SIMULTANEOUSLY TRANSMISSION AND CO-LOCATION TEST REPORT

For

Wireless Module

MODEL NUMBER: WXT3BM1613

REPORT NUMBER: 4791682156.1-1-RF-8

ISSUE DATE: March 24, 2025

FCC ID:2AC23-WXT3B

Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	March 24, 2025	Initial Issue	

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TABLE OF CONTENTS

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	Hui Zhou Gaoshengda Technology Co.,LTD
Address:	No.6 Qiaoguang Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City, Guangdong Province, Huizhou, Guangdong, 516227 China

Manufacturer Information

Company Name:	Hui Zhou Gaoshengda Technology Co.,LTD
Address:	No.6 Qiaoguang Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City, Guangdong Province, Huizhou, Guangdong, 516227 China

EUT Information

EUT Name:	Wireless Module
Model:	WXT3BM1613
Brand:	GSD
Sample Received Date:	November 13, 2024
Sample Status:	Normal
Sample ID:	8187624
Date of Tested:	November 13, 2024 to March 24, 2025

Prepared By:	Checked By:
Fanny Huang	Kebo Zhang
Engineer Project Associate	Senior Project Engineer

Approved By:

Stephen Guo

Operations Manager

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, CFR 47 FCC Part 2, CFR 47 FCC Part 15, ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1187)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules **ISED (Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.

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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Radiated Emission (Included Fundamental Emission) (1 GHz to 40 GHz)	5.78 dB (1 GHz-18 GHz)
	5.23dB (18 GHz-26 GHz)
	5.64 dB (26 GHz-40 GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.	

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Wireless Module
Model	WXT3BM1613
Power Supply	DC 3.3V

5.2. THE TEST CASE CONFIGURATIONS

Simultaneously Transmission Conditions:

Condition	Technology (Module WXT3BM1613)		Support (YES/NO)
1	WLAN (2.4G)	BT/BLE	YES
2	WLAN (2.4G)	ZigBee	YES
3	WLAN (5G)	BT/BLE	YES
4	WLAN (5G)	ZigBee	YES
5	WLAN (6G)	BT/BLE	YES
6	WLAN (6G)	ZigBee	YES
7	Low Power Wide band Radio in 5GHz (5.8G)	BT/BLE	YES
8	Low Power Wide band Radio in 5GHz (5.8G)	ZigBee	YES

All the Conditions have been tested, only the worst data was recorded in the report.

For the detailed test description, please refer to the below report number:

Wireless Module	Technology	Report Number
WXT3BM1613	ZigBee	4791682156.1-1-RF-1
	BLE	4791682156.1-1-RF-2
	BT	4791682156.1-1-RF-3
	WLAN (2.4G)	4791682156.1-1-RF-4
	WLAN (5G)	4791682156.1-1-RF-5
	WLAN (6G)	4791682156.1-1-RF-6
	Low Power Wide band Radio in 5GHz (5.8G)	4791682156.1-1-RF-7

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6. MEASURING INSTRUMENT AND SOFTWARE USED

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Sep.28, 2024	Sep.27, 2025
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	June 28, 2024	June.27 2027
Preamplifier	HP	8447D	2944A09099	Sep.28, 2024	Sep.27, 2025
EMI Measurement Receiver	R&S	ESR26	101377	Sep.28, 2024	Sep.27, 2025
Horn Antenna	TDK	HRN-0118	130939	Apr.29, 2022	Apr.28, 2025
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Sep.28, 2024	Sep.27, 2025
Horn Antenna	Schwarzbeck	BBHA9170	697	Jun 30, 2024	Jun 29, 2027
Preamplifier	TDK	PA-02-2	TRS-307-00003	Sep.28, 2024	Sep.27, 2025
Preamplifier	TDK	PA-02-3	TRS-308-00002	Sep.28, 2024	Sep.27, 2025
Loop antenna	Schwarzbeck	1519B	00008	Dec. 09, 2024	Dec.08, 2027
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Sep.28, 2024	Sep.27, 2025
Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Sep.28, 2024	Sep.27, 2025
Highpass Filter	Wainwright	WHKX10-5850-6500-1800-40SS	4	Sep.28, 2024	Sep.27, 2025
Band Reject Filter	Wainwright	WRCJV12-5695-5725-5850-5880-40SS	4	Sep.28, 2024	Sep.27, 2025
Band Reject Filter	Wainwright	WRCJV20-5120-5150-5350-5380-60SS	2	Sep.28, 2024	Sep.27, 2025
Band Reject Filter	Wainwright	WRCJV20-5440-5470-5725-5755-60SS	1	Sep.28, 2024	Sep.27, 2025
Highpass Filter	Xingbo	XBLBQ-GTA68	211115-2-1	Sep.28, 2024	Sep.27, 2025
Notch Filter (5905-6445 MHz)	Xingbo	XBLBQ-DZA175	210922-2-1	Sep.28, 2024	Sep.27, 2025

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Notch Filter (6425-6525 MHz)	Xingbo	XBLBQ-DZA176	210922-2-2	Sep.28, 2024	Sep.27, 2025
Notch Filter (6825-7125 MHz)	Xingbo	XBLBQ-DZA177	210922-2-3	Sep.28, 2024	Sep.27, 2025
Notch Filter (6525-6875 MHz)	Xingbo	XBLBQ-DZA178	210922-2-4	Sep.28, 2024	Sep.27, 2025
Software					
Description			Manufacturer	Name	Version
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1

Other Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.8, 2024	Oct.7, 2025
Barometer	Yiyi	Baro	N/A	Oct.10, 2024	Oct.9, 2025
Attenuator	Agilent	8495B	2814a12853	Sep.28, 2024	Sep.27, 2025

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7. RADIATED TEST RESULTS

LIMITS

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b).

Refer to ISED RSS-GEN Clause 8.9, Clause 8.10 and ISED RSS-247 6.2.

Emissions radiated outside of the specified frequency bands above 30MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

Limits of unwanted/undesirable emission out of the restricted bands refer to CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1GHz)		
Frequency Range (MHz)	EIRP Limit	Field Strength Limit (dBuV/m) at 3 m
5150~5250 MHz	PK: -27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz		
5470~5725 MHz		
5725~5850 MHz	PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK: 122.2 (dBμV/m) *4
Note: *1 beyond 75 MHz or more above of the band edge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

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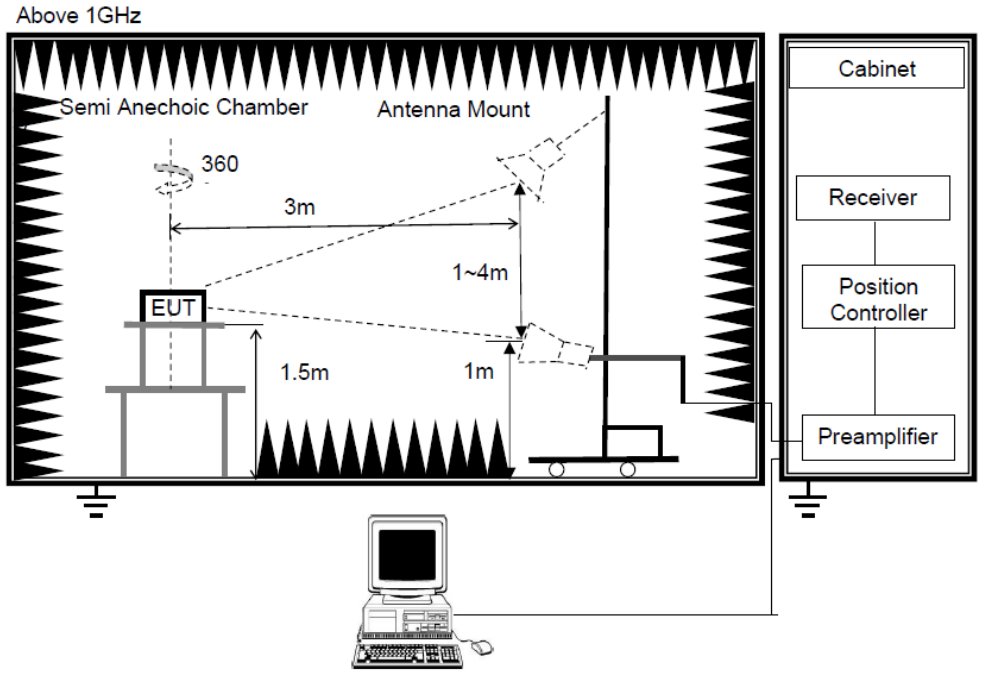
Above 1GHz



The setting of the spectrum analyser

RBW	1MHz
VBW	PEAK: 3MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 11.11 and 11.12.

2. The testing follows the guidelines in KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.G.3 ~ II.G.6.

2. The EUT was arranged to its worst case and then tune the antenna tower (1.5 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 1.5m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements.

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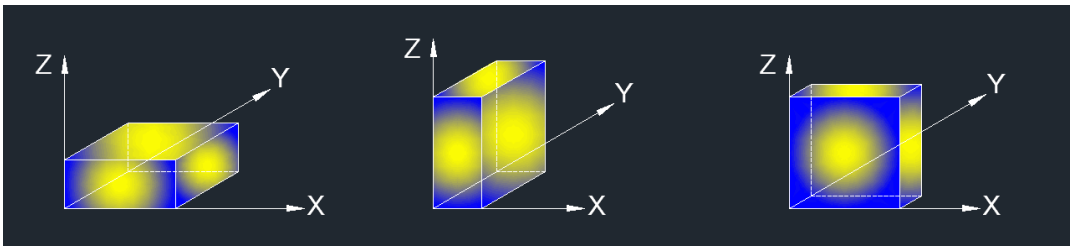
X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

For Restricted Bandedge:
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. PK=Peak: Peak detector.
4. AV=Average: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (1 GHz ~ 3 GHz):
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (3 GHz ~ 18 GHz):
Note:
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

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For Radiate Spurious Emission (1 GHz ~ 7 GHz):
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27 dBm/MHz (68.2 dBuV/m) limit.
9. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (7 GHz ~ 18 GHz):
Note:
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27 dBm/MHz (68.2 dBuV/m) limit.

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For Radiate Spurious Emission (1 GHz ~ 9 GHz):
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27 dBm/MHz (68.2 dBuV/m) limit.
9. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (9 GHz ~ 18 GHz):
Note:
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27 dBm/MHz (68.2 dBuV/m) limit.
9. All modes have been tested, but only the worst data was recorded in the report.

TEST ENVIRONMENT

Temperature	24.1℃	Relative Humidity	55%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

Note: For spurious emissions below 1 GHz and above 18 GHz, pre-scan had done for all conditions, the test results are almost the same as other no-co-location modes and no worse emission was found during tested, so do no show in this report.

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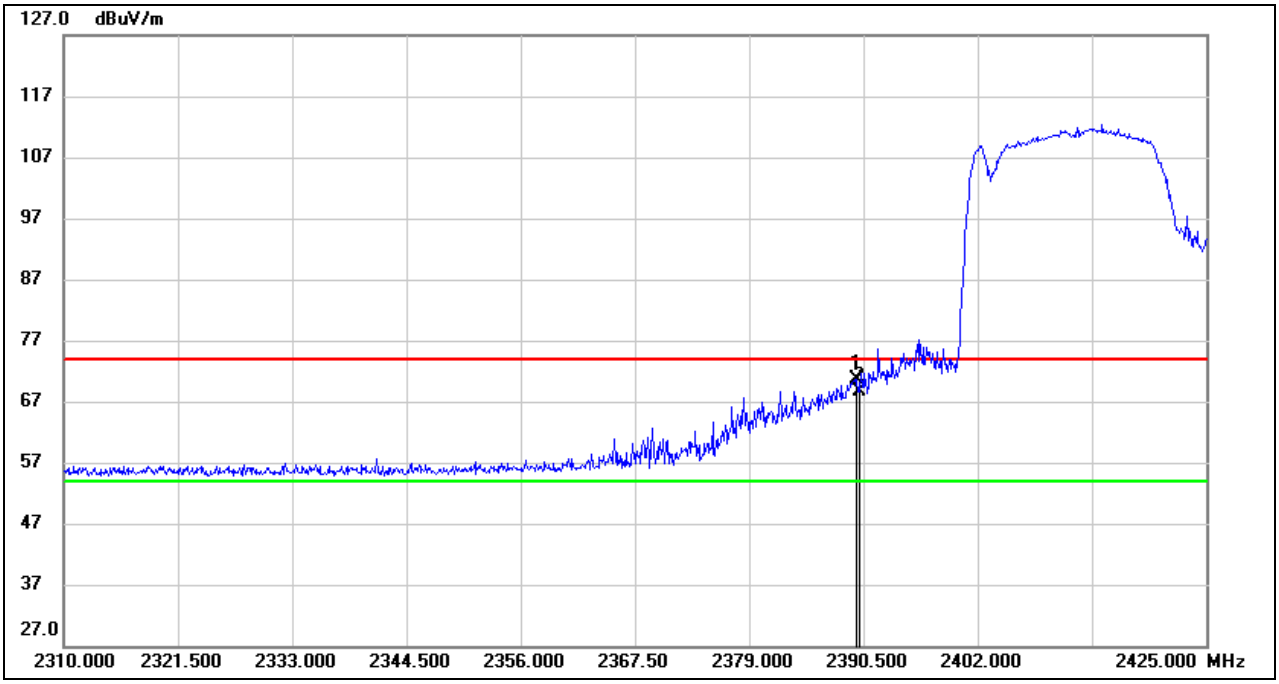
7.1. WORST-CASE TEST RESULTS CONDITION 1

7.1.1. RESTRICTED BANDEDGE

Test Mode:	WIFI 2.4G g mode 2412MHz + BT DH5 2402MHz Peak		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.810	38.95	31.73	70.68	74.00	-3.32	peak
2	2390.000	36.94	31.73	68.67	74.00	-5.33	peak

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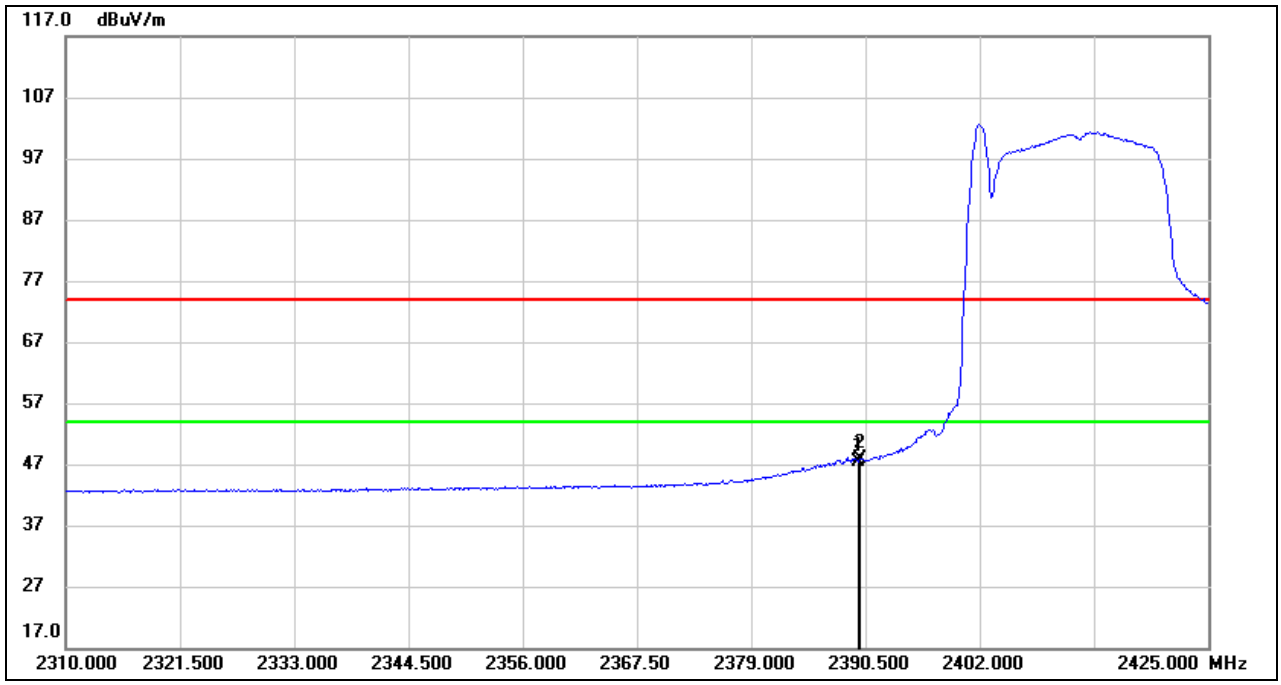
Test Mode:	WIFI 2.4G g mode 2412MHz + BT DH5 2402MHz AVG		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.810	15.70	31.73	47.43	54.00	-6.57	AVG
2	2390.000	16.08	31.73	47.81	54.00	-6.19	AVG

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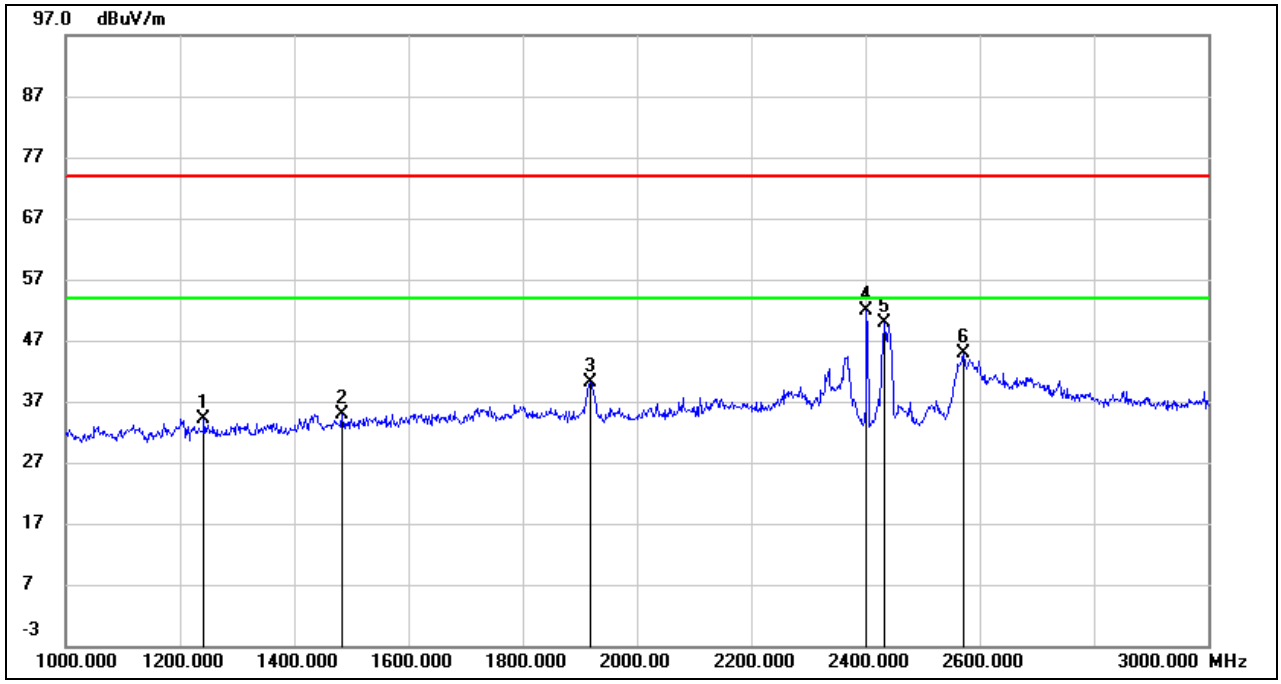
7.1.2. SPURIOUS EMISSIONS(1 GHz~3 GHz)

Test Mode:	WIFI 2.4G b mode 2437MHz + BT DH5 2402MHz		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1242.000	47.39	-13.25	34.14	74.00	-39.86	peak
2	1484.000	46.95	-11.97	34.98	74.00	-39.02	peak
3	1918.000	50.27	-10.05	40.22	74.00	-33.78	peak
4	2402.000	60.49	-8.59	51.90	/	/	fundamental
5	2437.000	58.22	-8.46	49.76	/	/	fundamental
6	2572.000	52.89	-7.89	45.00	74.00	-29.00	peak

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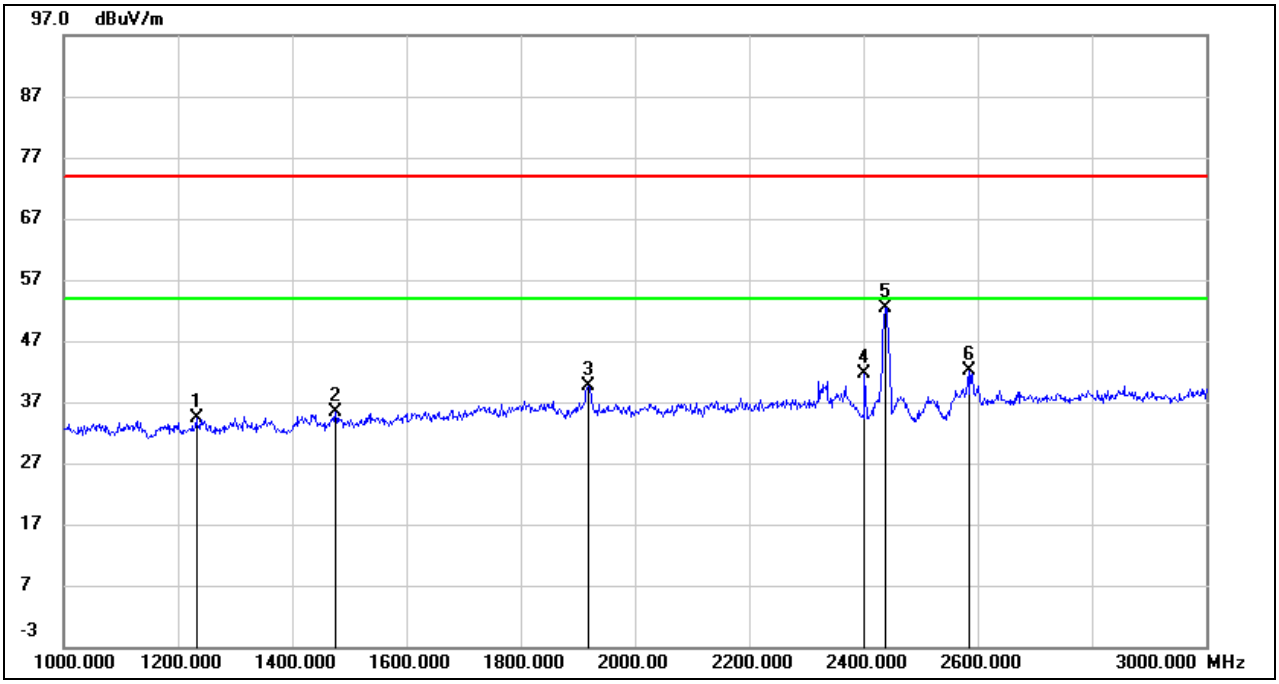
Test Mode:	WIFI 2.4G b mode 2437MHz + BT DH5 2402MHz		
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1232.000	47.20	-12.88	34.32	74.00	-39.68	peak
2	1476.000	47.18	-11.88	35.30	74.00	-38.70	peak
3	1918.000	48.99	-9.28	39.71	74.00	-34.29	peak
4	2402.000	49.42	-7.77	41.65	/	/	fundamental
5	2437.000	60.10	-7.63	52.47	/	/	fundamental
6	2584.000	49.19	-6.95	42.24	74.00	-31.76	peak

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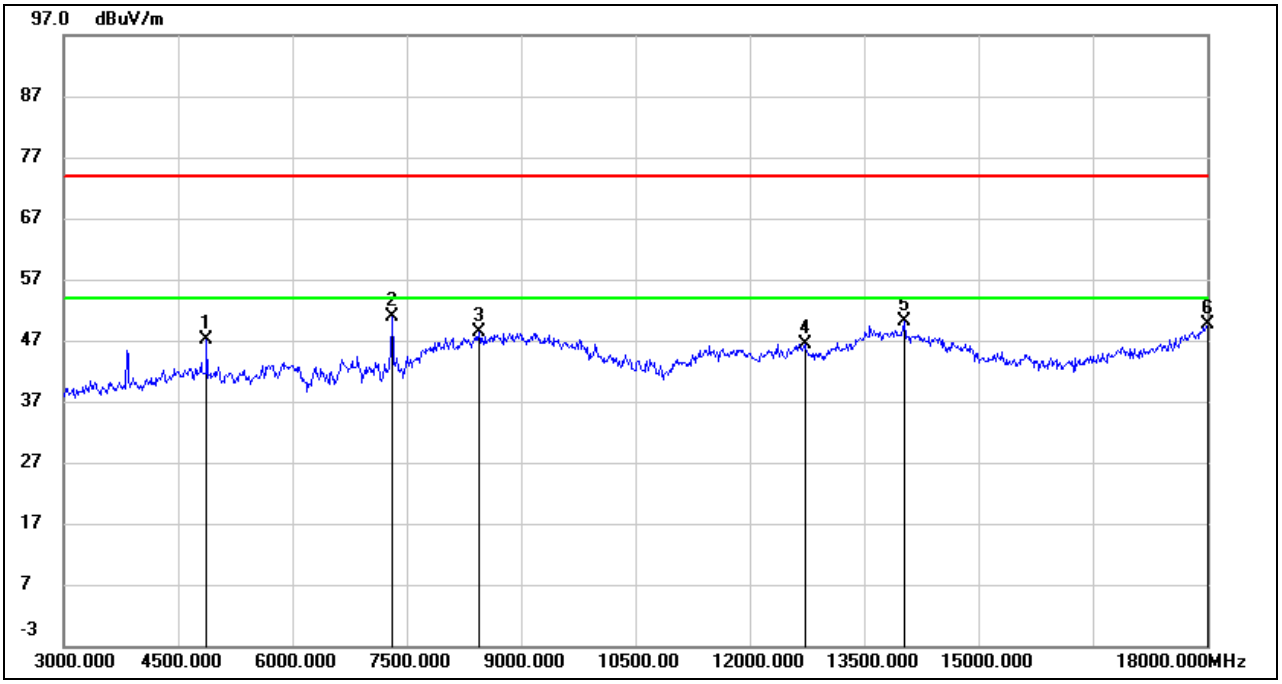
7.1.3. SPURIOUS EMISSIONS(3 GHz~18 GHz)

Test Mode:	WIFI 2.4G b mode 2437MHz + BT DH5 2402MHz		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	46.53	0.65	47.18	74.00	-26.82	peak
2	7305.000	43.88	7.03	50.91	74.00	-23.09	peak
3	8445.000	39.36	8.95	48.31	74.00	-25.69	peak
4	12720.000	27.09	19.29	46.38	74.00	-27.62	peak
5	14025.000	26.31	23.74	50.05	74.00	-23.95	peak
6	18000.000	19.97	29.64	49.61	74.00	-24.39	peak

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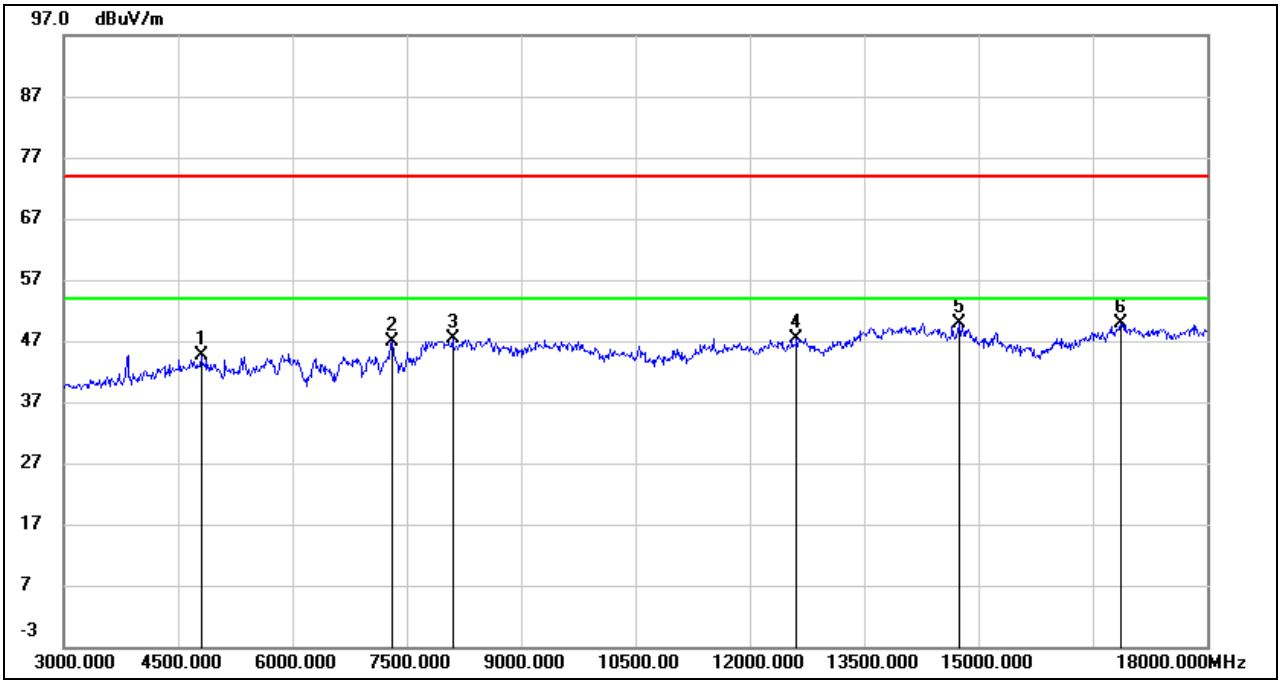
Test Mode:	WIFI 2.4G b mode 2437MHz + BT DH5 2402MHz		
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4800.000	42.97	1.55	44.52	74.00	-29.48	peak
2	7305.000	39.23	7.68	46.91	74.00	-27.09	peak
3	8100.000	38.67	8.81	47.48	74.00	-26.52	peak
4	12615.000	29.40	18.04	47.44	74.00	-26.56	peak
5	14745.000	28.89	21.02	49.91	74.00	-24.09	peak
6	16875.000	24.89	25.02	49.91	74.00	-24.09	peak

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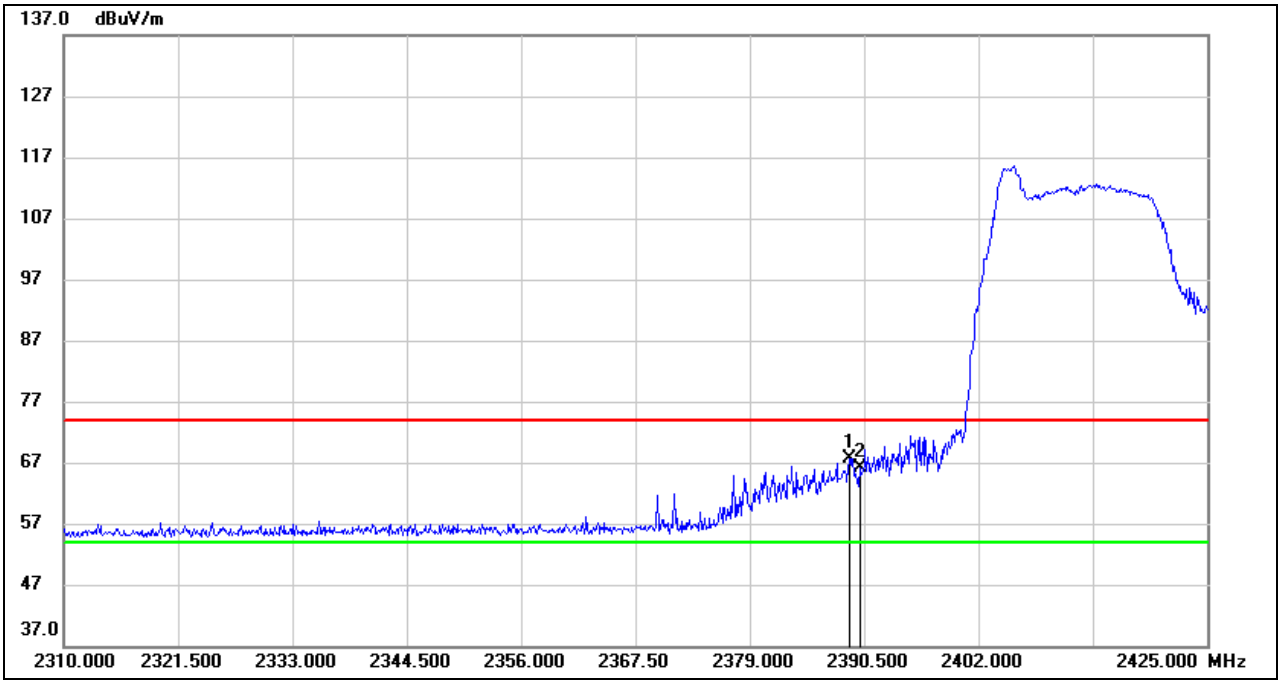
7.2. WORST-CASE TEST RESULTS CONDITION 2

7.2.1. RESTRICTED BANDEDGE

Test Mode:	WIFI 2.4G g mode 2412MHz + ZigBee 2405MHz Peak		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.005	35.98	31.73	67.71	74.00	-6.29	peak
2	2390.000	34.32	31.73	66.05	74.00	-7.95	peak

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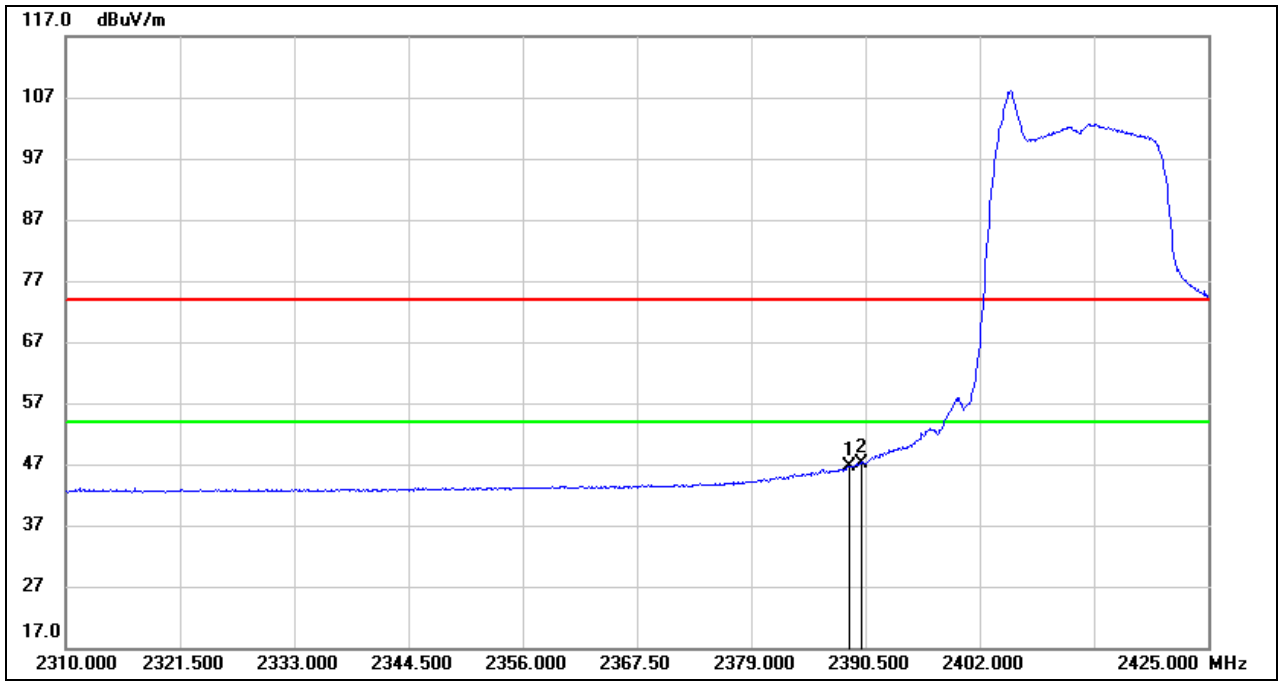
Test Mode:	WIFI 2.4G g mode 2412MHz + ZigBee 2405MHz AVG		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.005	14.78	31.73	46.51	54.00	-7.49	AVG
2	2390.000	15.47	31.73	47.20	54.00	-6.80	AVG

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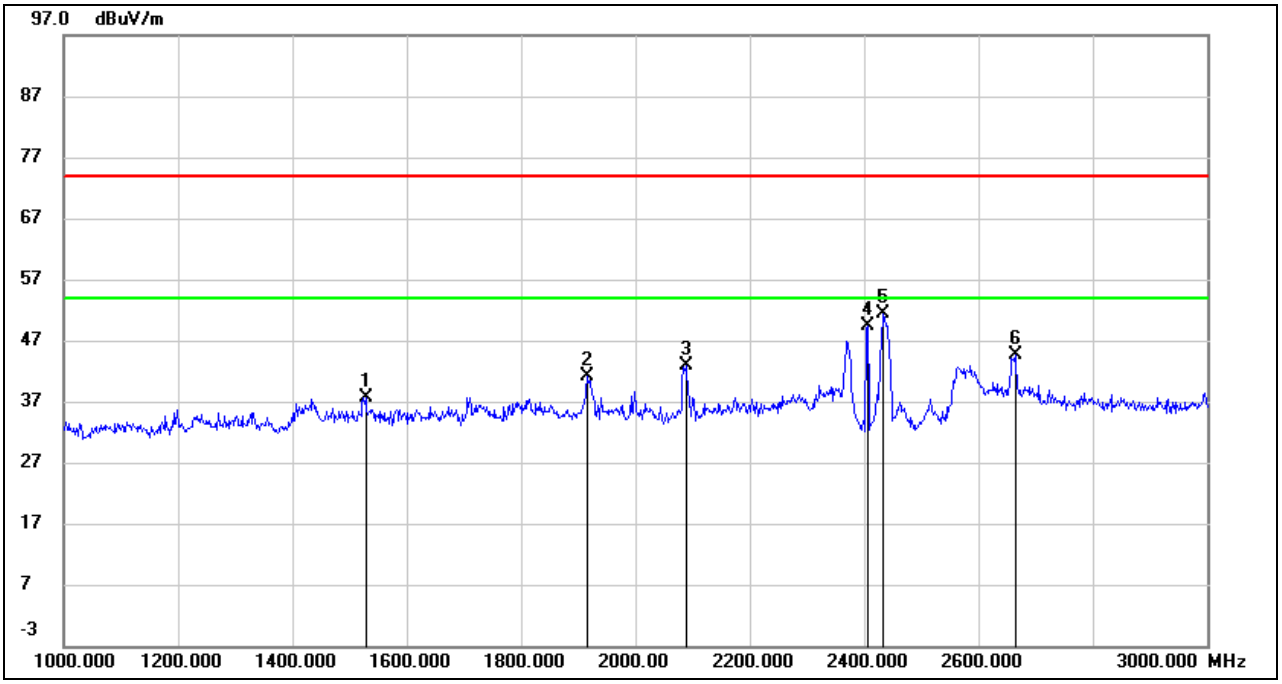
7.2.2. SPURIOUS EMISSIONS(1 GHz~3 GHz)

Test Mode:	WIFI 2.4G b mode 2437MHz + ZigBee 2405MHz		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1528.000	49.40	-11.74	37.66	74.00	-36.34	peak
2	1916.000	51.17	-10.04	41.13	74.00	-32.87	peak
3	2088.000	52.52	-9.76	42.76	74.00	-31.24	peak
4	2405.000	57.98	-8.57	49.41	/	/	fundamental
5	2437.000	59.73	-8.46	51.27	/	/	fundamental
6	2664.000	52.10	-7.49	44.61	74.00	-29.39	peak

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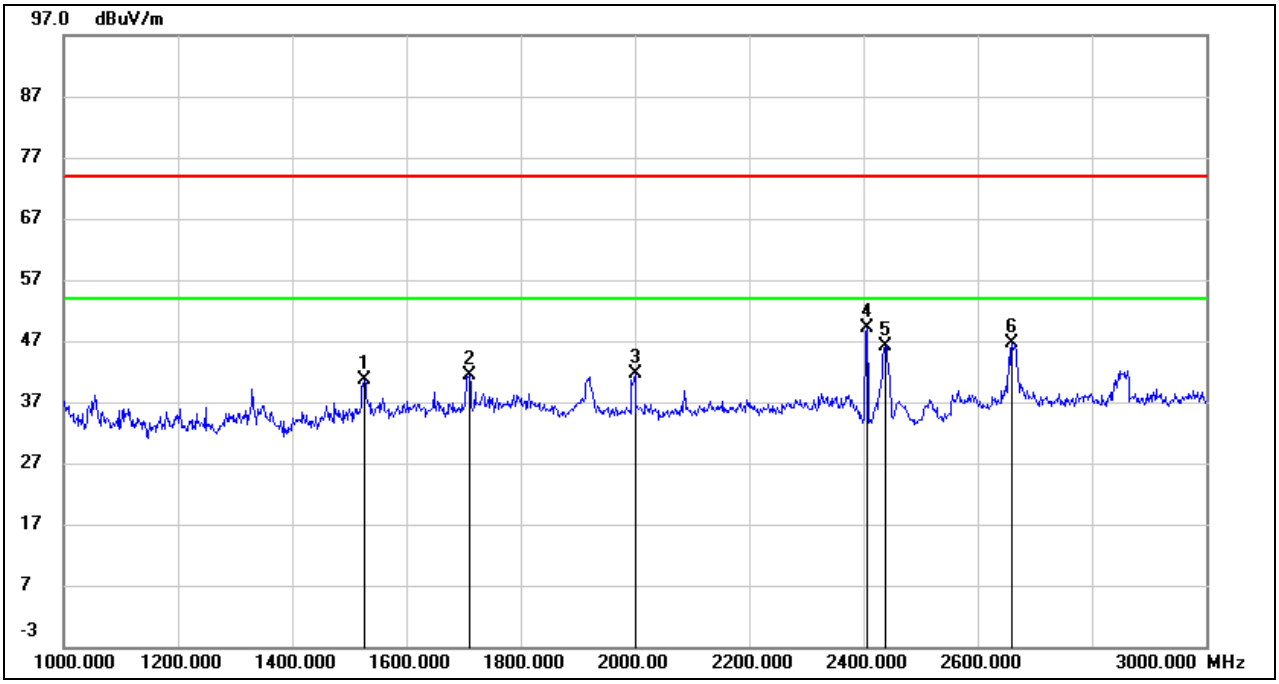
Test Mode:	WIFI 2.4G b mode 2437MHz + ZigBee 2405MHz		
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1526.000	52.29	-11.60	40.69	74.00	-33.31	peak
2	1710.000	51.64	-10.16	41.48	74.00	-32.52	peak
3	2000.000	50.85	-9.20	41.65	74.00	-32.35	peak
4	2405.000	57.00	-7.75	49.25	/	/	fundamental
5	2437.000	53.78	-7.63	46.15	/	/	fundamental
6	2660.000	53.07	-6.54	46.53	74.00	-27.47	peak

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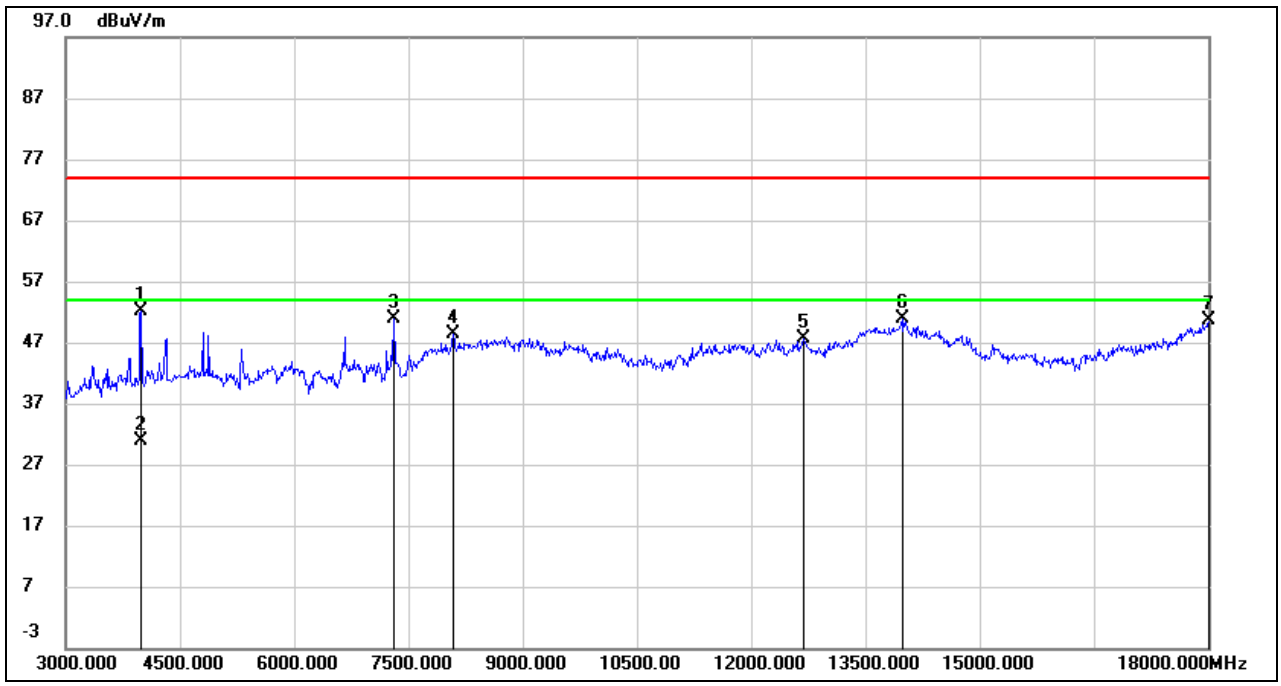
7.2.3. SPURIOUS EMISSIONS(3 GHz~18 GHz)

Test Mode:	WIFI 2.4G b mode 2437MHz + ZigBee 2405MHz		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	54.47	-2.30	52.17	74.00	-21.83	peak
2	3990.000	33.20	-2.30	30.90	54.00	-23.10	AVG
3	7305.000	43.90	7.03	50.93	74.00	-23.07	peak
4	8085.000	40.06	8.25	48.31	74.00	-25.69	peak
5	12690.000	28.46	19.21	47.67	74.00	-26.33	peak
6	13980.000	27.10	23.71	50.81	74.00	-23.19	peak
7	18000.000	21.03	29.64	50.67	74.00	-23.33	peak

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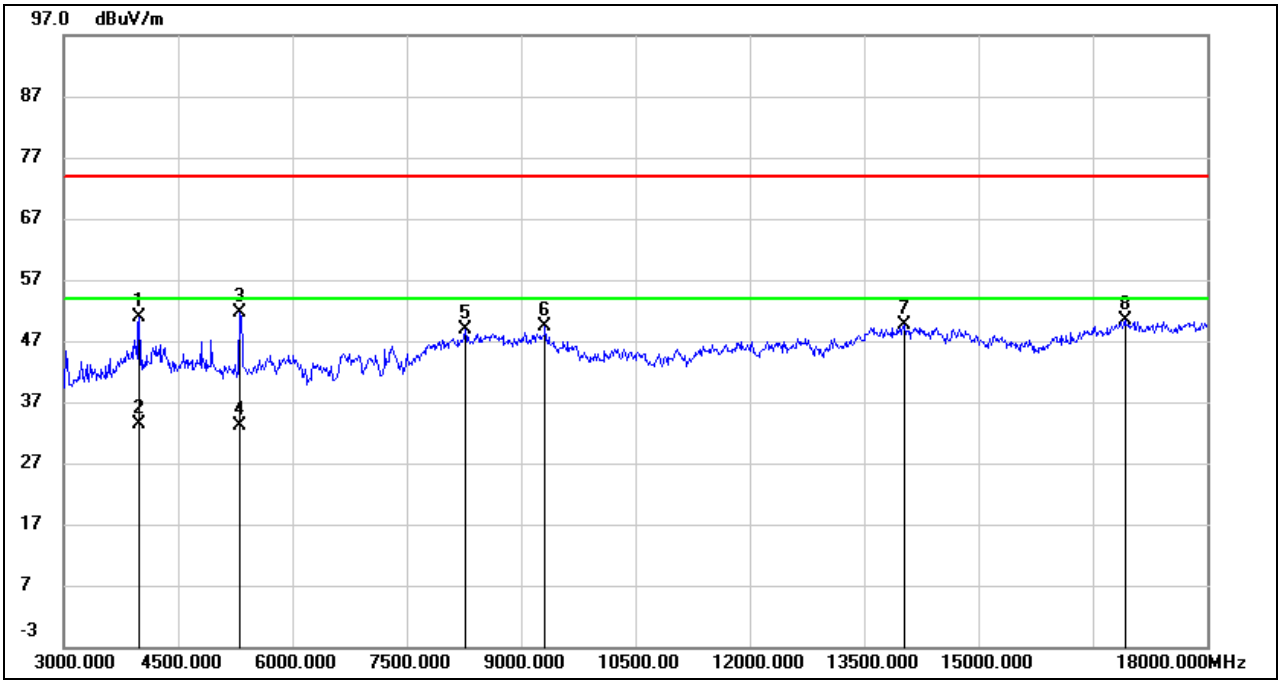
Test Mode:	WIFI 2.4G b mode 2437MHz + ZigBee 2405MHz		
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	52.19	-1.20	50.99	74.00	-23.01	peak
2	3990.000	34.51	-1.20	33.31	54.00	-20.69	AVG
3	5310.000	49.00	2.65	51.65	74.00	-22.35	peak
4	5310.000	30.45	2.65	33.10	54.00	-20.90	AVG
5	8265.000	39.61	9.21	48.82	74.00	-25.18	peak
6	9315.000	37.66	11.73	49.39	74.00	-24.61	peak
7	14025.000	27.34	22.20	49.54	74.00	-24.46	peak
8	16920.000	25.27	25.08	50.35	74.00	-23.65	peak

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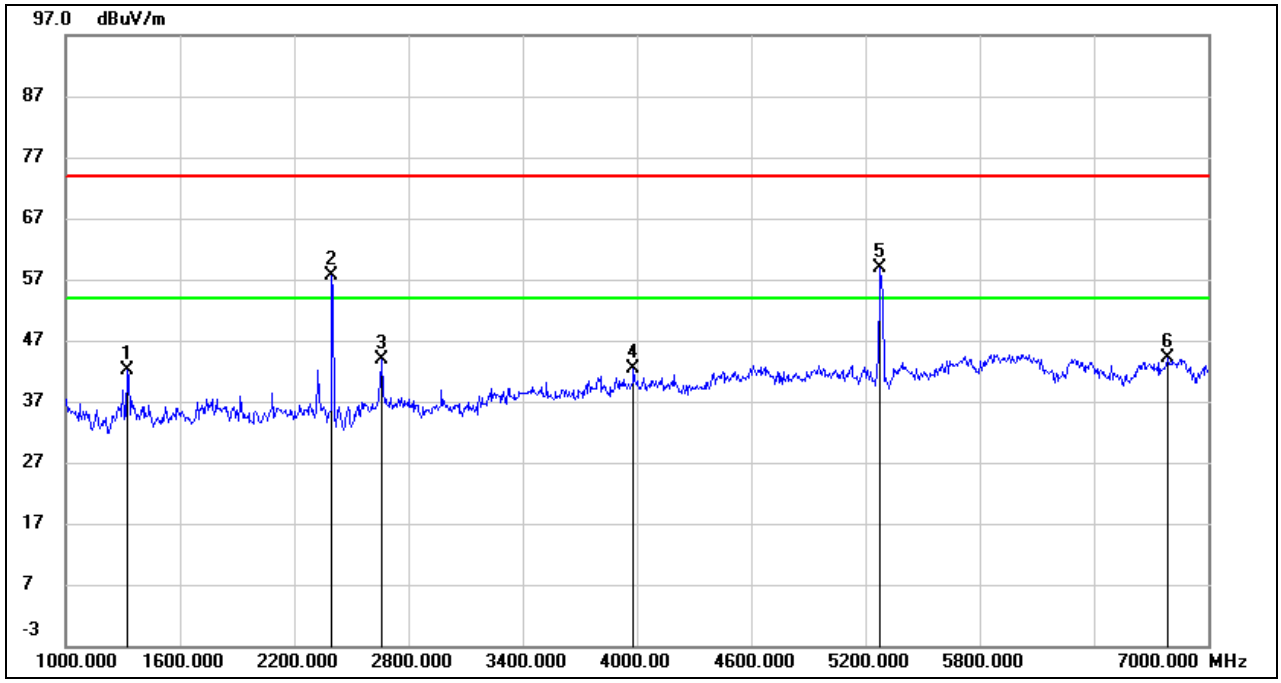
7.3. WORST-CASE TEST RESULTS CONDITION 3

7.3.1. SPURIOUS EMISSIONS(1 GHz~7 GHz)

Test Mode:	WIFI 5G a mode 5280MHz + BT DH5 2402MHz		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1324.000	55.05	-12.85	42.20	74.00	-31.80	peak
2	2402.000	66.19	-8.59	57.60	/	/	fundamental
3	2662.000	51.37	-7.50	43.87	74.00	-30.13	peak
4	3982.000	44.92	-2.44	42.48	74.00	-31.52	peak
5	5280.000	56.44	2.38	58.82	/	/	fundamental
6	6790.000	37.67	6.58	44.25	74.00	-29.75	peak

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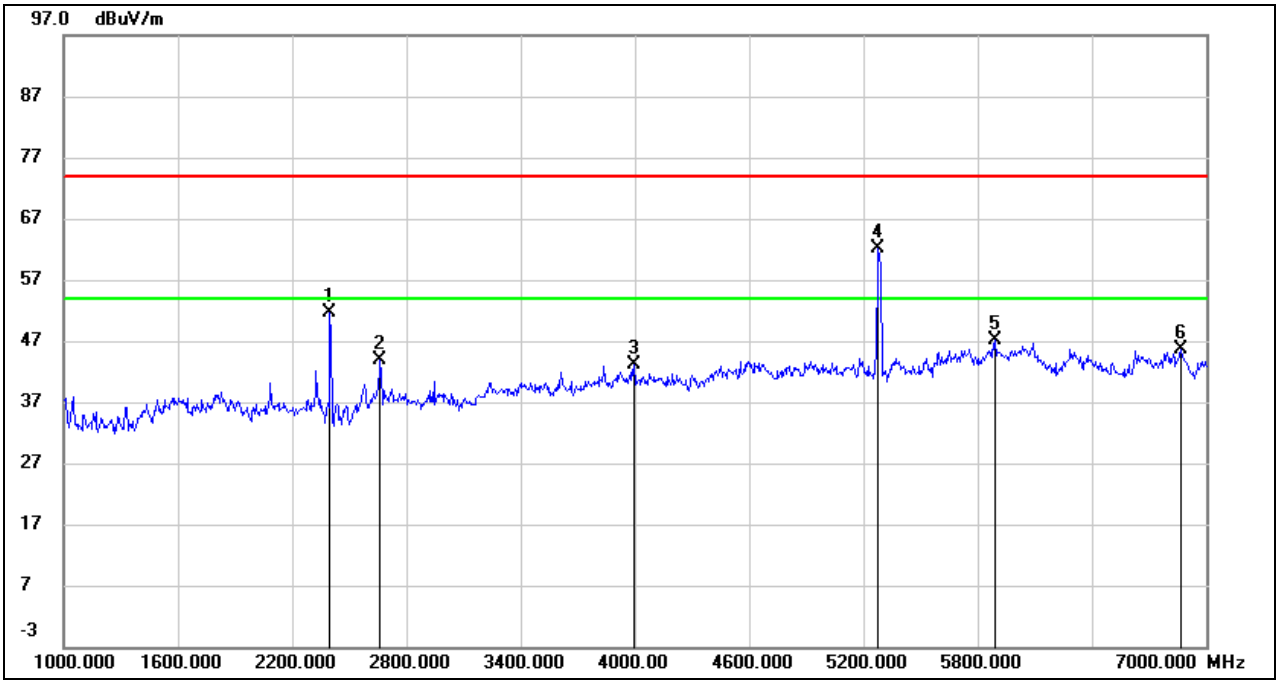
Test Mode:	WIFI 5G a mode 5280MHz + BT DH5 2402MHz		
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2402.000	59.31	-7.77	51.54	/	/	fundamental
2	2662.000	50.36	-6.54	43.82	74.00	-30.18	peak
3	3994.000	44.56	-1.31	43.25	74.00	-30.75	peak
4	5280.000	58.51	3.58	62.09	/	/	fundamental
5	5890.000	40.97	6.06	47.03	74.00	-26.97	peak
6	6868.000	38.23	7.43	45.66	74.00	-28.34	peak

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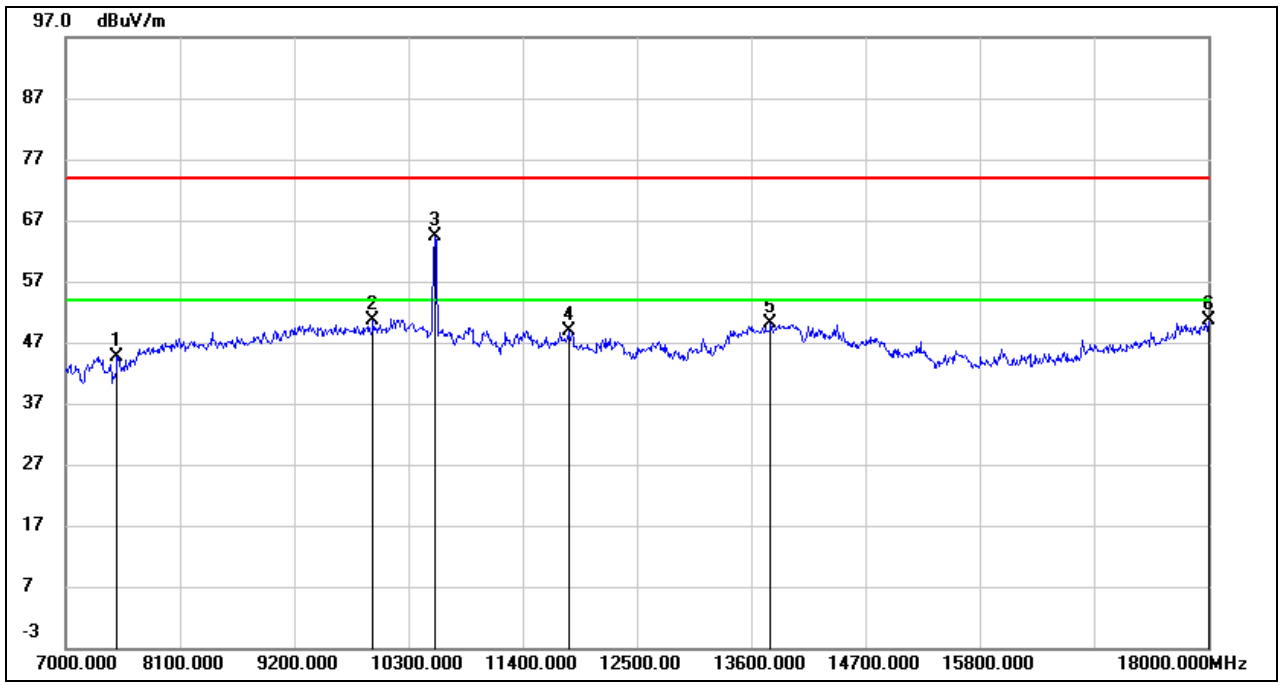
7.3.2. SPURIOUS EMISSIONS(7 GHz~18 GHz)

Test Mode:	WIFI 5G a mode 5280MHz + BT DH5 2402MHz		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7495.000	37.25	7.39	44.64	74.00	-29.36	peak
2	9959.000	36.88	13.77	50.65	74.00	-23.35	peak
3*	10553.000	49.84	14.42	64.26	68.20	-3.94	peak
4	11840.000	30.84	18.07	48.91	74.00	-25.09	peak
5	13787.000	26.79	23.27	50.06	74.00	-23.94	peak
6	18000.000	21.08	29.60	50.68	74.00	-23.32	peak

Note: *-indicates frequency is out of the restricted bands and the limit is -27 dBm/MHz (68.2 dBuV/m).

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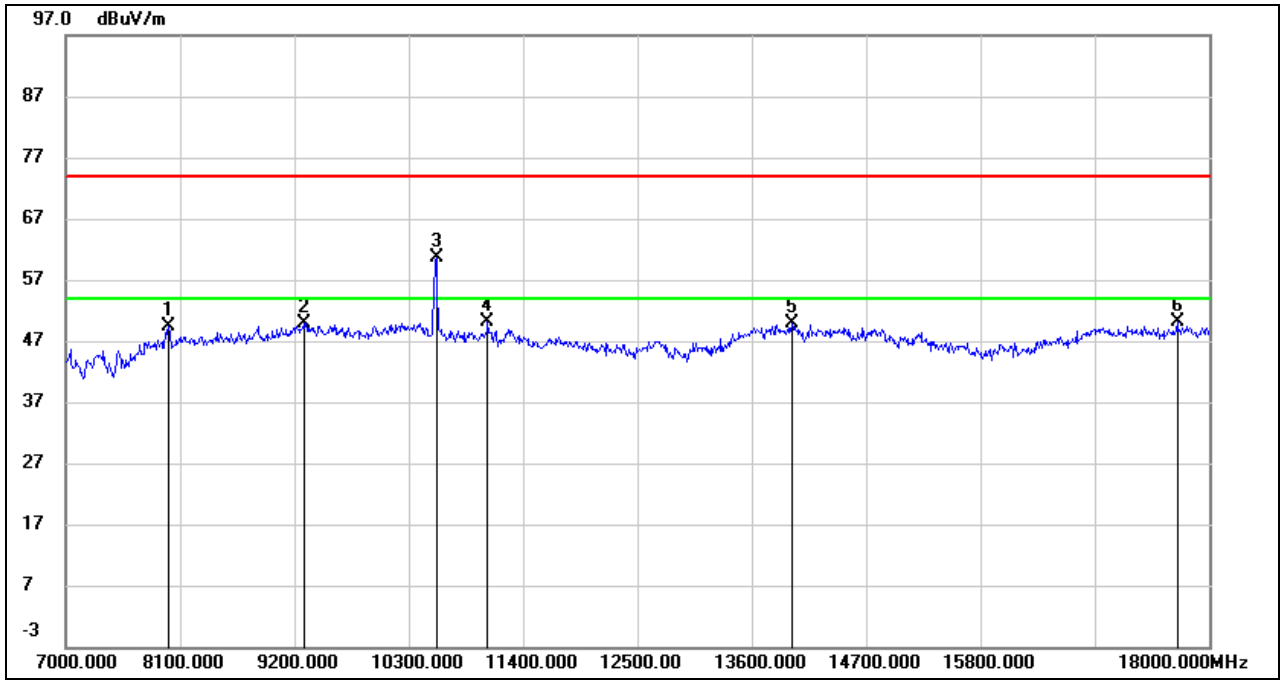
Test Mode:	WIFI 5G a mode 5280MHz + BT DH5 2402MHz		
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7990.000	40.46	8.82	49.28	74.00	-24.72	peak
2	9288.000	38.45	11.50	49.95	74.00	-24.05	peak
3*	10564.000	46.39	14.16	60.55	68.20	-7.65	peak
4	11059.000	35.46	14.66	50.12	74.00	-23.88	peak
5	13985.000	27.55	22.28	49.83	74.00	-24.17	peak
6	17692.000	23.69	26.39	50.08	74.00	-23.92	peak

Note: *-indicates frequency is out of the restricted bands and the limit is -27 dBm/MHz (68.2 dBuV/m).

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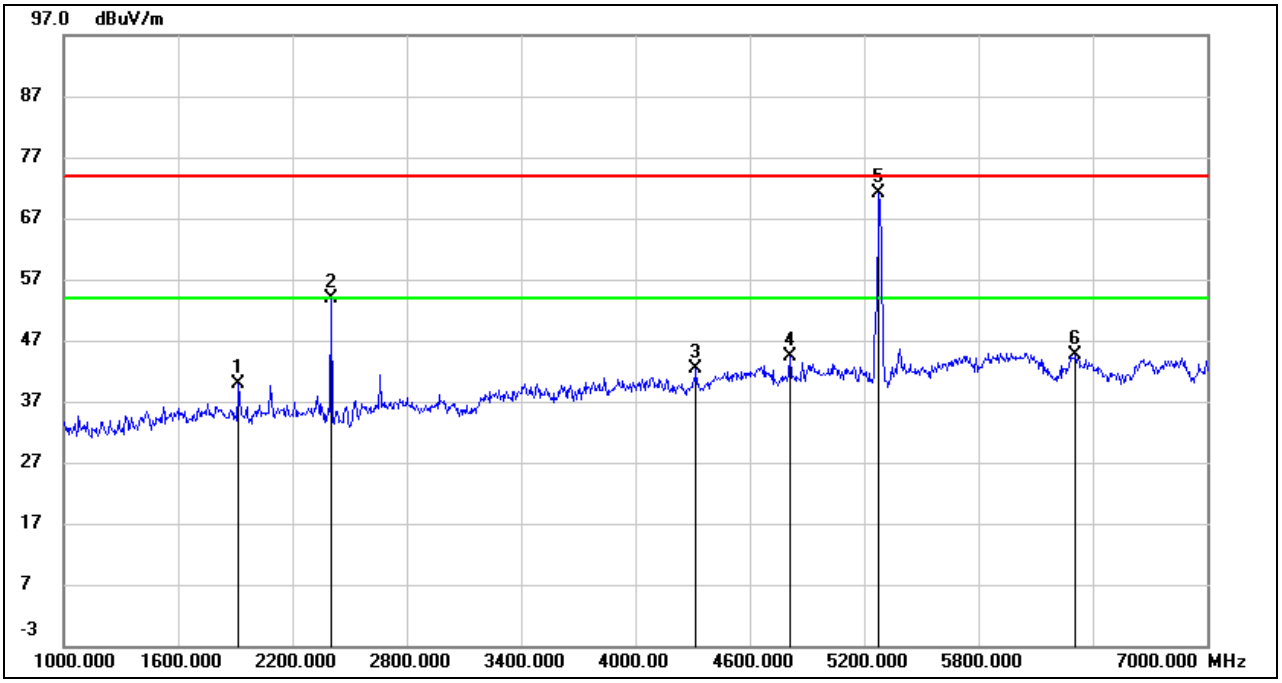
7.4. WORST-CASE TEST RESULTS CONDITION 4

7.4.1. SPURIOUS EMISSIONS(1 GHz~7 GHz)

Test Mode:	WIFI 5G a mode 5280MHz + ZigBee 2405MHz		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1918.000	49.94	-10.05	39.89	74.00	-34.11	peak
2	2405.000	62.55	-8.58	53.97	/	/	fundamental
3	4318.000	43.74	-1.28	42.46	74.00	-31.54	peak
4	4810.000	43.50	0.92	44.42	74.00	-29.58	peak
5	5280.000	68.85	2.38	71.23	/	/	fundamental
6	6310.000	38.52	6.06	44.58	74.00	-29.42	peak

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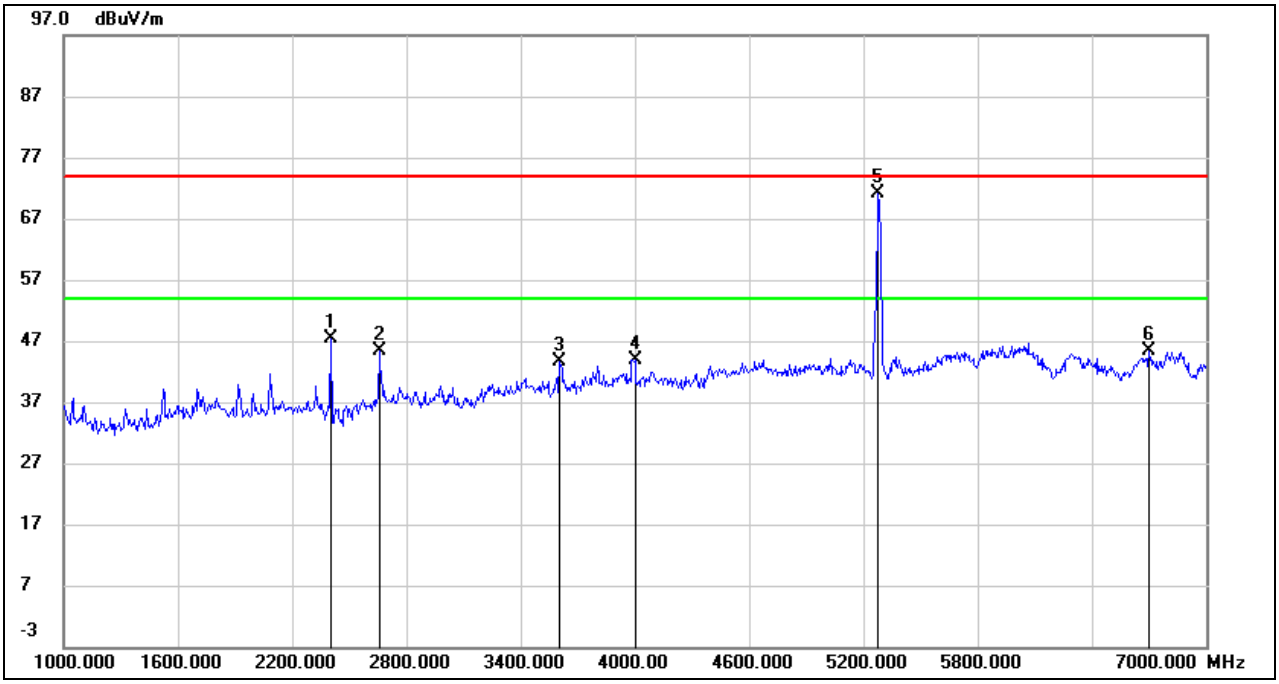
Test Mode:	WIFI 5G a mode 5280MHz + ZigBee 2405MHz		
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2405.000	55.24	-7.76	47.48	/	/	fundamental
2	2656.000	51.91	-6.57	45.34	74.00	-28.66	peak
3	3604.000	45.79	-2.26	43.53	74.00	-30.47	peak
4	4000.000	45.27	-1.30	43.97	74.00	-30.03	peak
5	5280.000	67.53	3.58	71.11	/	/	fundamental
6	6700.000	38.10	7.19	45.29	74.00	-28.71	peak

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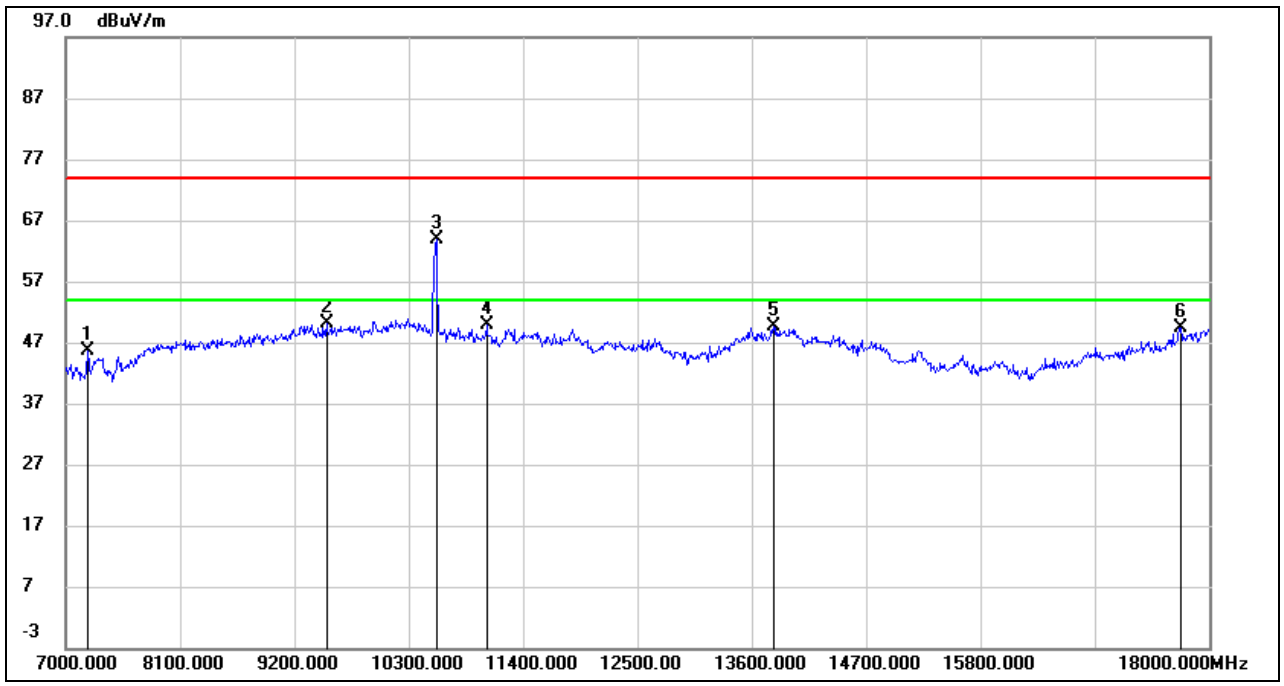
7.4.2. SPURIOUS EMISSIONS(7 GHz~18 GHz)

Test Mode:	WIFI 5G a mode 5280MHz + ZigBee 2405MHz		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7209.000	38.73	6.81	45.54	74.00	-28.46	peak
2	9508.000	37.94	12.22	50.16	74.00	-23.84	peak
3*	10564.000	49.32	14.44	63.76	68.20	-4.44	peak
4	11048.000	34.40	15.50	49.90	74.00	-24.10	peak
5	13809.000	26.19	23.33	49.52	74.00	-24.48	peak
6	17725.000	21.90	27.49	49.39	74.00	-24.61	peak

Note: *-indicates frequency is out of the restricted bands and the limit is -27 dBm/MHz (68.2 dBuV/m).

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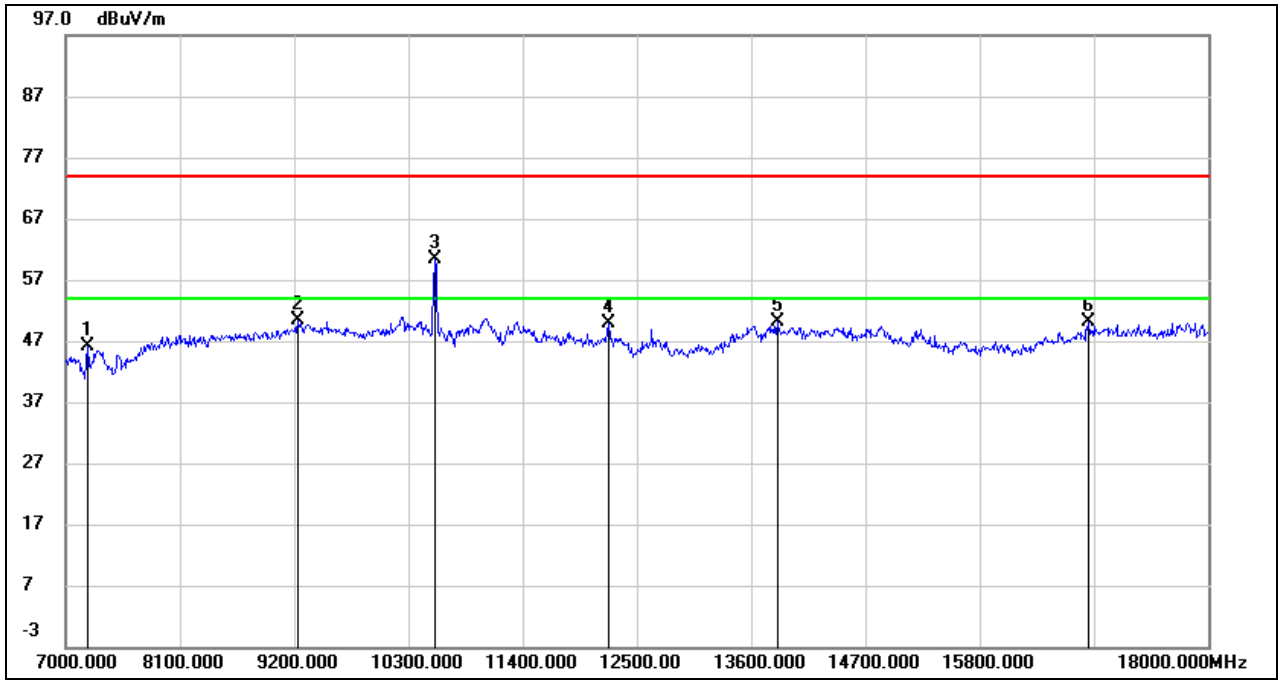
Test Mode:	WIFI 5G a mode 5280MHz + ZigBee 2405MHz		
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7209.000	38.47	7.55	46.02	74.00	-27.98	peak
2	9233.000	39.13	11.33	50.46	74.00	-23.54	peak
3*	10553.000	46.30	14.15	60.45	68.20	-7.75	peak
4	12225.000	32.33	17.52	49.85	74.00	-24.15	peak
5	13853.000	28.21	21.84	50.05	74.00	-23.95	peak
6	16845.000	25.25	24.80	50.05	74.00	-23.95	peak

Note: *-indicates frequency is out of the restricted bands and the limit is -27 dBm/MHz (68.2 dBuV/m).

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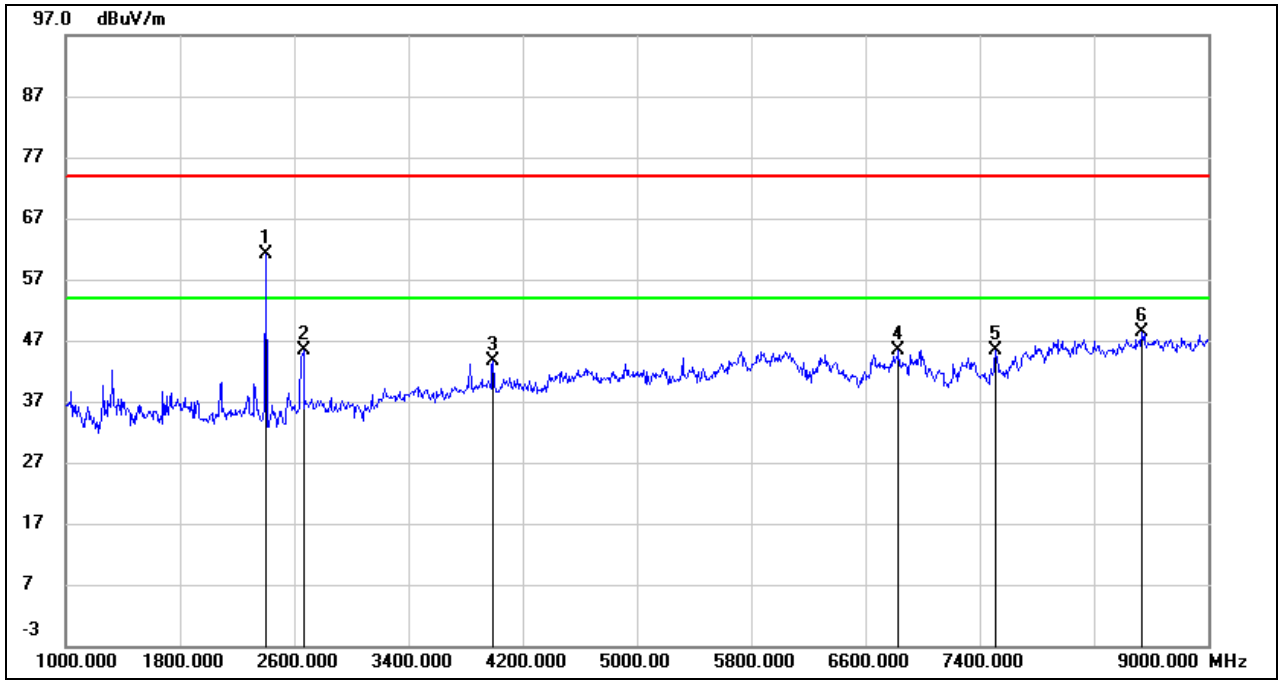
7.5. WORST-CASE TEST RESULTS CONDITION 5

7.5.1. SPURIOUS EMISSIONS(1 GHz~9 GHz)

Test Mode:	WIFI 6G ax HE160 mode 6985MHz + BT DH5 2402MHz		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2402.000	69.67	-8.59	61.08	/	/	fundamental
2	2664.000	52.97	-7.49	45.48	74.00	-28.52	peak
3	3992.000	46.02	-2.41	43.61	74.00	-30.39	peak
4	6832.000	38.80	6.58	45.38	74.00	-28.62	peak
5	7512.000	37.96	7.42	45.38	74.00	-28.62	peak
6	8536.000	39.19	9.11	48.30	74.00	-25.70	peak

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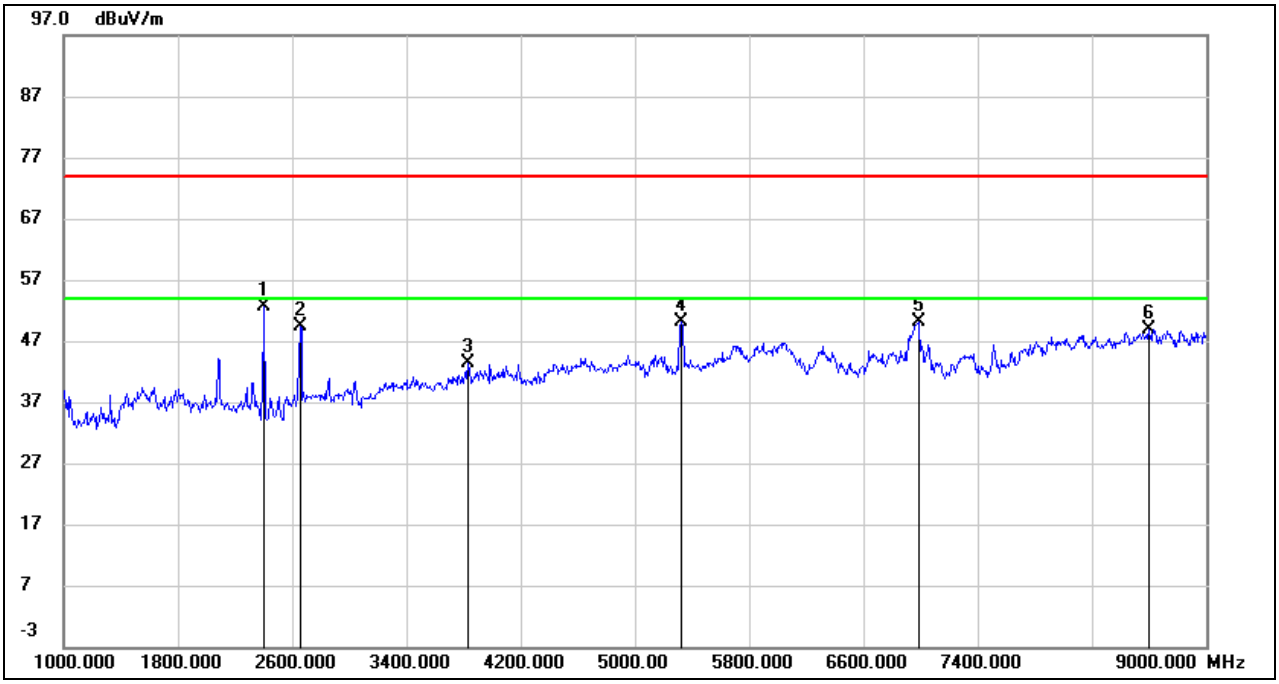
Test Mode:	WIFI 6G ax HE160 mode 6985MHz + BT DH5 2402MHz		
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2402.000	60.52	-7.77	52.75	/	/	fundamental
2	2656.000	56.06	-6.57	49.49	74.00	-24.51	peak
3	3832.000	45.12	-1.68	43.44	74.00	-30.56	peak
4	5320.000	46.41	3.76	50.17	74.00	-23.83	peak
5	6985.000	42.87	7.36	50.23	/	/	fundamental
6	8600.000	38.97	9.87	48.84	74.00	-25.16	peak

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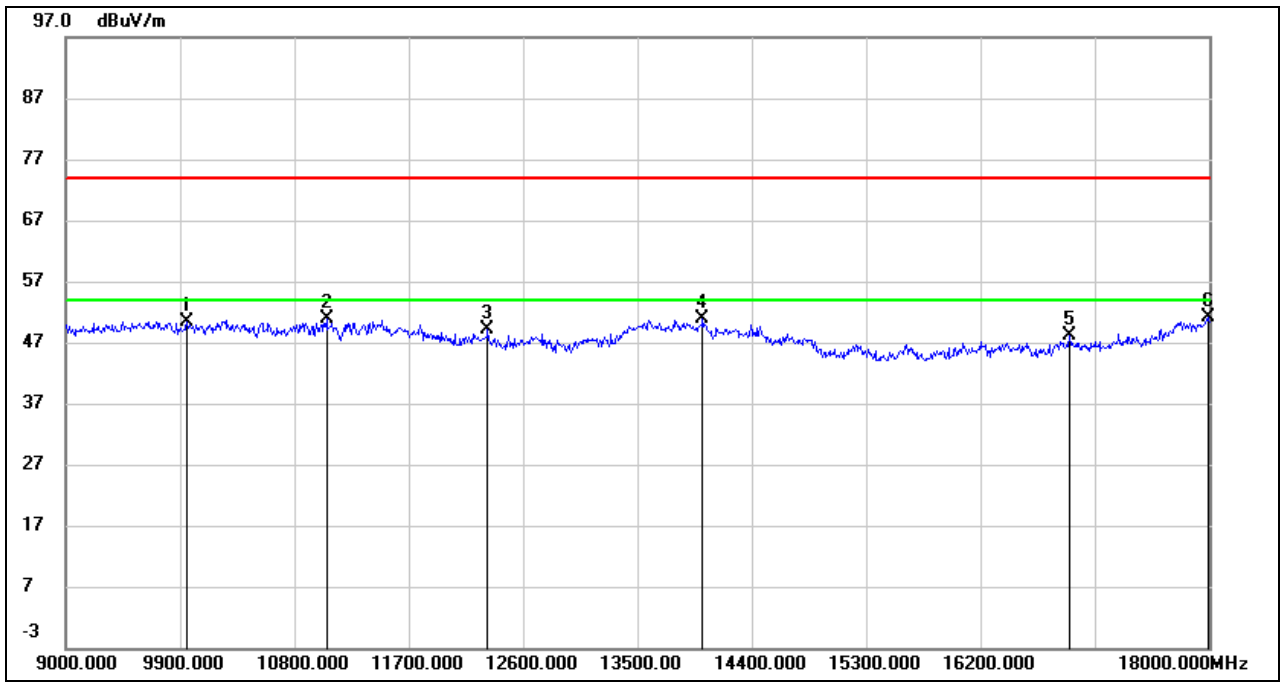
7.5.2. SPURIOUS EMISSIONS(9 GHz~18 GHz)

Test Mode:	WIFI 6G ax HE160 mode 6985MHz + BT DH5 2402MHz		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9954.000	36.70	13.79	50.49	74.00	-23.51	peak
2	11052.000	35.18	15.69	50.87	74.00	-23.13	peak
3	12321.000	30.35	18.82	49.17	74.00	-24.83	peak
4	14013.000	27.63	23.20	50.83	74.00	-23.17	peak
5	16902.000	25.33	22.84	48.17	74.00	-25.83	peak
6	17991.000	22.02	29.11	51.13	74.00	-22.87	peak

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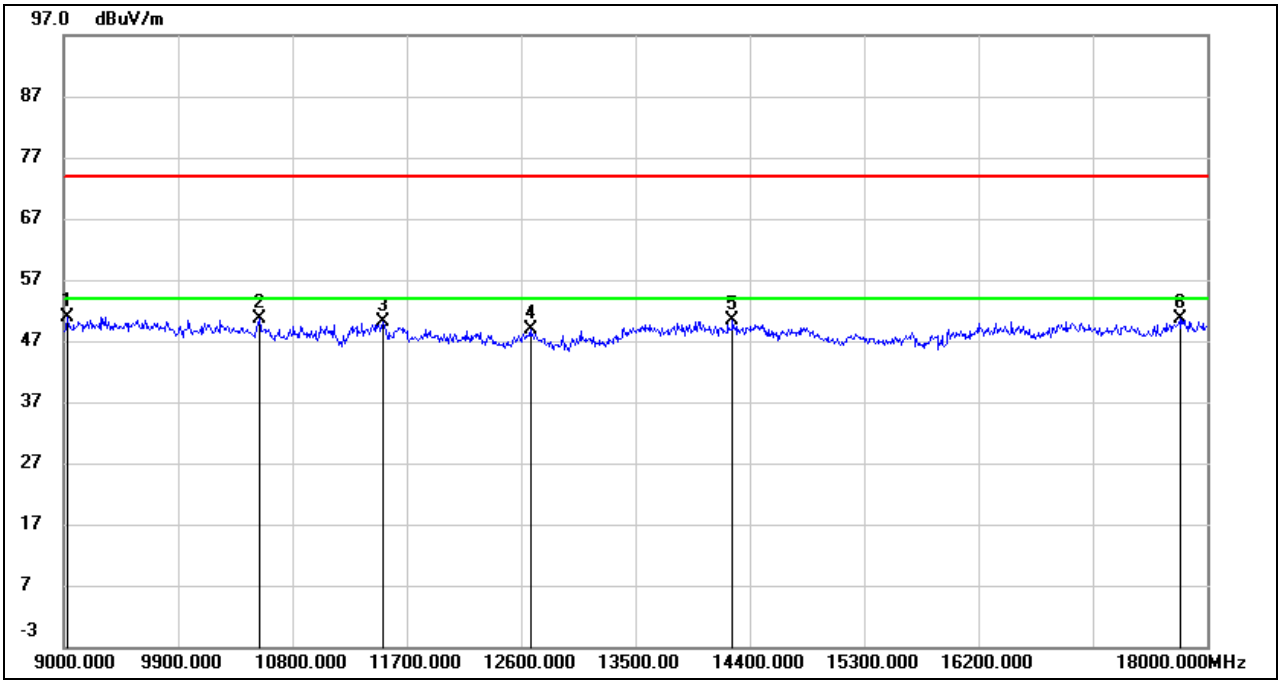
Test Mode:	WIFI 6G ax HE160 mode 6985MHz + BT DH5 2402MHz		
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9027.000	39.60	11.26	50.86	74.00	-23.14	peak
2	10539.000	36.73	14.02	50.75	74.00	-23.25	peak
3	11511.000	33.43	16.66	50.09	74.00	-23.91	peak
4	12672.000	30.72	18.07	48.79	74.00	-25.21	peak
5	14265.000	28.99	21.36	50.35	74.00	-23.65	peak
6	17784.000	24.62	25.91	50.53	74.00	-23.47	peak

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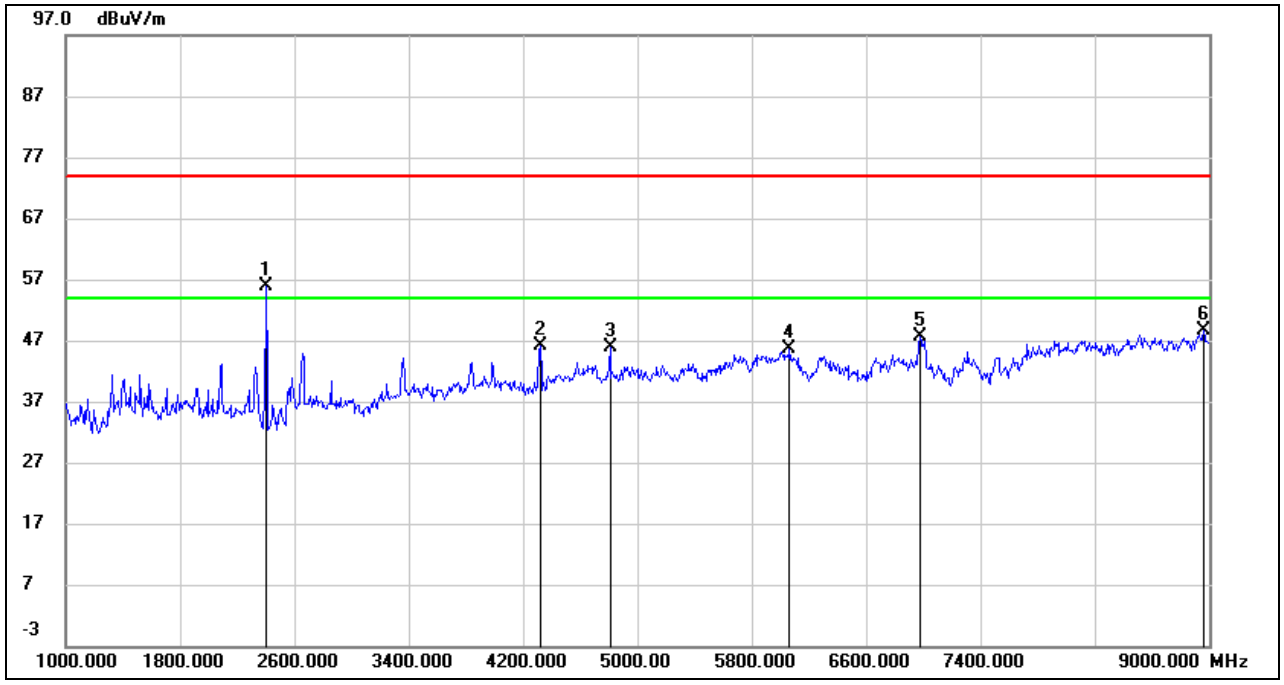
7.6. WORST-CASE TEST RESULTS CONDITION 6

7.6.1. SPURIOUS EMISSIONS(1 GHz~9 GHz)

Test Mode:	WIFI 6G ax HE160 mode 6985MHz + ZigBee 2405MHz		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2405.000	64.40	-8.59	55.81	/	/	fundamental
2	4320.000	47.31	-1.28	46.03	74.00	-27.97	peak
3	4808.000	45.10	0.90	46.00	74.00	-28.00	peak
4	6064.000	39.80	5.87	45.67	74.00	-28.33	peak
5	6985.000	41.13	6.47	47.60	/	/	fundamental
6	8960.000	38.50	10.06	48.56	74.00	-25.44	peak

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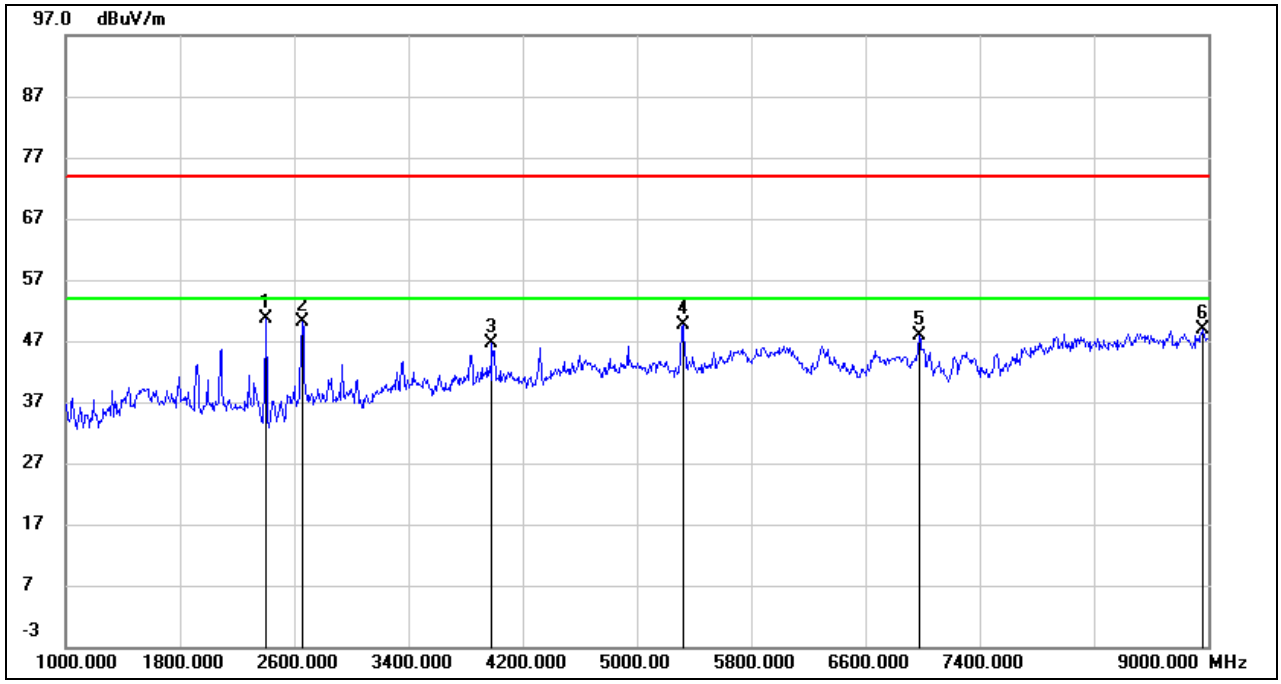
Test Mode:	WIFI 6G ax HE160 mode 6985MHz + ZigBee 2405MHz		
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2405.000	58.43	-7.77	50.66	/	/	fundamental
2	2656.000	56.73	-6.57	50.16	74.00	-23.84	peak
3	3984.000	48.08	-1.34	46.74	74.00	-27.26	peak
4	5320.000	45.83	3.76	49.59	74.00	-24.41	peak
5	6985.000	40.47	7.37	47.84	/	/	fundamental
6	8960.000	38.36	10.48	48.84	74.00	-25.16	peak

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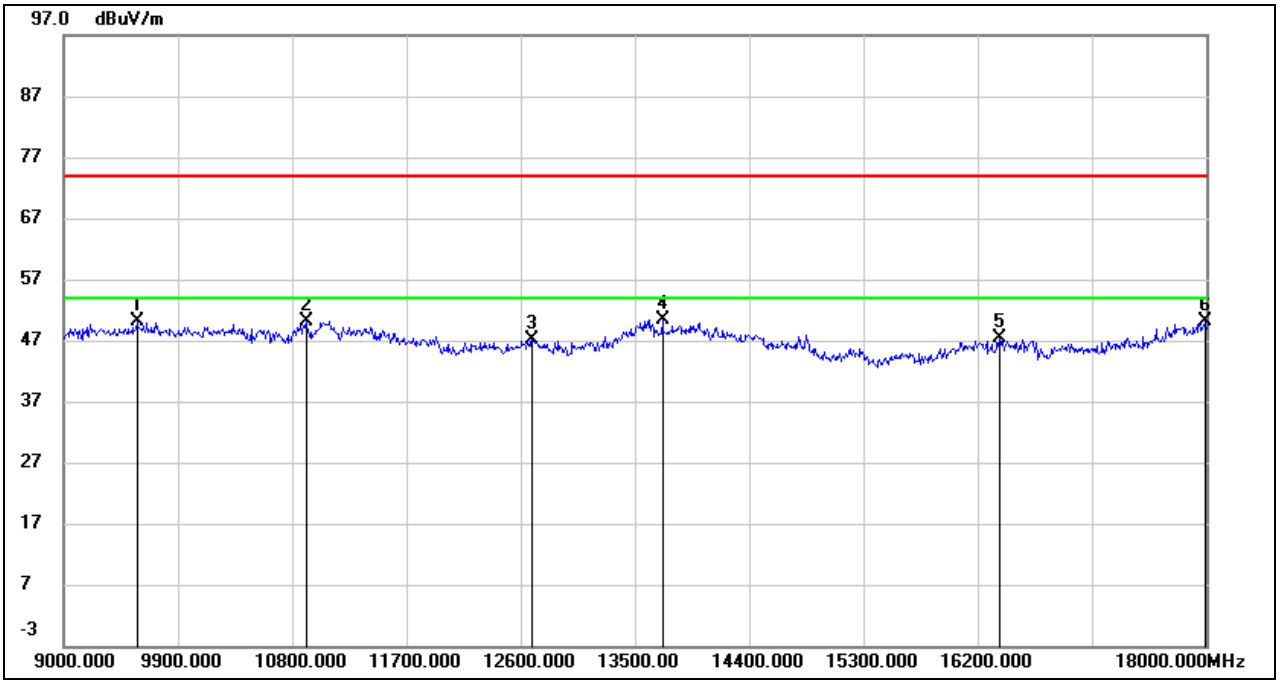
7.6.2. SPURIOUS EMISSIONS(9 GHz~18 GHz)

Test Mode:	WIFI 6G ax HE160 mode 6985MHz + ZigBee 2405MHz		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9576.000	36.97	13.25	50.22	74.00	-23.78	peak
2	10908.000	34.94	15.23	50.17	74.00	-23.83	peak
3	12690.000	28.06	19.13	47.19	74.00	-26.81	peak
4	13716.000	27.74	22.61	50.35	74.00	-23.65	peak
5	16371.000	24.73	22.63	47.36	74.00	-26.64	peak
6	17991.000	21.00	29.11	50.11	74.00	-23.89	peak

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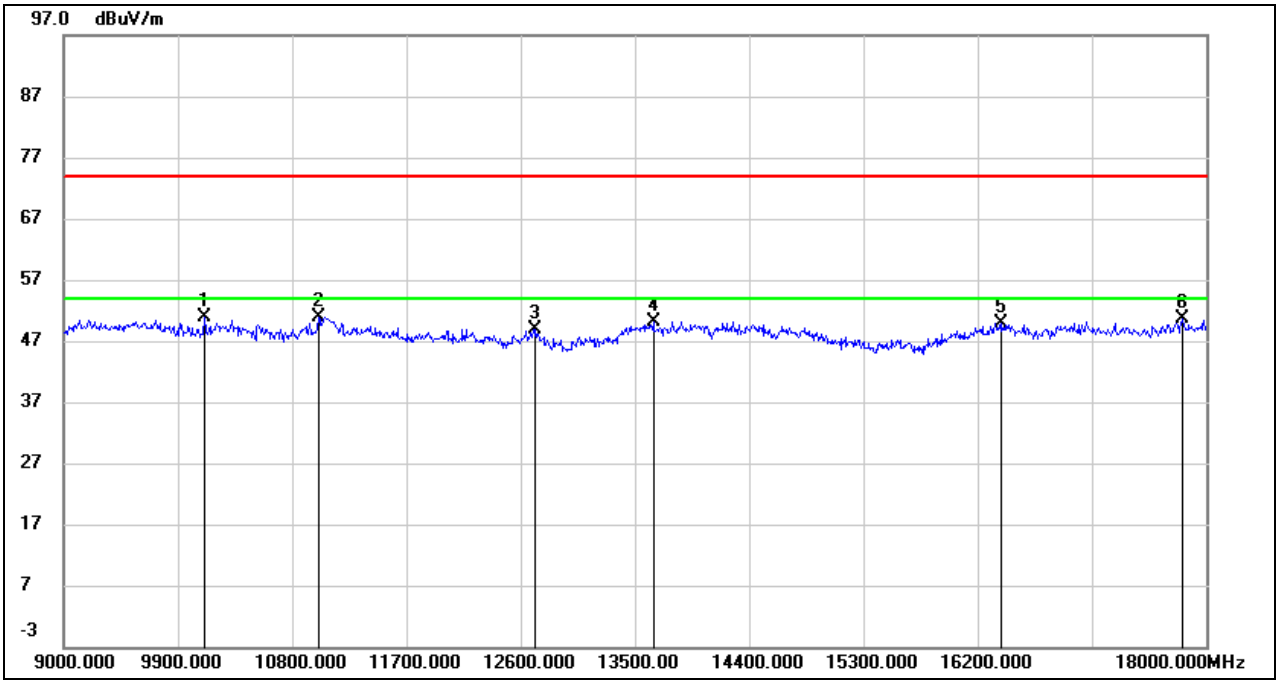
Test Mode:	WIFI 6G ax HE160 mode 6985MHz + ZigBee 2405MHz		
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10107.000	37.72	13.10	50.82	74.00	-23.18	peak
2	11007.000	36.25	14.68	50.93	74.00	-23.07	peak
3	12717.000	30.61	18.16	48.77	74.00	-25.23	peak
4	13644.000	29.30	20.82	50.12	74.00	-23.88	peak
5	16389.000	25.41	24.49	49.90	74.00	-24.10	peak
6	17811.000	24.48	26.04	50.52	74.00	-23.48	peak

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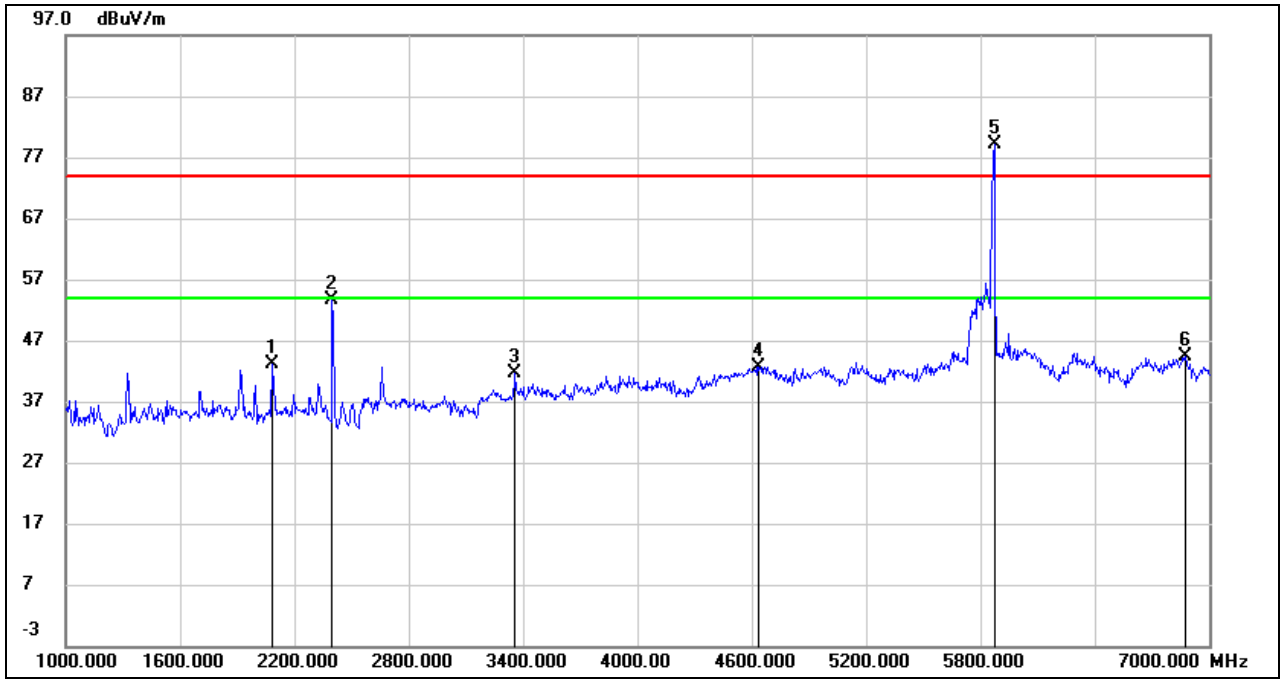
7.7. WORST-CASE TEST RESULTS CONDITION 7

7.7.1. SPURIOUS EMISSIONS(1 GHz~7 GHz)

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G) + BT DH5 2402MHz		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2080.000	52.80	-9.79	43.01	74.00	-30.99	peak
2	2402.000	62.26	-8.59	53.67	/	/	fundamental
3	3358.000	45.90	-4.39	41.51	74.00	-32.49	peak
4	4636.000	42.47	0.22	42.69	74.00	-31.31	peak
5	5862.000	74.31	4.91	79.22	/	/	fundamental
6	6874.000	37.84	6.55	44.39	74.00	-29.61	peak

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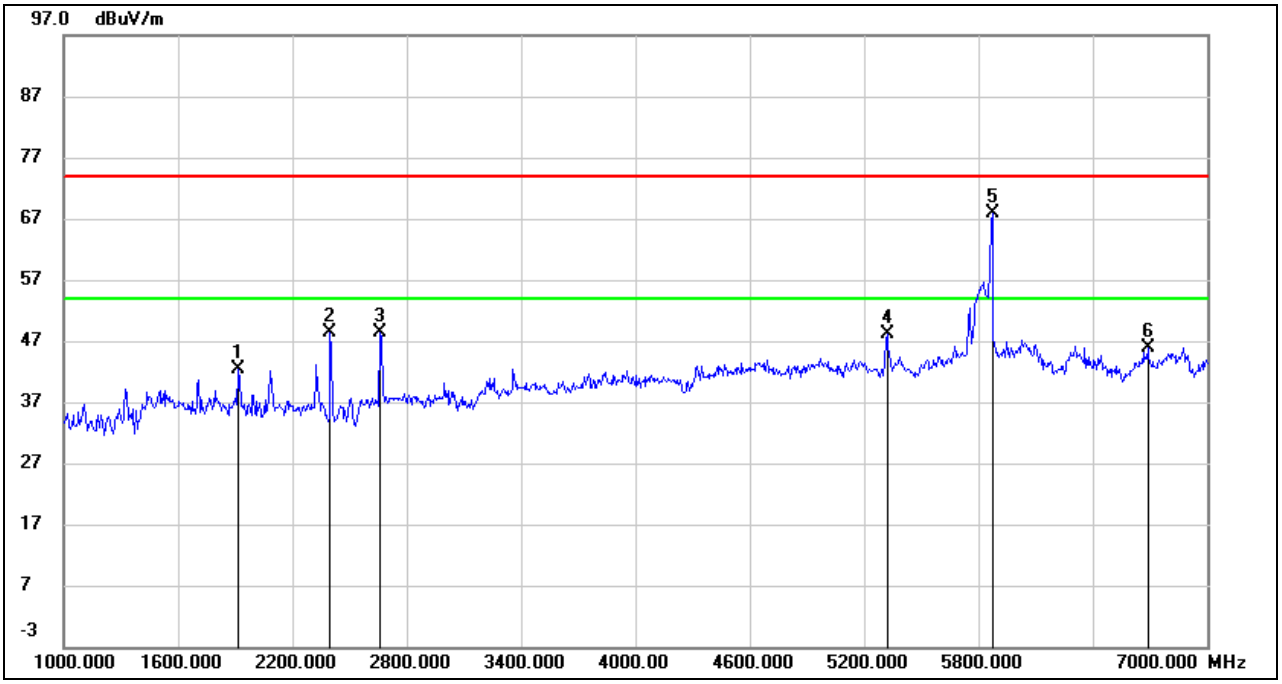
Test Mode:	Low Power Wide band Radio in 5GHz (5.8G) + BT DH5 2402MHz		
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1918.000	51.71	-9.28	42.43	74.00	-31.57	peak
2	2402.000	56.17	-7.77	48.40	/	/	fundamental
3	2662.000	55.04	-6.54	48.50	74.00	-25.50	peak
4	5320.000	44.28	3.76	48.04	74.00	-25.96	peak
5	5862.000	62.02	5.96	67.98	/	/	fundamental
6	6688.000	38.68	7.15	45.83	74.00	-28.17	peak

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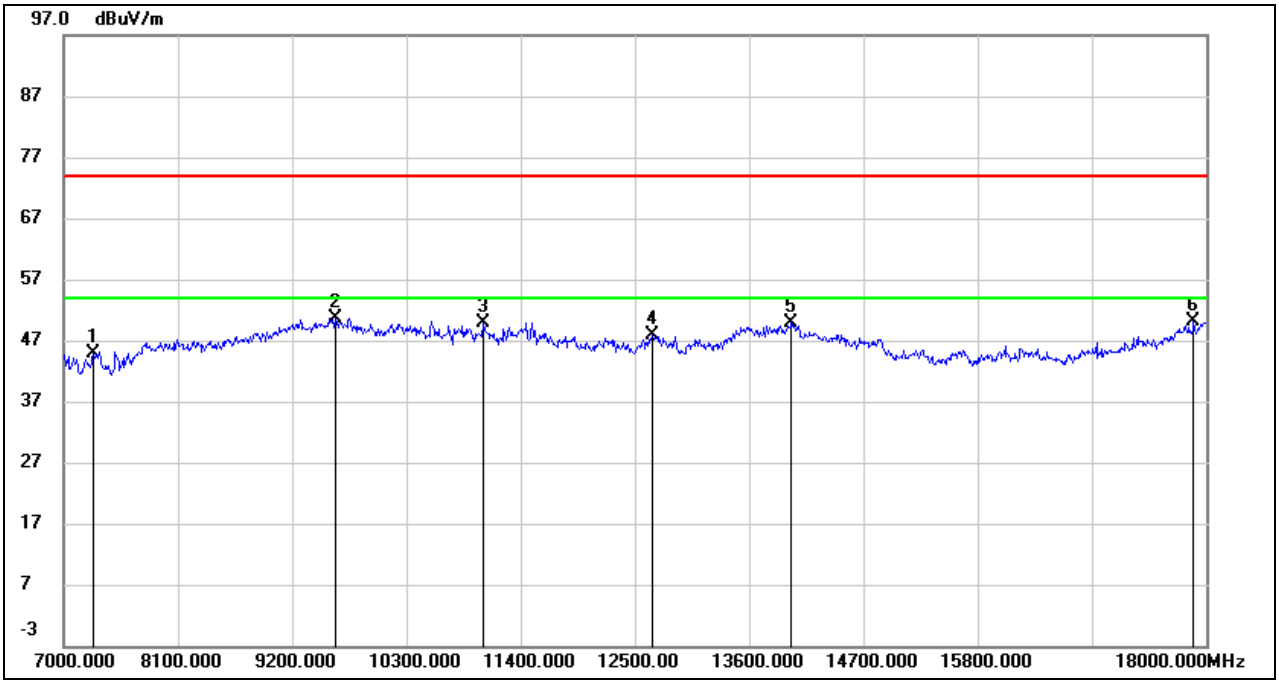
7.7.2. SPURIOUS EMISSIONS(7 GHz~18 GHz)

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G) + BT DH5 2402MHz		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7286.000	37.22	7.62	44.84	74.00	-29.16	peak
2	9618.000	37.22	13.49	50.71	74.00	-23.29	peak
3	11037.000	34.55	15.27	49.82	74.00	-24.18	peak
4	12665.000	28.51	19.42	47.93	74.00	-26.07	peak
5	14007.000	26.41	23.59	50.00	74.00	-24.00	peak
6	17879.000	21.72	28.32	50.04	74.00	-23.96	peak

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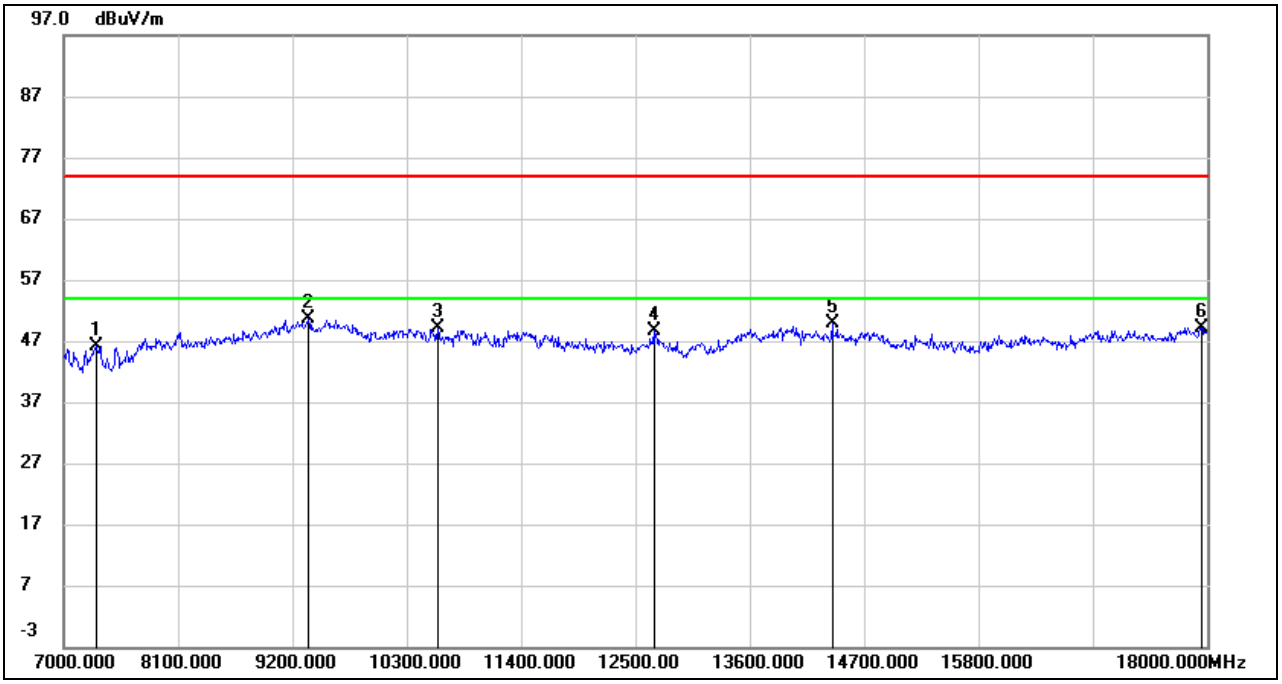
Test Mode:	Low Power Wide band Radio in 5GHz (5.8G) + BT DH5 2402MHz		
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7319.000	37.86	8.30	46.16	74.00	-27.84	peak
2	9354.000	38.46	12.17	50.63	74.00	-23.37	peak
3	10597.000	35.72	13.51	49.23	74.00	-24.77	peak
4	12676.000	30.24	18.47	48.71	74.00	-25.29	peak
5	14392.000	28.92	21.03	49.95	74.00	-24.05	peak
6	17945.000	22.07	27.07	49.14	74.00	-24.86	peak

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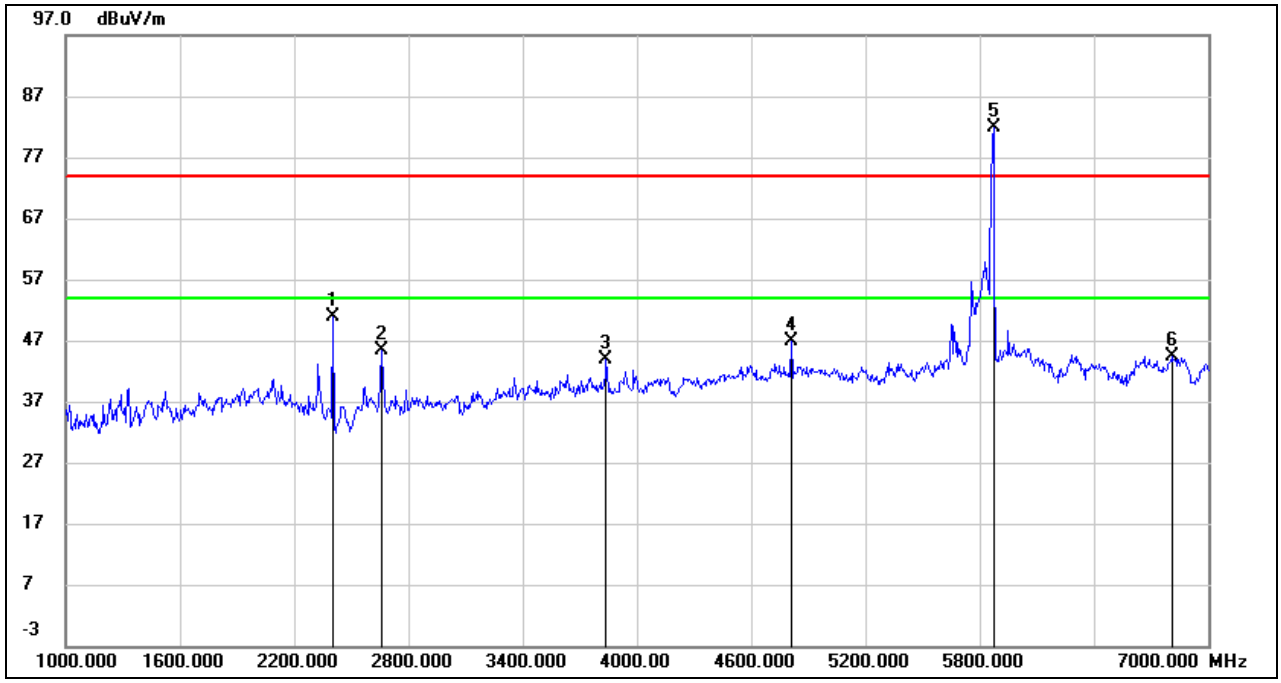
7.8. WORST-CASE TEST RESULTS CONDITION 8

7.8.1. SPURIOUS EMISSIONS(1 GHz~7 GHz)

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G) + ZigBee 2405MHz		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2405.000	59.51	-8.58	50.93	/	/	fundamental
2	2656.000	52.95	-7.52	45.43	74.00	-28.57	peak
3	3838.000	46.61	-2.73	43.88	74.00	-30.12	peak
4	4810.000	46.01	0.92	46.93	74.00	-27.07	peak
5	5862.000	76.89	4.91	81.80	/	/	fundamental
6	6808.000	37.87	6.60	44.47	74.00	-29.53	peak

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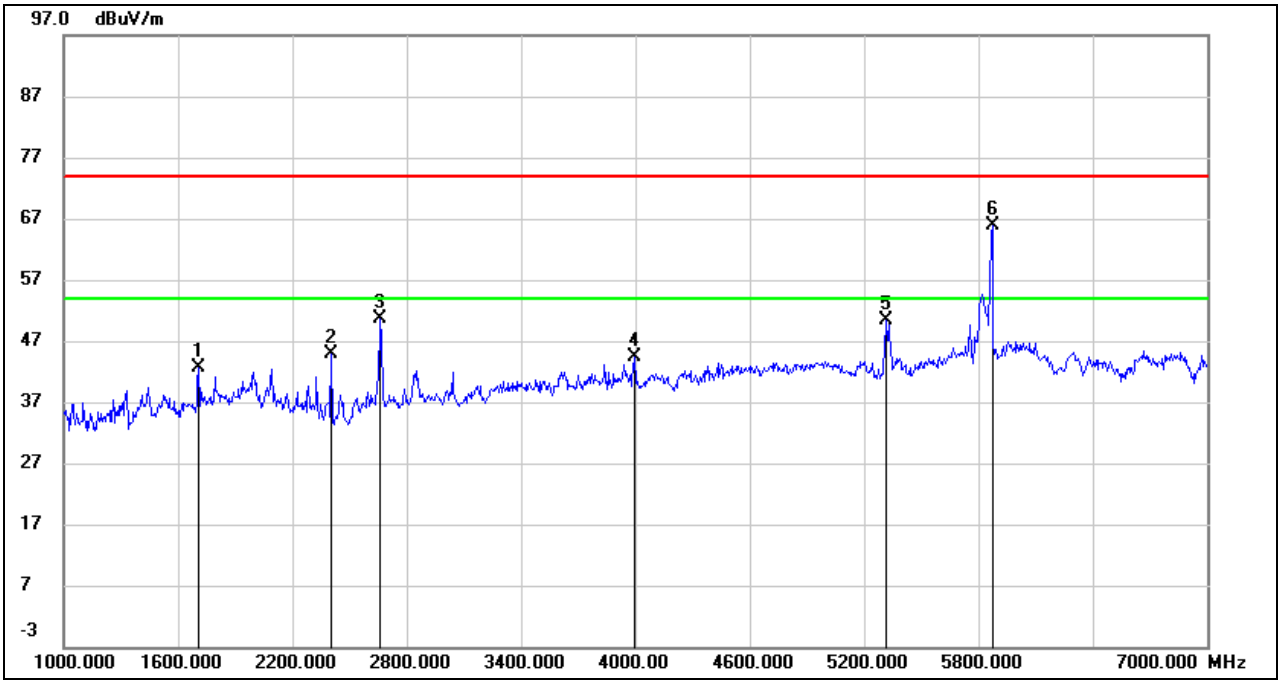
Test Mode:	Low Power Wide band Radio in 5GHz (5.8G) + ZigBee 2405MHz		
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1708.000	52.88	-10.18	42.70	74.00	-31.30	peak
2	2405.000	52.59	-7.76	44.83	/	/	fundamental
3	2662.000	57.26	-6.54	50.72	74.00	-23.28	peak
4	3994.000	45.72	-1.31	44.41	74.00	-29.59	peak
5	5314.000	46.52	3.74	50.26	74.00	-23.74	peak
6	5862.000	59.93	5.96	65.89	/	/	fundamental

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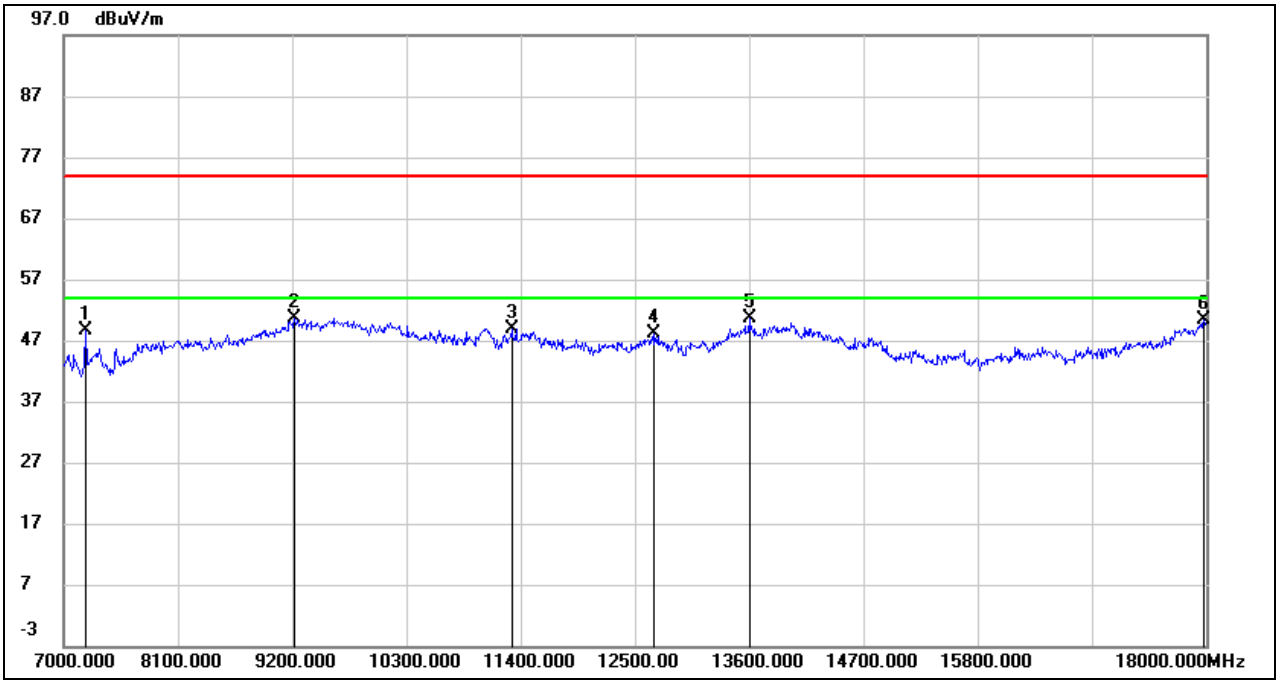
7.8.2. SPURIOUS EMISSIONS(7 GHz~18 GHz)

Test Mode:	Low Power Wide band Radio in 5GHz (5.8G) + ZigBee 2405MHz		
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7209.000	41.00	7.54	48.54	74.00	-25.46	peak
2	9222.000	38.87	11.64	50.51	74.00	-23.49	peak
3	11312.000	32.14	16.83	48.97	74.00	-25.03	peak
4	12687.000	28.57	19.52	48.09	74.00	-25.91	peak
5	13600.000	28.33	22.22	50.55	74.00	-23.45	peak
6	17978.000	20.88	29.38	50.26	74.00	-23.74	peak

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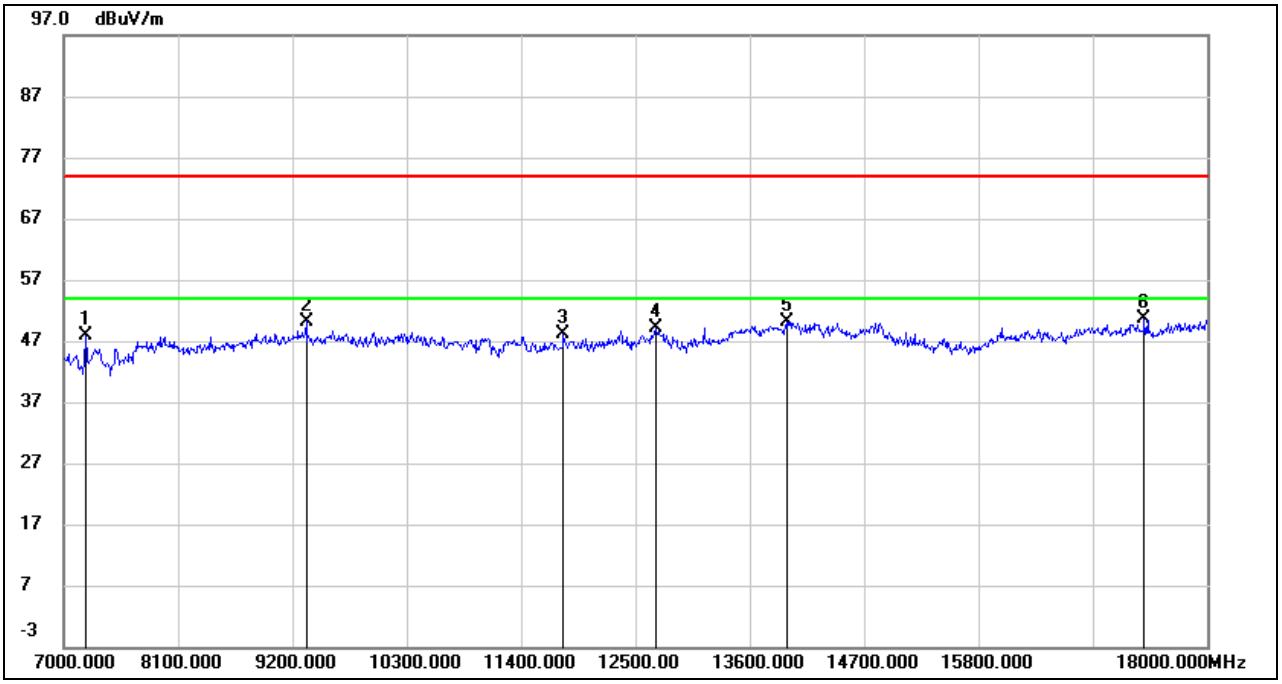
Test Mode:	Low Power Wide band Radio in 5GHz (5.8G) + ZigBee 2405MHz		
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7209.000	39.49	8.28	47.77	74.00	-26.23	peak
2	9332.000	38.12	12.13	50.25	74.00	-23.75	peak
3	11807.000	31.30	16.75	48.05	74.00	-25.95	peak
4	12698.000	30.70	18.54	49.24	74.00	-24.76	peak
5	13963.000	28.19	21.85	50.04	74.00	-23.96	peak
6	17395.000	25.55	25.06	50.61	74.00	-23.39	peak

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