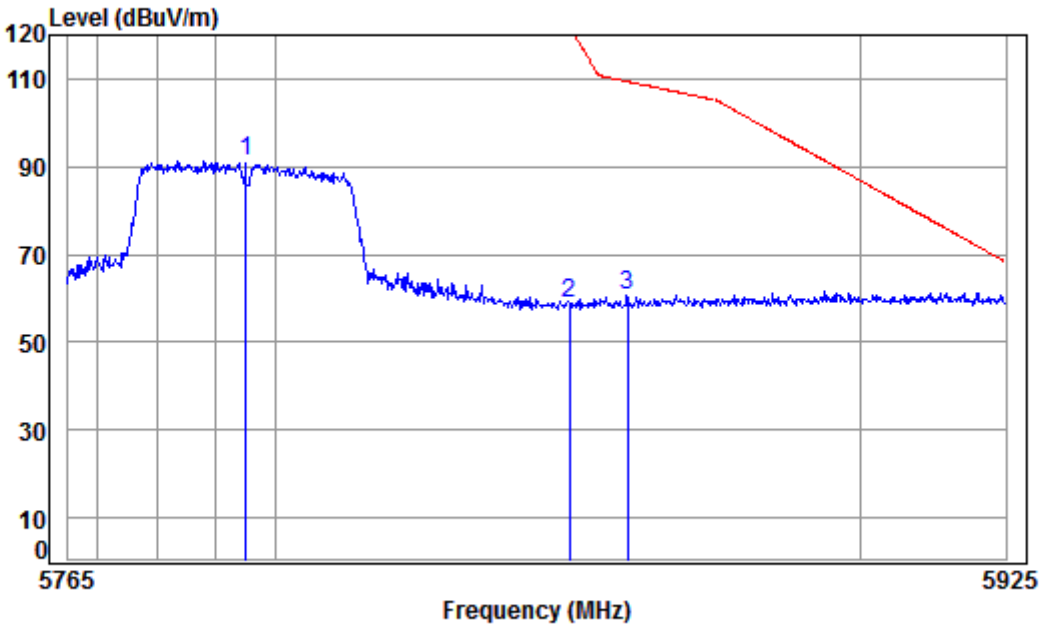
Mode:g; Polarization:Horizontal; Modulation Type:802.11n HT40; Channel: High



Condition: 3m HORIZONTAL
Job No: : 04503CR
Mode: : 5795 Band edge
: WIFI 1140
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5795.000	8.55	34.58	38.34	86.63	91.42	125.20	-33.78	peak
2	5850.000	8.60	34.61	38.33	53.81	58.69	122.20	-63.51	peak
3	5860.000	8.61	34.62	38.33	55.58	60.48	109.40	-48.92	peak

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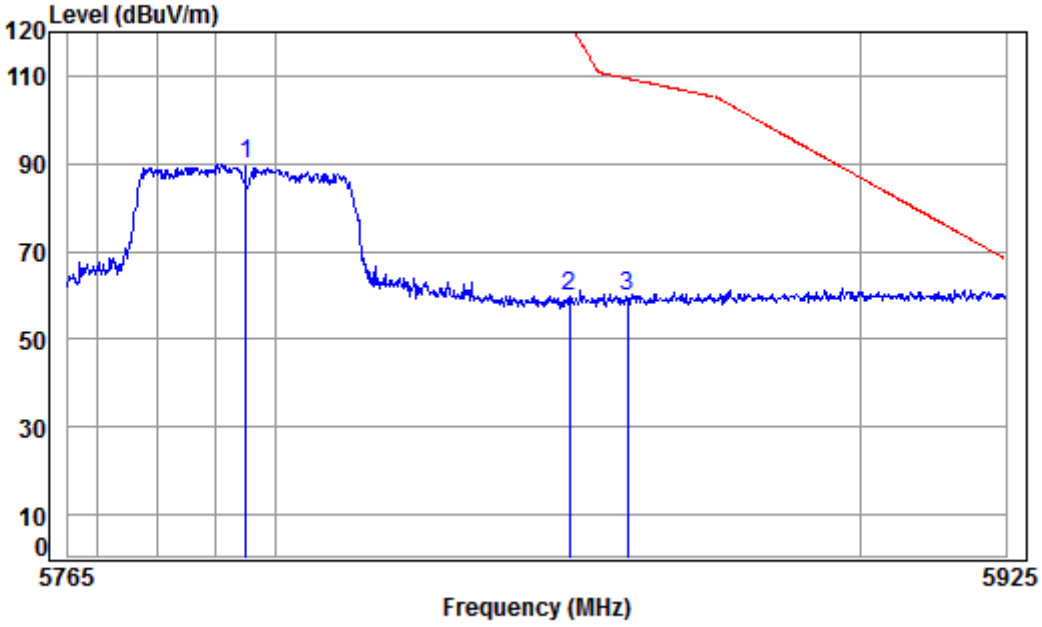
Mode:g; Polarization:Vertical; Modulation Type:802.11n HT40; Channel: High



Condition: 3m VERTICAL
Job No: : 04503CR
Mode: : 5795 Band edge
: WIFI 1140
: Powersetting 23

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5795.000	8.55	34.58	38.34	85.02	89.81	125.20	-35.39	peak
2	5850.000	8.60	34.61	38.33	54.73	59.61	122.20	-62.59	peak
3	5860.000	8.61	34.62	38.33	54.79	59.69	109.40	-49.71	peak

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7.11 Frequency Stability

Test Requirement	47 CFR Part 15, Subpart E 15.407 (g)
Test Method:	ANSI C63.10 (2013) Section 6.8
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

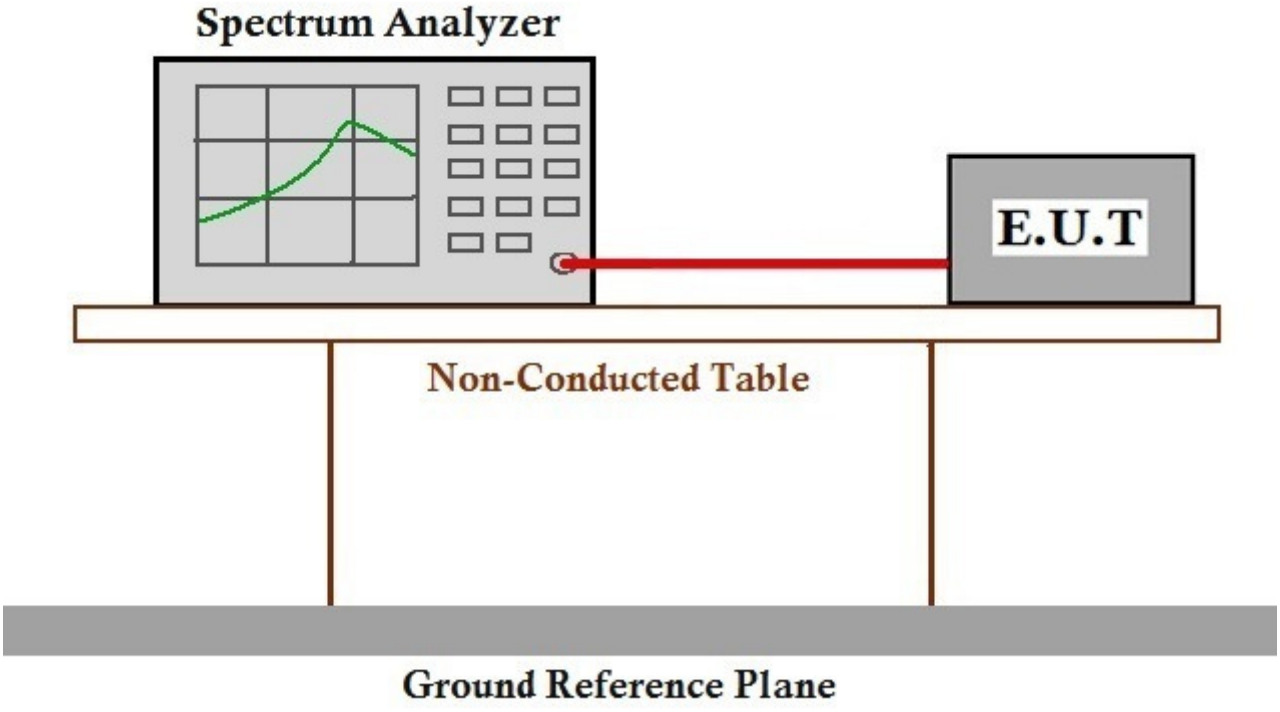
7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 56 % RH Atmospheric Pressure: 1010 mbar

Pretest these mode to find the worst case:	f: TX mode (Band I/II-A/II-C/III)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report. g: Charge + TX mode (I/II-A/II-C/III)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.
The worst case for final test:	f: TX mode (Band I/II-A/II-C/III)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20/HT40). Only the data of worst case is recorded in the report.

7.11.2 Test Setup Diagram



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7.11.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407

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8 Photographs

8.1 Conducted Emissions at AC Power Line (150kHz-30MHz) Test Setup

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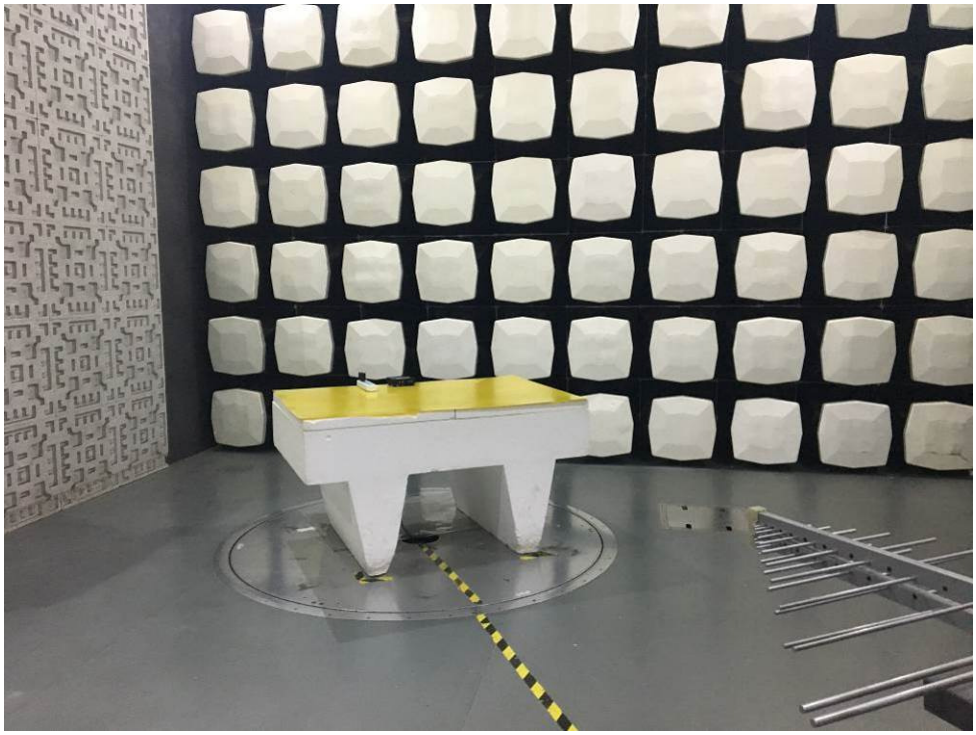
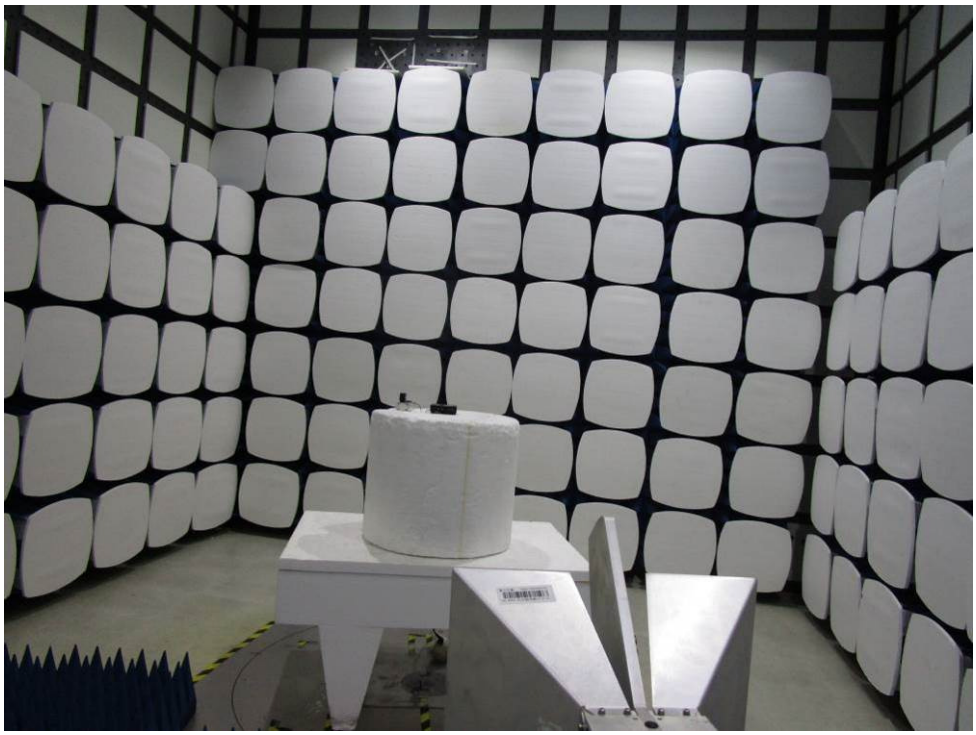
8.2 Radiated Spurious Emissions Test Setup





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8.3 DFS Test Setup

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