



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China
Telephone: +86 (0) 21 6191 5666
Fax: +86 (0) 21 6191 5678
ee.shanghai@sgs.com

Report No.: SHEM180300161601
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1 Cover Page

RF TEST REPORT

Application No.:	SHEM1803001616CR
Applicant:	Hangzhou Hikvision Digital Technology Co., Ltd.
FCC ID:	2ADTD-KB6003
Equipment Under Test (EUT):	
NOTE: The following sample(s) was/were submitted and identified by the client as	
Product Name:	Wi-Fi Video Doorbell
Model No.(EUT):	DS-KB6003-WIP, DS-KB6403-WIP
Add Model No.:	CVP-B2DB50-ODIW, DS-KB6003-WIP/OEM2, DS-KB6003-WIP/OEM3, NA-KB6013-WIP
Standards:	FCC PART 15 Subpart C
Date of Receipt:	2017-03-16
Date of Test:	2017-03-27 to 2017-03-28 & 2018-03-05
Date of Issue:	2018-03-14
Test Result:	Pass*

*In the configuration tested, the EUT detailed in this report complied with the standards specified above.

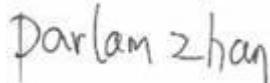


Parlam Zhan
E&E Section Manager
SGS-CSTC (Shanghai) Co., Ltd.

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	Remark
00	Updated Product	2018-03-14	Base on SHEMA170300132703

Authorized for issue by:				
		 _____ Vincent Zhu /Project Engineer		
		 _____ Parlam Zhan /Reviewer		

2 Test Summary

Test Item	FCC Requirement	Test method	Result
Conducted Peak Output Power	FCC Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 (2013) Section 11.9.1.2	PASS
Radiated Spurious Emissions and Band-edge	FCC Part 15, Subpart C Section 15.209&15.205	ANSI C63.10 (2013) Section 6.4&6.5&6.6&6.10	PASS

Note1: We add model DS-KB6403-WIP in this report, and added test 2 item in test summary.

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4 General Information

4.1 Client Information

Applicant:	Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Applicant:	No. 555 Qianmo Road, Binjiang District, Hangzhou 310052, China
Manufacturer:	Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Manufacturer:	No. 555 Qianmo Road, Binjiang District, Hangzhou 310052, China
Factory:	1. Hangzhou Hikvision Technology Co., Ltd. 2. Hangzhou Hikvision Electronics Co., Ltd.
Address of Factory:	1. No.700, Dongliu Road, Binjiang District, Hangzhou Ctiy,Zhejiang, 310052, China 2. No.299, Qiushi Road,Tonglu Economic Development Zone,Tonglu County, Hangzhou,Zhejiang,310052,China.

4.2 General Description of E.U.T.

Product Description:	Fixed product with 2.4G WiFi function
Brand Name:	HIKVISION
EUT Power Supply:	AC 16V~24V, 0.37A or DC 12V 0.5A
Test Voltage:	AC 24V and DC 12V from Support Units

4.3 Technical Specifications

Operation Frequency:	802.11 b/g/n(HT20): 2412MHz~2462MHz 802.11 n(HT40): 2422MHz~2452MHz
Modulation Technique:	802.11 b: DSSS(CCK, DQPSK, DBPSK) 802.11 g/n(HT20/n(HT40): OFDM(64QAM, 16QAM, QPSK, BPSK)
Data Rate:	802.11 b: 1/2/5.5/11Mbps 802.11 g: 6/9/12/18/24/36/48/54Mbps 802.11n(HT20)/n(HT40): MCS0-MCS7
Number of Channel:	802.11 b/g/n(HT20): 11 802.11 n(HT40): 7
Antenna Type:	Integral
Antenna Gain:	3.5 dBi

4.4 Test Mode

Test Mode	Description of Test Mode
Engineering mode	Using test software to control EUT working in continuous transmitting in max power level

4.5 Test Channel

	802.11 b/g/n20(HT20)						802.11 n40(HT40)		
	Channel	Frequency	Data rate			Channel	Frequency	Data rate	
			b	g	n(HT20)				
lowest channel	CH01	2412MHz	1Mbps	6Mbps	MCS0	CH03	2422MHz	MCS0	
Middle channel	CH06	2437MHz	1Mbps	6Mbps	MCS0	CH06	2437MHz	MCS0	
Highest channel	CH11	2462MHz	1Mbps	6Mbps	MCS0	CH09	2452MHz	MCS0	

Remark: Preliminary tests were performed in all tests in different data rates and antenna configurations at lowest channel, the data rates of worse case as above were chosen for final test.

4.6 Description of Support Units

The EUT has been tested with support equipments as below.

Description	Manufacturer	Model No.	Supplied By
Laptop	Lenovo	ThinkPad X100e	SGS
Serial port adapter plate	/	Test Plate 3	SGS
Voltage regulator	DEBAO	TDGC 2	SGS
Adapter	DVE	DSA-12G-12FEU	Client

Parameter of power:

Power:	Rated Input:	AC 220V	
	Rated Output:	AC 0~250V	
	Cable length:	AC port:	80 cm (2 wires)
		DC port:	50 cm

Adapter:	Rated Input:	AC 100~240V, 50/60Hz 0.3A	
	Rated Output:	DC 12V 1.0A	
	Cable length:	AC port:	2 wires
		DC port:	150 cm

Software name	Manufacturer	Version	Supplied By
SecureCRT	VanDyke	V 6.2.0	SGS

4.7 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China
Tel: +86 21 6191 5666
Fax: +86 21 6191 5678

4.8 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. 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.

- **NVLAP (Certificate No. 201034-0)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

- **FCC –Designation Number: CN5033**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868, C-4336, T-12221, G-10830 respectively.

4.9 Measurement Uncertainty

No.	Parameter	Measurement Uncertainty
1	Radio Frequency	< ±1 x 10 ⁻⁵
2	Total RF power, conducted	< ±1.5 dB
3	RF power density, conducted	< ±3 dB
4	Spurious emissions, conducted	< ±3 dB
5	All emissions, radiated	< ±6 dB (Below 1GHz) < ±6 dB (Above 1GHz)
6	Temperature	< ±1°C
7	Humidity	< ±5 %
8	DC and low frequency voltages	< ±3 %

5 Equipments Used during Test

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Conducted Emission at AC Power Line					
EMI test receiver	R&S	ESR7	SHEM162-1	2017-12-20	2018-12-19
LISN	Schwarzbeck	NSLK8127	SHEM061-1	2017-12-20	2018-12-19
LISN	EMCO	3816/2	SHEM019-1	2017-12-20	2018-12-19
Pulse limiter	R&S	ESH3-Z2	SHEM029-1	2017-12-20	2018-12-19
CE test Cable	/	CE01	/	2017-12-26	2018-12-25
Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2017-09-26	2018-09-25
Power meter	R&S	NRP	SHEM057-1	2017-12-26	2018-12-25
Power Sensor	R&S	NRP-Z22	SHEM136-1	2017-07-22	2018-07-21
Power Sensor	R&S	NRP-Z91	SHEM057-2	2017-12-26	2018-12-25
Signal Generator	R&S	SMR40	SHEM058-1	2017-07-03	2018-07-02
Signal Generator	Agilent	N5182A	SHEM182-1	2017-09-26	2018-09-25
Communication Tester	R&S	CMW270	SHEM183-1	2017-10-22	2018-10-21
Switcher	Tonscend	JS0806	SHEM184-1	2017-09-26	2018-09-25
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2017-09-26	2018-09-25
AC Power Stabilizer	WOCEN	6100	SHEM045-1	2017-12-26	2018-12-25
DC Power Supply	QJE	QJ30003SII	SHEM046-1	2017-12-26	2018-12-25
Conducted test Cable	/	RF01, RF 02	/	2017-12-26	2018-12-25
Radiated Test					
EMI test receiver	R&S	ESU40	SHEM051-1	2017-12-20	2018-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2017-04-10	2020-04-09
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2017-02-28	2020-02-27
Antenna (25MHz-3GHz)	Schwarzbeck	HL562	SHEM010-1	2017-02-28	2020-02-27
Horn Antenna (1-8GHz)	Schwarzbeck	HF906	SHEM009-1	2017-10-24	2020-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2017-01-14	2020-01-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2017-12-03	2020-12-02
Pre-amplifier (9KHz-2GHz)	CLAVIIO	BDLNA-0001-412010	SHEM164-1	2017-08-22	2018-08-21
Pre-amplifier (1-18GHz)	CLAVIIO	BDLNA-0118-352810	SHEM050-2	2017-08-22	2018-08-21
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2017-12-20	2018-12-19
Band filter	LORCH	9BRX-875/X150-SR	SHEM156-1	/	/
Band filter	LORCH	13BRX-1950/X500-SR	SHEM083-2	/	/
Band filter	LORCH	5BRX-2400/X200-SR	SHEM155-1	/	/
Band filter	LORCH	5BRX-5500/X1000-SR	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G-100SS	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700-3SS	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2020-07-21
RE test Cable	/	RE01, RE02, RE06	/	2017-12-26	2018-12-25

6 Test Results

6.1 E.U.T. test conditions

Requirements: 15.31(e) For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

Operating Environment:	Temperature:	20.0 -25.0 °C
	Humidity:	35-75 % RH
	Atmospheric Pressure:	99.2 -102 kPa

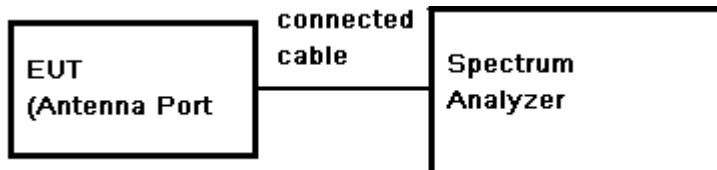
Test frequencies: According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

Pursuant to Part 15.31(c) For swept frequency equipment, measurements shall be made with the frequency sweep stopped at those frequencies chosen for the measurements to be reported.

6.2 Conducted Average Output Power

Test Configuration:



Test Procedure:

- 1) Place the EUT on the table and set it in transmitting mode.
- 2) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum.
- 3) Set the spectrum analyzer as $RBW=1\text{MHz}$, $VBW \geq 3^* RBW$, $\text{Detector}=\text{RMS}$, $\text{Span} \geq 1.5 \times \text{DTS bandwidth}$, $\text{Trace mode}=\text{Max hold}$, $\text{Sweep}=\text{Auto couple}$
- 4) Allow trace to fully stabilize.
- 5) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges
- 6) Record the max. Power channel reading.
- 7) Repeat above procedures until all the frequency measured were complete.

Test Limit: 30dBm

Test Result: Pass

Test Data: Refer to Appendix A for SHEM1803001616CR

6.3 Radiated Spurious Emissions and Band-edge

Frequency Range: 9KHz to 25GHz

Test site/setup: Measurement Distance: 3m
Test instrumentation set-up:

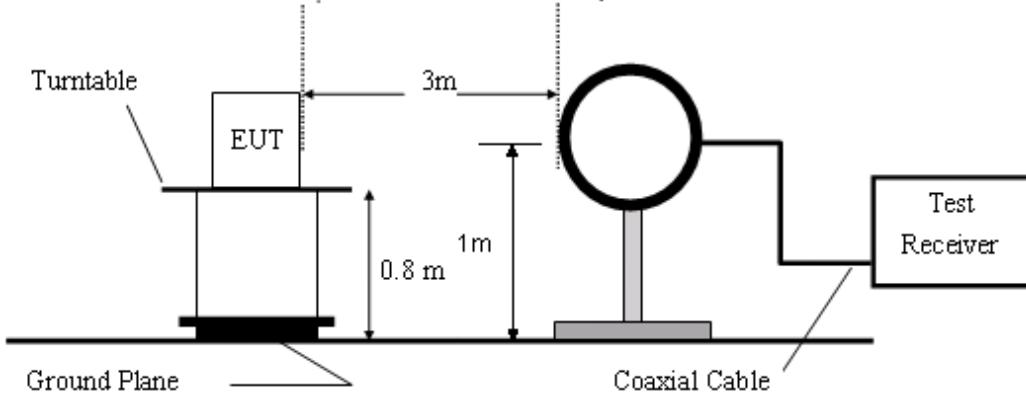
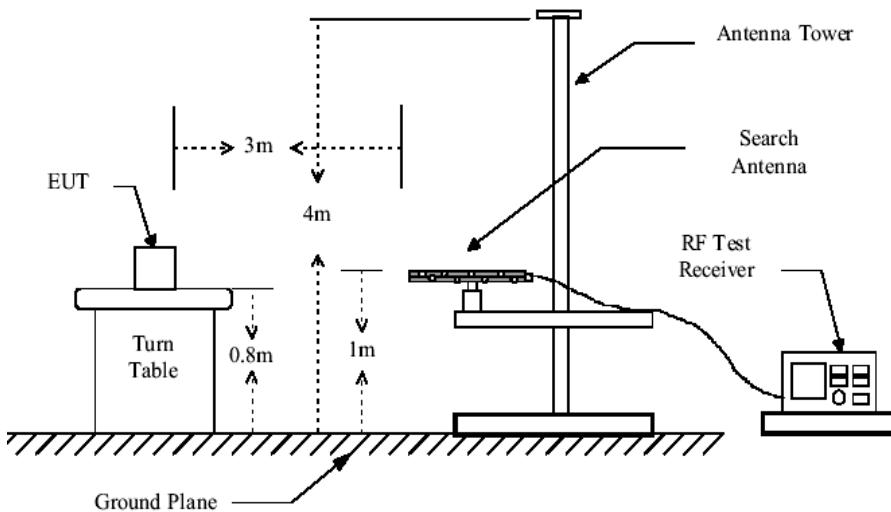
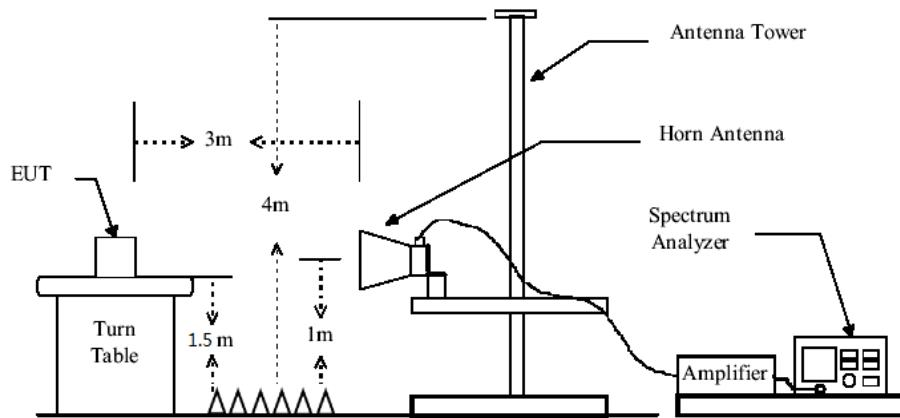
Frequency Range	Detector	RBW	VBW
0.009MHz-0.090MHz	Peak	10kHz	30kHz
0.009MHz-0.090MHz	Average	10kHz	30kHz
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz
0.110MHz-0.490MHz	Peak	10kHz	30kHz
0.110MHz-0.490MHz	Average	10kHz	30kHz
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz
30MHz-1GHz	Quasi-peak	100kHz	300kHz
Above 1GHz	Peak	RBW=1MHz	VBW≥RBW
	Average		VBW=10Hz

Sweep=Auto

15.209 Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)
0.009MHz-0.490MHz	2400/F(KHz)	128.5 ~ 93.8
0.490MHz-1.705MHz	24000/F(KHz)	73.8 ~63.0
1.705MHz-30MHz	30	69.5
30MHz-88MHz	100	40.0
88MHz-216MHz	150	43.5
216MHz-960MHz	200	46.0
960MHz-1GHz	500	54.0
Above 1GHz	500	54.0

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test Configuration:

Figure1. Below 30MHz radiated emissions test configuration

Figure2. 30MHz to 1GHz radiated emissions test configuration

Figure3. Above 1GHz radiated emissions test configuration

Test Procedure:

- 1) The procedure used was ANSI Standard C63.10. The receiver was scanned from 9 KHz to 25GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.
- 2) Low noise amplifier was used below 1GHz, High pass Filter was used above 3GHz. We did not use any amplifier or filter between 1G and 3GHz.
- 3) Test were performed for their spatial orthogonal(X, Y, Z), the worst test data (X orthogonal) was submitted.
 - a) For this intentional radiator operates below 25 GHz. the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 5rd harmonic.
 - b) As shown in Section, for frequencies above 1000MHz. the above 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.
- 4) Pretest under all modes below 1GHz; choose the worst case mode (802.11b) record on the report.
- 5) No spurious emissions were detected within 20dB of limit below 30MHz.

Test Result: Pass

6.3.1 Radiated Spurious Emissions

Power: AC 24V

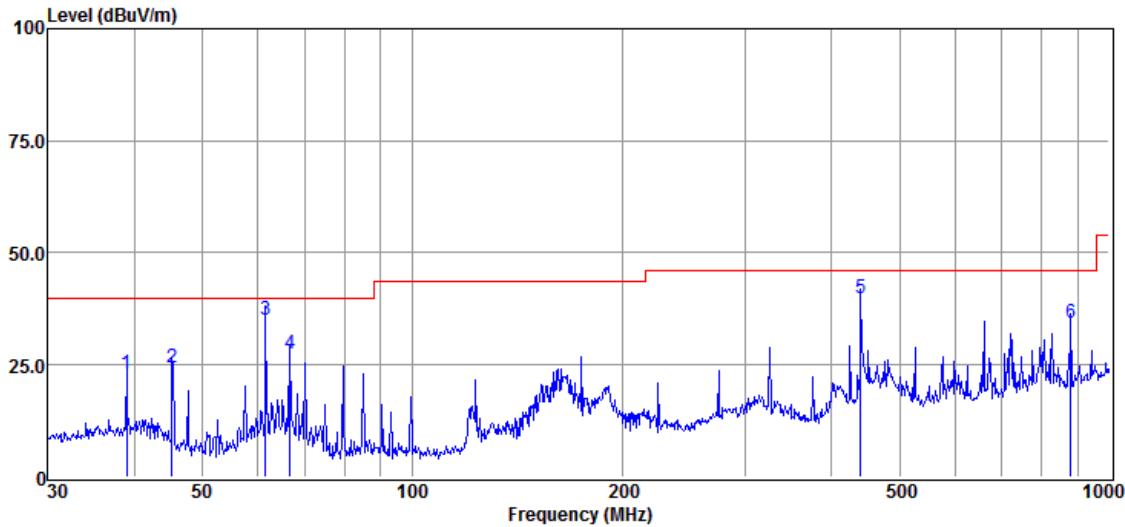
30MHz-1GHz:

Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dB μ V)	(dB/m)	(dB)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)		
1	109.03	51.59	9.59	42.70	0.49	18.97	43.50	-24.53	QP	Horizontal
2	175.04	49.32	11.75	42.56	0.66	19.17	43.50	-24.33	QP	Horizontal
3	325.60	54.93	13.73	42.32	0.88	27.22	46.00	-18.78	QP	Horizontal
4	440.20	65.34	16.00	42.12	1.07	40.29	46.00	-5.71	QP	Horizontal
5	721.73	46.19	20.60	42.48	1.75	26.06	46.00	-19.94	QP	Horizontal
6	881.41	52.43	22.56	42.05	2.35	35.29	46.00	-10.71	QP	Horizontal
1	38.89	49.26	16.20	42.62	0.22	23.06	40.00	-16.94	QP	Vertical
2	45.22	53.58	13.18	42.63	0.24	24.37	40.00	-15.63	QP	Vertical
3	61.56	64.94	12.41	42.65	0.30	35.00	40.00	-5.00	QP	Vertical
4	66.73	58.17	11.78	42.66	0.32	27.61	40.00	-12.39	QP	Vertical
5	440.20	64.97	16.00	42.12	1.07	39.92	46.00	-6.08	QP	Vertical
6	881.41	51.59	22.56	42.05	2.35	34.45	46.00	-11.55	QP	Vertical

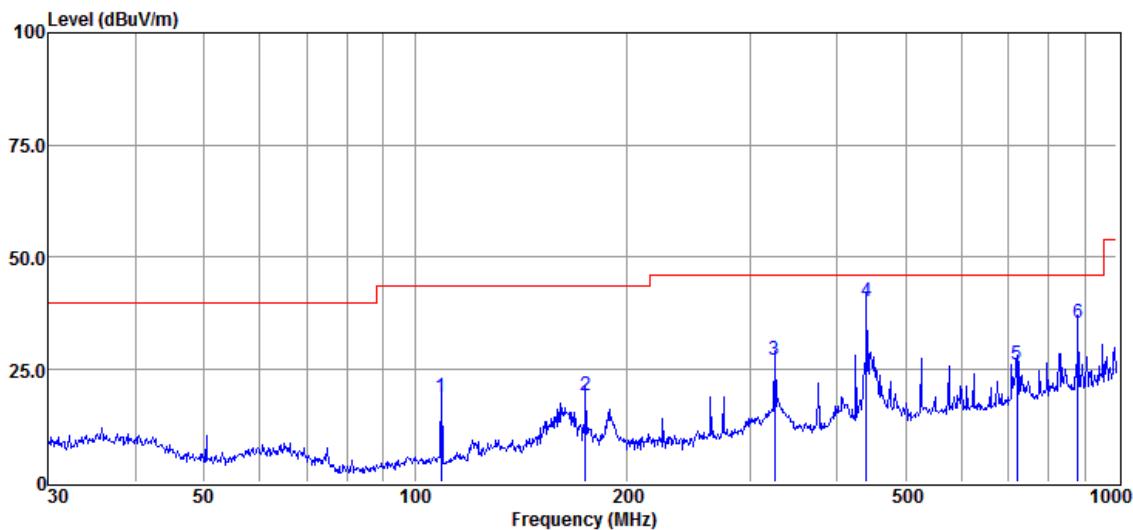
Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

Test plot as below:

Vertical:



Horizontal:



Power: DC 12V

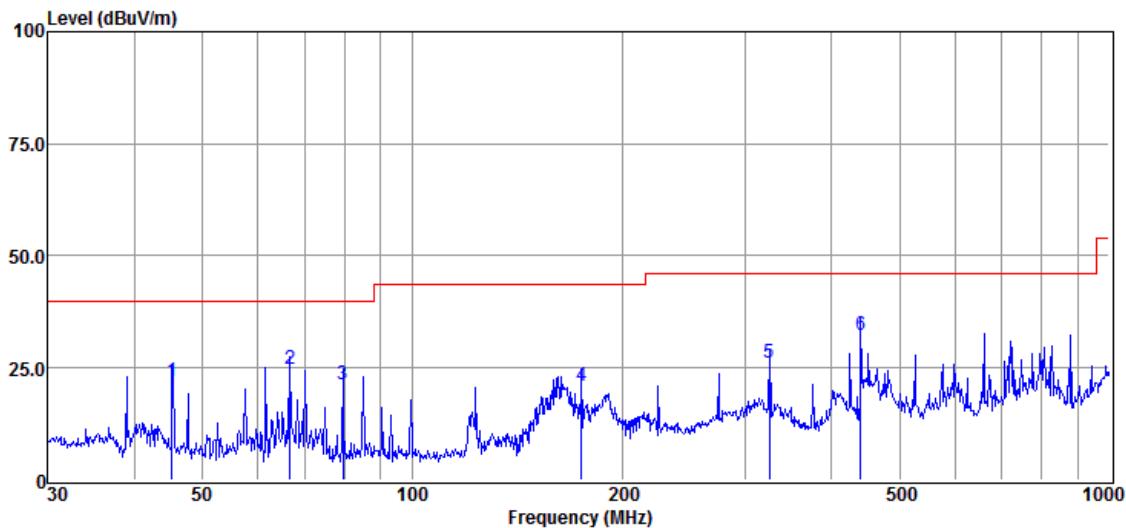
30MHz-1GHz:

Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dB μ V)	(dB/m)	(dB)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)		
1	35.75	36.01	15.91	42.61	0.21	9.52	40.00	-30.48	QP	Horizontal
2	65.11	37.84	11.97	42.66	0.32	7.47	40.00	-32.53	QP	Horizontal
3	109.03	52.53	9.59	42.70	0.49	19.91	43.50	-23.59	QP	Horizontal
4	175.04	51.23	11.75	42.56	0.66	21.08	43.50	-22.42	QP	Horizontal
5	325.60	57.35	13.73	42.32	0.88	29.64	46.00	-16.36	QP	Horizontal
6	440.20	62.07	16.00	42.12	1.07	37.02	46.00	-8.98	QP	Horizontal
1	45.22	51.15	13.18	42.63	0.24	21.94	40.00	-18.06	QP	Vertical
2	66.73	55.27	11.78	42.66	0.32	24.71	40.00	-15.29	QP	Vertical
3	79.52	55.39	8.18	42.67	0.37	21.27	40.00	-18.73	QP	Vertical
4	175.04	51.12	11.75	42.56	0.66	20.97	43.50	-22.53	QP	Vertical
5	325.60	53.81	13.73	42.32	0.88	26.10	46.00	-19.90	QP	Vertical
6	440.20	57.42	16.00	42.12	1.07	32.37	46.00	-13.63	QP	Vertical

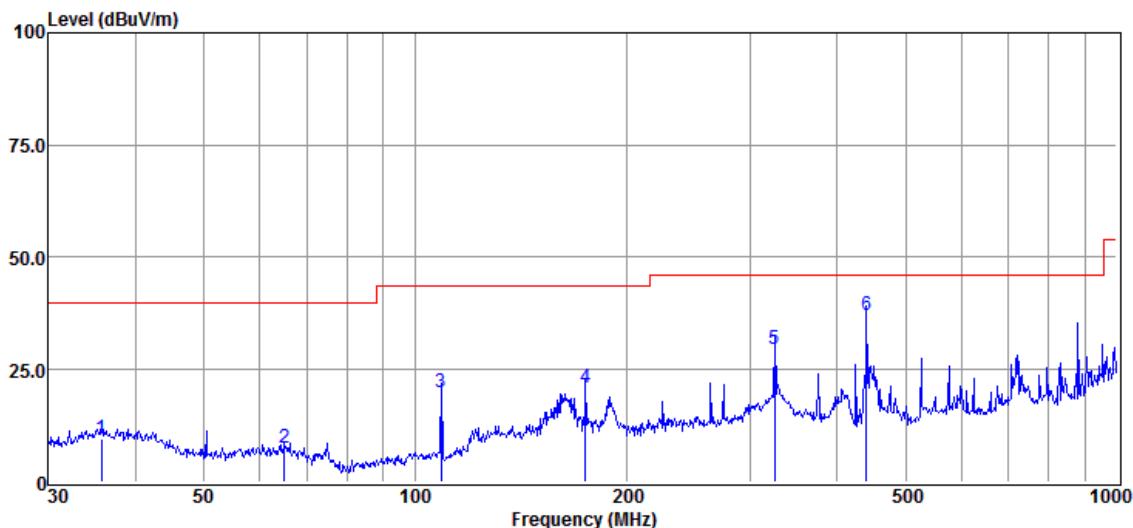
Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

Test plot as below:

Vertical:



Horizontal:





Power: AC 24V

Above 1GHz:

Test mode: 802.11b

Channel: 2412

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	41.49	6.40	47.89	54	-6.11	peak	Horizontal
2	7236	39.39	10.76	50.15	54	-3.85	peak	Horizontal
3	9648	36.96	14.37	51.33	54	-2.67	peak	Horizontal
4	4824	44.06	6.40	50.46	54	-3.54	peak	Vertical
5	7236	36.86	10.76	47.62	54	-6.38	peak	Vertical
6	9648	31.71	14.37	46.08	54	-7.92	peak	Vertical

Test mode: 802.11b

Channel: 2437

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	42.28	6.92	49.20	54	-4.80	peak	Horizontal
2	7311	39.80	11.08	50.88	54	-3.12	peak	Horizontal
3	9748	34.80	14.36	49.16	54	-4.84	peak	Horizontal
4	4874	40.49	6.92	47.41	54	-6.59	peak	Vertical
5	7311	35.11	11.08	46.19	54	-7.81	peak	Vertical
6	9748	36.81	14.36	51.17	54	-2.83	peak	Vertical

Test mode: 802.11b

Channel: 2462

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	39.99	7.31	47.30	54	-6.70	peak	Horizontal
2	7386	34.31	11.41	45.72	54	-8.28	peak	Horizontal
3	9848	32.77	14.38	47.15	54	-6.85	peak	Horizontal
4	4924	42.99	7.31	50.30	54	-3.70	peak	Vertical
5	7386	39.46	11.41	50.87	54	-3.13	peak	Vertical
6	9848	32.32	14.38	46.70	54	-7.30	peak	Vertical



Test mode: 802.11g

Channel: 2412

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	42.26	6.40	48.66	54	-5.34	peak	Horizontal
2	7236	40.38	10.76	51.14	54	-2.86	peak	Horizontal
3	9648	31.73	14.37	46.10	54	-7.90	peak	Horizontal
4	4824	39.47	6.40	45.87	54	-8.13	peak	Vertical
5	7236	39.39	10.76	50.15	54	-3.85	peak	Vertical
6	9648	34.21	14.37	48.58	54	-5.42	peak	Vertical

Test mode: 802.11g

Channel: 2437

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	41.45	6.92	48.37	54	-5.63	peak	Horizontal
2	7311	37.93	11.08	49.01	54	-4.99	peak	Horizontal
3	9748	34.27	14.36	48.63	54	-5.37	peak	Horizontal
4	4874	38.84	6.92	45.76	54	-8.24	peak	Vertical
5	7311	39.58	11.08	50.66	54	-3.34	peak	Vertical
6	9748	34.35	14.36	48.71	54	-5.29	peak	Vertical

Test mode: 802.11g

Channel: 2462

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	42.07	7.31	49.38	54	-4.62	peak	Horizontal
2	7386	38.99	11.41	50.40	54	-3.60	peak	Horizontal
3	9848	36.36	14.38	50.74	54	-3.26	peak	Horizontal
4	4924	41.02	7.31	48.33	54	-5.67	peak	Vertical
5	7386	37.93	11.41	49.34	54	-4.66	peak	Vertical
6	9848	34.19	14.38	48.57	54	-5.43	peak	Vertical



Test mode: 802.11 n(HT20)

Channel: 2412

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	42.76	6.40	49.16	54	-4.84	peak	Horizontal
2	7236	38.84	10.76	49.60	54	-4.40	peak	Horizontal
3	9648	34.18	14.37	48.55	54	-5.45	peak	Horizontal
4	4824	42.10	6.40	48.50	54	-5.50	peak	Vertical
5	7236	38.97	10.76	49.73	54	-4.27	peak	Vertical
6	9648	30.91	14.37	45.28	54	-8.72	peak	Vertical

Test mode: 802.11 n(HT20)

Channel: 2437

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	42.25	6.92	49.17	54	-4.83	peak	Horizontal
2	7311	34.00	11.08	45.08	54	-8.92	peak	Horizontal
3	9748	31.15	14.36	45.51	54	-8.49	peak	Horizontal
4	4874	41.73	6.92	48.65	54	-5.35	peak	Vertical
5	7311	37.18	11.08	48.26	54	-5.74	peak	Vertical
6	9748	33.55	14.36	47.91	54	-6.09	peak	Vertical

Test mode: 802.11 n(HT20)

Channel: 2462

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	41.32	7.31	48.63	54	-5.37	peak	Horizontal
2	7386	34.18	11.41	45.59	54	-8.41	peak	Horizontal
3	9848	34.72	14.38	49.10	54	-4.90	peak	Horizontal
4	4924	41.96	7.31	49.27	54	-4.73	peak	Vertical
5	7386	38.64	11.41	50.05	54	-3.95	peak	Vertical
6	9848	36.01	14.38	50.39	54	-3.61	peak	Vertical

Test mode: 802.11 n(HT40)
Channel: 2422

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4844	41.40	6.60	48.00	54	-6.00	peak	Horizontal
2	7266	35.00	10.89	45.89	54	-8.11	peak	Horizontal
3	9688	33.83	14.35	48.18	54	-5.82	peak	Horizontal
4	4844	43.63	6.60	50.23	54	-3.77	peak	Vertical
5	7266	38.62	10.89	49.51	54	-4.49	peak	Vertical
6	9688	35.43	14.35	49.78	54	-4.22	peak	Vertical

Test mode: 802.11 n(HT40)
Channel: 2437

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	42.34	6.92	49.26	54	-4.74	peak	Horizontal
2	7311	37.60	11.08	48.68	54	-5.32	peak	Horizontal
3	9748	31.25	14.36	45.61	54	-8.39	peak	Horizontal
4	4874	39.67	6.92	46.59	54	-7.41	peak	Vertical
5	7311	34.28	11.08	45.36	54	-8.64	peak	Vertical
6	9748	31.47	14.36	45.83	54	-8.17	peak	Vertical

Test mode: 802.11 n(HT40)
Channel: 2452

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4904	40.32	7.22	47.54	54	-6.46	peak	Horizontal
2	7356	36.68	11.28	47.96	54	-6.04	peak	Horizontal
3	9808	35.85	14.37	50.22	54	-3.78	peak	Horizontal
4	4904	40.31	7.22	47.53	54	-6.47	peak	Vertical
5	7356	36.54	11.28	47.82	54	-6.18	peak	Vertical
6	9808	33.87	14.37	48.24	54	-5.76	peak	Vertical

Remark: 1) Emission = Receiver Reading + Factor

2) Factor = Antenna Factor + Cable Loss + Pre-amplifier Factor.

3) If the Peak value below the AV Limit, the AV test doesn't perform for this submission.



Power: DC 12V

Above 1GHz:

Test mode: 802.11b

Channel: 2412

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	43.80	6.40	50.20	54	-3.80	peak	Horizontal
2	7236	39.41	10.76	50.17	54	-3.83	peak	Horizontal
3	9648	34.58	14.37	48.95	54	-5.05	peak	Horizontal
4	4824	39.51	6.40	45.91	54	-8.09	peak	Vertical
5	7236	36.91	10.76	47.67	54	-6.33	peak	Vertical
6	9648	32.03	14.37	46.40	54	-7.60	peak	Vertical

Test mode: 802.11b

Channel: 2437

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	41.23	6.92	48.15	54	-5.85	peak	Horizontal
2	7311	36.86	11.08	47.94	54	-6.06	peak	Horizontal
3	9748	35.28	14.36	49.64	54	-4.36	peak	Horizontal
4	4874	41.10	6.92	48.02	54	-5.98	peak	Vertical
5	7311	36.45	11.08	47.53	54	-6.47	peak	Vertical
6	9748	36.46	14.36	50.82	54	-3.18	peak	Vertical

Test mode: 802.11b

Channel: 2462

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	38.23	7.31	45.54	54	-8.46	peak	Horizontal
2	7386	37.11	11.41	48.52	54	-5.48	peak	Horizontal
3	9848	31.67	14.38	46.05	54	-7.95	peak	Horizontal
4	4924	39.67	7.31	46.98	54	-7.02	peak	Vertical
5	7386	37.81	11.41	49.22	54	-4.78	peak	Vertical
6	9848	31.55	14.38	45.93	54	-8.07	peak	Vertical



Test mode: 802.11g

Channel: 2412

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	41.08	6.40	47.48	54	-6.52	peak	Horizontal
2	7236	39.63	10.76	50.39	54	-3.61	peak	Horizontal
3	9648	32.59	14.37	46.96	54	-7.04	peak	Horizontal
4	4824	38.70	6.40	45.10	54	-8.90	peak	Vertical
5	7236	39.32	10.76	50.08	54	-3.92	peak	Vertical
6	9648	36.68	14.37	51.05	54	-2.95	peak	Vertical

Test mode: 802.11g

Channel: 2437

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	40.00	6.92	46.92	54	-7.08	peak	Horizontal
2	7311	38.19	11.08	49.27	54	-4.73	peak	Horizontal
3	9748	36.45	14.36	50.81	54	-3.19	peak	Horizontal
4	4874	38.84	6.92	45.76	54	-8.24	peak	Vertical
5	7311	35.32	11.08	46.40	54	-7.60	peak	Vertical
6	9748	33.16	14.36	47.52	54	-6.48	peak	Vertical

Test mode: 802.11g

Channel: 2462

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	43.20	7.31	50.51	54	-3.49	peak	Horizontal
2	7386	38.86	11.41	50.27	54	-3.73	peak	Horizontal
3	9848	32.18	14.38	46.56	54	-7.44	peak	Horizontal
4	4924	43.89	7.31	51.20	54	-2.80	peak	Vertical
5	7386	38.34	11.41	49.75	54	-4.25	peak	Vertical
6	9848	31.44	14.38	45.82	54	-8.18	peak	Vertical



Test mode: 802.11 n(HT20)

Channel: 2412

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	43.90	6.40	50.30	54	-3.70	peak	Horizontal
2	7236	35.16	10.76	45.92	54	-8.08	peak	Horizontal
3	9648	37.29	14.37	51.66	54	-2.34	peak	Horizontal
4	4824	38.64	6.40	45.04	54	-8.96	peak	Vertical
5	7236	40.38	10.76	51.14	54	-2.86	peak	Vertical
6	9648	36.41	14.37	50.78	54	-3.22	peak	Vertical

Test mode: 802.11 n(HT20)

Channel: 2437

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	40.67	6.92	47.59	54	-6.41	peak	Horizontal
2	7311	34.82	11.08	45.90	54	-8.10	peak	Horizontal
3	9748	33.96	14.36	48.32	54	-5.68	peak	Horizontal
4	4874	39.29	6.92	46.21	54	-7.79	peak	Vertical
5	7311	36.04	11.08	47.12	54	-6.88	peak	Vertical
6	9748	31.75	14.36	46.11	54	-7.89	peak	Vertical

Test mode: 802.11 n(HT20)

Channel: 2462

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	43.14	7.31	50.45	54	-3.55	peak	Horizontal
2	7386	37.13	11.41	48.54	54	-5.46	peak	Horizontal
3	9848	34.00	14.38	48.38	54	-5.62	peak	Horizontal
4	4924	41.26	7.31	48.57	54	-5.43	peak	Vertical
5	7386	36.16	11.41	47.57	54	-6.43	peak	Vertical
6	9848	31.08	14.38	45.46	54	-8.54	peak	Vertical

Test mode: 802.11 n(HT40)
Channel: 2422

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4844	42.05	6.60	48.65	54	-5.35	peak	Horizontal
2	7266	36.02	10.89	46.91	54	-7.09	peak	Horizontal
3	9688	33.15	14.35	47.50	54	-6.50	peak	Horizontal
4	4844	43.31	6.60	49.91	54	-4.09	peak	Vertical
5	7266	39.49	10.89	50.38	54	-3.62	peak	Vertical
6	9688	31.04	14.35	45.39	54	-8.61	peak	Vertical

Test mode: 802.11 n(HT40)
Channel: 2437

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	43.76	6.92	50.68	54	-3.32	peak	Horizontal
2	7311	37.15	11.08	48.23	54	-5.77	peak	Horizontal
3	9748	31.90	14.36	46.26	54	-7.74	peak	Horizontal
4	4874	39.71	6.92	46.63	54	-7.37	peak	Vertical
5	7311	34.48	11.08	45.56	54	-8.44	peak	Vertical
6	9748	35.59	14.36	49.95	54	-4.05	peak	Vertical

Test mode: 802.11 n(HT40)
Channel: 2452

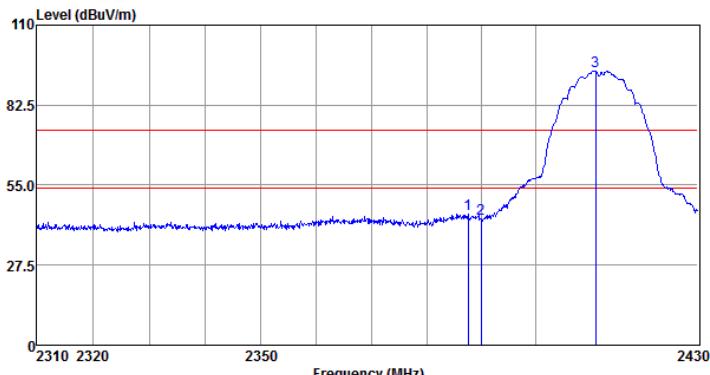
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4904	42.36	7.22	49.58	54	-4.42	peak	Horizontal
2	7356	36.09	11.28	47.37	54	-6.63	peak	Horizontal
3	9808	32.89	14.37	47.26	54	-6.74	peak	Horizontal
4	4904	40.79	7.22	48.01	54	-5.99	peak	Vertical
5	7356	37.32	11.28	48.60	54	-5.40	peak	Vertical
6	9808	35.10	14.37	49.47	54	-4.53	peak	Vertical

Remark: 1) Emission = Receiver Reading + Factor

2) Factor = Antenna Factor + Cable Loss + Pre-amplifier Factor.

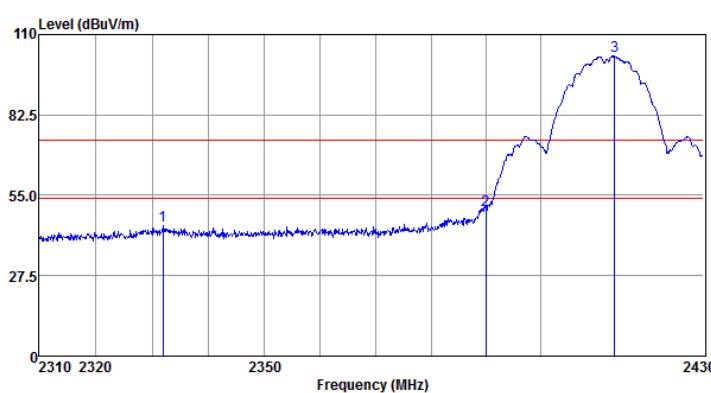
3) If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

6.3.2 Radiated Band edge

Power: AC 24V
Test Mode: 802.11b
Channel: 2412
Horizontal

Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2387.55	49.74	26.03	6.47	37.36	44.88	74.00	-29.12	Peak
2 2390.00	48.38	26.03	6.47	37.36	43.52	74.00	-30.48	Peak
3 2411.00	99.08	26.06	6.50	37.35	94.29	74.00	20.29	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

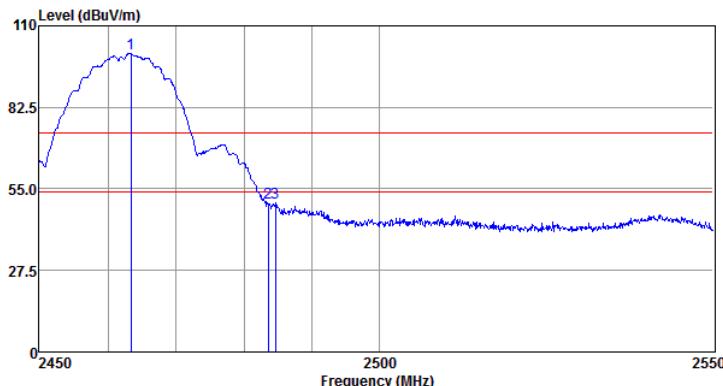
Vertical

Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2331.86	49.82	25.95	6.37	37.37	44.77	74.00	-29.23	Peak
2 2390.00	54.81	26.03	6.47	37.36	49.95	74.00	-24.05	Peak
3 2413.57	107.34	26.08	6.50	37.36	102.56	74.00	28.56	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Test Mode: 802.11b**Channel: 2462**

Horizontal

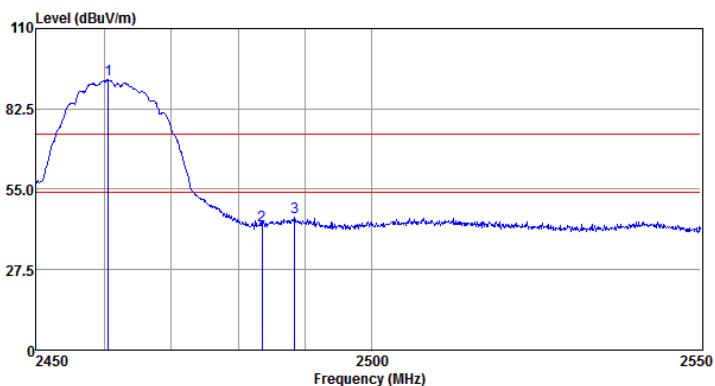


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2463.37	105.24	26.15	6.68	37.46	100.61	74.00	26.61	Peak
2 2483.50	54.80	26.18	6.80	37.51	50.27	74.00	-23.73	Peak
3 2484.55	54.80	26.18	6.80	37.51	50.27	74.00	-23.73	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Vertical



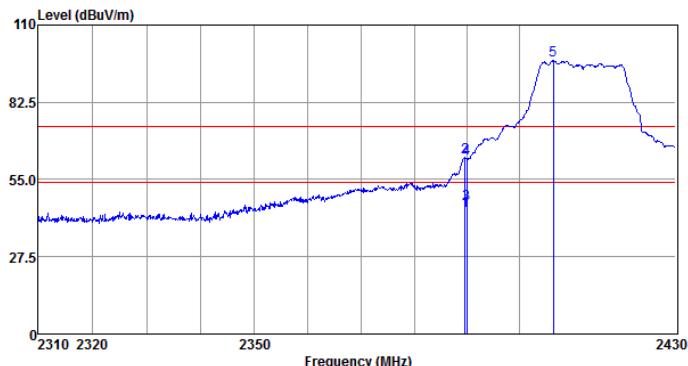
Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2460.61	97.03	26.15	6.68	37.46	92.40	74.00	18.40	Peak
2 2483.50	47.27	26.18	6.80	37.51	42.74	74.00	-31.26	Peak
3 2488.43	49.81	26.18	6.80	37.51	45.28	74.00	-28.72	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Test Mode: 802.11g
Channel: 2412

Horizontal

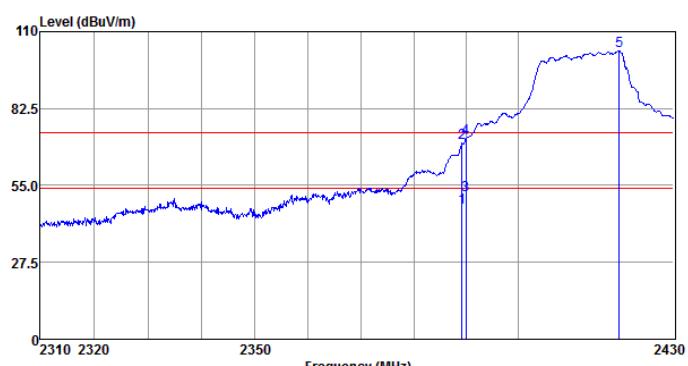


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2389.61	48.70	26.03	6.47	37.36	43.84	54.00	-10.16	Average
2 2389.61	67.69	26.03	6.47	37.36	62.83	74.00	-11.17	Peak
3 2390.00	51.24	26.03	6.47	37.36	46.38	54.00	-7.62	Average
4 2390.00	67.30	26.03	6.47	37.36	62.44	74.00	-11.56	Peak
5 2406.49	102.13	26.06	6.50	37.35	97.34	74.00	23.34	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Vertical



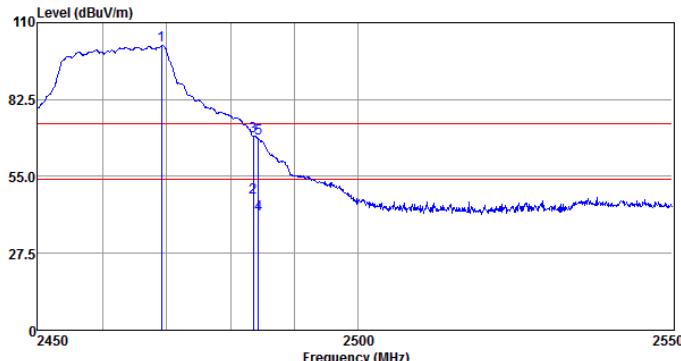
Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2389.24	51.85	26.03	6.47	37.36	46.99	54.00	-7.01	Average
2 2389.24	74.90	26.03	6.47	37.36	70.04	74.00	-3.96	Peak
3 2390.00	56.54	26.03	6.47	37.36	51.68	54.00	-2.32	Average
4 2390.00	76.53	26.03	6.47	37.36	71.67	74.00	-2.33	Peak
5 2419.44	107.99	26.09	6.56	37.38	103.26	74.00	29.26	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Test Mode: 802.11g**Channel: 2462**

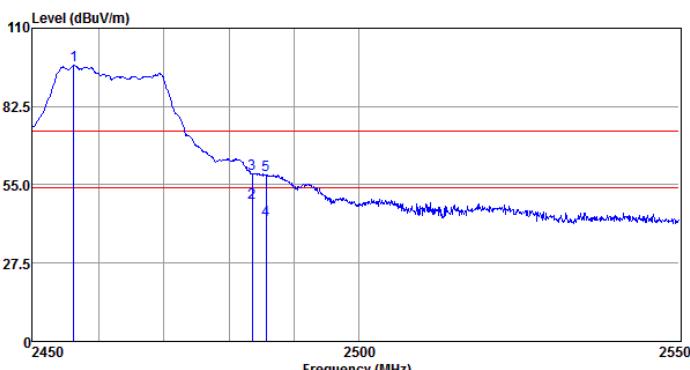
Horizontal



Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2469.19	106.38	26.16	6.74	37.48	101.80	74.00	27.80 Peak
2	2483.50	52.04	26.18	6.80	37.51	47.51	54.00	-6.49 Average
3	2483.50	74.09	26.18	6.80	37.51	69.56	74.00	-4.44 Peak
4	2484.35	45.94	26.18	6.80	37.51	41.41	54.00	-12.59 Average
5	2484.35	72.94	26.18	6.80	37.51	68.41	74.00	-5.59 Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Vertical

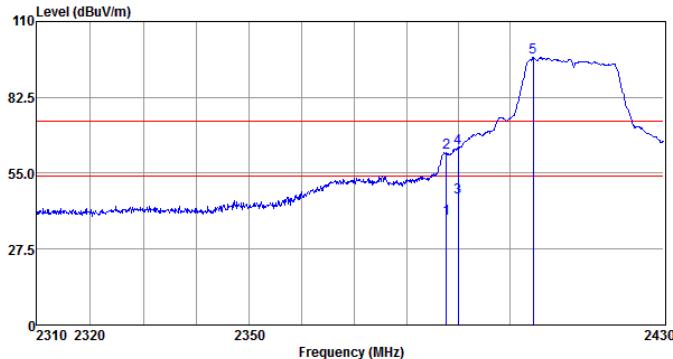


Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2456.28	101.51	26.14	6.68	37.45	96.88	74.00	22.88 Peak
2	2483.50	53.24	26.18	6.80	37.51	48.71	54.00	-5.29 Average
3	2483.50	63.27	26.18	6.80	37.51	58.74	74.00	-15.26 Peak
4	2485.64	46.95	26.18	6.80	37.51	42.42	54.00	-11.58 Average
5	2485.64	62.98	26.18	6.80	37.51	58.45	74.00	-15.55 Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Test Mode: 802.11 n(HT20)**Channel: 2412**

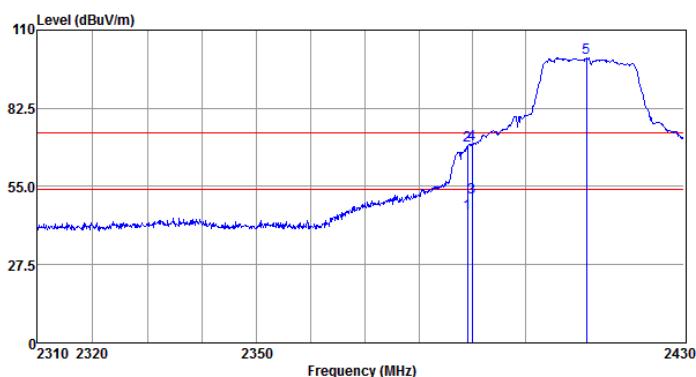
Horizontal



Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2387.67	43.30	26.03	6.47	37.36	38.44	54.00	-15.56	Average
2 2387.67	67.24	26.03	6.47	37.36	62.38	74.00	-11.62	Peak
3 2390.00	51.10	26.03	6.47	37.36	46.24	54.00	-7.76	Average
4 2390.00	69.02	26.03	6.47	37.36	64.16	74.00	-9.84	Peak
5 2404.54	101.64	26.06	6.50	37.35	96.85	74.00	22.85	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Vertical

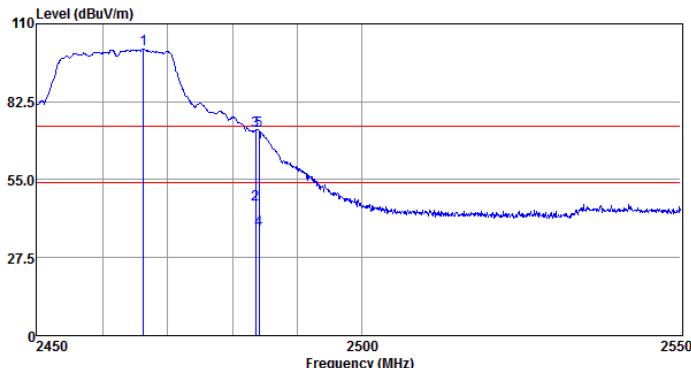


Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2389.12	50.50	26.03	6.47	37.36	45.64	54.00	-8.36	Average
2 2389.12	74.43	26.03	6.47	37.36	69.57	74.00	-4.43	Peak
3 2390.00	55.84	26.03	6.47	37.36	50.98	54.00	-3.02	Average
4 2390.00	74.88	26.03	6.47	37.36	70.02	74.00	-3.98	Peak
5 2411.49	105.08	26.08	6.50	37.36	100.30	74.00	26.30	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Test Mode: 802.11 n(HT20)**Channel: 2462**

Horizontal

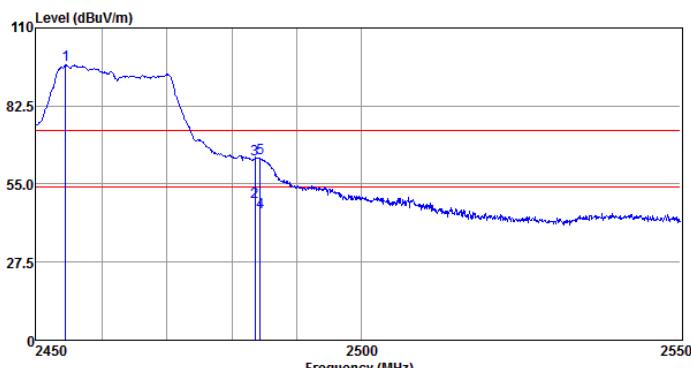


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2466.32	105.76	26.15	6.74	37.46	101.19	74.00	27.19	Peak
2 2483.50	50.95	26.18	6.80	37.51	46.42	54.00	-7.58	Average
3 2483.50	76.92	26.18	6.80	37.51	72.39	74.00	-1.61	Peak
4 2484.05	41.99	26.18	6.80	37.51	37.46	54.00	-16.54	Average
5 2484.05	76.96	26.18	6.80	37.51	72.43	74.00	-1.57	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Vertical



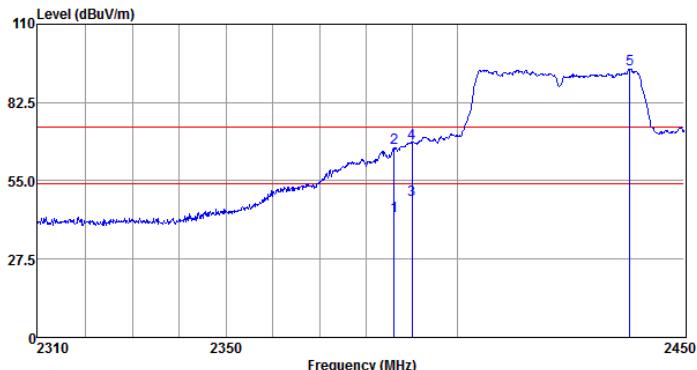
Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2454.51	101.50	26.14	6.68	37.45	96.87	74.00	22.87	Peak
2 2483.50	53.24	26.18	6.80	37.51	48.71	54.00	-5.29	Average
3 2483.50	68.29	26.18	6.80	37.51	63.76	74.00	-10.24	Peak
4 2484.35	49.68	26.18	6.80	37.51	45.15	54.00	-8.85	Average
5 2484.35	68.64	26.18	6.80	37.51	64.11	74.00	-9.89	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Test Mode: 802.11 n(HT40)**Channel: 2422**

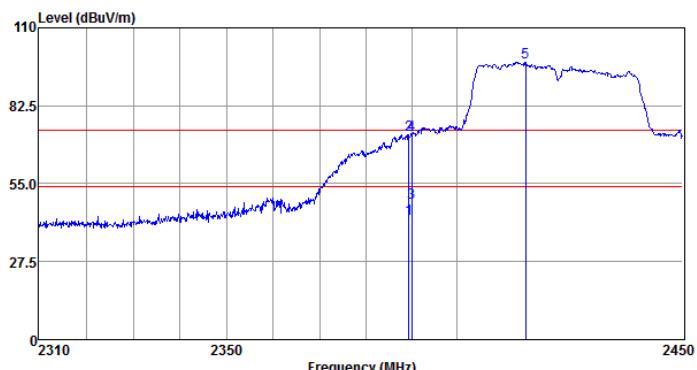
Horizontal



Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2386.12	47.47	26.03	6.47	37.36	42.61	54.00	-11.39	Average
2 2386.12	71.46	26.03	6.47	37.36	66.60	74.00	-7.40	Peak
3 2390.00	53.18	26.03	6.47	37.36	48.32	54.00	-5.68	Average
4 2390.00	73.20	26.03	6.47	37.36	68.34	74.00	-5.66	Peak
5 2437.92	99.05	26.11	6.62	37.41	94.37	74.00	20.37	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Vertical

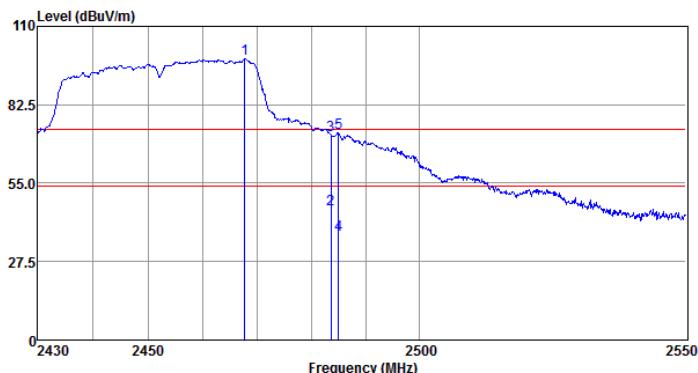


Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2389.49	47.30	26.03	6.47	37.36	42.44	54.00	-11.56	Average
2 2389.49	77.24	26.03	6.47	37.36	72.38	74.00	-1.62	Peak
3 2390.00	53.15	26.03	6.47	37.36	48.29	54.00	-5.71	Average
4 2390.00	77.13	26.03	6.47	37.36	72.27	74.00	-1.73	Peak
5 2415.08	102.63	26.08	6.50	37.36	97.85	74.00	23.85	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Test Mode: 802.11 n(HT40)
Channel: 2452

Horizontal

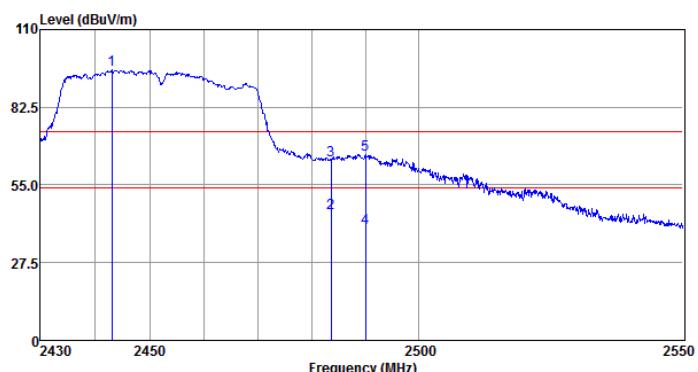


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2467.65	103.21	26.16	6.74	37.48	98.63	74.00	24.63	Peak
2 2483.50	50.31	26.18	6.80	37.51	45.78	54.00	-8.22	Average
3 2483.50	76.33	26.18	6.80	37.51	71.80	74.00	-2.20	Peak
4 2484.96	41.40	26.18	6.80	37.51	36.87	54.00	-17.13	Average
5 2484.96	77.05	26.18	6.80	37.51	72.52	74.00	-1.48	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

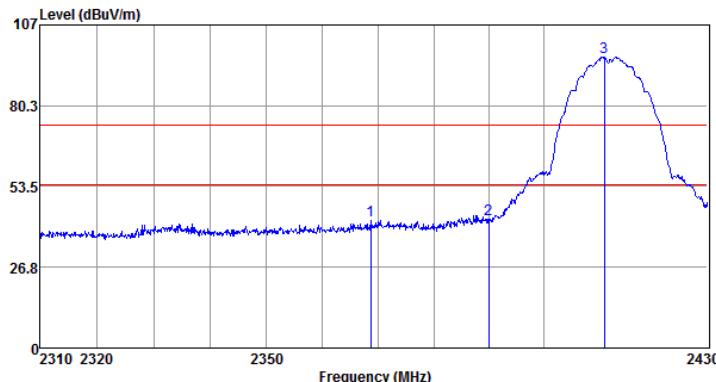
Vertical



Antenna Polarity :VERTICAL

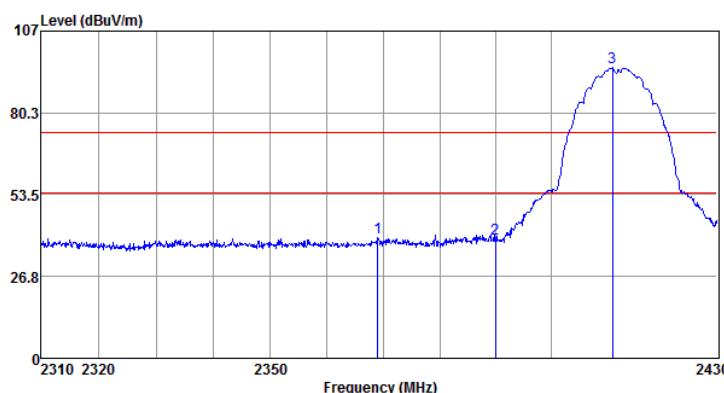
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2443.04	100.29	26.12	6.62	37.42	95.61	74.00	21.61	Peak
2 2483.50	49.41	26.18	6.80	37.51	44.88	54.00	-9.12	Average
3 2483.50	68.44	26.18	6.80	37.51	63.91	74.00	-10.09	Peak
4 2490.00	44.29	26.19	6.80	37.52	39.76	54.00	-14.24	Average
5 2490.00	70.27	26.19	6.80	37.52	65.74	74.00	-8.26	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Power: DC 12V**Test Mode: 802.11b****Channel: 2412****Horizontal****Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
1 2368.64	47.29	26.00	6.45	37.36	42.38	74.00	-31.62	Peak
2 2390.00	47.44	26.03	6.47	37.36	42.58	74.00	-31.42	Peak
3 2411.00	101.13	26.06	6.50	37.35	96.34	74.00	22.34	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

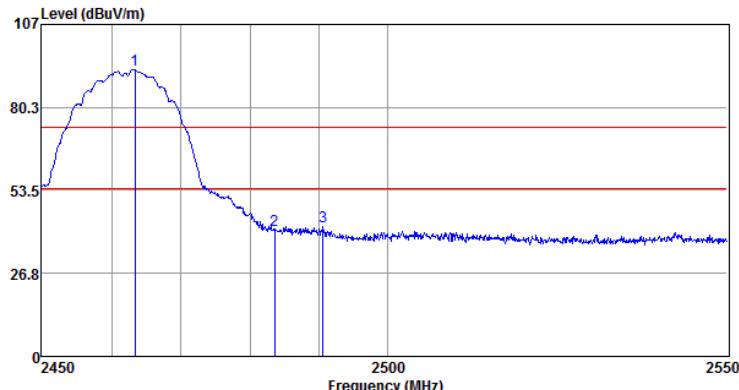
Vertical**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
1 2369.00	44.20	26.00	6.45	37.36	39.29	74.00	-34.71	Peak
2 2390.00	44.10	26.03	6.47	37.36	39.24	74.00	-34.76	Peak
3 2411.00	99.81	26.06	6.50	37.35	95.02	74.00	21.02	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Test Mode: 802.11b**Channel: 2462**

Horizontal

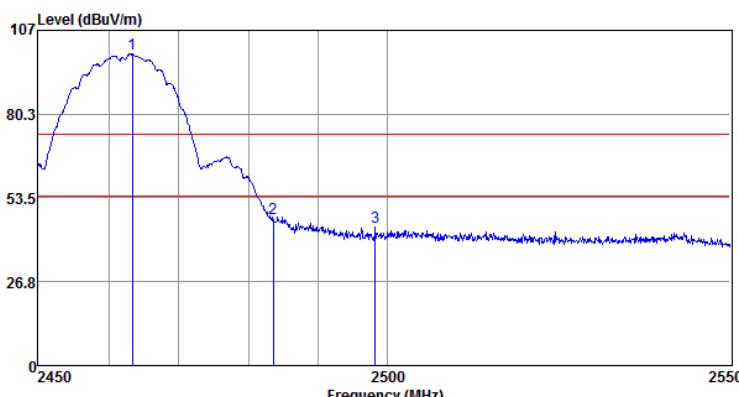


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB _{UV}	dB/m	dB	dB	dB _{UV} /m	dB _{UV} /m	dB	
1 2463.37	96.94	26.15	6.68	37.46	92.31	74.00	18.31	Peak
2 2483.50	45.31	26.18	6.80	37.51	40.78	74.00	-33.22	Peak
3 2490.52	46.20	26.19	6.80	37.52	41.67	74.00	-32.33	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Vertical



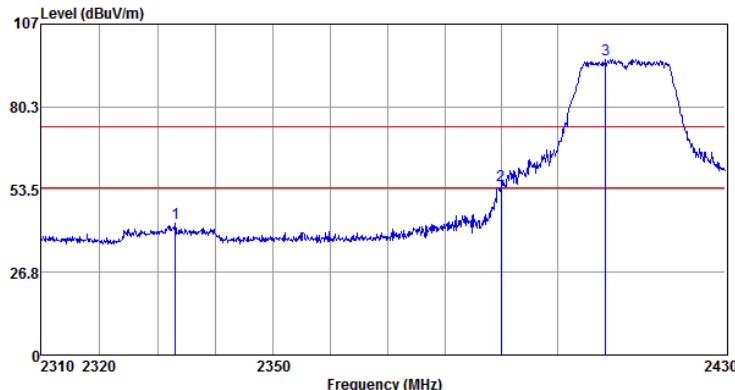
Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB _{UV}	dB/m	dB	dB	dB _{UV} /m	dB _{UV} /m	dB	
1 2463.37	104.02	26.15	6.68	37.46	99.39	74.00	25.39	Peak
2 2483.50	51.37	26.18	6.80	37.51	46.84	74.00	-27.16	Peak
3 2498.20	48.80	26.20	6.86	37.53	44.33	74.00	-29.67	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

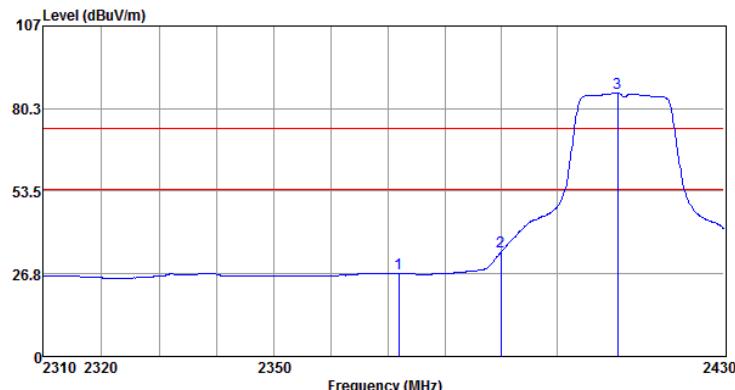
Test Mode: 802.11g**Channel: 2412**

Horizontal



Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2333.04	47.55	25.95	6.37	37.37	42.50	74.00	-31.50	Peak
2 2390.00	59.58	26.03	6.47	37.36	54.72	74.00	-19.28	Peak
3 2408.56	100.30	26.06	6.50	37.35	95.51	74.00	21.51	Peak

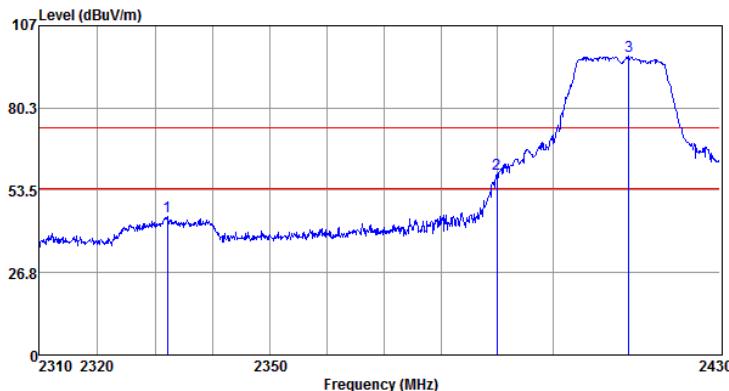
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2371.88	31.84	26.01	6.45	37.36	26.94	54.00	-27.06	Average
2 2390.00	38.67	26.03	6.47	37.36	33.81	54.00	-20.19	Average
3 2410.76	89.96	26.06	6.50	37.35	85.17	54.00	31.17	Average

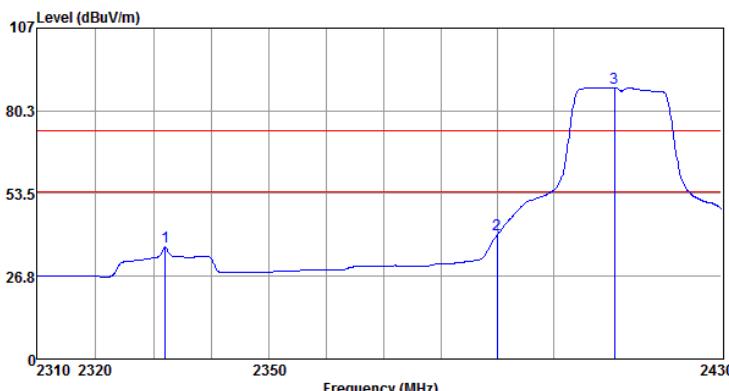
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Vertical



Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2332.10	50.10	25.95	6.37	37.37	45.05	74.00	-28.95	Peak
2 2390.00	63.50	26.03	6.47	37.36	58.64	74.00	-15.36	Peak
3 2413.57	101.80	26.08	6.50	37.36	97.02	74.00	23.02	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

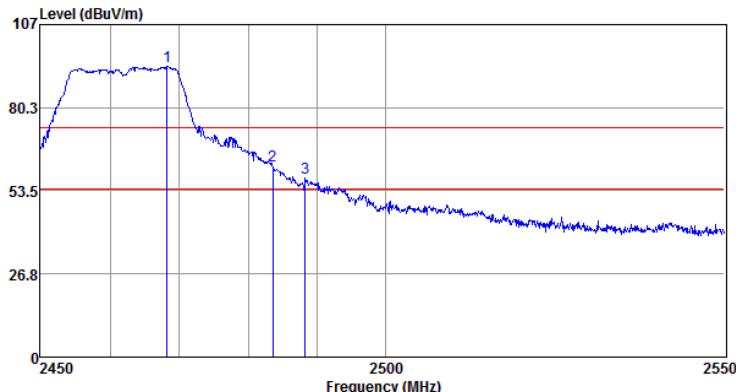


Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2331.98	41.19	25.95	6.37	37.37	36.14	54.00	-17.86	Average
2 2390.00	45.00	26.03	6.47	37.36	40.14	54.00	-13.86	Average
3 2410.76	92.59	26.06	6.50	37.35	87.80	54.00	33.80	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 802.11g
Channel: 2462

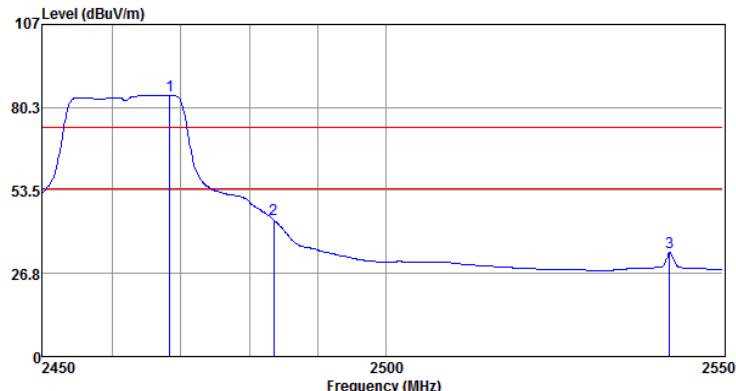
Horizontal



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2468.20	98.14	26.16	6.74	37.48	93.56	74.00	19.56	Peak
2 2483.50	66.02	26.18	6.80	37.51	61.49	74.00	-12.51	Peak
3 2488.23	62.07	26.18	6.80	37.51	57.54	74.00	-16.46	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

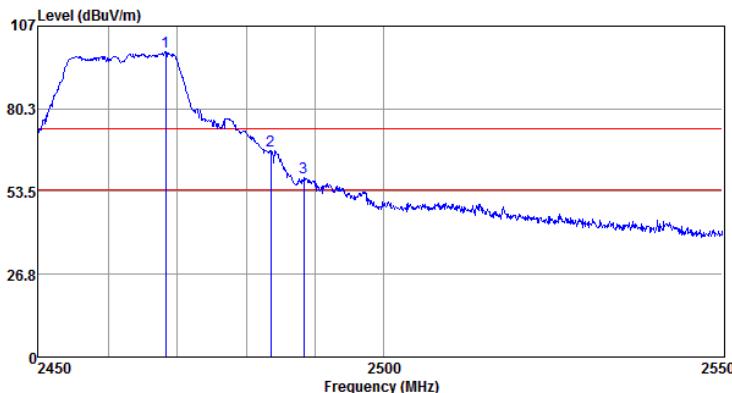


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2468.40	88.75	26.16	6.74	37.48	84.17	54.00	30.17	Average
2 2483.50	48.56	26.18	6.80	37.51	44.03	54.00	-9.97	Average
3 2541.95	37.77	26.33	7.01	37.60	33.51	54.00	-20.49	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

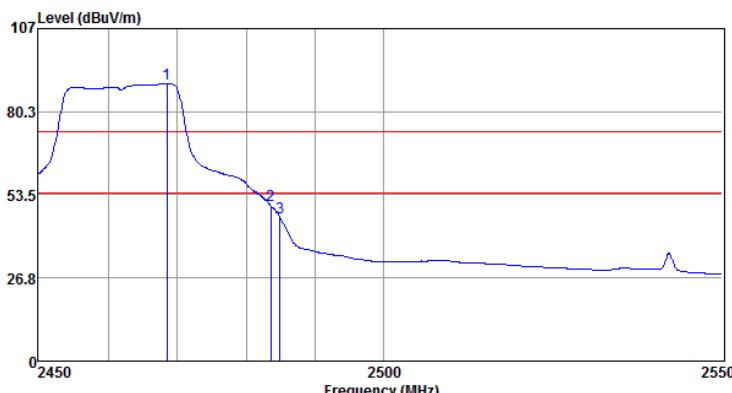
Vertical



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2468.30	103.28	26.16	6.74	37.48	98.70	74.00	24.70	Peak
2 2483.50	71.16	26.18	6.80	37.51	66.63	74.00	-7.37	Peak
3 2488.33	62.44	26.18	6.80	37.51	57.91	74.00	-16.09	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



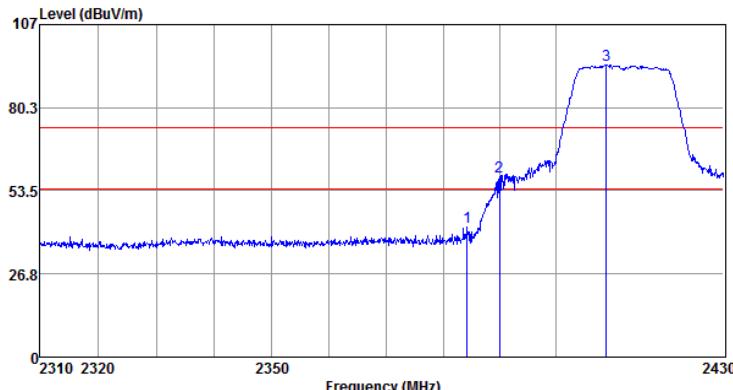
Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2468.50	93.80	26.16	6.74	37.48	89.22	54.00	35.22	Average
2 2483.50	54.67	26.18	6.80	37.51	50.14	54.00	-3.86	Average
3 2484.84	50.76	26.18	6.80	37.51	46.23	54.00	-7.77	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Test Mode: 802.11 n(HT20)
Channel: 2412

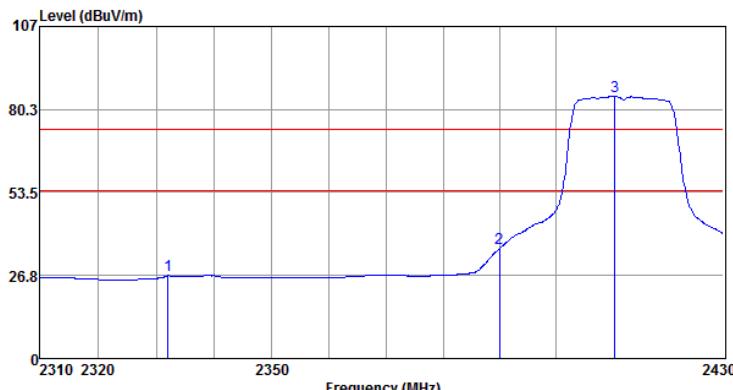
Horizontal



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2384.29	46.88	26.03	6.47	37.36	42.02	74.00	-31.98	Peak
2 2390.00	62.87	26.03	6.47	37.36	58.01	74.00	-15.99	Peak
3 2408.93	98.88	26.06	6.50	37.35	94.09	74.00	20.09	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

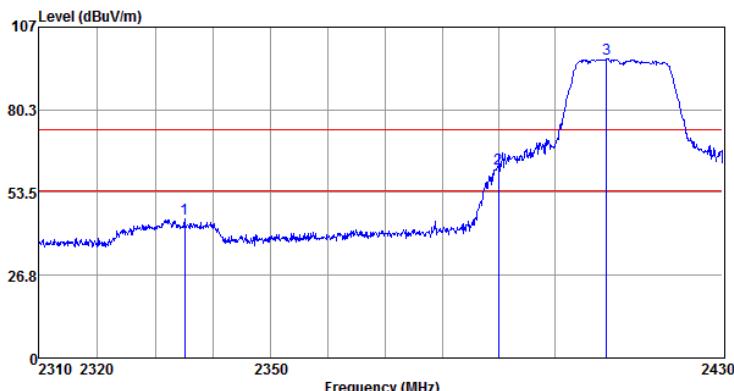


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2331.98	31.81	25.95	6.37	37.37	26.76	54.00	-27.24	Average
2 2390.00	40.30	26.03	6.47	37.36	35.44	54.00	-18.56	Average
3 2410.51	89.27	26.06	6.50	37.35	84.48	54.00	30.48	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

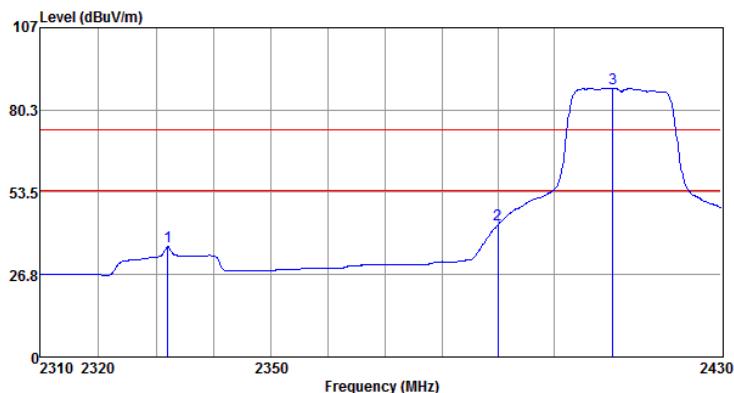
Vertical



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2335.05	49.90	25.95	6.37	37.37	44.85	74.00	-29.15	Peak
2 2390.00	66.18	26.03	6.47	37.36	61.32	74.00	-12.68	Peak
3 2409.17	101.67	26.06	6.50	37.35	96.88	74.00	22.88	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



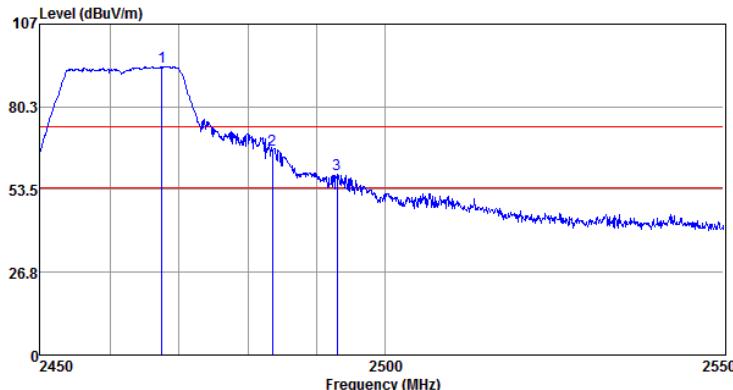
Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2331.98	41.15	25.95	6.37	37.37	36.10	54.00	-17.90	Average
2 2390.00	47.79	26.03	6.47	37.36	42.93	54.00	-11.07	Average
3 2410.51	92.21	26.06	6.50	37.35	87.42	54.00	33.42	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

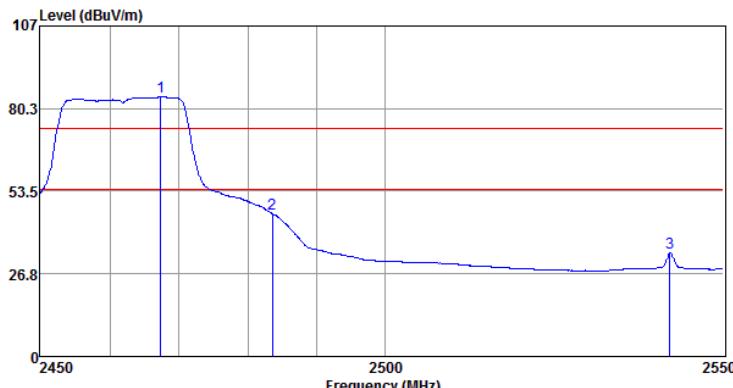
Test Mode: 802.11 n(HT20)**Channel: 2462**

Horizontal



Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2467.51	97.91	26.15	6.74	37.46	93.34	74.00	19.34	Peak
2 2483.50	70.81	26.18	6.80	37.51	66.28	74.00	-7.72	Peak
3 2492.91	62.83	26.19	6.80	37.52	58.30	74.00	-15.70	Peak

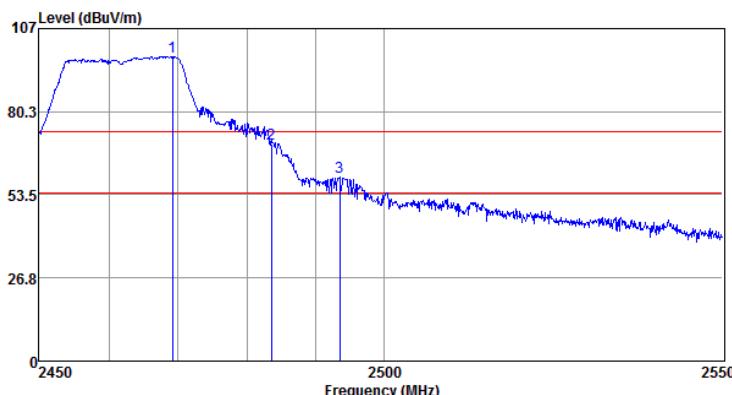
Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2467.31	88.58	26.15	6.74	37.46	84.01	54.00	30.01	Average
2 2483.50	50.84	26.18	6.80	37.51	46.31	54.00	-7.69	Average
3 2541.95	37.90	26.33	7.01	37.60	33.64	54.00	-20.36	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

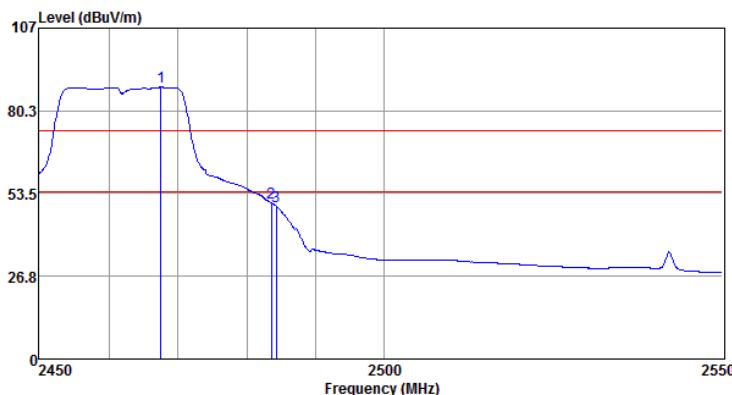
Vertical



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2469.19	102.66	26.16	6.74	37.48	98.08	74.00	24.08	Peak
2 2483.50	74.28	26.18	6.80	37.51	69.75	74.00	-4.25	Peak
3 2493.51	63.63	26.19	6.80	37.52	59.10	74.00	-14.90	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



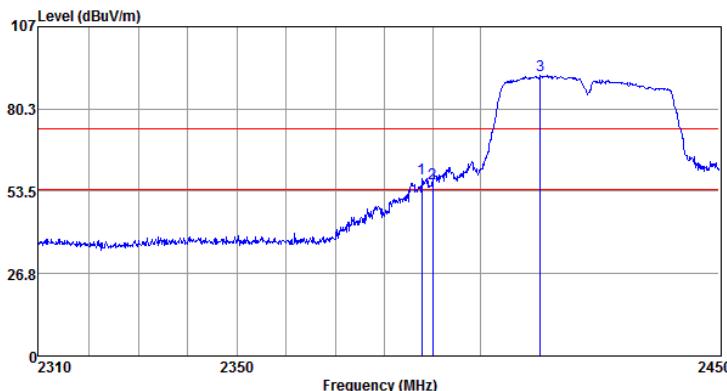
Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2467.51	92.44	26.15	6.74	37.46	87.87	54.00	33.87	Average
2 2483.50	55.03	26.18	6.80	37.51	50.50	54.00	-3.50	Average
3 2484.25	53.89	26.18	6.80	37.51	49.36	54.00	-4.64	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

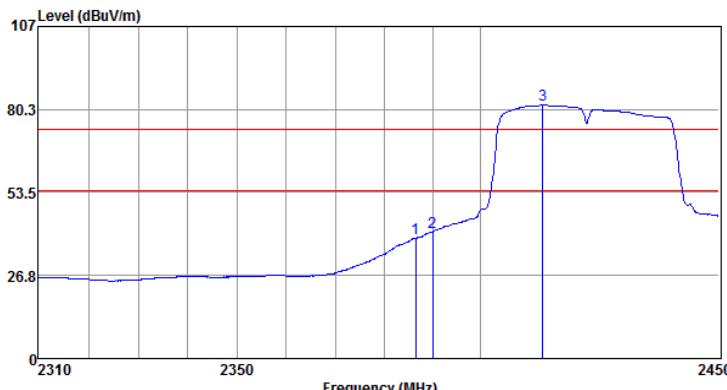
Test Mode: 802.11 n(HT40)**Channel: 2422**

Horizontal



Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2387.81	62.68	26.03	6.47	37.36	57.82	74.00	-16.18	Peak
2 2390.00	60.79	26.03	6.47	37.36	55.93	74.00	-18.07	Peak
3 2412.38	95.86	26.08	6.50	37.36	91.08	74.00	17.08	Peak

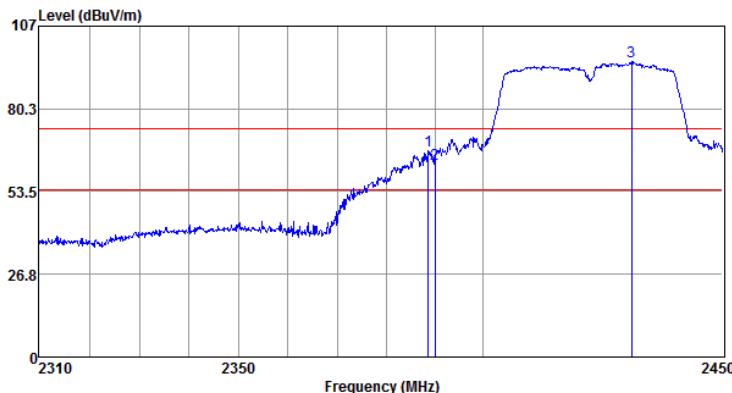
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2386.54	43.64	26.03	6.47	37.36	38.78	54.00	-15.22	Average
2 2390.00	45.71	26.03	6.47	37.36	40.85	54.00	-13.15	Average
3 2412.95	86.37	26.08	6.50	37.36	81.59	54.00	27.59	Average

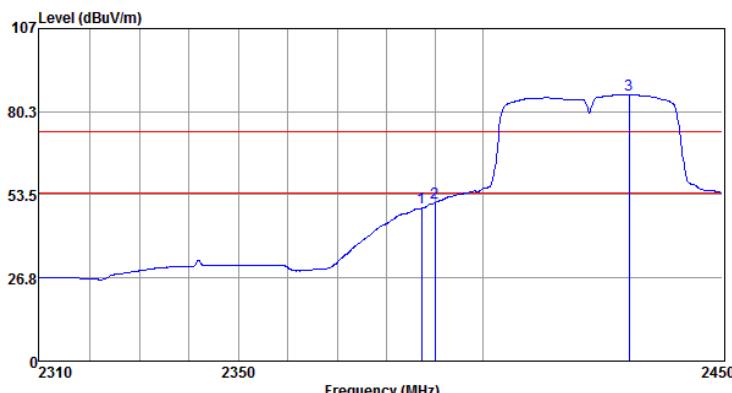
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Vertical



Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2388.65	71.49	26.03	6.47	37.36	66.63	74.00	-7.37	Peak
2 2390.00	67.24	26.03	6.47	37.36	62.38	74.00	-11.62	Peak
3 2430.90	100.11	26.10	6.56	37.39	95.38	74.00	21.38	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

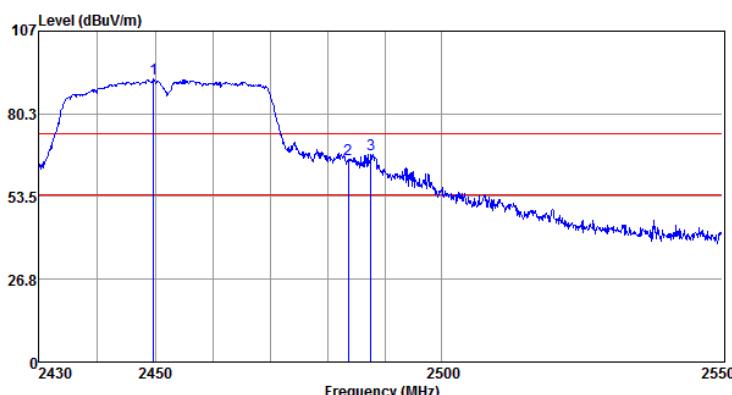


Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2387.24	54.04	26.03	6.47	37.36	49.18	54.00	-4.82	Average
2 2390.00	55.79	26.03	6.47	37.36	50.93	54.00	-3.07	Average
3 2430.33	90.47	26.10	6.56	37.39	85.74	54.00	31.74	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

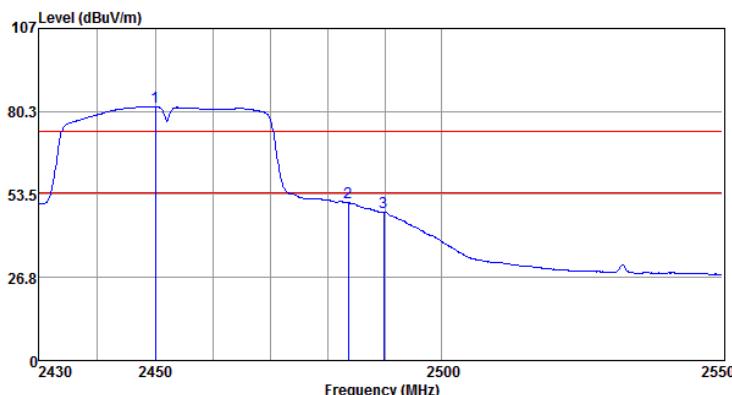
Test Mode: 802.11 n(HT40)**Channel: 2452**

Horizontal



Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2449.64	96.03	26.13	6.68	37.43	91.41	74.00	17.41	Peak
2 2483.50	69.94	26.18	6.80	37.51	65.41	74.00	-8.59	Peak
3 2487.48	71.66	26.18	6.80	37.51	67.13	74.00	-6.87	Peak

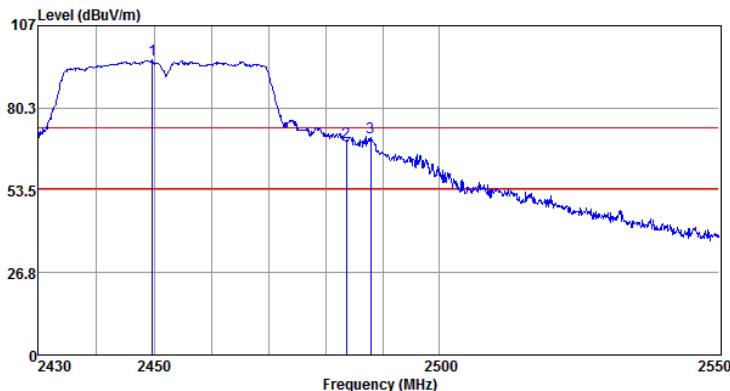
Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2449.99	86.34	26.13	6.68	37.43	81.72	54.00	27.72	Average
2 2483.50	55.33	26.18	6.80	37.51	50.80	54.00	-3.20	Average
3 2489.76	52.41	26.19	6.80	37.52	47.88	54.00	-6.12	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

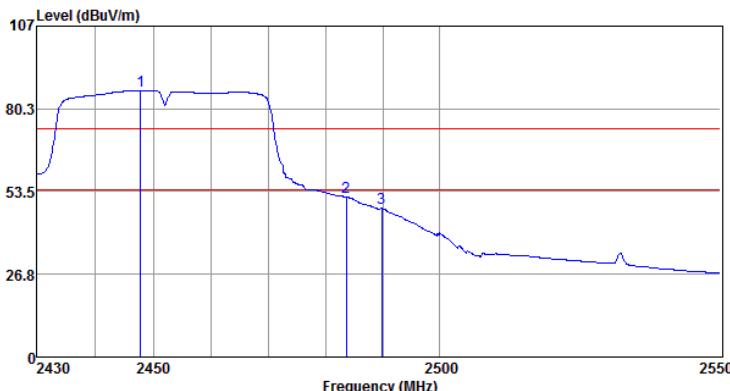
Vertical



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2449.64	100.43	26.13	6.68	37.43	95.81	74.00	21.81	Peak
2 2483.50	73.71	26.18	6.80	37.51	69.18	74.00	-4.82	Peak
3 2487.84	75.21	26.18	6.80	37.51	70.68	74.00	-3.32	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 2447.75	90.94	26.13	6.62	37.43	86.26	54.00	32.26	Average
2 2483.50	56.24	26.18	6.80	37.51	51.71	54.00	-2.29	Average
3 2489.76	52.58	26.19	6.80	37.52	48.05	54.00	-5.95	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Remark: 1). Test Level = Receiver Reading + Antenna Factor + Cable Loss- Preamplifier Factor
2). If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

All frequencies within the “Restricted bands” have been evaluated to compliance. Except as shown in paragraph of this section, only spurious emissions are permitted in any of the frequency bands listed below:

a. FCC Part 15, Subpart C Section 15.205 Restricted bands of operation.

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.5 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			



7 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

8 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

--End of the Report--