Test Report

FCC Part15 Subpart C

Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router
Model No.	:	TL-ER604W
FCC ID	:	TE7ER604W

Applicant	:	TP-LINK TECHNOLOGIES CO., LTD.
Address	:	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

Date of Receipt	:	Jan. 27, 2016
Test Date	:	Jan. 27, 2016~Mar. 03, 2016
Issued Date	:	Mar. 09, 2016
Report No.	:	1612102R-RF-US-P06V01
Report Version	:	V1.0

Test Report Certification

Issued Date : Mar. 09, 2016
Report No. : 1612102R-RF-US-P06V01

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Address	:	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Manufacturer	:	TP-LINK TECHNOLOGIES CO., LTD.
Address	:	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Model No.	:	TL-ER604W
FCC ID	:	TE7ER604W
EUT Voltage	:	AC 100-240V, 50/60Hz
Brand Name	:	TP-LINK
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C: 2015 ANSI C63.4:2014; ANSI C63.10:2013; KDB 558074 D01v03r04 KDB 662911 D01 Multiple Transmitter Output v02r01
Test Result	:	Complied
Performed Location	:	Quietek Corporation - Suzhou EMC Laboratory No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098 FCC Registration Number: 800392

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(Engineering Manager : Harry Zhao)

Laboratory Information

We, **QuieTek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C.	**:**	**BSMI, NCC, TAF**
USA	**:**	**FCC**
Japan	**:**	**VCCI**
China	**:**	**CNAS**

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site : http://www.quietek.com/english/about/certificates.aspx?bval=5
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/index_en.aspx
If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1612102R-RF-US-P06V01	V1.0	Initial Issued Report	Mar. 09, 2016

1. General Information

1.1. EUT Description

Product Name	SafeStream Wireless N Gigabit Broadband VPN Router
Brand Name	TP-LINK
Model No.	TL-ER604W
EUT Voltage	AC 100-240V, 50/60Hz
Frequency Range	For 2.4GHz Band 802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz): 2422~2452MHz
Channel Number	For 2.4GHz Band 802.11b/g/n(20MHz): 11 802.11n(40MHz): 7
Type of Modulation	802.11b: DSSS
	802.11g: OFDM
Data Rate	802.11g: 6/9/12/18/24/36/48/54 Mbps
	802.11b: 1/2/5.5/11 Mbps
	802.11n: up to 300 Mbps
Channel Control	Auto

1.2. Working Frequency of Each Channel:

802.11b/g/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz	N/A	N/A
802.11n(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz	N/A	N/A

1.3. Antenna information

Model No.	3101500253					
Antenna manufacturer	TP-LINK					
Antenna Delivery	☐	1*TX+1*RX	☒	2*TX+2*RX	☐	3*TX+3*RX
Antenna technology	☐	SISO				
	☒	MIMO	☐	Basic		
			☒	CDD		
			☐	Beam-forming		
Antenna Type	☒	External	☒	Dipole		
	☐	Internal	☐	PIFA		
			☐	PCB		
			☐	Ceramic Chip Antenna		
			☒	Metal plate type F antenna		
Antenna Gain 0	5dBi					
Antenna Gain 1	5dBi					

1.4. Mode of Operation

Test Mode
Mode 1: Transmit by 802.11b
Mode 2: Transmit by 802.11g
Mode 3: Transmit by 802.11n(20MHz)
Mode 4: Transmit by 802.11n(40MHz)

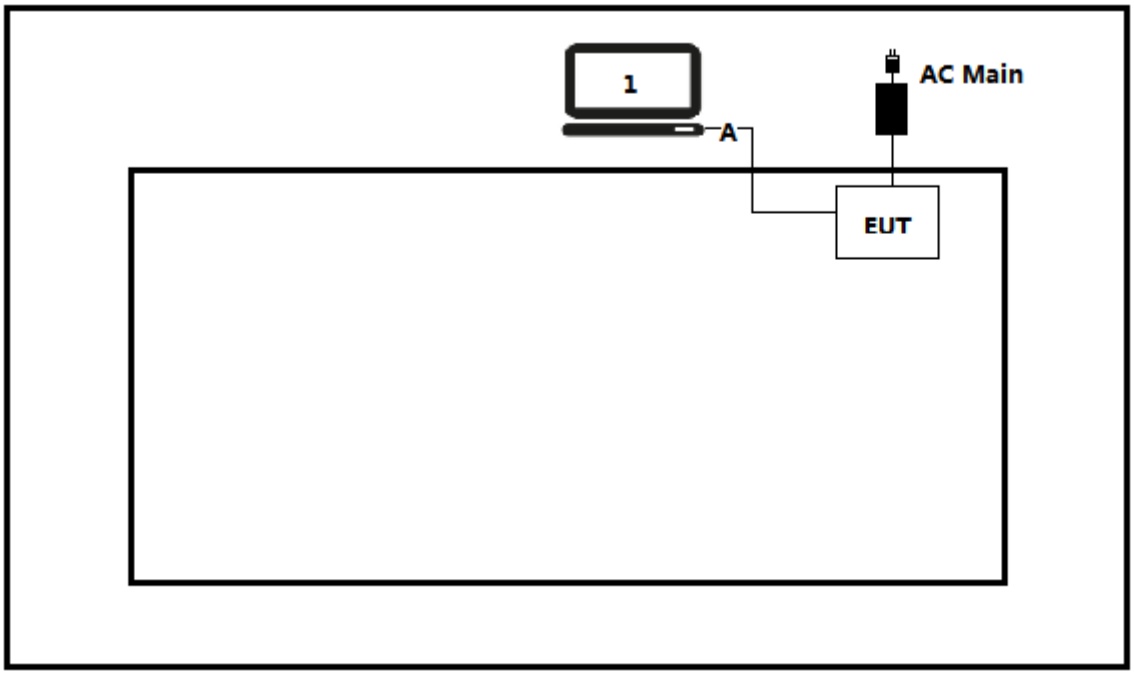
1.5. Tested System Details

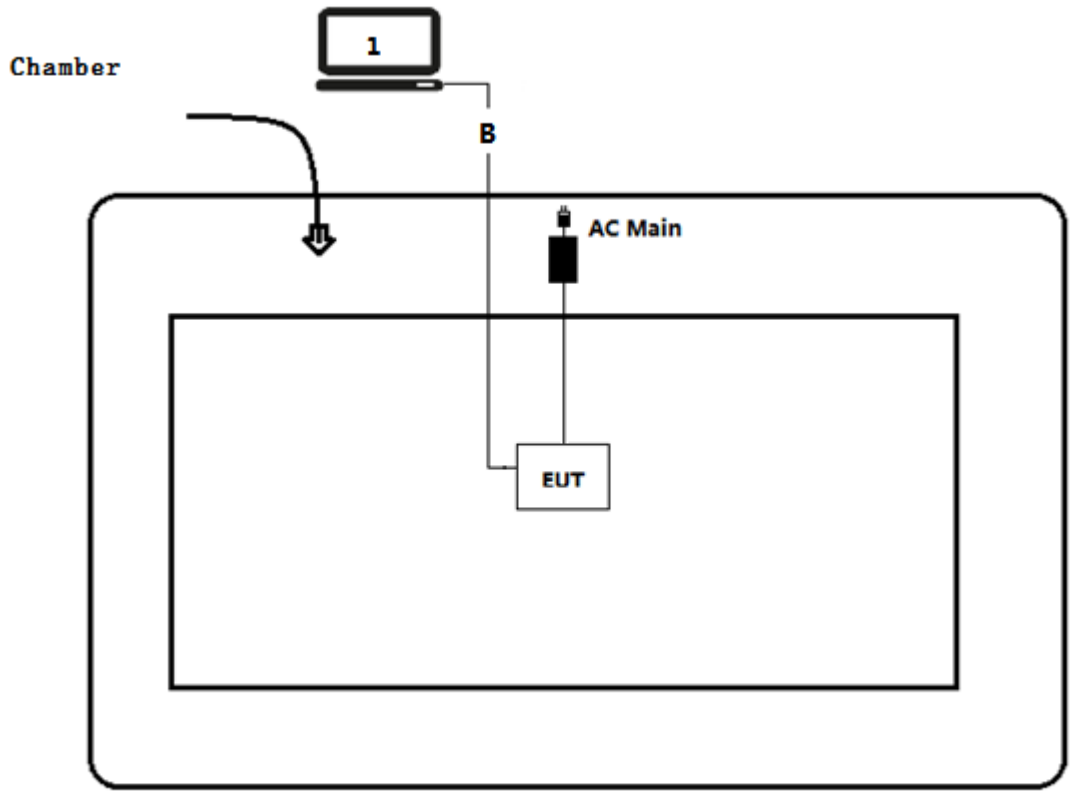
The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

No.	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Lenovo	Think pad x220	SUA0600195	Non-shielded
A	LAN cable	N/A	N/A	N/A	Non-shielded ,1.5m
B	LAN cable	N/A	N/A	N/A	Non-shielded, ≥10m

1.6. Configuration of Tested System

Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Radiated Emission


2. Technical Test

2.1. Summary of Test Result

For FCC				
Performed Test Item	Normative References	Worst case mode	Limit	Result
AC Power Line Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.207	802.11b	FCC 15.207	PASS
Emissions in restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.209	802.11b	FCC 15.209	PASS
Emissions in non-restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(d)	802.11n(40MHz)	≥30dBc	PASS
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2015 15.247(d)	802.11n(20MHz)	FCC 15.209	PASS
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(a)(2)	802.11b	≥500kHz	PASS
Fundamental emission output power	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(b)(3)	802.11g	≤30dBm	PASS
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(e)	802.11b	≤8dBm/3kHz	PASS

2.2. Test Frequency configuration:

Modulation Mode	Channel	Frequency	Channel	Frequency	Channel	Frequency
802.11b	01	2412 MHz	06	2437 MHz	11	2462MHz
802.11g	01	2412 MHz	06	2437 MHz	11	2462MHz
802.11n(20MHz)	01	2412 MHz	06	2437 MHz	11	2462MHz
802.11n(40MHz)	03	2422 MHz	06	2437 MHz	09	2452MHz

2.3. Power setting Parameter

Test Software	ART 2	
Modulation Mode	Test Frequency	Ant 0+1
802.11b	2412	18.5
	2437	21.5
	2462	17.5
802.11g	2412	14.0
	2437	21.5
	2462	13.5
802.11n(20MHz)	2412	12.5
	2437	21.0
	2462	12.5
802.11n(40MHz)	2422	9.5
	2437	14.0
	2452	10.0

2.4. Power vs Data Rate

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)						
		802.11b	802.11g	802.11a	20MHz Bandwidth		40MHz Bandwidth	
					800ns GI	400ns GI	800ns GI	400ns GI
0	1	1	6	6	6.5	7.2	13.5	15.0
1	1	2	9	9	13.0	14.4	27.0	30.0
2	1	5.5	12	12	19.5	21.7	40.5	45.0
3	1	11	18	18	26.0	28.9	54.0	60.0
4	1	---	24	24	39.0	43.3	81.0	90.0
5	1	---	36	36	52.0	57.8	108.0	120.0
6	1	---	48	48	58.5	65.0	121.5	135.0
7	1	---	54	54	65.0	72.2	135.0	150.0
8	2	---	---	---	13.0	14.4	27.0	30.0
9	2	---	---	---	26.0	28.9	54.0	60.0
10	2	---	---	---	39.0	43.3	81.0	90.0
11	2	---	---	---	52.0	57.8	108.0	120.0
12	2	---	---	---	78.0	86.7	162.0	180.0
13	2	---	---	---	104.0	115.6	216.0	240.0
14	2	---	---	---	117.0	130.0	243.0	270.0
15	2	---	---	---	130.0	144.0	270.0	300.0

Note 1 : The blue form is the maximum power data rate

2.5. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

2.6. Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	±2.02dB
Radiated Emission	Below 1GHz ±3.8 dB
	Above 1GHz ±3.9 dB
RF Antenna Port Conducted Emission	±1.27dB
Radiated Emission Band Edge	±3.9dB
Occupied Bandwidth	±1kHz
Power Spectral Density	±1.27dB

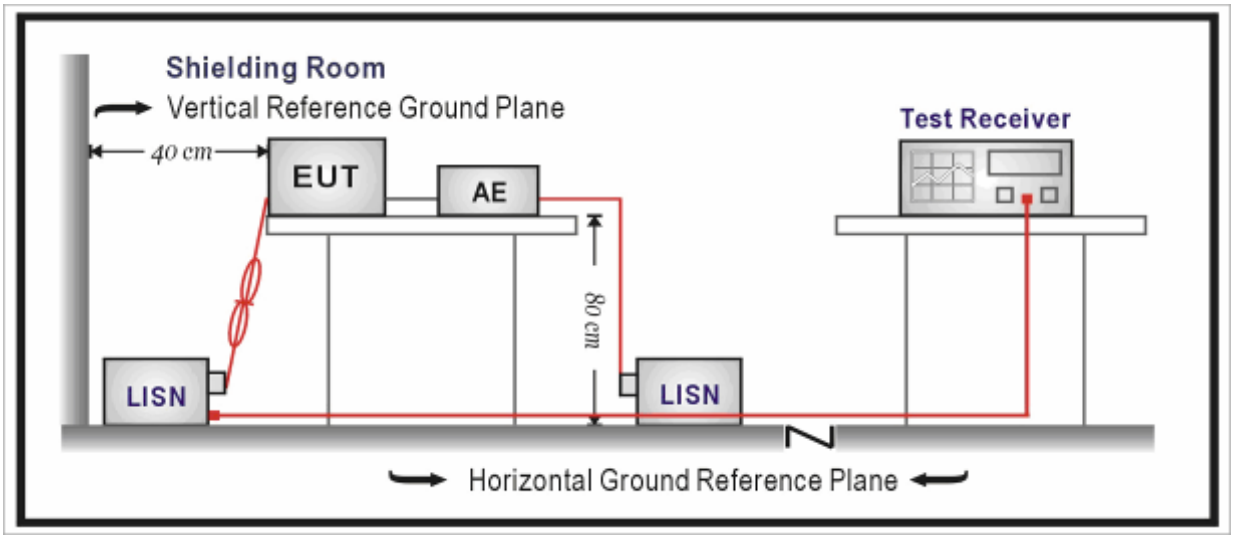
3. AC Power Line Conducted Emission

3.1. Test Equipment

AC Power Line Conducted Emission / TR-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100726	2015.03.29	2016.03.28
Two-Line V-Network	R&S	ENV216	100043	2015.03.29	2016.03.28
Two-Line V-Network	R&S	ENV216	100044	2015.09.17	2016.09.16
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2016.03.02	2017.03.01
50ohm Termination	SHX	TF2	07081401	2015.09.17	2016.09.16
Temperature/Humidity Meter	zhichen	ZC1-2	TR1-TH	2016.01.04	2017.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

3.2. Test Setup

AC Power Line Conducted Emission test setup



3.3. Limit

Frequency of Emission (MHz)	Conducted Limit	
	Quasi-peak (dB μ V)	Average(dB μ V)
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Note 1: The lower limit shall apply at the transition frequencies. Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.		

3.4. Test Procedure

Test Method			
	References Rule	Chapter	Item
☒	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices
☒	ANSI C63.4-2014	7	AC power-line conducted emission measurements

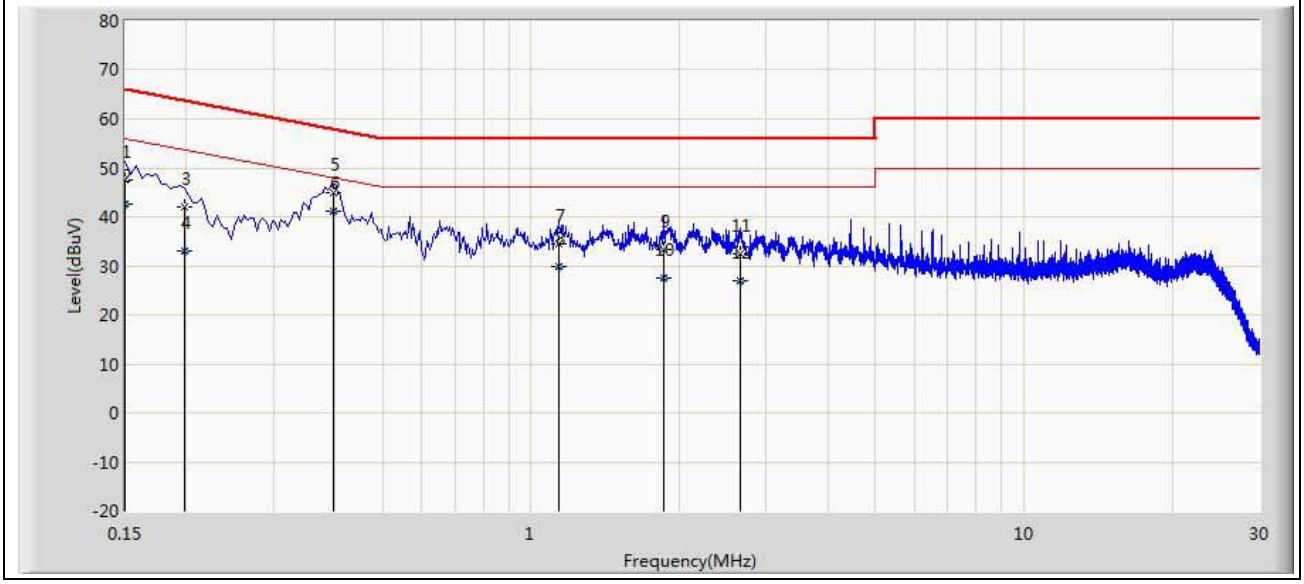
3.5. Test Result

Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Line
Test Item	:	AC Power Line Conducted Emission	Power	:	AC 120V/60Hz
Test Site	:	TR1	Test Mode	:	Mode 1

No	Frequency (MHz)	Measure Level (dB μV)	Reading Level (dB μV)	Over Limit (dB)	Limit (dB μV)	Factor (dB)	Type
1	0.150	47.511	37.890	-18.489	66.000	9.621	QP
2	0.150	42.636	33.015	-13.364	56.000	9.621	AV
3	0.198	41.994	32.373	-21.700	63.694	9.621	QP
4	0.198	33.003	23.382	-20.691	53.694	9.621	AV
5	0.398	44.978	35.349	-12.917	57.895	9.629	QP
6	0.398	41.044	31.415	-6.851	47.895	9.629	AV
7	1.138	34.510	24.841	-21.490	56.000	9.669	QP
8	1.138	29.991	20.324	-16.008	46.000	9.669	AV
9	1.858	33.227	23.535	-22.773	56.000	9.692	QP
10	1.858	27.464	17.772	-18.536	46.000	9.692	AV
11	2.662	32.416	22.699	-23.584	56.000	9.717	QP
12	2.662	26.977	17.260	-19.023	46.000	9.717	AV

Note: All the test modes are tested and Mode1 is the worst case testing mode.

Polarity: Line

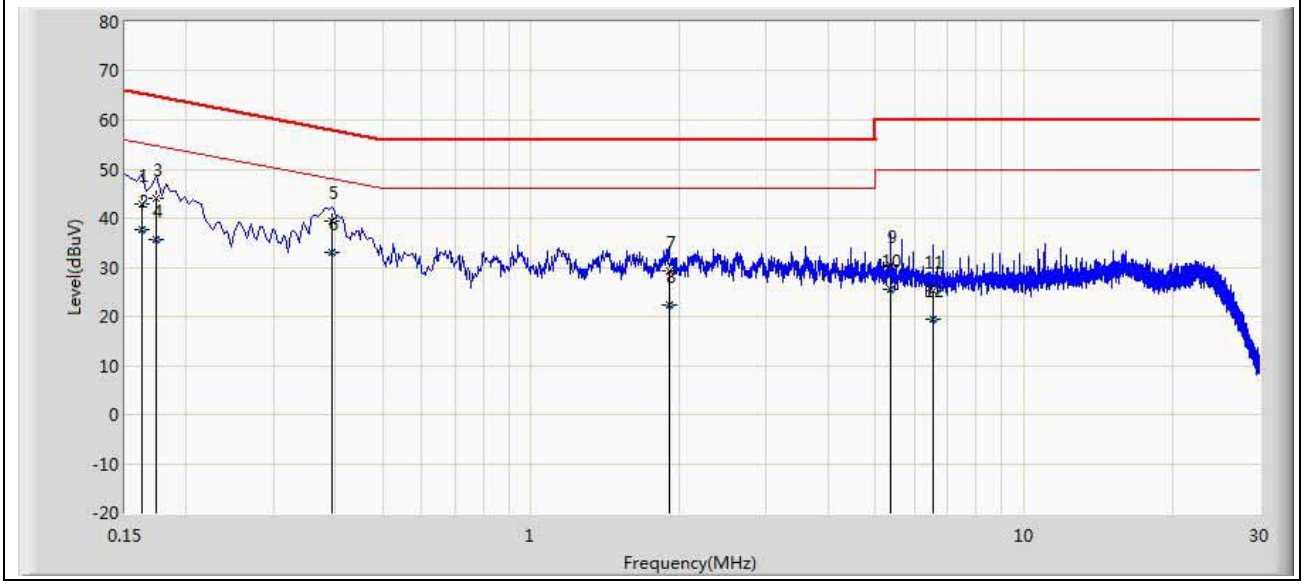


Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Neutral
Test Item	:	AC Power Line Conducted Emission	Power	:	AC 120V/60Hz
Test Site	:	TR1	Test Mode	:	Mode 1

No	Frequency (MHz)	Measure Level (dB μV)	Reading Level (dB μV)	Over Limit (dB)	Limit (dB μV)	Factor (dB)	Type
1	0.162	42.954	33.354	-22.407	65.361	9.600	QP
2	0.162	37.745	28.145	-17.616	55.361	9.600	AV
3	0.174	44.011	34.412	-20.756	64.767	9.599	QP
4	0.174	35.549	25.950	-19.218	54.767	9.599	AV
5	0.394	39.410	29.793	-18.569	57.979	9.617	QP
6	0.394	32.943	23.326	-15.037	47.979	9.617	AV
7	1.902	29.225	19.552	-26.775	56.000	9.673	QP
8	1.902	22.329	12.656	-23.671	46.000	9.673	AV
9	5.354	30.530	20.770	-29.469	60.000	9.760	QP
10	5.354	25.582	15.822	-24.418	50.000	9.760	AV
11	6.534	25.118	15.324	-34.882	60.000	9.794	QP
12	6.534	19.501	9.707	-30.499	50.000	9.794	AV

Note: All the test modes are tested and Mode1 is the worst case testing mode.

Polarity: Neutral



4. Emissions in restricted frequency bands

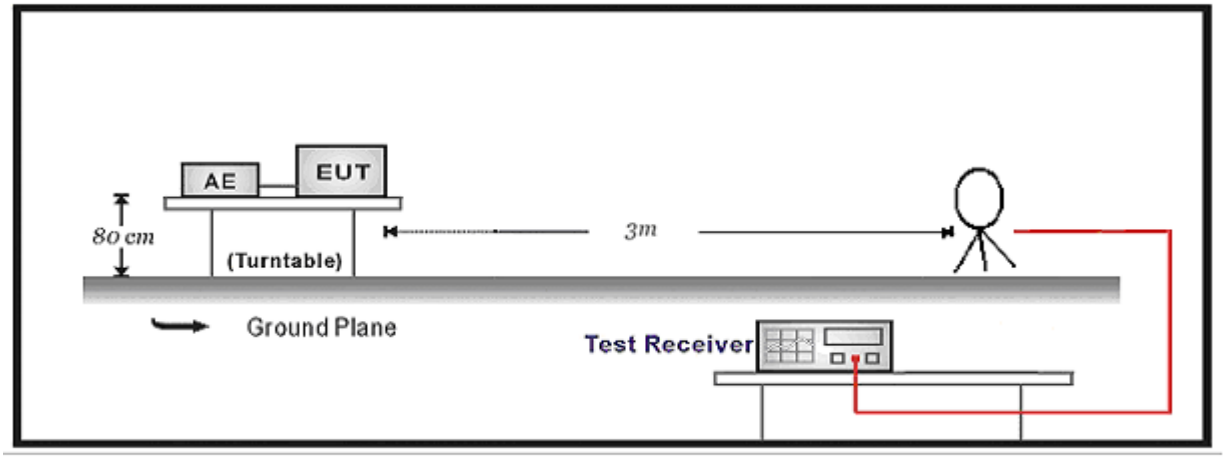
4.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2015.03.29	2016.03.28
Loop Antenna	R&S	HFH2-Z2	833799/003	2015.11.16	2016.11.17
Bilog Chainenna	Teseq GmbH	CBL6112D	27611	2015.10.16	2016.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2016.03.02	2017.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2016.01.04	2017.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

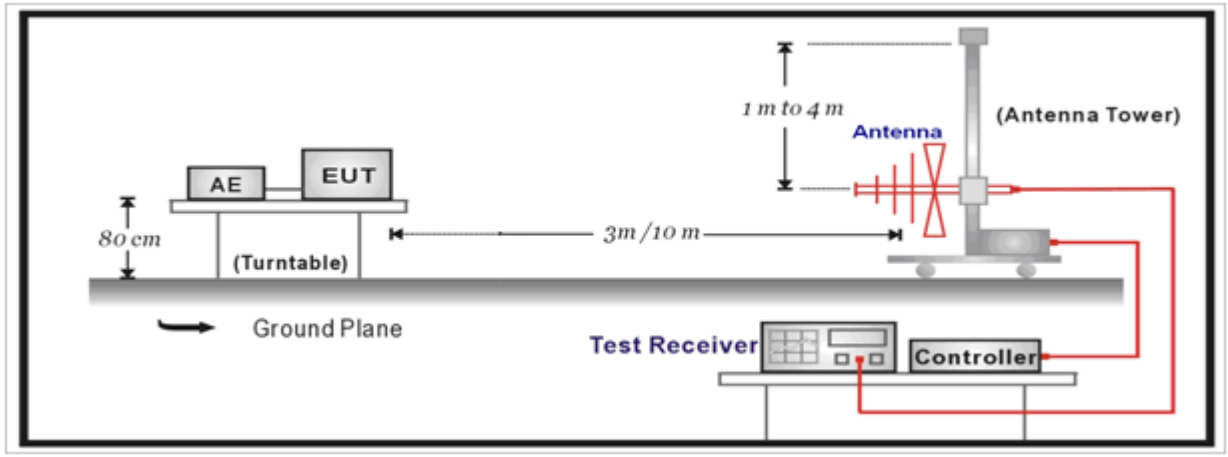
Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2015.05.06	2016.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2015.05.06	2016.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	2017.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2014.11.25	2015.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2015.06.10	2016.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016.01.04	2017.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

4.2. Test Setup

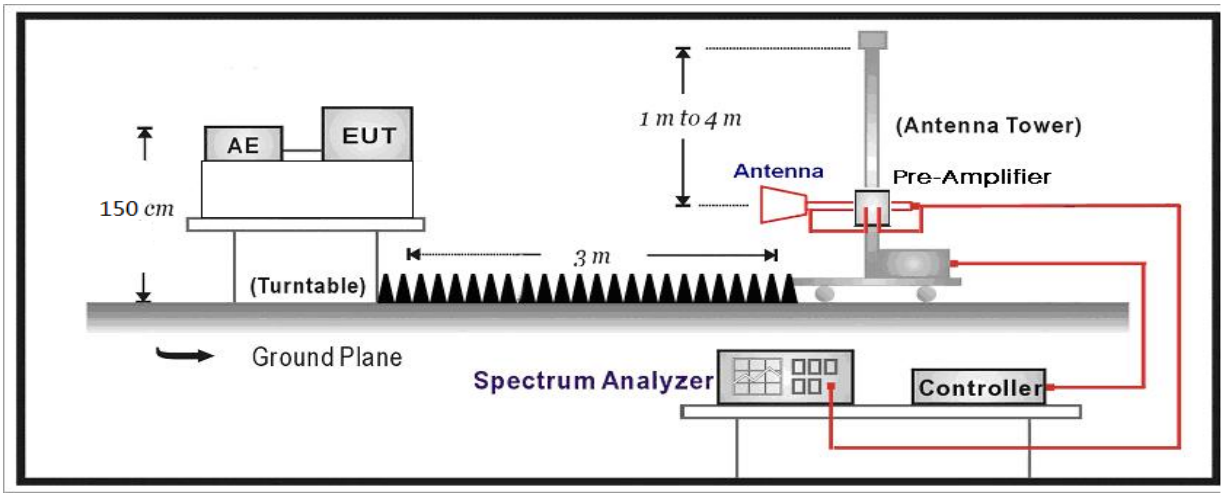
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

Restricted Bands of operation			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
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	10.6 – 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	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	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			

Restricted Band Emissions Limit			
Frequency (MHz)	Field strength (μV/m)	Field strength (dB μV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30(Note 1)
1.705 - 30	30	29.5	30(Note 1)
30 - 88	100	40	3(Note 2)
88 - 216	150	43.5	3(Note 2)
216 - 960	200	46	3(Note 2)
Above 960	500	54	3(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.4. Test Procedure

Test Method						
	References Rule				Chapter	Description
☐	ANSI C63.10				11.11	Emissions in non-restricted frequency bands
	☐	ANSI C63.10			11.11.2	Reference level measurement
	☐	ANSI C63.10			11.11.3	Emission level measurement
☒	ANSI C63.10				11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10			11.12.1	Radiated emission measurements
	☒	ANSI C63.10			11.12.2.7	Radiated spurious emission test
		☒	ANSI C63.10		6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
		☒	ANSI C63.10		6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
		☒	ANSI C63.10		6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
	☐	ANSI C63.10			11.12.2	Antenna-port conducted measurements
		☐	ANSI C63.10		11.12.2.3	Quasi-peak measurement procedure
		☐	ANSI C63.10		11.12.2.4	Peak power measurement procedure
		☒	ANSI C63.10		11.12.2.5	Average power measurement procedures
			☐	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
			☐	ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
			☒	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

4.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Emissions in restricted frequency bands</td></tr>
<tr><td rowspan="2">Device Category</td><td>☒</td><td colspan="3">Fixed position use</td></tr>
<tr><td>☐</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1,Mode 2, Mode 3,Mode 4</td></tr>
<tr><td rowspan="13">Test method</td><td>☒</td><td colspan="3">Radiated</td></tr>
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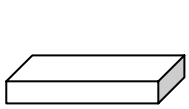
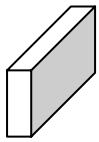
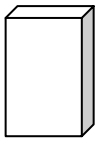
<tr><td>  </td><td>  </td><td>  </td></tr>
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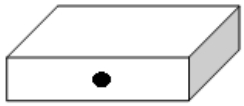
<tr><td></td><td colspan="3">  </td></tr>
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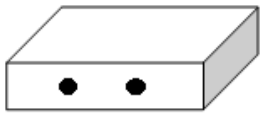
<tr><td rowspan="2"></td><td colspan="3">  </td></tr>
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<tr><td>Worst Chain ☐</td><td>Worst Chain ☐</td><td>Worst Chain ☐</td></tr>
</table>

4.6. Test Result

Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1	Test Site	:	AC-5

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dB μ V/m)	Factor (dB)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
Ant 0+1	1	H	4824.0	37.1	8.0	45.1	54(note3)	-8.9	PK
		V	4825.0	39.5	8.0	47.5	54(note3)	-6.5	PK
		H	7236.0	32.8	13.0	45.8	54(note3)	-8.2	PK
		V	7236.0	33.6	13.0	46.5	54(note3)	-7.5	PK
		H	9648.0	30.4	16.0	46.4	54(note3)	-7.6	PK
		V	9648.0	31.9	16.0	47.9	54(note3)	-6.1	PK
	6	H	4876.0	42.3	8.2	50.5	54(note3)	-3.5	PK
		V	4876.0	46.4	8.2	54.6	74	-19.4	PK
		V	4874.0	45.8	8.1	53.9	54	-0.1	AV
		H	7307.0	37.4	12.4	49.9	54(note3)	-4.1	PK
		V	7307.0	38.6	12.4	51.0	54(note3)	-3.0	PK
		H	9746.5	33.1	15.9	49.0	54(note3)	-5.0	PK
		V	9746.5	38.9	15.9	54.8	74	-19.2	PK
		V	9748.0	36.3	15.9	52.1	54	-2.9	PK
	11	H	4927.0	39.5	8.3	47.8	74.0	-6.2	PK
		H	4924.0	37.8	8.3	46.0	74.0	-8.0	PK
		H	7386.0	32.6	12.7	45.3	74.0	-8.7	PK
		H	7386.0	32.1	12.7	44.9	74.0	-9.1	PK
		V	9848.0	30.8	16.3	47.1	74.0	-6.9	PK
		V	9848.0	32.2	16.3	48.5	74.0	-5.5	PK

Note: 1. Measure Level = Reading Level + Factor.

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

Note: 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Note: 4. The RBW set up, see Clause 6.6 of ANSI C63.10.

Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Power	:	AC 120V/60Hz
Test Site	:	Mode 2	Test Site	:	AC-5

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dB μ V/m)	Factor (dB)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
Ant 0+1	1	H	4824.0	34.5	8.0	42.4	54(note3)	-11.6	PK
		V	4824.0	35.3	8.0	43.3	54(note3)	-10.7	PK
		H	7236.0	32.5	13.0	45.5	54(note3)	-8.5	PK
		V	7236.0	32.2	13.0	45.2	54(note3)	-8.8	PK
		H	9648.0	30.4	16.0	46.4	54(note3)	-7.6	PK
		V	9648.0	30.5	16.0	46.5	54(note3)	-7.5	PK
	6	H	4876.0	42.9	8.2	51.0	54(note3)	-3.0	PK
		V	4876.0	50.3	8.2	58.5	74	-15.5	PK
		V	4873.1	36.9	8.1	45.0	54	-9.0	AV
		H	7315.5	43.2	12.7	55.9	74	-18.1	PK
		H	7311.2	29.9	12.6	42.5	54	-11.5	AV
		V	7315.5	43.1	12.7	55.8	74	-18.2	PK
		V	7310.7	30.1	12.6	42.6	54	-11.4	PK
		H	9746.5	34.2	15.9	50.0	54(note3)	-4.0	PK
		V	9746.5	40.6	15.9	56.5	74	-17.5	PK
		V	9748.6	27.2	15.9	43.0	54	-11.0	AV
	11	H	4924.0	34.2	8.3	42.5	54(note3)	-11.5	PK
		V	4924.0	35.0	8.3	43.2	54(note3)	-10.8	PK
		H	7386.0	32.8	12.7	45.5	54(note3)	-8.5	PK
		V	7386.0	32.9	12.7	45.6	54(note3)	-8.4	PK
		H	9848.0	30.1	16.3	46.4	54(note3)	-7.6	PK
		V	9848.0	31.5	16.3	47.9	54(note3)	-6.1	PK

Note: 1. Measure Level = Reading Level + Factor.

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

Note: 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Note: 4. The RBW set up, see Clause 6.6 of ANSI C63.10.

Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Power	:	AC 120V/60Hz
Test Site	:	Mode 3	Test Site	:	AC-5

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dB μV/m)	Factor (dB)	Measure Level (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Detector
Ant 0+1	1	H	4824.0	34.6	8.0	42.6	54(note3)	-11.4	PK
		V	4824.0	34.5	8.0	42.5	54(note3)	-11.5	PK
		H	7236.0	32.2	13.0	45.2	54(note3)	-8.8	PK
		V	7236.0	31.8	13.0	44.8	54(note3)	-9.2	PK
		H	9648.0	30.4	16.0	46.4	54(note3)	-7.6	PK
		V	9648.0	31.2	16.0	47.2	54(note3)	-6.8	PK
	6	H	4867.5	42.8	8.1	50.8	54(note3)	-3.2	PK
		V	4867.5	49.4	8.1	57.5	74	-16.5	PK
		V	4872.1	33.5	8.1	41.6	54	-12.4	AV
		H	7315.5	46.8	12.7	59.5	74	-14.5	PK
		H	7314.3	26.5	12.7	39.2	54	-14.8	AV
		V	7298.5	43.0	12.4	55.4	74	-18.6	PK
		V	7307.6	26.6	12.5	39.0	54	-15.0	AV
		H	9746.5	35.2	15.9	51.1	54(note3)	-2.9	PK
		V	9738.0	38.9	16.0	54.9	74	-19.1	PK
		V	9747.7	25.9	15.9	41.8	54	-12.2	AV
	11	H	4924.0	34.4	8.3	42.7	54(note3)	-11.3	PK
		V	4924.0	34.6	8.3	42.8	54(note3)	-11.2	PK
		H	7386.0	31.9	12.7	44.6	54(note3)	-9.4	PK
		V	7386.0	32.1	12.7	44.8	54(note3)	-9.2	PK
		H	9848.0	30.1	16.3	46.5	54(note3)	-7.5	PK
		V	9848.0	30.2	16.3	46.5	54(note3)	-7.5	PK

Note: 1. Measure Level = Reading Level + Factor.

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

Note: 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Note: 4. The RBW set up, see Clause 6.6 of ANSI C63.10.

Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Power	:	AC 120V/60Hz
Test Site	:	Mode 4	Test Site	:	AC-5

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dB μV/m)	Factor (dB)	Measure Level (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Detector
Ant 0+1	3	H	4844.0	33.9	8.2	42.1	54(note3)	-11.9	PK
		V	4844.0	34.6	8.2	42.8	54(note3)	-11.2	PK
		H	7266.0	32.1	12.8	44.9	54(note3)	-9.1	PK
		V	7266.0	33.1	12.8	45.8	54(note3)	-8.2	PK
		H	9688.0	30.1	15.7	45.8	54(note3)	-8.2	PK
		V	9688.0	29.5	15.7	45.3	54(note3)	-8.7	PK
	6	H	4874.0	34.7	8.1	42.8	54(note3)	-11.2	PK
		V	4874.0	34.9	8.1	43.1	54(note3)	-10.9	PK
		H	7311.0	31.8	12.6	44.4	54(note3)	-9.6	PK
		V	7311.0	32.4	12.6	45.0	54(note3)	-9.0	PK
		H	9748.0	30.3	15.9	46.2	54(note3)	-7.8	PK
		V	9748.0	31.0	15.9	46.9	54(note3)	-7.1	PK
	9	H	4904.0	33.5	8.3	41.8	54(note3)	-12.2	PK
		V	4904.0	33.3	8.3	41.5	54(note3)	-12.5	PK
		H	7356.0	32.9	13.3	46.2	54(note3)	-7.8	PK
		V	7356.0	32.4	13.3	45.7	54(note3)	-8.3	PK
		H	9808.0	30.3	16.0	46.2	54(note3)	-7.8	PK
		V	9808.0	30.3	16.0	46.3	54(note3)	-7.7	PK

Note: 1. Measure Level = Reading Level + Factor.

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

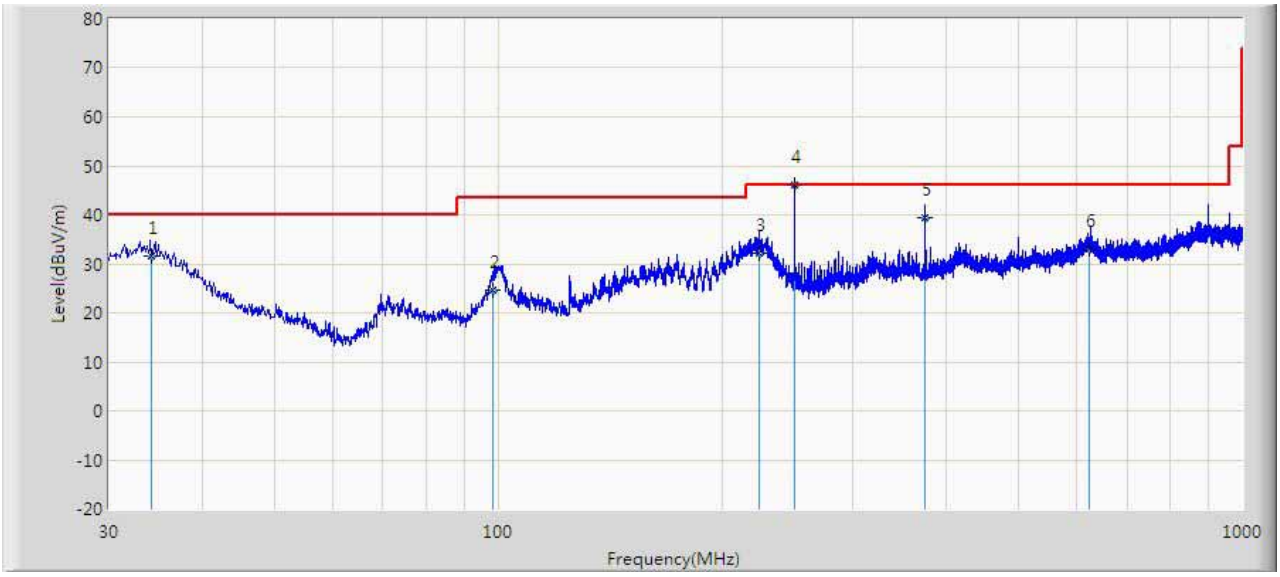
Note: 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Note: 4. The RBW set up, see Clause 6.6 of ANSI C63.10.

The worst case of Radiated Emission below 1GHz:

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dB μ V/m)	Factor (dB)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
Ant 0+1	1	H	34.236	4.300	27.355	31.655	40.000	-8.345	QP
		H	98.236	8.100	16.454	24.554	43.500	-18.946	QP
		H	224.215	14.200	18.063	32.263	46.000	-13.737	QP
		H	250.004	27.800	18.178	45.978	46.000	-0.022	QP
		H	375.236	15.300	24.011	39.311	46.000	-6.689	QP
		H	624.236	2.300	30.728	33.028	46.000	-12.972	QP
		V	34.729	16.200	22.988	39.188	40.000	-0.812	QP
		V	97.236	15.236	20.806	36.042	43.500	-7.458	QP
		V	162.326	12.100	19.201	31.300	43.500	-12.200	QP
		V	207.215	11.200	23.506	34.706	43.500	-8.794	QP
		V	250.236	19.500	24.679	44.179	46.000	-1.821	QP
		V	275.236	17.236	24.189	41.425	46.000	-4.575	QP
Note 1: The worst case of Radiated Emission below 1GHz is Mode 1.									

Polarity: Horizontal



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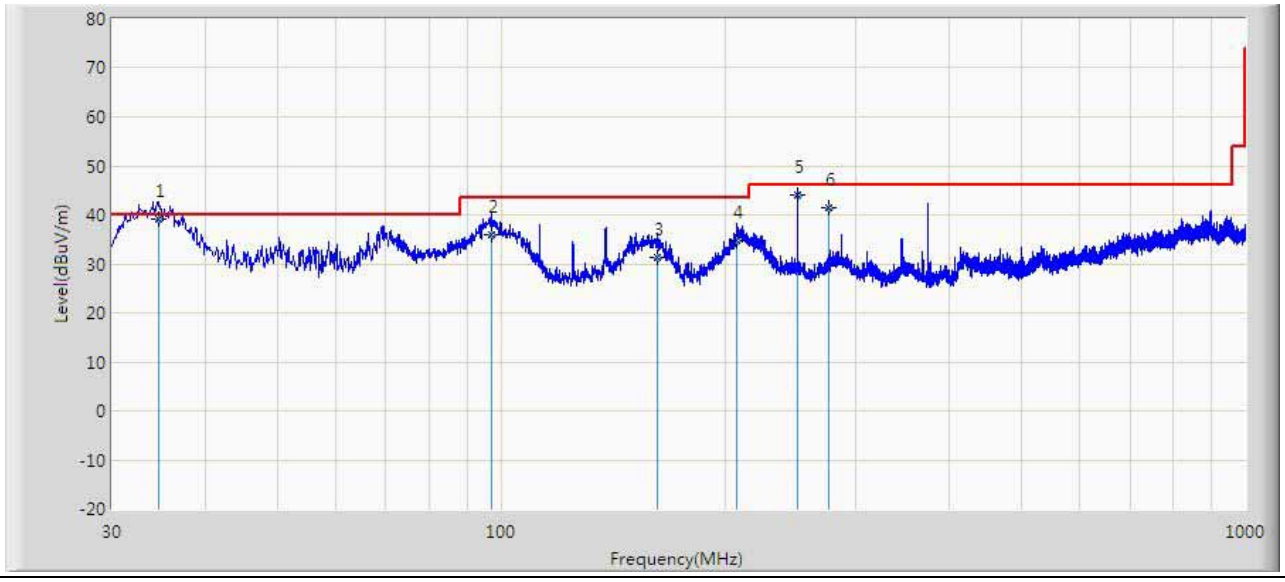
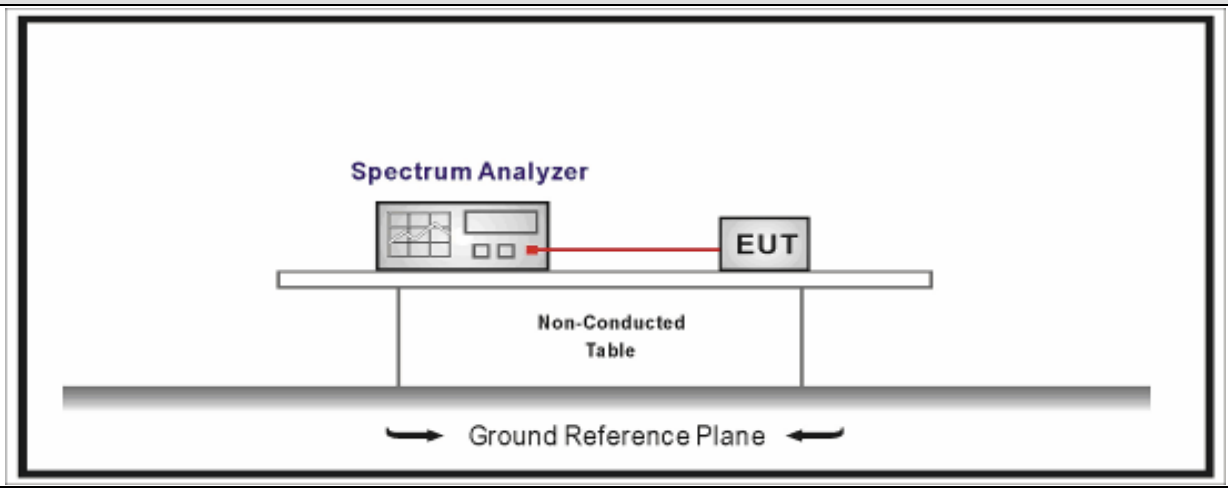


5. Emissions in non-restricted frequency bands

5.1. Test Equipment

Conducted emission at antenna ports / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2015.04.10	2016.04.09
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

5.2. Test Setup



5.3. Limit

Un-Restricted Band Emissions Limit	
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30c(Note1)
RF Output power(PK detector)	20c(Note2)

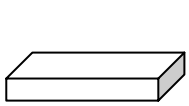
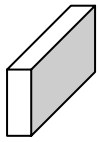
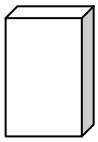
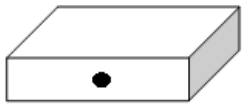
Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

5.4. Test Procedure

Test Method						
	References Rule				Chapter	Description
☒	ANSI C63.10				11.11	Emissions in non-restricted frequency bands
	☒	ANSI C63.10			11.11.2	Reference level measurement
	☒	ANSI C63.10			11.11.3	Emission level measurement
☐	ANSI C63.10				11.12	Emissions in restricted frequency bands
	☐	ANSI C63.10			11.12.1	Radiated emission measurements
	☐	ANSI C63.10			11.12.2.7	Radiated spurious emission test
☐	ANSI C63.10				6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☐	ANSI C63.10				6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☐	ANSI C63.10				6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
	☐	ANSI C63.10			11.12.2	Antenna-port conducted measurements
		☐	ANSI C63.10		11.12.2.3	Quasi-peak measurement procedure
		☐	ANSI C63.10		11.12.2.4	Peak power measurement procedure
		☐	ANSI C63.10		11.12.2.5	Average power measurement procedures
			☐	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
			☐	ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
			☐	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

5.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Emissions in non-restricted frequency bands</td></tr>
<tr><td rowspan="2">Device Category</td><td>☒</td><td colspan="3">Fixed position use</td></tr>
<tr><td>☐</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1,Mode 2, Mode 3,Mode 4 (Worst mode is Mode 4)</td></tr>
<tr><td rowspan="13">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 0</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
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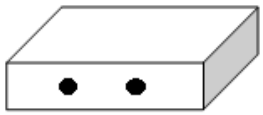
<tr><td rowspan="2"></td><td colspan="3">  </td></tr>
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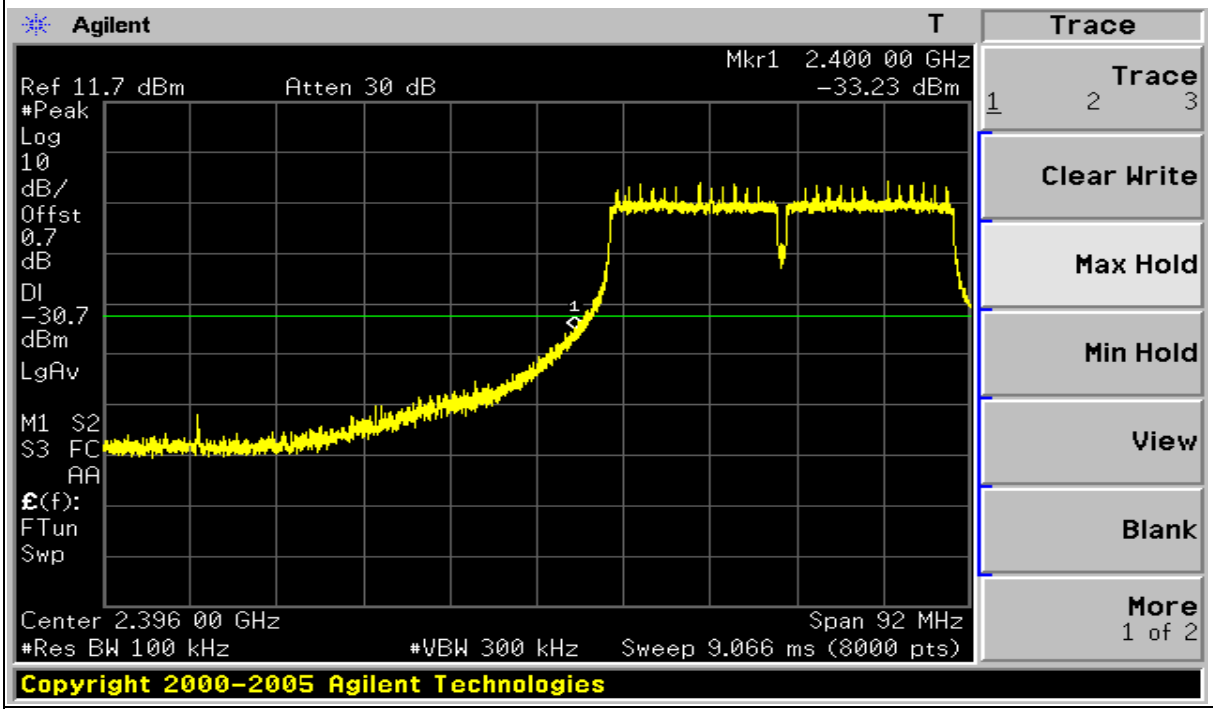
<tr><td>Worst Chain ☐</td><td>Worst Chain ☐</td><td>Worst Chain ☐</td></tr>
</table>

5.6. Test Result

ANT0								
Mode	Channel	Test Frequency (MHz)	In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	01	2412	11.58	2398	-31.31	42.89	>30	Pass
1	11	2462	11.58	2500	-53.62	65.20	>30	Pass
2	01	2412	9.70	2400	-28.35	38.05	>30	Pass
2	11	2462	9.70	2500	-54.04	63.74	>30	Pass
3	01	2412	9.28	2400	-29.49	38.77	>30	Pass
3	11	2462	9.28	2500	-54.79	64.07	>30	Pass
4	03	2422	-0.74	2400	-33.23	32.49	>30	Pass
4	09	2452	-0.74	2500	-54.28	53.54	>30	Pass

Note: The worst case of emissions in non-restricted frequency bands is:
left emission of 802.11n(40MHz), antenna 0, plot as below:

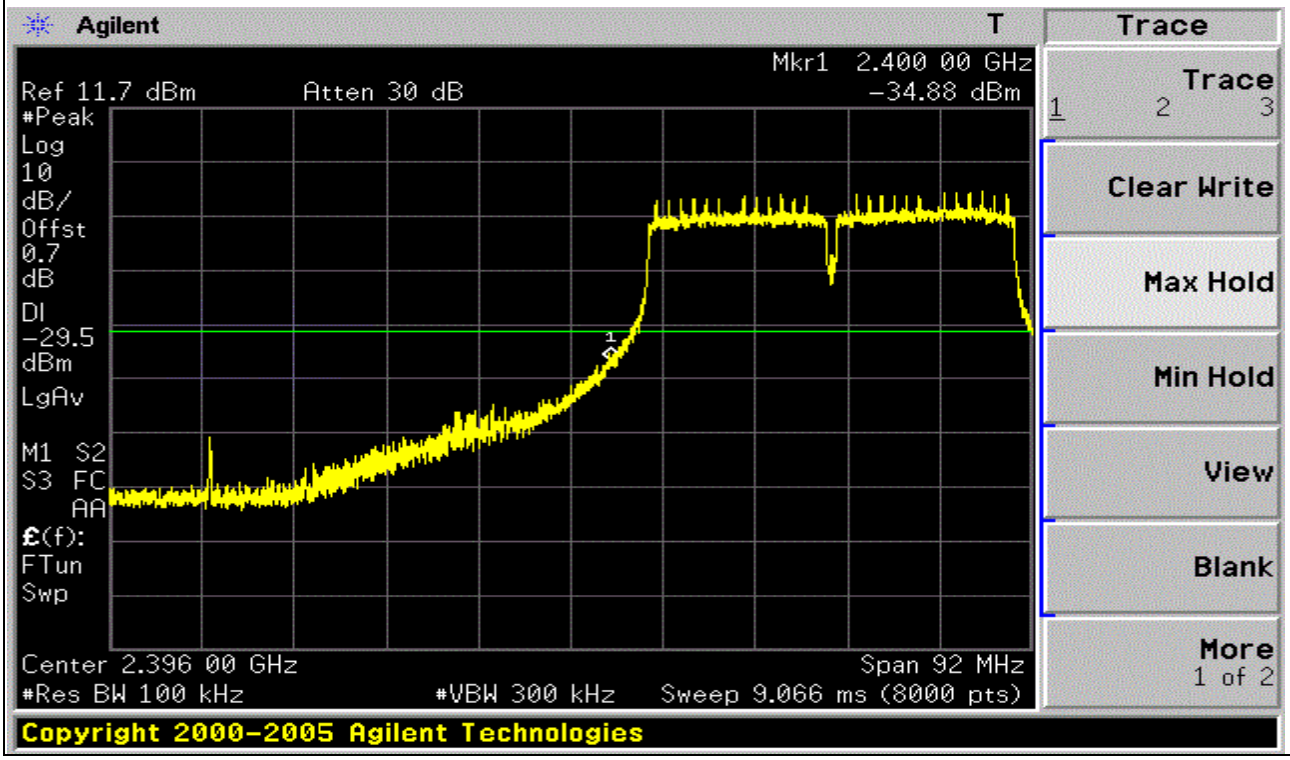
2422MHz



ANT1								
Mode	Channel	Test Frequency (MHz)	In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	01	2412	11.60	2397.525	-30.80	42.40	>30	Pass
1	11	2462	11.60	2500	-49.84	61.44	>30	Pass
2	01	2412	10.30	2400	-29.68	39.98	>30	Pass
2	11	2462	10.30	2500	-55.66	65.96	>30	Pass
3	01	2412	9.93	2400	-30.36	40.29	>30	Pass
3	11	2462	9.93	2500	-56.18	66.11	>30	Pass
4	03	2422	0.46	2400	-34.88	35.34	>30	Pass
4	09	2452	0.46	2500	-56.15	56.61	>30	Pass

Note: The worst case of emissions in non-restricted frequency bands is:
left emission of 802.11n(40MHz), antenna 1, plot as below:

2422MHz

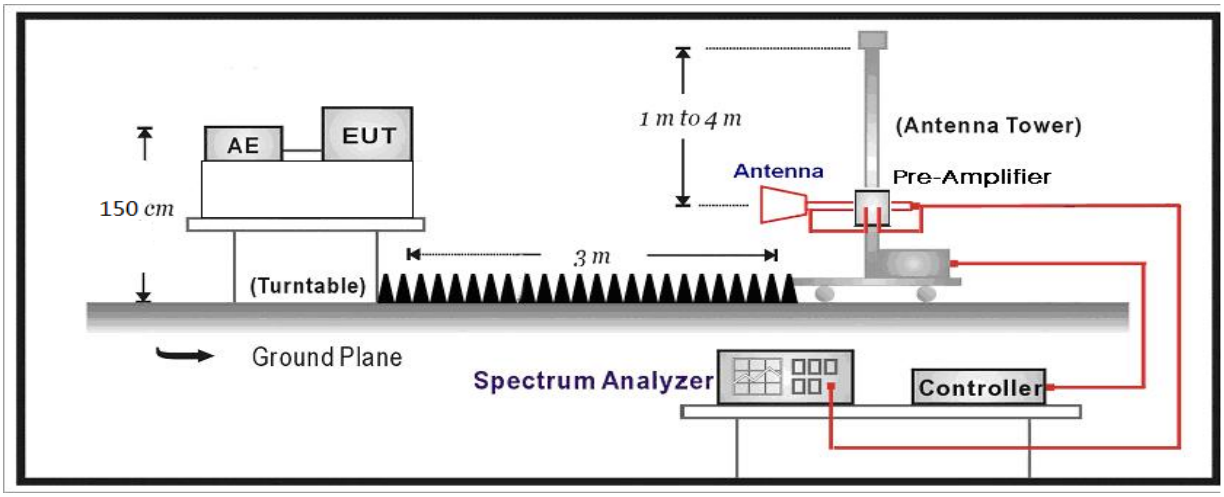


6. Radiated Emission Band Edge

6.1. Test Equipment

Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2015.05.06	2016.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2015.05.06	2016.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	2017.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2014.11.25	2015.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2015.06.10	2016.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016.01.04	2017.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

6.2. Test Setup

Above 1GHz Test Setup:


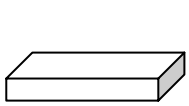
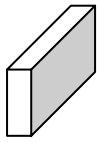
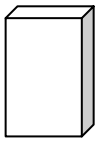
6.3. Limit

Band edge Limit				
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3
Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.				

6.4. Test Procedure

Test Method						
	References Rule				Chapter	Description
☒	ANSI C63.10				6.10	Band-edge testing
	☐	ANSI C63.10			6.10.5	Restricted-band band-edge measurements
	☒	ANSI C63.10			6.10.6	Marker-delta method
☒	ANSI C63.10				11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10			11.12.1	Radiated emission measurements
	☒	ANSI C63.10			11.12.2.7	Radiated spurious emission test
☐	ANSI C63.10				6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☐	ANSI C63.10				6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☒	ANSI C63.10				6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
	☐	ANSI C63.10			11.12.2	Antenna-port conducted measurements
		☐	ANSI C63.10		11.12.2.3	Quasi-peak measurement procedure
		☒	ANSI C63.10		11.12.2.4	Peak power measurement procedure
		☒	ANSI C63.10		11.12.2.5	Average power measurement procedures
			☐	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
			☐	ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
			☒	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

6.5. EUT test definition

<table>
<tr><td>Item</td><td colspan="4">Emissions in non-restricted frequency bands</td></tr>
<tr><td rowspan="2">Device Category</td><td>☒</td><td colspan="3">Fixed position use</td></tr>
<tr><td>☐</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1,Mode 2, Mode 3,Mode 4</td></tr>
<tr><td rowspan="15">Test method</td><td>☒</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☒</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
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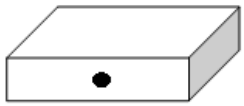
<tr><td></td><td colspan="3">  </td></tr>
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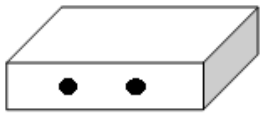
<tr><td rowspan="2"></td><td colspan="3">  </td></tr>
<tr><td>Worst Chain ☐</td><td colspan="2">Worst Chain ☐</td></tr>
<tr><td>☐</td><td>Chain 0</td><td>Chain 1</td><td>Chain 2</td></tr>
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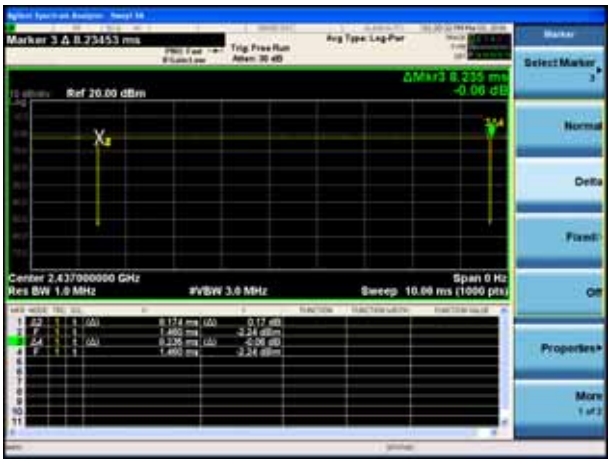
<tr><td>Worst Chain ☐</td><td>Worst Chain ☐</td><td>Worst Chain ☐</td></tr>
</table>

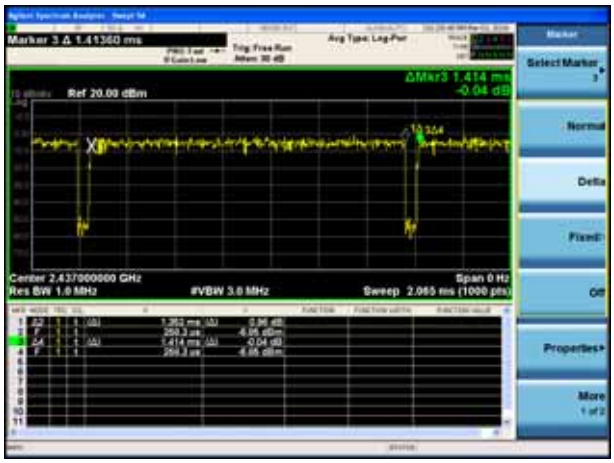
6.6. Duty Cycle

Test Mode	Tx On (ms)	Tx Off (ms)	VBW 1/T (kHz)	Tx On + Tx Off (ms)	Duty Cycle
802.11b	8.174	0.061	0.122	8.235	99.26%
802.11g	1.352	0.062	0.740	1.414	95.62%
802.11n(20MHz)	1.259	0.062	0.794	1.321	95.31%
802.11n(40MHz)	0.632	0.038	1.582	0.670	94.33%

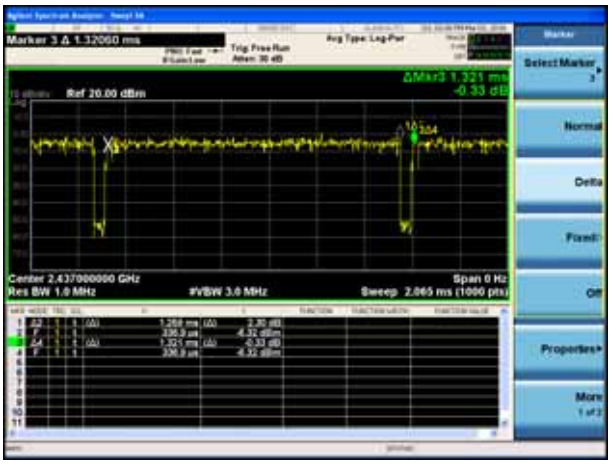
802.11b



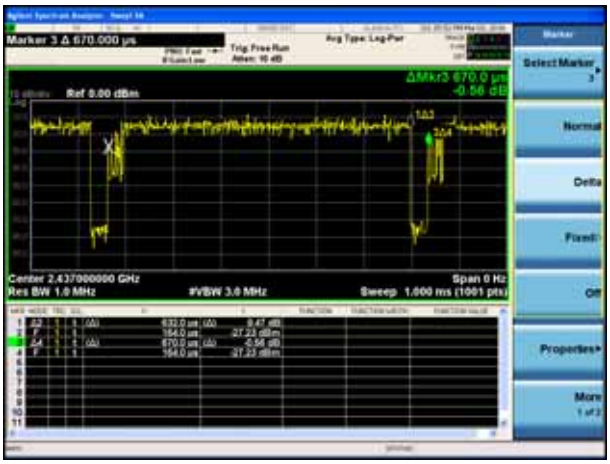
802.11g



802.11n(20MHz)



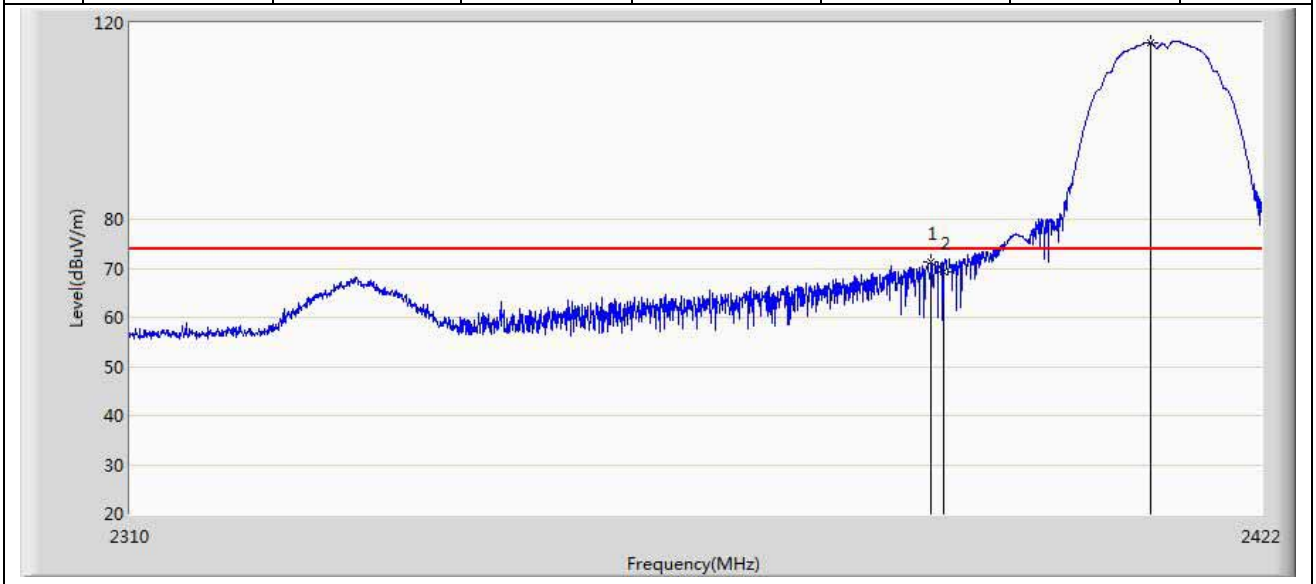
802.11n(40MHz)

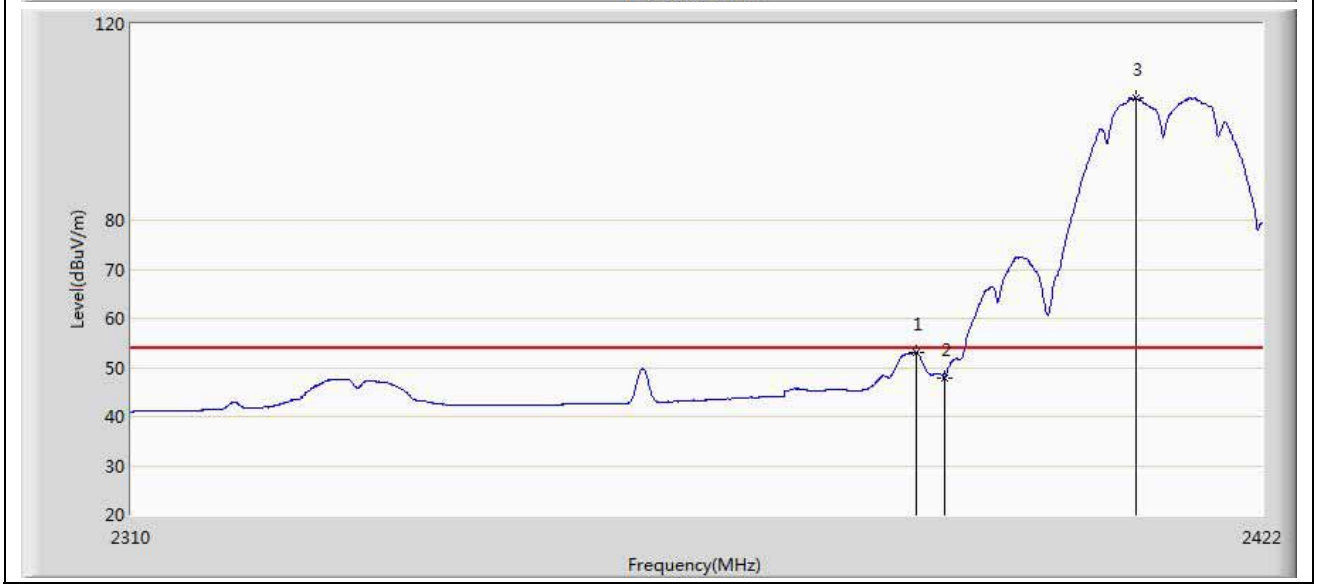


6.7. Test Result

Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Horizontal
Test Mode	:	Mode 1	Power	:	AC 120V/60Hz
Test CH/Freq	:	CH01/2412MHz	Test Site	:	AC5

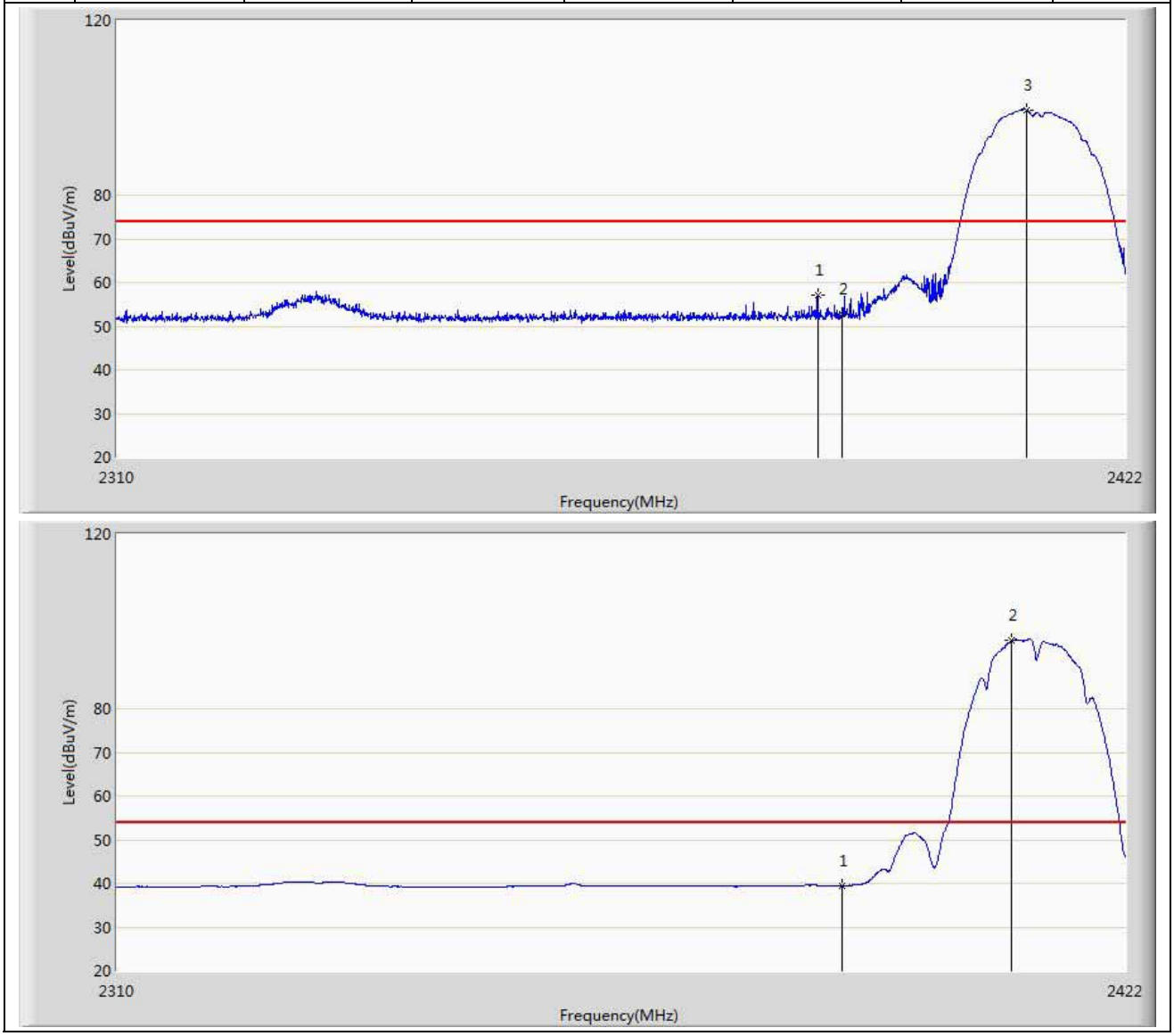
No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2388.736	71.180	33.824	-2.820	74.000	37.355	PK
3	2410.856	116.047	78.719	N/A	N/A	37.328	PK
1	2387.224	53.076	15.720	-0.924	54.000	37.357	AV
3	2409.176	104.968	67.638	N/A	N/A	37.331	AV





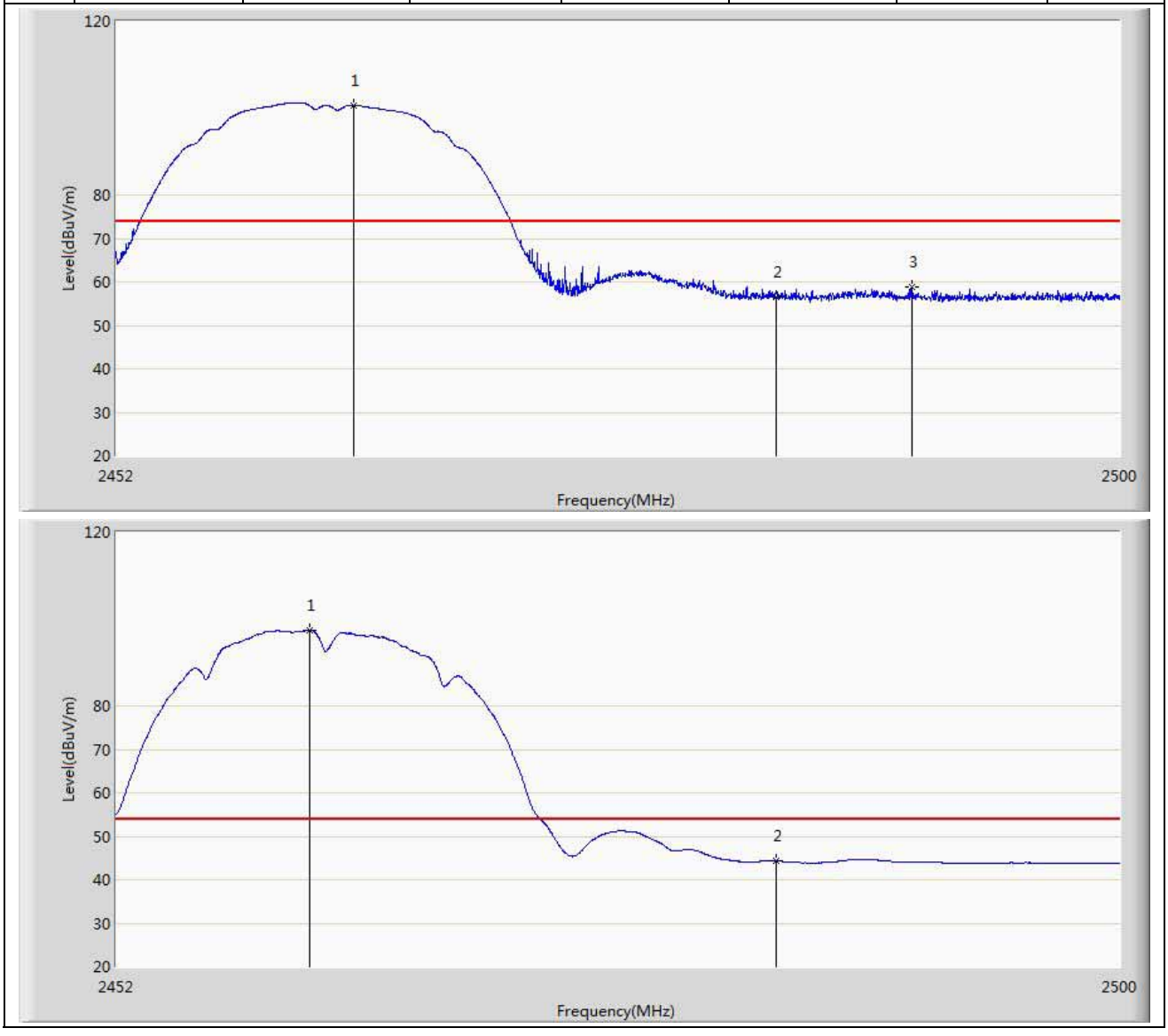
Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Vertical
Test Mode	:	Mode 1	Power	:	AC 120V/60Hz
Test CH/Freq	:	CH01/2412MHz	Test Site	:	AC5

No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2387.336	56.996	19.640	-17.004	74.000	37.356	PK
3	2410.856	99.549	62.221	N/A	N/A	37.328	PK
1	2390.000	39.509	2.154	-14.491	54.000	37.355	AV
2	2409.120	95.656	58.325	N/A	N/A	37.331	AV



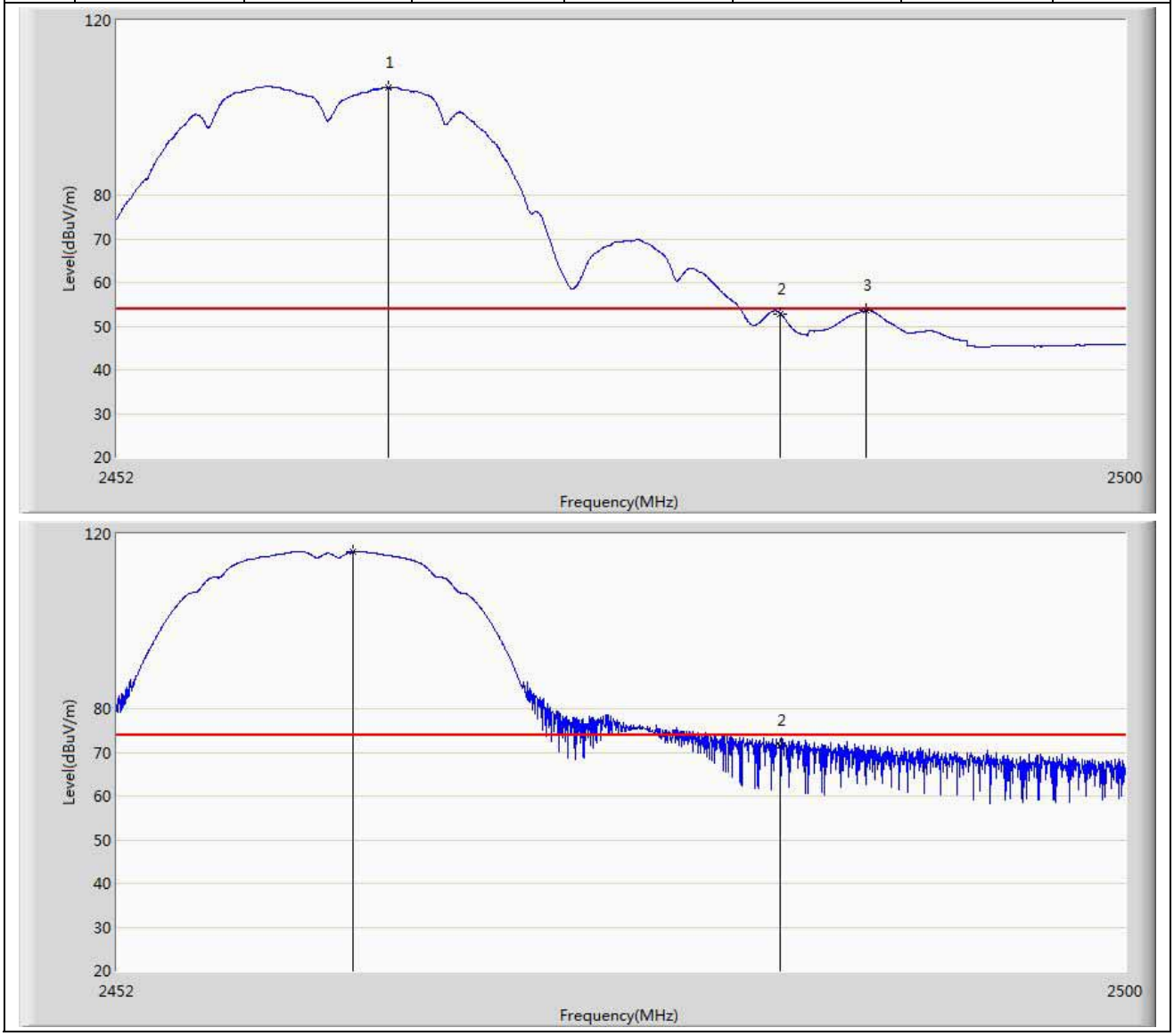
Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Horizontal
Test Mode	:	Mode 1	Power	:	AC 120V/60Hz
Test CH/Freq	:	CH11/2462MHz	Test Site	:	AC5

No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2463.304	100.621	63.196	N/A	N/A	37.425	PK
3	2490.016	58.926	21.368	-15.074	74.000	37.558	PK
1	2461.216	97.517	60.096	N/A	N/A	37.421	AV
2	2483.500	44.355	6.844	-9.645	54.000	37.511	AV



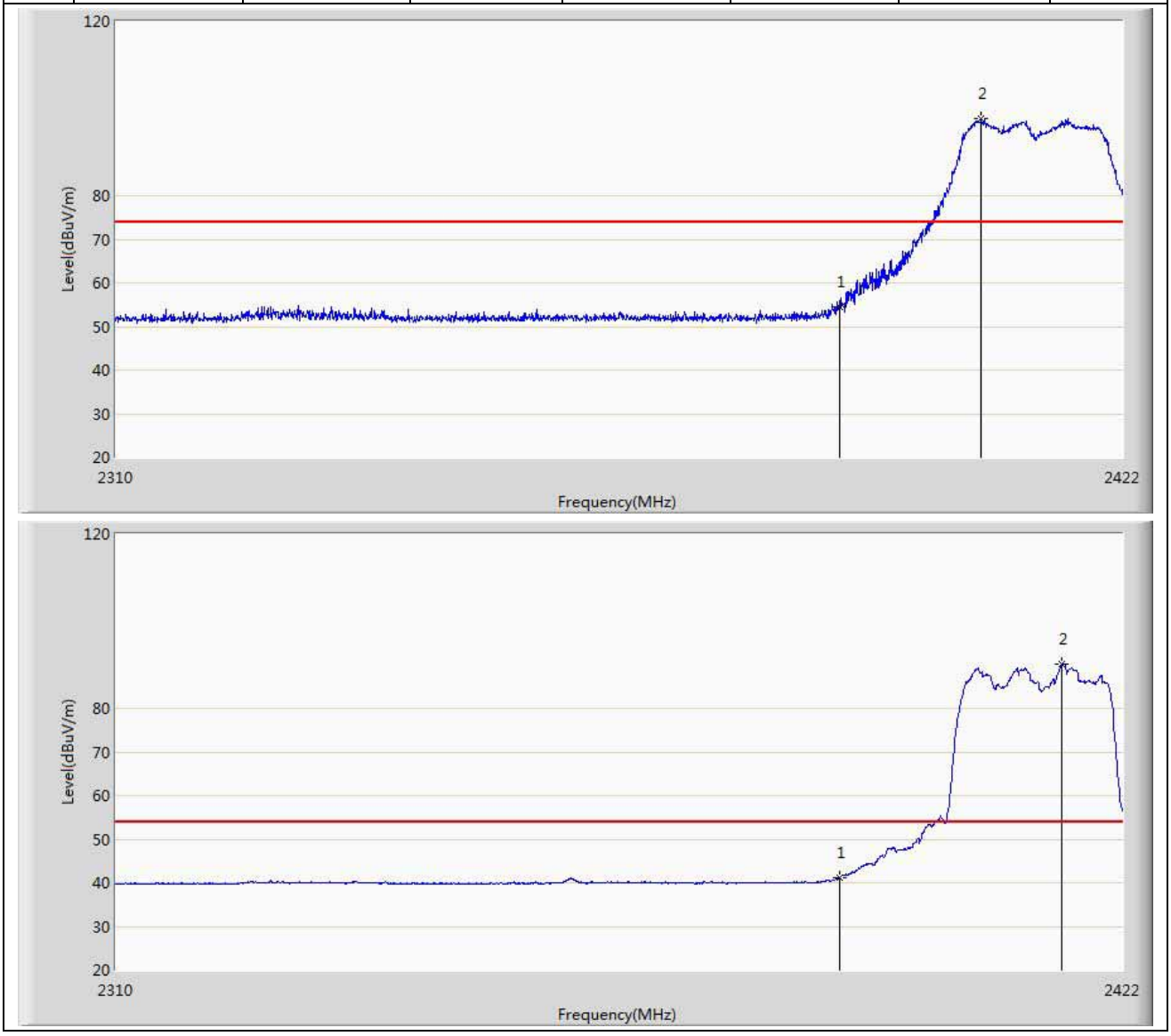
Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Vertical
Test Mode	:	Mode 1	Power	:	AC 120V/60Hz
Test CH/Freq	:	CH11/2462MHz	Test Site	:	AC5

No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2464.816	104.629	67.199	N/A	N/A	37.430	PK
3	2487.568	53.499	15.958	-0.501	54.000	37.541	PK
1	2463.160	115.872	78.448	N/A	N/A	37.424	AV
2	2483.500	71.624	34.113	-2.376	74.000	37.511	AV



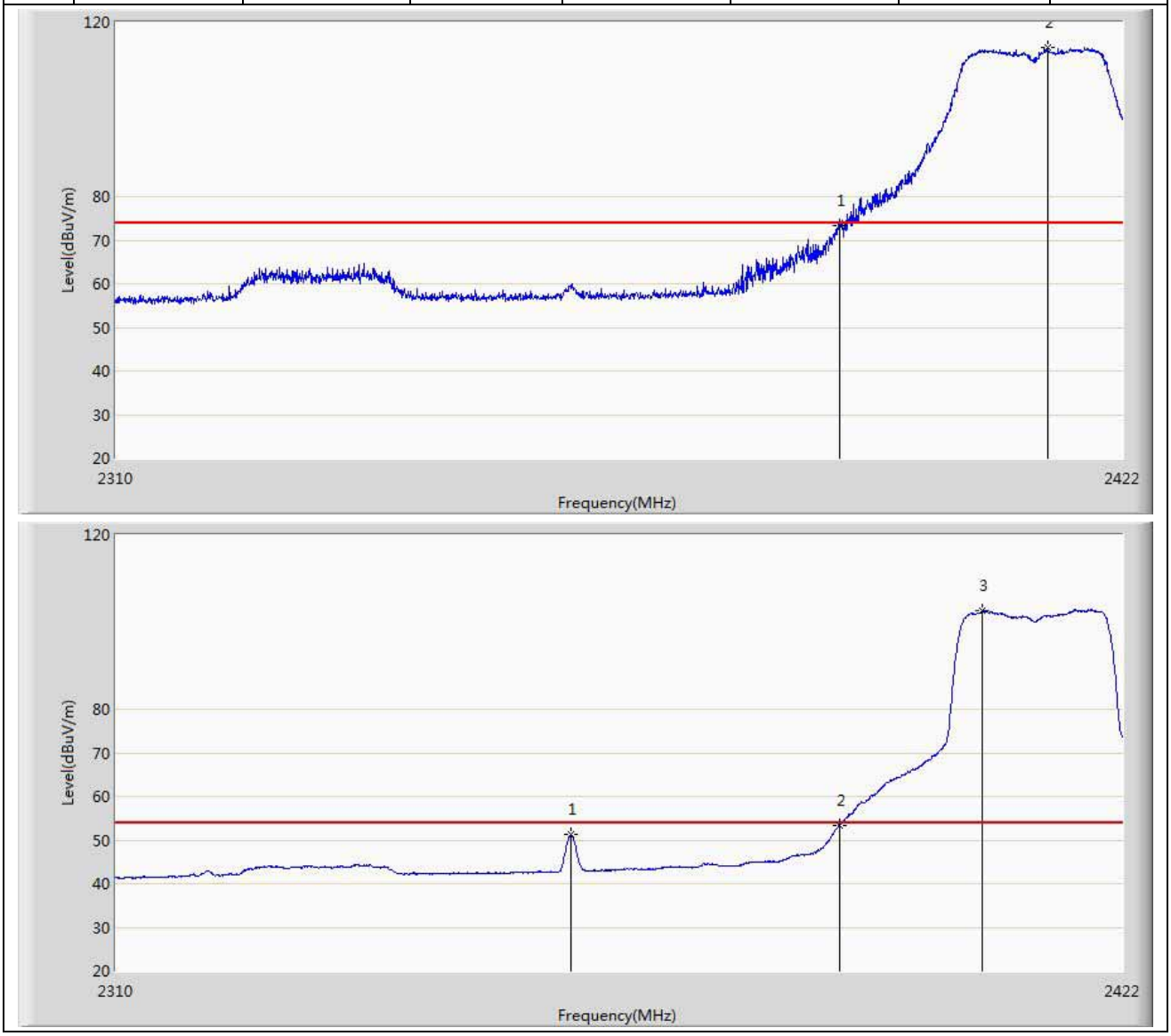
Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Horizontal
Test Mode	:	Mode 2	Power	:	AC 120V/60Hz
Test CH/Freq	:	CH01/2412MHz	Test Site	:	AC5

No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2390.000	54.353	16.998	-19.647	74.000	37.355	PK
2	2405.984	97.693	60.358	N/A	N/A	37.335	PK
1	2390.000	41.197	3.842	-12.803	54.000	37.355	AV
2	2415.168	90.041	52.685	N/A	N/A	37.355	AV



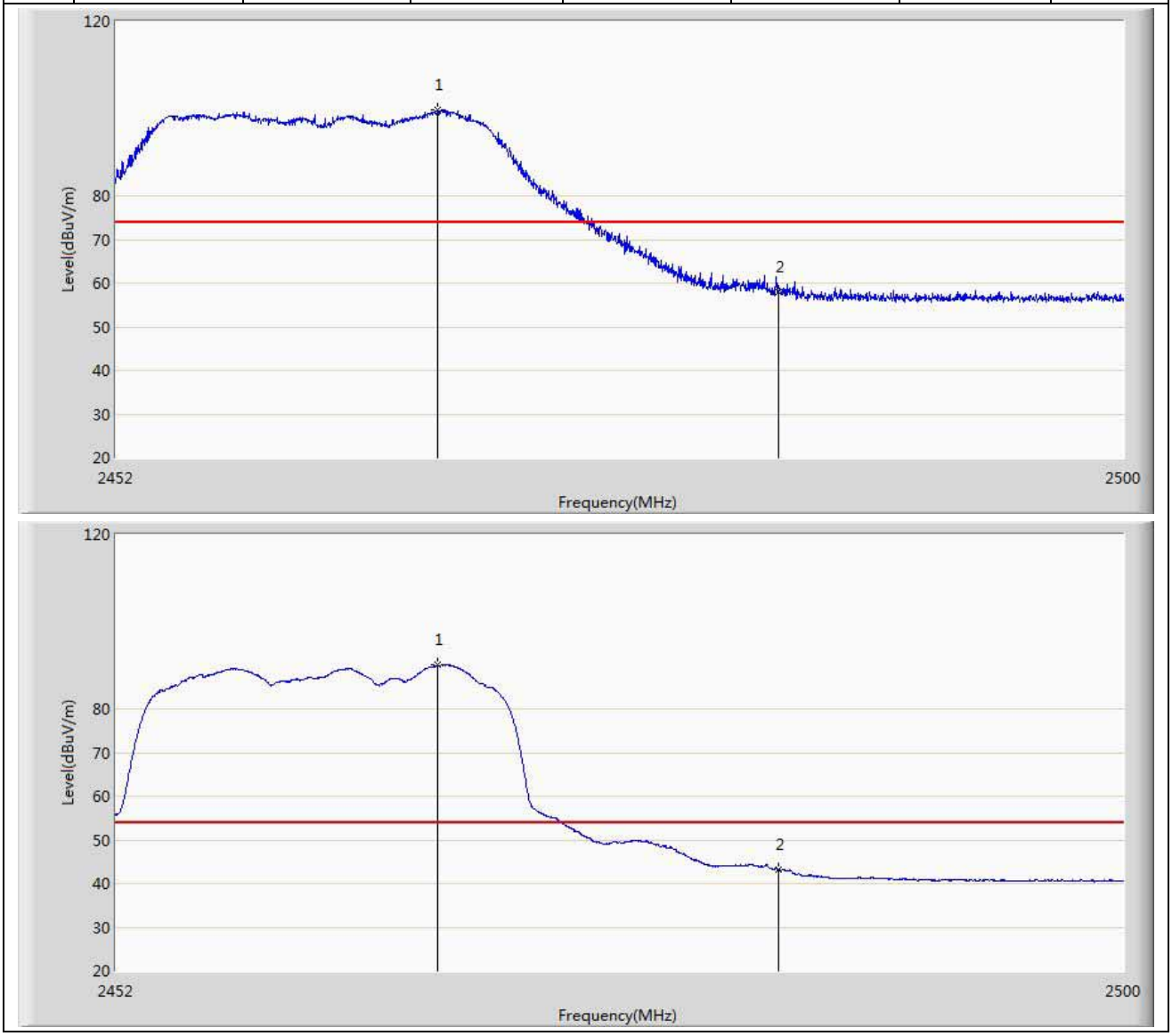
Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Vertical
Test Mode	:	Mode 2	Power	:	AC 120V/60Hz
Test CH/Freq	:	CH01/2412MHz	Test Site	:	AC5

No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2390.000	73.246	35.891	-0.754	74.000	37.355	PK
2	2413.488	114.137	76.793	N/A	N/A	37.344	PK
2	2390.000	53.468	16.113	-0.532	54.000	37.355	AV
3	2406.152	102.544	65.209	N/A	N/A	37.335	AV



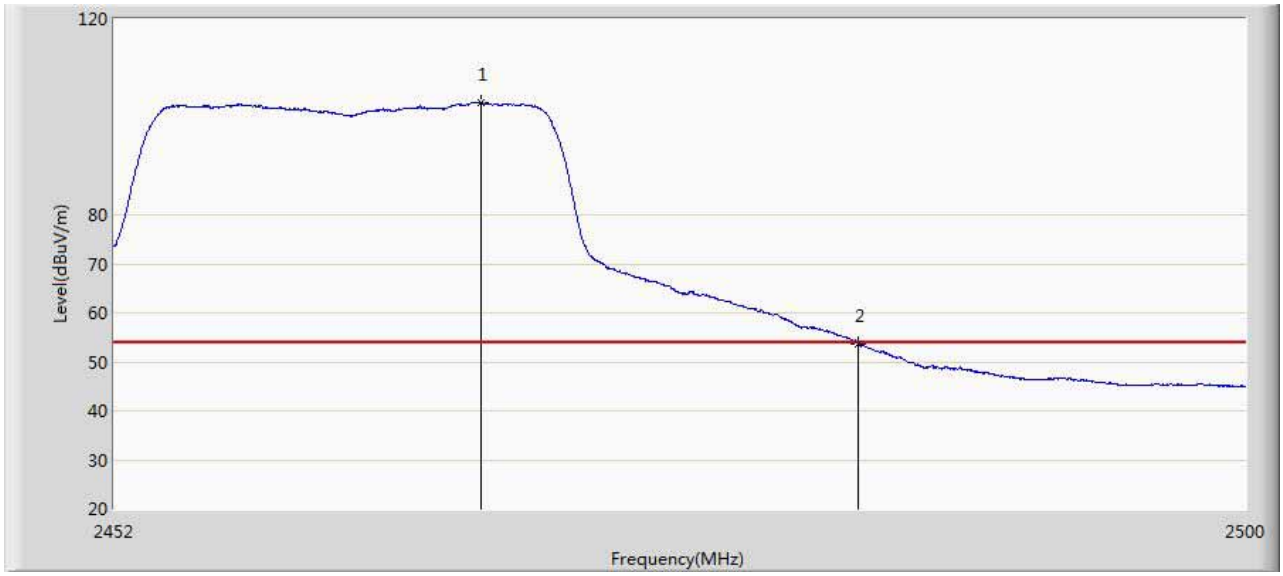
Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Horizontal
Test Mode	:	Mode 2	Power	:	AC 120V/60Hz
Test CH/Freq	:	CH11/2462MHz	Test Site	:	AC5

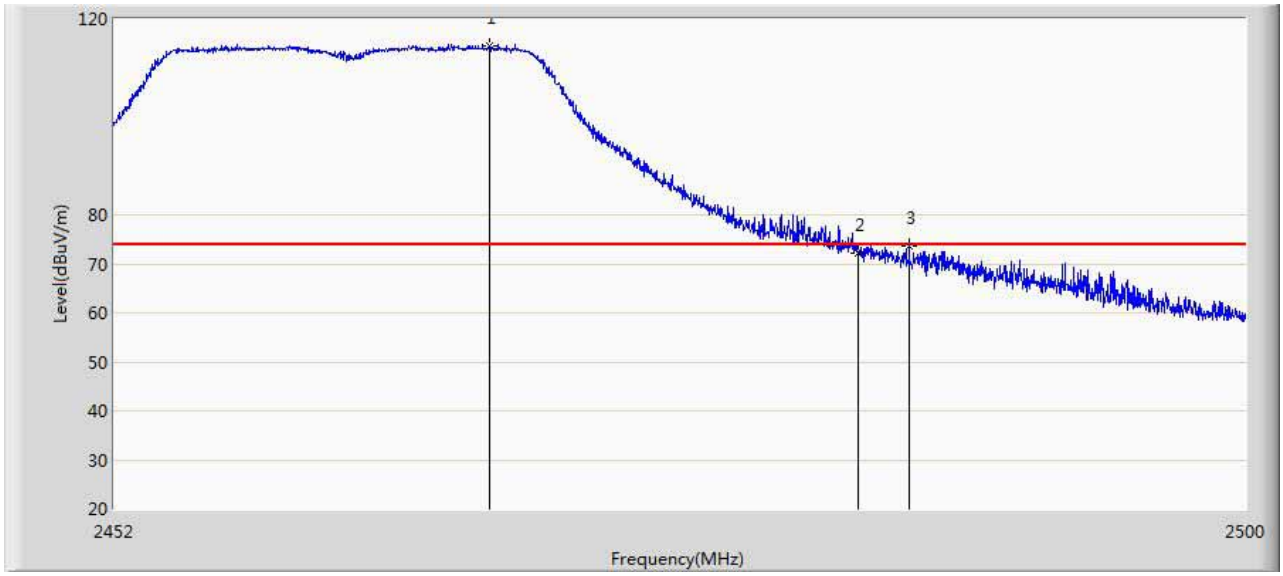
No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2467.240	99.719	62.281	N/A	N/A	37.438	PK
2	2483.500	57.852	20.341	-16.148	74.000	37.511	PK
1	2467.240	90.070	52.632	N/A	N/A	37.438	AV
2	2483.500	43.107	5.596	-10.893	54.000	37.511	AV



Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Vertical
Test Mode	:	Mode 2	Power	:	AC 120V/60Hz
Test CH/Freq	:	CH11/2462MHz	Test Site	:	AC5

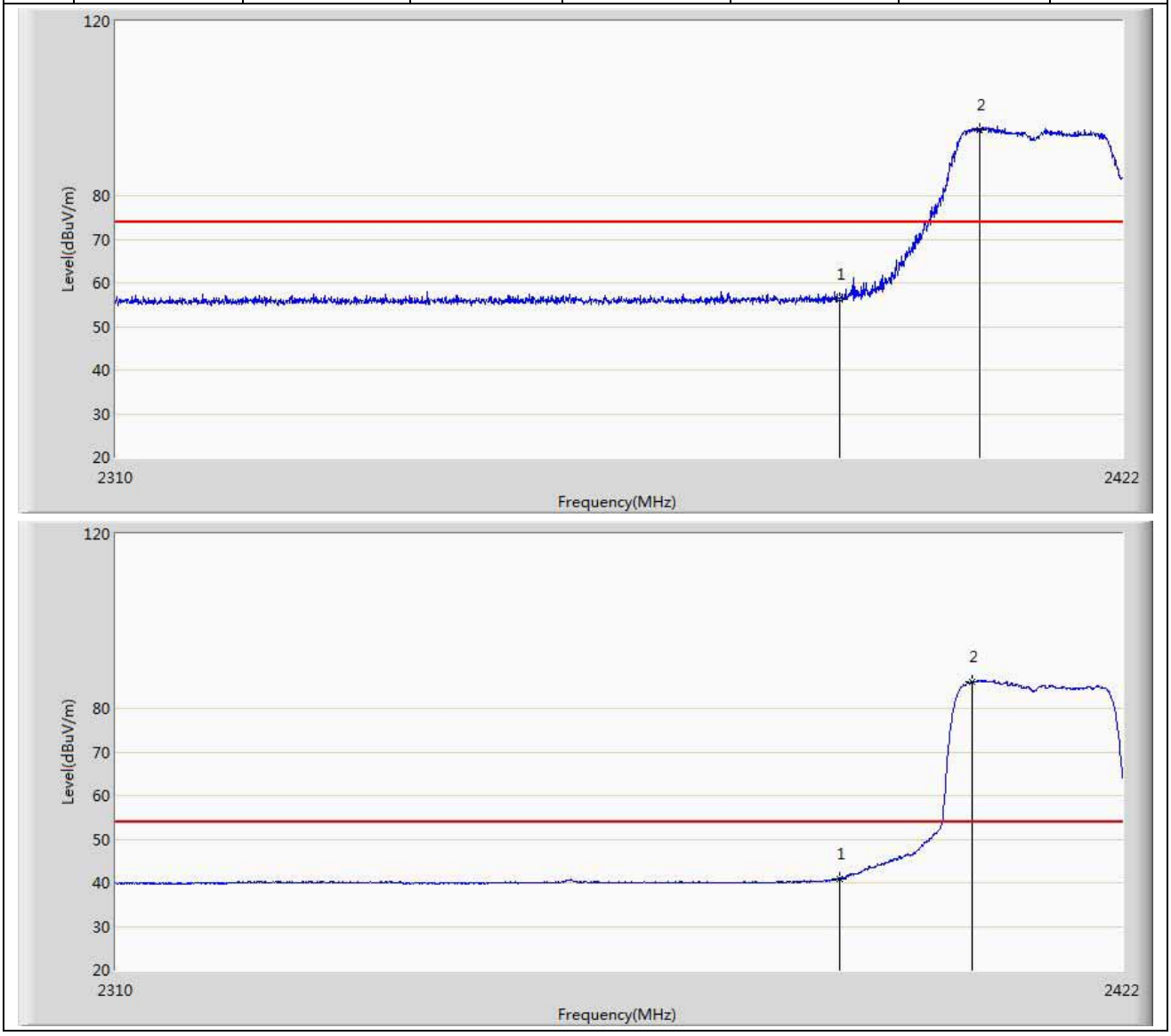
No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2467.504	102.874	65.435	N/A	N/A	37.440	PK
2	2483.500	53.691	16.180	-0.309	54.000	37.511	PK
1	2467.840	114.619	77.179	N/A	N/A	37.440	AV
2	2483.500	72.263	34.752	-1.737	74.000	37.511	AV





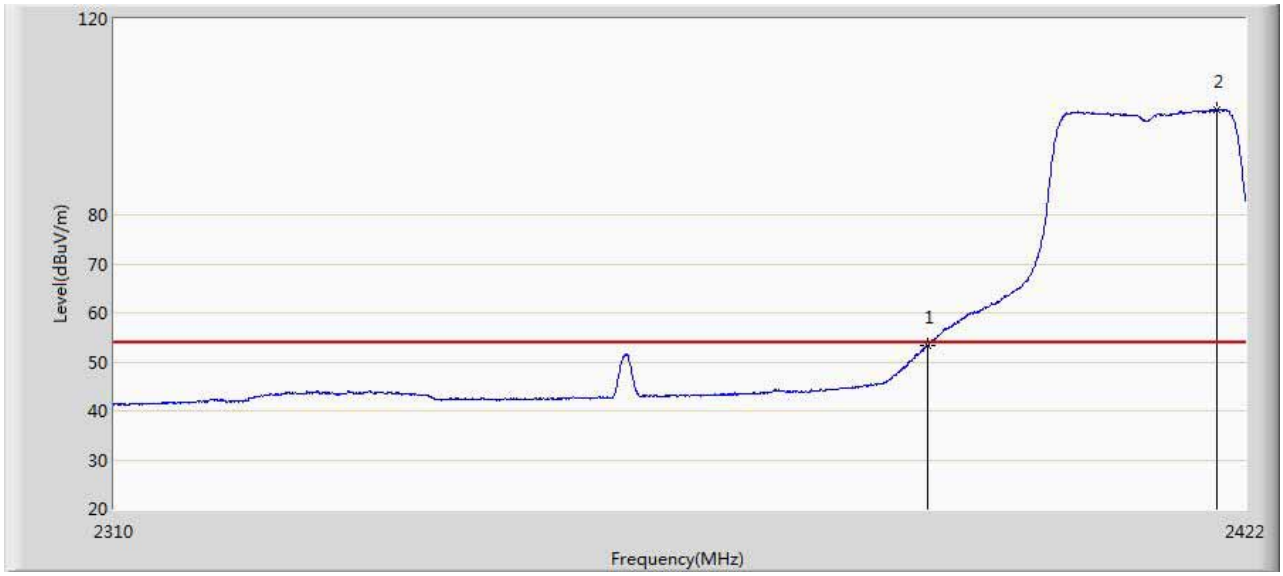
Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Horizontal
Test Mode	:	Mode 3	Power	:	AC 120V/60Hz
Test CH/Freq	:	CH01/2412MHz	Test Site	:	AC5

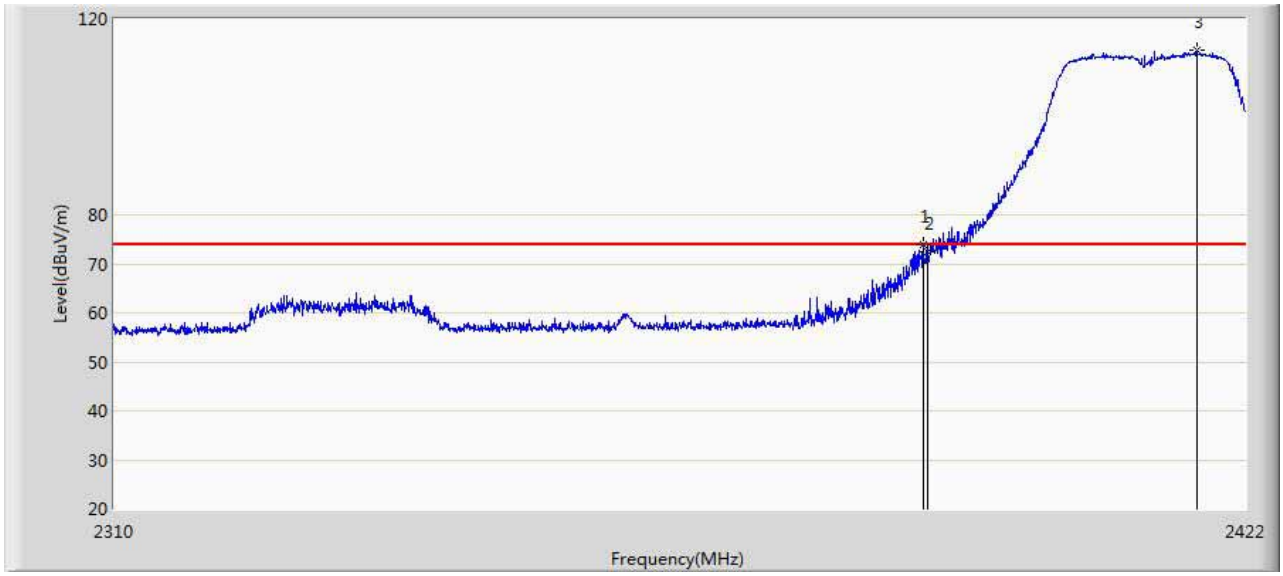
No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2390.000	56.194	18.839	-17.806	74.000	37.355	PK
2	2405.816	95.076	57.740	N/A	N/A	37.336	PK
1	2390.000	40.966	3.611	-13.034	54.000	37.355	AV
2	2404.920	86.032	48.695	N/A	N/A	37.337	AV



Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Vertical
Test Mode	:	Mode 3	Power	:	AC 120V/60Hz
Test CH/Freq	:	CH01/2412MHz	Test Site	:	AC5

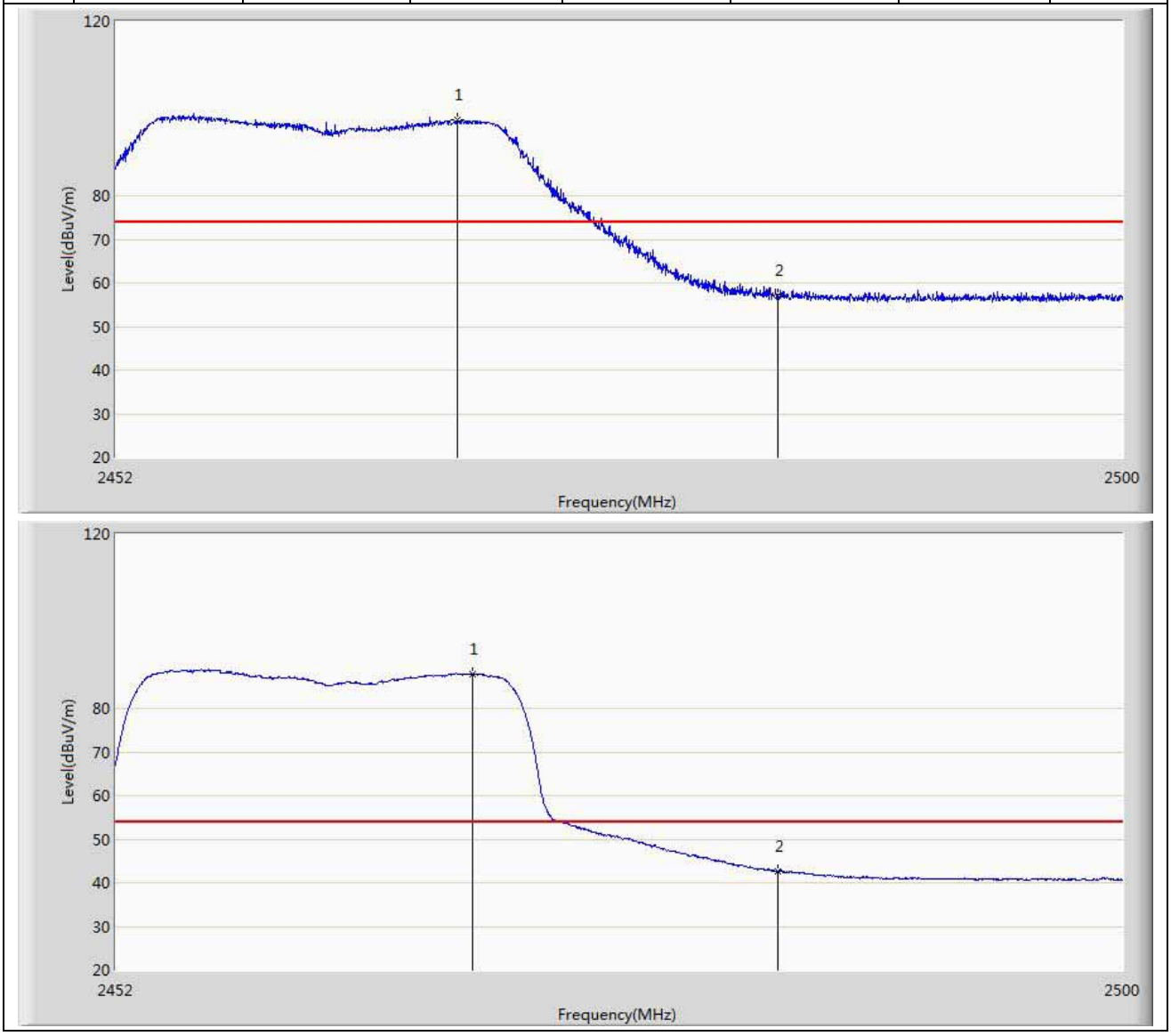
No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2390.000	53.299	15.944	-0.701	54.000	37.355	PK
2	2419.144	101.538	64.156	N/A	N/A	37.382	PK
1	2389.576	73.992	36.636	-0.008	74.000	37.356	AV
3	2417.128	113.644	76.275	N/A	N/A	37.369	AV





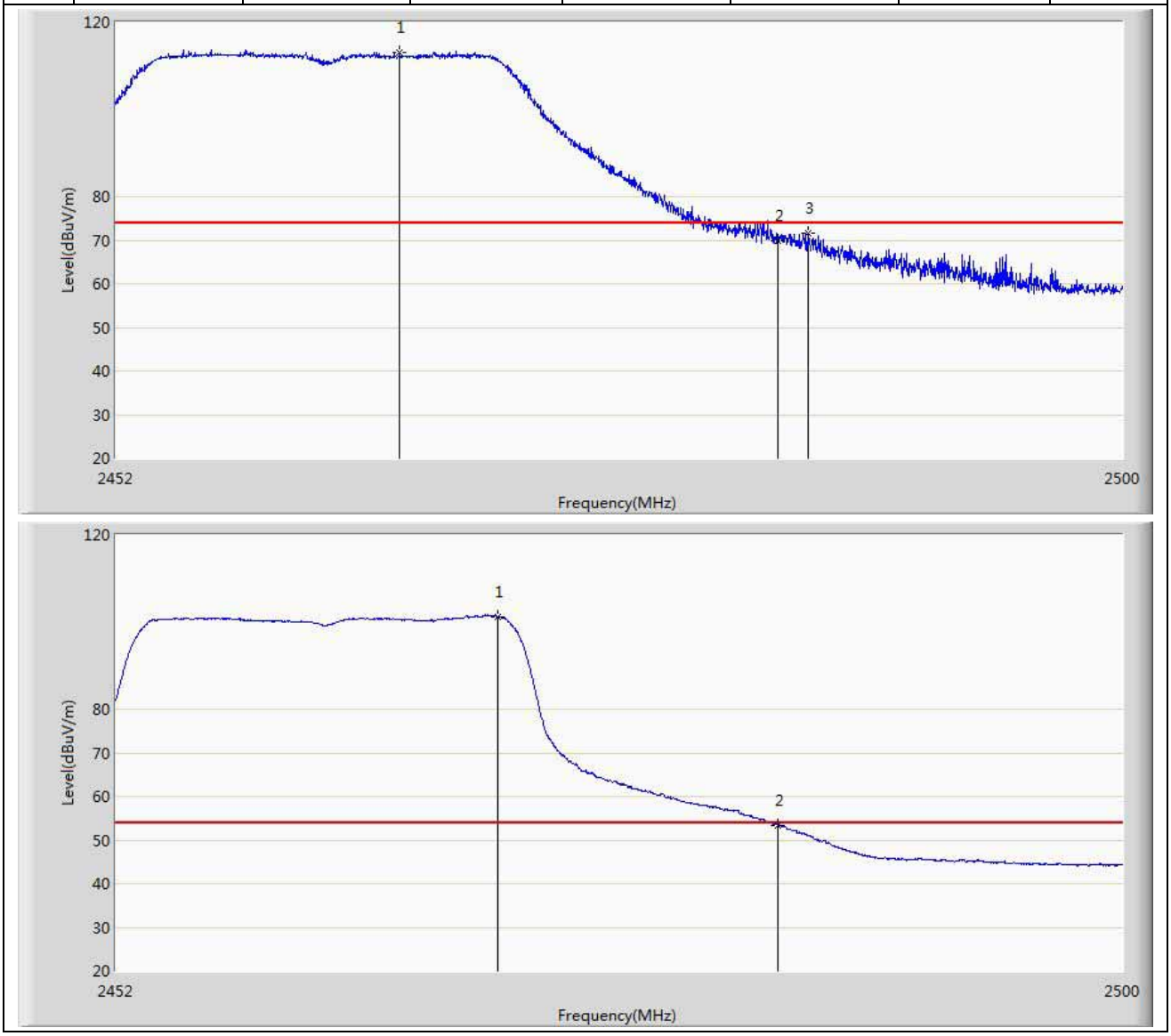
Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Horizontal
Test Mode	:	Mode 3	Power	:	AC 120V/60Hz
Test CH/Freq	:	CH11/2462MHz	Test Site	:	AC5

No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2468.200	97.531	60.089	N/A	N/A	37.442	PK
2	2483.500	57.099	19.588	-16.901	74.000	37.511	PK
1	2468.920	87.871	50.427	N/A	N/A	37.445	AV
2	2483.500	42.574	5.063	-11.426	54.000	37.511	AV



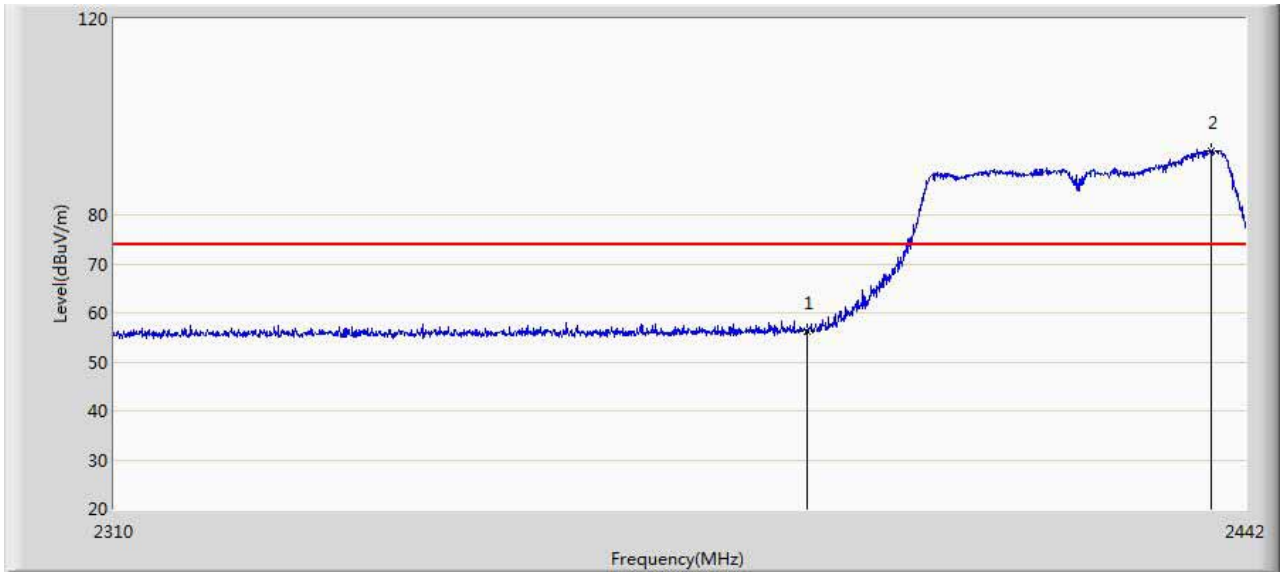
Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Vertical
Test Mode	:	Mode 3	Power	:	AC 120V/60Hz
Test CH/Freq	:	CH11/2462MHz	Test Site	:	AC5

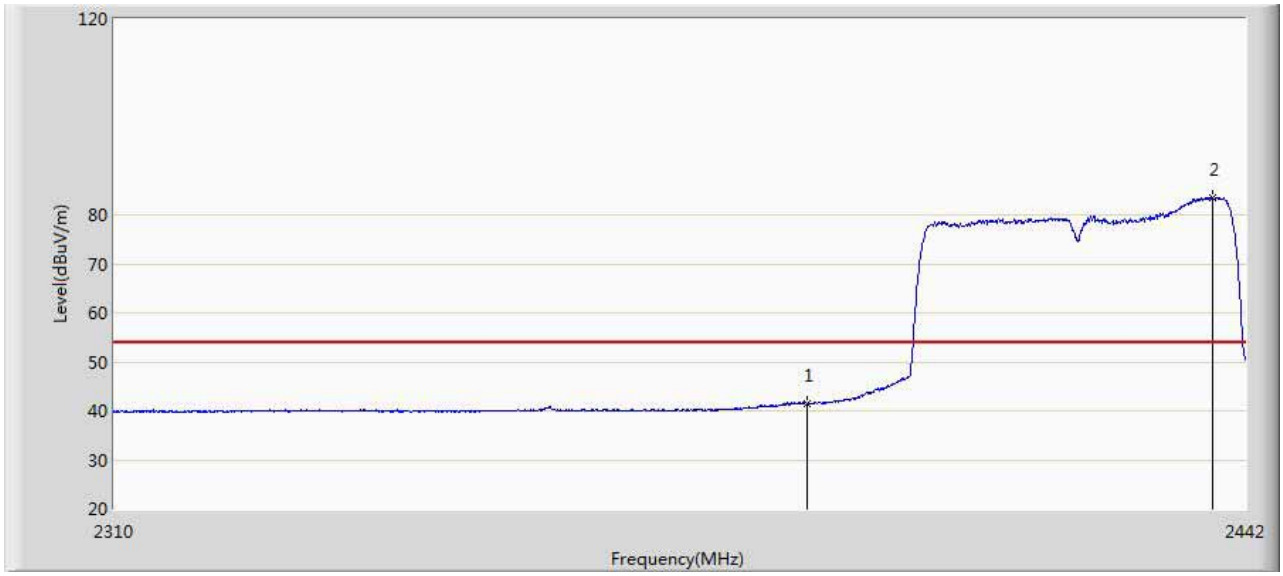
No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2465.440	112.951	75.519	N/A	N/A	37.432	PK
3	2484.952	71.610	34.088	-2.390	74.000	37.522	PK
1	2470.144	101.302	63.854	N/A	N/A	37.448	AV
2	2483.500	53.416	15.905	-0.584	54.000	37.511	AV



Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Horizontal
Test Mode	:	Mode 4	Power	:	AC 120V/60Hz
Test CH/Freq	:	CH03/2422MHz	Test Site	:	AC5

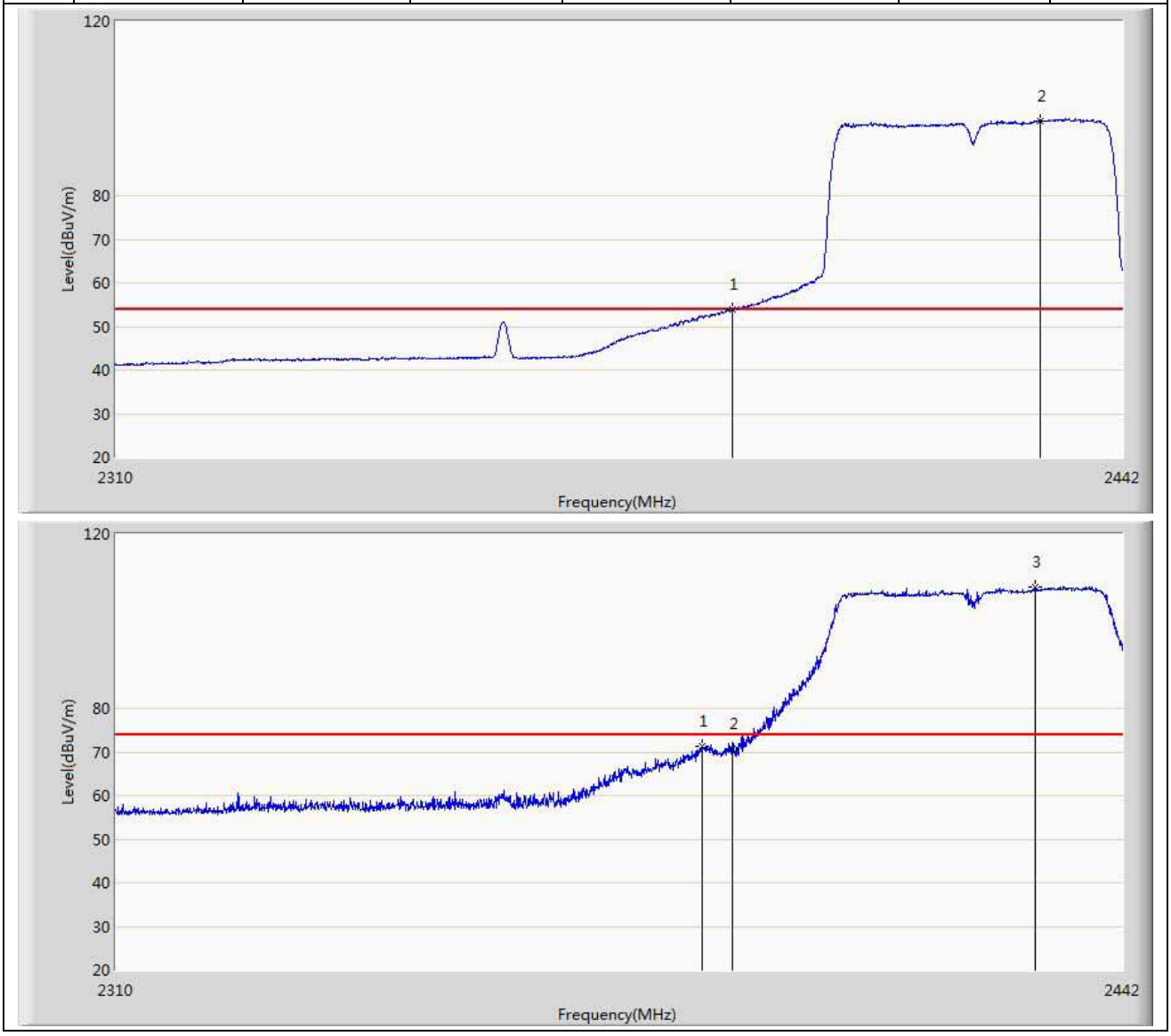
No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2390.000	56.202	18.847	-17.798	74.000	37.355	PK
2	2437.908	93.158	55.721	N/A	N/A	37.437	PK
1	2390.000	41.541	4.186	-12.459	54.000	37.355	AV
2	2438.106	83.468	46.031	N/A	N/A	37.437	AV





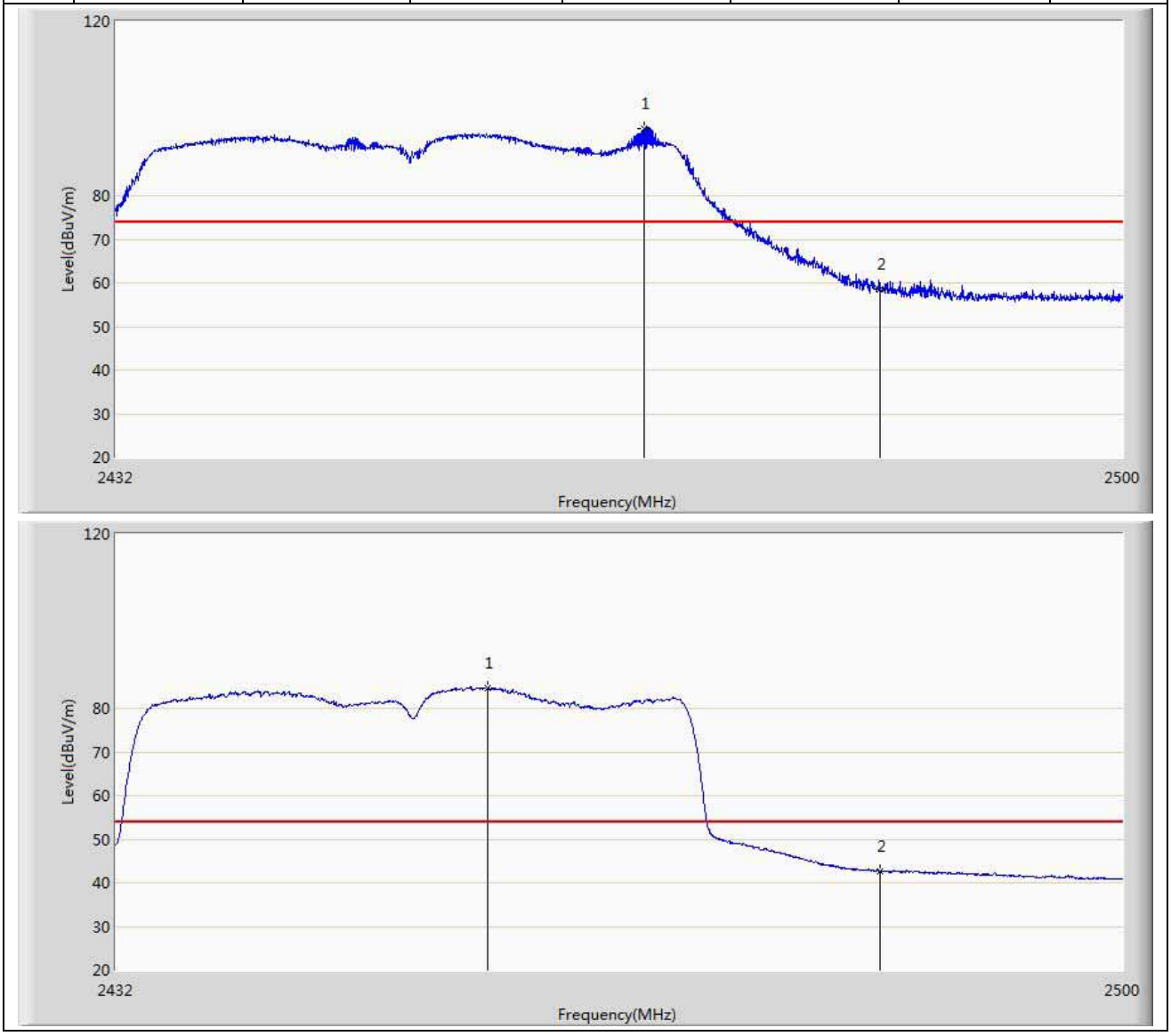
Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Vertical
Test Mode	:	Mode 4	Power	:	AC 120V/60Hz
Test CH/Freq	:	CH03/2422MHz	Test Site	:	AC5

No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2390.000	53.773	16.418	-0.227	54.000	37.355	AV
2	2430.912	97.234	59.793	N/A	N/A	37.440	AV
1	2385.966	71.427	34.071	-2.573	74.000	37.356	PK
3	2430.318	107.796	70.355	N/A	N/A	37.441	PK



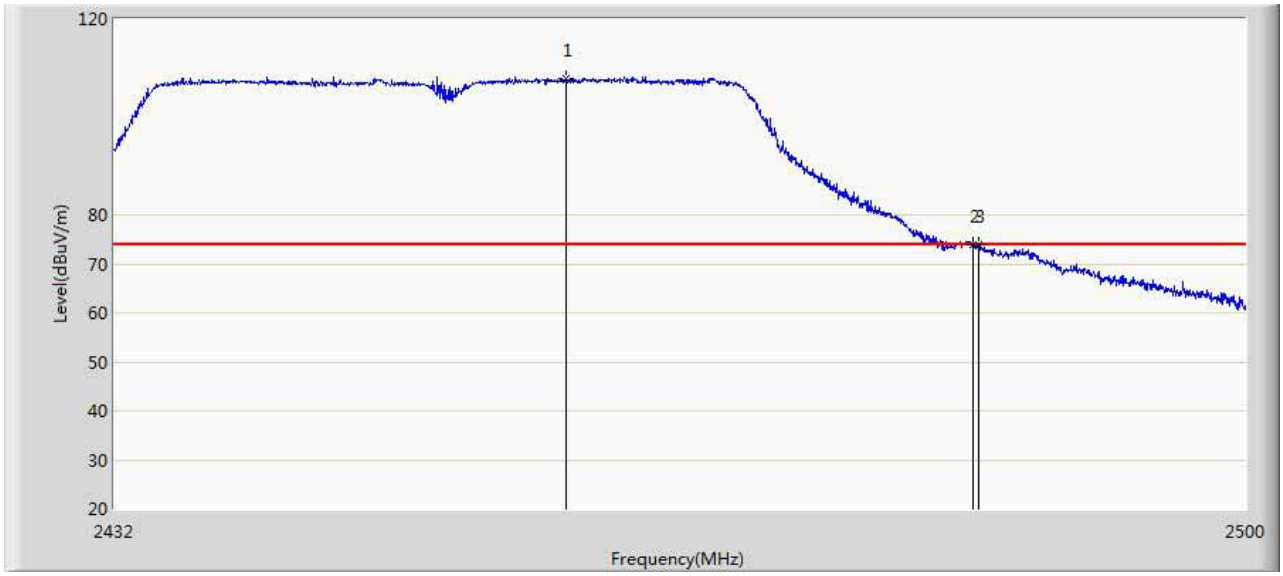
Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Horizontal
Test Mode	:	Mode 4	Power	:	AC 120V/60Hz
Test CH/Freq	:	CH09/2452MHz	Test Site	:	AC5

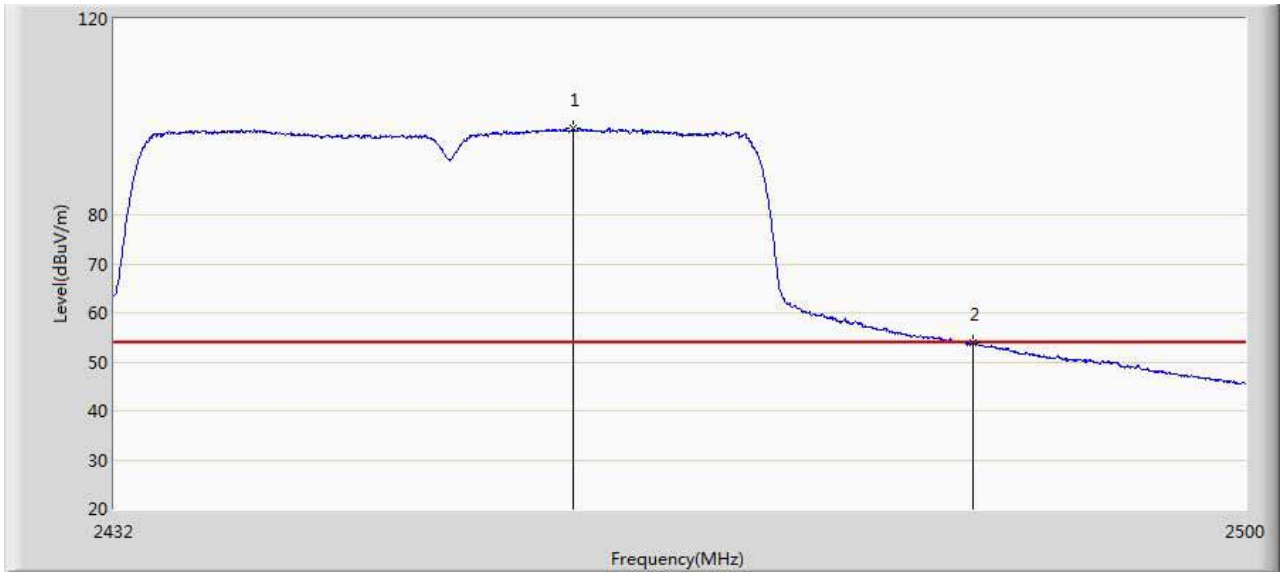
No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2467.462	95.419	57.980	N/A	N/A	37.439	PK
2	2483.500	58.615	21.104	-15.385	74.000	37.511	PK
1	2456.956	84.764	47.340	N/A	N/A	37.424	AV
2	2483.500	42.537	5.026	-11.463	54.000	37.511	AV



Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Polarity	:	Vertical
Test Mode	:	Mode 4	Power	:	AC 120V/60Hz
Test CH/Freq	:	CH09/2452MHz	Test Site	:	AC5

No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2458.996	107.748	70.325	N/A	N/A	37.422	PK
2	2483.500	73.777	36.266	-0.223	74.000	37.511	PK
1	2459.404	97.540	60.118	N/A	N/A	37.422	AV
2	2483.500	53.788	16.277	-0.212	54.000	37.511	AV





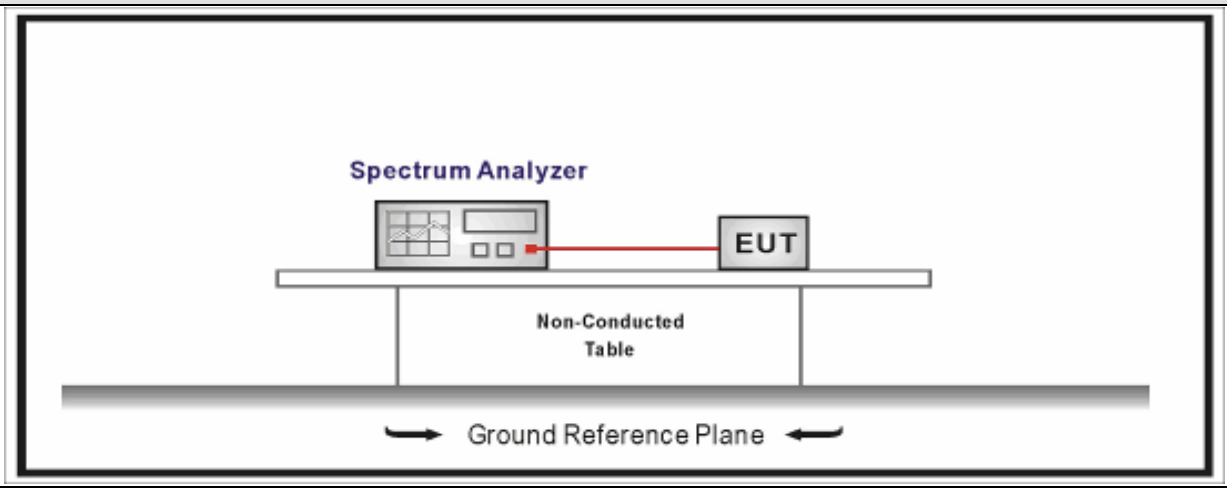
7. Occupied Bandwidth

7.1. Test Equipment

Occupied Bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2015.04.10	2016.04.09
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

7.2. Test Setup

Occupied Bandwidth test setup:



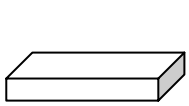
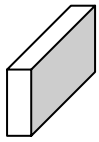
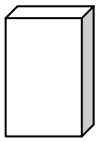
7.3. Limit

Occupied Bandwidth
Systems using digital modulation techniques operate in the2400-2483.5 MHz .The minimum 6 dB bandwidth shall be at least 500 kHz

7.4. Test Procedure

Test Method				
	Reference Rule		Chapter	Description
☒	ANSI C63.10		11.8	DTS bandwidth
	☐	ANSI C63.10	11.8.1	Option 1
	☒	ANSI C63.10	11.8.2	Option 2

7.5. EUT test definition

<table>
<tr><td>Item</td><td colspan="4">Occupied Bandwidth</td></tr>
<tr><td rowspan="2">Device Category</td><td>☒</td><td colspan="3">Fixed position use</td></tr>
<tr><td>☐</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1,Mode 2, Mode 3,Mode 4</td></tr>
<tr><td rowspan="13">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
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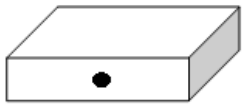
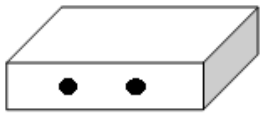
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☒</td><td>Chain 0</td><td colspan="2">Chain 1</td></tr>
<tr><td rowspan="2"></td><td colspan="3">  </td></tr>
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<tr><td>☐</td><td>Chain 0</td><td>Chain 1</td><td>Chain 2</td></tr>
<tr><td rowspan="2"></td><td colspan="3">  </td></tr>
<tr><td>Worst Chain ☐</td><td>Worst Chain ☐</td><td>Worst Chain ☐</td></tr>
</table>

7.6. Test Result

Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Test Power	:	AC 120V/60Hz
Test Site	:	TR-8			

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
			Ant 0	Ant 0		
1	01	2412	13.812	10.11	>500	Pass
1	06	2437	14.051	10.11	>500	Pass
1	11	2462	13.894	10.12	>500	Pass
2	01	2412	16.534	16.38	>500	Pass
2	06	2437	17.057	16.36	>500	Pass
2	11	2462	16.527	16.40	>500	Pass
3	01	2412	17.677	17.58	>500	Pass
3	06	2437	17.897	17.60	>500	Pass
3	11	2462	17.682	17.60	>500	Pass
4	03	2422	36.219	36.40	>500	Pass
4	06	2437	36.240	36.37	>500	Pass
4	09	2452	36.214	36.41	>500	Pass

Note : The sample plot of Occupied Bandwidth as below: 802.11b mode CH 01 (the worst is antenna 0)

Mode 1 CH01 (2412MHz)

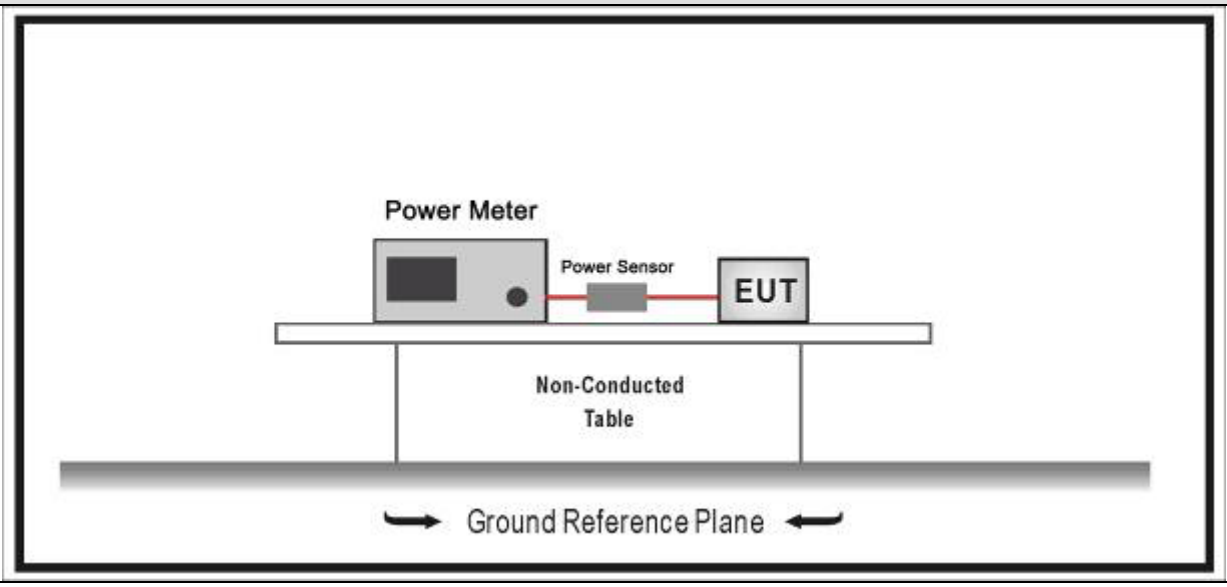
8. Fundamental emission output power

8.1. Test Equipment

Fundamental emission output power/ TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2015.11.11	2016.11.10
Power Sensor	Anritsu	MA2411B	0846014	2015.11.11	2016.11.10
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2015.04.10	2016.04.09
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

8.2. Test Setup

Fundamental emission output power test setup



8.3. Limit

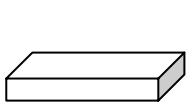
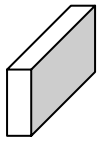
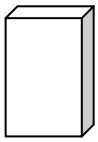
Fundamental emission output power Limit			
☒	G_{TX} ＜6dBi		P_{out}≦30dBm
☐	G_{TX} ＞6dBi		
	☐	Non-Fix point-point	P_{out}≦30-(G_{TX} -6) dBm
	☐	Fix point-point	P_{out}≦30-[(G_{TX}-6)]/3 dBm
	☐	Point-to-multipoint	P_{out}≦30-(G_{TX}-6) dBm
	☐	Overlap Beams	P_{out}≦30-[(G_{TX}-6)]/3 dBm
	☐	Aggregate power transmitted simultaneously on all beams	P_{out}≦30-[(G_{TX}-6)]/3 dBm
	☐	single directional beam	P_{out}≦30-[(G_{TX}-6)]/3+8 dBm
Note 1 : G_{TX} directional gain of transmitting antennas. Note 2 : P_{out} is maximum peak conducted output power .			

8.4. Test Procedure

Fundamental emission output power Test Method						
	References Rule				Chapter	Description
☒	ANSI C63.10				11.9	Fundamental emission output power
	☐	ANSI C63.10			11.9.1	Maximum peak conducted output power
		☐	ANSI C63.10		11.9.1.1	RBW ≥ DTS bandwidth
		☐	ANSI C63.10		11.9.1.2	Integrated band power method
		☐	ANSI C63.10		11.9.1.3	PKPM1 Peak power meter method
	☒	ANSI C63.10			11.9.2	Maximum conducted (average) output power
		☐	ANSI C63.10		11.9.2.2	Measurement using a spectrum analyzer (SA)
			☐	ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle≥98%)
			☐	ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle≥98%)
			☐	ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle≤98%)
			☐	ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle≤98%)
			☐	ANSI C63.10	11.9.2.2.4	Method AVGSA-3
			☐	ANSI C63.10	11.9.2.2.5	Method AVGSA-3A
		☒	ANSI C63.10		11.9.2.3	Measurement using a power meter (PM)
			☒	ANSI C63.10	11.9.2.3.1	Method AVGPM
			☐	ANSI C63.10	11.9.2.3.2	Method AVGPM-G

Directional Gain Calculations for In-Band test method				
	References Rule		Chapter	Description
☐	KDB 662911		F2)a)	Basic methodology with NANT transmit antennas
	☐	KDB 662911	F2)a) (i)	transmit signals are correlated
	☐	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)b)	Sectorized antenna systems.
☐	KDB 662911		F2)c)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (i)	Cross-polarized antennas with NANT = 2.
	☐	ANSI C63.10	F2)c) (ii)	Multiple antennas
☐	KDB 662911		F2)d)	Sectorized antenna systems.
	☐	KDB 662911	F2)d) (i)	transmit signals are correlated
	☐	KDB 662911	F2)d) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)e)	Sectorized antenna systems.
	☐	KDB 662911	F2)e) (i)	Antennas have the same gain
	☐	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
☒	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	☒	KDB 662911	F2)f) (i)	Antennas have the same gain
	☐	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)f) (ii)	Antenna have the different gain with more than one spatial stream

8.5. EUT test definition

<table>
<tr><td>Item</td><td colspan="4">Fundamental emission output power</td></tr>
<tr><td rowspan="2">Device Category</td><td>☒</td><td colspan="3">Fixed position use</td></tr>
<tr><td>☐</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1,Mode 2, Mode 3,Mode 4</td></tr>
<tr><td rowspan="14">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
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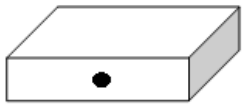
<tr><td></td><td colspan="3">  </td></tr>
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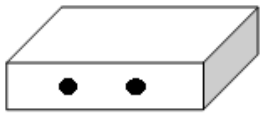
<tr><td rowspan="2"></td><td colspan="3">  </td></tr>
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<tr><td rowspan="2"></td><td colspan="3">  </td></tr>
<tr><td>Worst Chain ☐</td><td>Worst Chain ☐</td><td>Worst Chain ☐</td></tr>
</table>

8.6. Test Result

Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Test Power	:	AC 120V/60Hz
Test Site	:	TR1			

Mode	Channel	Test Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Directional Gain (dBi)	Limit (dBm)	Result
			Ant 0	Ant 1				
1	01	2412	18.42	18.59	21.52	5	30	Pass
1	06	2437	21.43	20.81	24.14	5	30	Pass
1	11	2462	17.48	17.59	20.55	5	30	Pass
2	01	2412	14.31	14.05	17.19	5	30	Pass
2	06	2437	20.91	20.60	23.77	5	30	Pass
2	11	2462	13.53	13.84	16.70	5	30	Pass
3	01	2412	12.96	12.74	15.86	5	30	Pass
3	06	2437	20.43	20.18	23.32	5	30	Pass
3	11	2462	12.77	12.75	15.77	5	30	Pass
4	03	2422	10.32	10.23	13.29	5	30	Pass
4	06	2437	14.08	14.30	17.20	5	30	Pass
4	09	2452	10.32	9.98	13.16	5	30	Pass

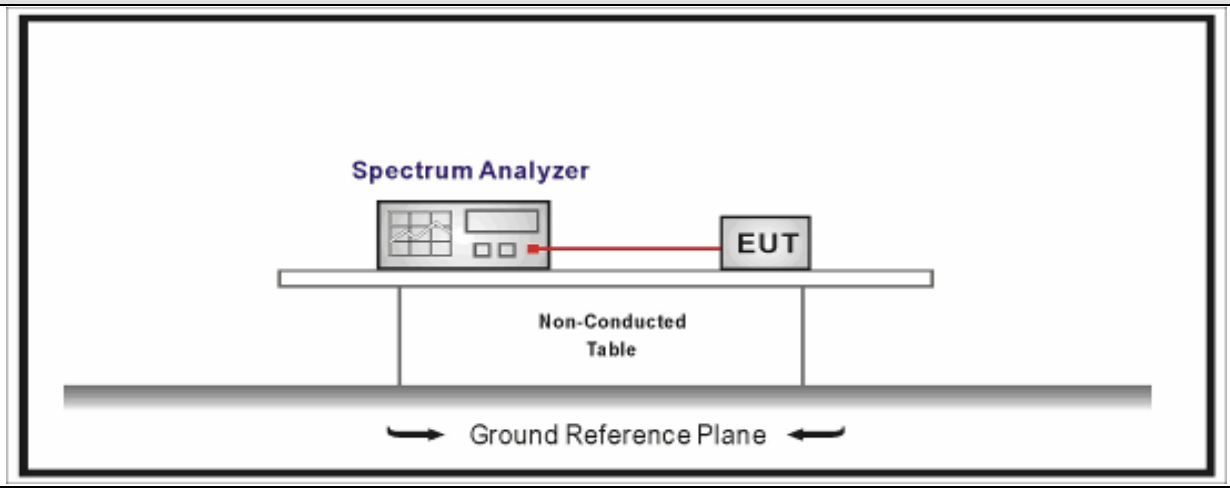
9. Power Spectral Density

9.1. Test Equipment

Power Spectral Density / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Spectrum Analyzer	Agilent	N9010A	MY48030494	2015.03.11	2016.03.10
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2015.04.10	2016.04.09
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

9.2. Test Setup

Power Spectral Density test setup



9.3. Limit

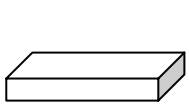
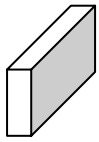
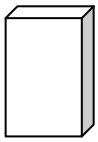
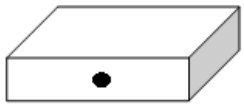
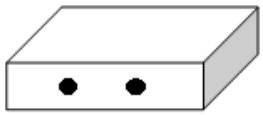
Power Spectral Density Limit
Power Spectral Density≤8dBm/3kHz

9.4. Test Procedure

Power Spectral Density Test Method				
	References Rule		Chapter	Description
☒	ANSI C63.10		11.10	Maximum power spectral density level in the fundamental emission
	☒	ANSI C63.10	11.10.2	Method PKPSD (peak PSD)
	☐	ANSI C63.10	11.10.3	Method AVGPSD-1(Duty cycle≥98%)
	☐	ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle≥98%)
	☐	ANSI C63.10	11.10.5	Method AVGPSD-2(Duty cycle＜98%)
	☐	ANSI C63.10	11.10.6	Method AVGPSD-2A(Duty cycle＜98%)
	☐	ANSI C63.10	11.10.7	Method AVGPSD-3
	☐	ANSI C63.10	11.10.8	Method AVGPSD-3A

Directional Gain Calculations for In-Band test method				
	Referred Rule		Chapter	Description
☐	KDB 662911		F2)a)	Basic methodology with NANT transmit antennas
	☐	KDB 662911	F2)a) (i)	transmit signals are correlated
	☐	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)b)	Sectorized antenna systems.
☐	KDB 662911		F2)c)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (i)	Cross-polarized antennas with NANT = 2.
	☐	ANSI C63.10	F2)c) (ii)	Multiple antennas
☐	KDB 662911		F2)d)	Sectorized antenna systems.
	☐	KDB 662911	F2)d) (i)	transmit signals are correlated
	☐	KDB 662911	F2)d) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)e)	Sectorized antenna systems.
	☐	KDB 662911	F2)e) (i)	Antennas have the same gain
	☐	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
☒	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	☒	KDB 662911	F2)f) (i)	Antennas have the same gain
	☐	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)f) (ii)	Antenna have the different gain with more than one spatial stream

9.5. EUT test definition

<table>
<tr><td>Item</td><td colspan="4">Power Spectral Density Test Method</td></tr>
<tr><td rowspan="2">Device Category</td><td>☒</td><td colspan="3">Fixed position use</td></tr>
<tr><td>☐</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1,Mode 2, Mode 3,Mode 4</td></tr>
<tr><td rowspan="15">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 0</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☒</td><td>Chain 0</td><td colspan="2">Chain 1</td></tr>
<tr><td rowspan="2"></td><td colspan="3">  </td></tr>
<tr><td>Worst Chain ☒</td><td colspan="2">Worst Chain ☐</td></tr>
<tr><td>☐</td><td>Chain 0</td><td>Chain 1</td><td>Chain 2</td></tr>
<tr><td rowspan="2"></td><td colspan="3">  </td></tr>
<tr><td>Worst Chain ☐</td><td>Worst Chain ☐</td><td>Worst Chain ☐</td></tr>
</table>

9.6. Test Result

Product Name	:	SafeStream Wireless N Gigabit Broadband VPN Router	Test Power	:	AC 120V/60Hz
Test Site	:	TR8			

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Directional Gain (dBi)	Limit (dBm/3kHz)	Result
			Ant 0	Ant 1				
1	01	2412	-4.586	-4.946	-1.75	8.01	5.99	Pass
1	06	2437	-1.960	-2.559	0.76	8.01	5.99	Pass
1	11	2462	-6.121	-6.373	-3.23	8.01	5.99	Pass
2	01	2412	-10.576	-10.825	-7.69	8.01	5.99	Pass
2	06	2437	-2.966	-4.147	-0.51	8.01	5.99	Pass
2	11	2462	-12.128	-11.462	-8.77	8.01	5.99	Pass
3	01	2412	-11.507	-12.439	-8.94	8.01	5.99	Pass
3	06	2437	-3.573	-5.102	-1.26	8.01	5.99	Pass
3	11	2462	-12.809	-12.400	-9.59	8.01	5.99	Pass
4	03	2422	-18.625	-16.869	-14.65	8.01	5.99	Pass
4	06	2437	-13.475	-13.590	-10.52	8.01	5.99	Pass
4	09	2452	-18.069	-17.677	-14.86	8.01	5.99	Pass

Mode 1 CH06(2437MHz)

Ant0

Ant1


Marker 1 2.437752000000 GHz
Trig: Free Run
Atten: 20 dB
Avg Type: Log-Pwr
Avg|Hold: 1/1
Ref Offset 3.5 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr1 2.437 752 GHz
-2.559 dBm
Center 2.437000 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 16.00 MHz
Sweep 1.687 s (2001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

The End