

Prüfbericht-Nr.: <i>Test report no.:</i>	CN247171 002	Auftrags-Nr.: <i>Order no.:</i>	168492002	Seite 1 von 21 Page 1 of 21
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2024-07-01	
Auftraggeber: <i>Client:</i>	Harman International Industries, Incorporated 8500 Balboa Blvd, Northridge, California, 91329, United States			
Prüfgegenstand: <i>Test item:</i>	LEGEND 700 HEAD UNIT			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	JBLLEGEND700 (Trademark: JBL)			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247	RSS-247-Issue 3 August 2023		
	CFR47 FCC Part 15: Subpart C Section 15.209	RSS-Gen Issue 5 March 2019		
Wareneingangsdatum: <i>Date of sample receipt:</i>	2024-07-08	Refer to photos document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003797988 006			
Prüfzeitraum: <i>Testing period:</i>	2024-07-08 - 2024-07-19			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	<u>x </u>	genehmigt von: <i>authorized by:</i>	<u>x </u>	
Datum: <i>Date:</i>	2024-09-12 <small>Signed by: Harry W. C. Wu</small>	Ausstellungsdatum: <i>Issue date:</i>	2024-09-12 <small>Signed by: Alex Lan</small>	
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / <i>Other:</i>	FCC ID: APILEGEND700 IC: 6132A-LEGEND700	HVIN: JBLLEGEND700		
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

Prüfbericht-Nr.: CN24717I 002
Test report no.:

Seite 2 von 21
Page 2 of 21

Anmerkungen
Remarks

- | | |
|---|--|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.
Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
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| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.
Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.
Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

Contents

1	GENERAL REMARKS	4
1.1	COMPLEMENTARY MATERIALS.....	4
2	TEST SITES.....	5
2.1	TEST FACILITIES	5
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	5
2.3	TRACEABILITY	6
2.4	CALIBRATION.....	6
2.5	MEASUREMENT UNCERTAINTY.....	6
2.6	LOCATION OF ORIGINAL DATA.....	6
2.7	STATUS OF FACILITY USED FOR TESTING	7
3	GENERAL PRODUCT INFORMATION	8
3.1	PRODUCT FUNCTION AND INTENDED USE	8
3.2	RATINGS AND SYSTEM DETAILS.....	8
3.3	INDEPENDENT OPERATION MODES.....	10
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS	10
3.5	SUBMITTED DOCUMENTS.....	10
4	TEST SET-UP AND OPERATION MODES.....	11
4.1	PRINCIPLE OF CONFIGURATION SELECTION	11
4.2	TEST OPERATION AND TEST SOFTWARE	11
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	11
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	11
4.5	TEST SETUP DIAGRAM	12
5	TEST RESULTS	14
5.1	TRANSMITTER REQUIREMENT & TEST SUITES.....	14
5.1.1	<i>Antenna Requirement.....</i>	<i>14</i>
5.1.2	<i>Maximum Conducted Output Power.....</i>	<i>15</i>
5.1.3	<i>Conducted Power Spectral Density.....</i>	<i>17</i>
5.1.4	<i>6dB Bandwidth</i>	<i>18</i>
5.1.5	<i>99% Bandwidth.....</i>	<i>19</i>
5.1.6	<i>Conducted Spurious Emissions Measured in 100 kHz Bandwidth.....</i>	<i>20</i>
5.1.7	<i>Radiated Spurious Emission</i>	<i>21</i>
5.1.8	<i>Conducted Emission on AC Mains.....</i>	<i>22</i>
6	PHOTOGRAPHS OF THE TEST SET-UP	23
7	LIST OF TABLES.....	23

1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of Bluetooth BLE;

Appendix B: Test Results of 2.4GHz Wi-Fi;

Appendix C: Photographs of Test Set-up.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China.

FCC Registration No.: 694916

ISED Wireless Device Testing Laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing				
Equipment	Manufacturer	Model	Serial No.	Cal. until
Wireless Connectivity Tester	R&S	CMW270	101375	25.07.2024
Signal Analyzer	R&S	FSV 40	101441	25.07.2024
Vector Signal Generator	R&S	SMBV100A	263301	25.07.2024
Signal Generator	R&S	SMB100A	115186	25.07.2024
OSP	R&S	OSP 150	101017	13.11.2024
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A
Power Meter	R&S	NRP2	107105	13.11.2024
Power Sensor	R&S	NRP-Z81	105677	25.07.2024
Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	28.02.2025
Shielding Room 8#	Albatross	SR8	APC17151-SR8	21.06.2025
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	25.07.2024
Signal Analyzer	R&S	FSV 40	101439	25.07.2024
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	25.07.2024
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	25.07.2024
Amplifier	R&S	SCU-18F	180070	25.07.2024
Amplifier	R&S	SCU40A	100475	25.07.2024
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	06.08.2024
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	06.08.2024
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	27.08.2024
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	06.08.2024

Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The product is LEGEND 700 HEAD UNIT, which supports Bluetooth, 2.4GHz Wi-Fi, 5GHz Wi-Fi, GPS, AM and FM technologies.

This report is for Bluetooth BLE & 2.4GHz Wi-Fi operation only.
 For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	LEGEND 700 HEAD UNIT
Type Designation:	JBLLEGEND700
Trademark:	JBL
FCC ID:	APILEGEND700
IC:	6132A-LEGEND700
HVIN:	JBLLEGEND700
Operating Voltage:	12Vdc, 9A
Operating Temperature Range:	0 °C ~ +70 °C
Technical Specification of Bluetooth BLE	
Operating Frequency	2402-2480MHz
Type of Modulation	GFSK
Data Rate	1Mbps
Channel Number	40 channels for Bluetooth BLE
Channel Separation	1MHz
Antenna Type	FPC Antenna
Antenna Number	1Tx1Rx
Antenna Gain	6.0 dBi (Provided by the Client)
The type of wideband data transmission equipment	Non-FHSS for Bluetooth BLE
Technical Specification of 2.4GHz Wi-Fi	
Operating Frequency	2412 - 2462MHz for 802.11b/g/n(HT20) 2422 - 2452MHz for 802.11n(HT40)
Type of Modulation	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n
Channel Number	11 channels for 802.11b/g/n(HT20) 7 channels for 802.11n(HT40)
Channel Separation	5 MHz
Antenna Type	FPC Antenna

Antenna Number	1Tx1Rx
Antenna Gain	6.0 dBi (Provided by the Client)
The type of wideband data transmission equipment	DTS

Table 4: RF Channel and Frequency of Bluetooth LE

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Table 5: RF Channel and Frequency of 2.4GHz Wi-Fi 802.11 b/g/n

RF Channel	802.11 b/g/n(HT20)	802.11 n(HT40)
	Frequency (MHz)	Frequency (MHz)
01	2412	
02	2417	
03	2422	2422
04	2427	2427
05	2432	2432
06	2437	2437
07	2442	2442
08	2447	2447
09	2452	2452
10	2457	
11	2462	

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth BLE wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, 2.4GHz Wi-Fi wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- C. On, Normal Operation
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- ID Label and Location Info
- Schematics
- Operation Description
- Block Diagram
- PCB Layout

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model JBLLEGEND700 in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 6: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

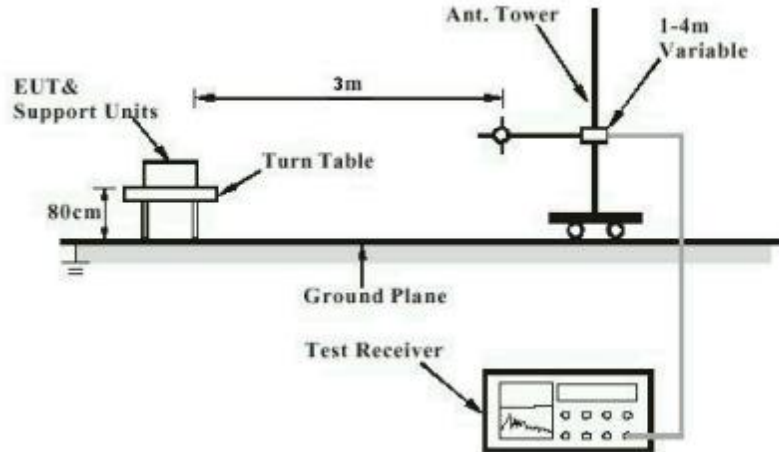


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

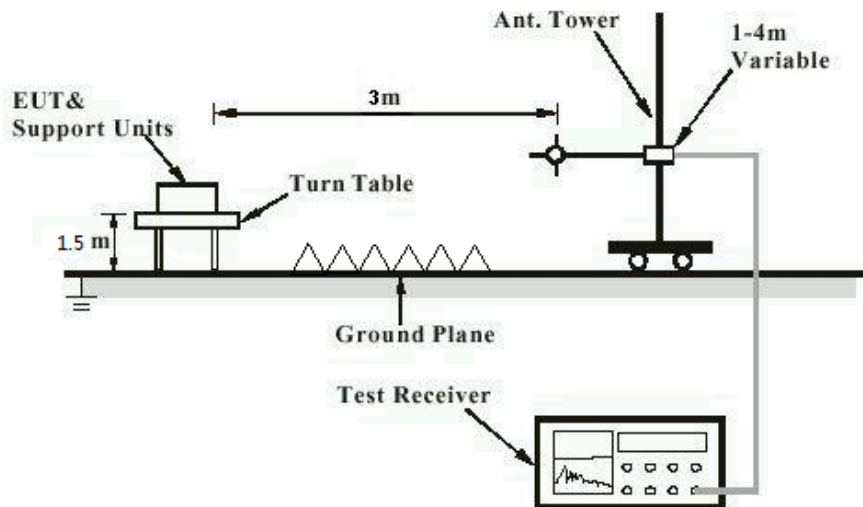
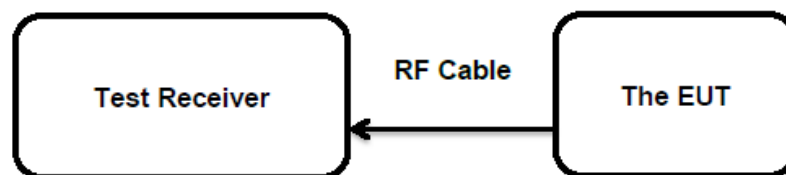


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 6.8

According to the manufacturer declared, the EUT has a FPC antenna, the directional gain of antenna is 6.0dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Maximum Conducted Output Power

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(b)(3) RSS-247 Clause 5.4(d)
Basic standard	: ANSI C63.10: 2013
Limits	: 1.0 Watts
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-07-08 to 2024-07-19
Input voltage	: DC 12V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24.5 °C
Relative humidity	: 51.2 %
Atmospheric pressure	: 101 kPa

For details refer to following test result.

Table 7: Test Result of Maximum Conducted Output Power, Bluetooth LE

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
GFSK (BLE)	1 Mbps	2402	9.3	0.0085	< 1.0
		2440	10.1	0.0102	
		2480	10.0	0.0100	
Max. e.i.r.p.=10.1dBm+6.0dBi=16.1dBm, which is less than 36dBm=4W.					

Table 8: Test Result of Maximum Conducted Output Power, Wi-Fi 802.11 b/g/n

Test Mode	Data Rate	Test Channel (MHz)	Measured Average Power		Limit (W)
			(dBm)	(W)	
802.11b	1 Mbps	2412	15.08	0.0322	< 1.0
		2437	14.62	0.0290	
		2462	13.41	0.0219	
802.11g	6 Mbps	2412	19.10	0.0813	
		2437	19.28	0.0847	
		2462	18.24	0.0667	
802.11n (HT20)	MCS0	2412	19.20	0.0832	
		2437	18.39	0.0690	
		2462	17.96	0.0625	
802.11n (HT40)	MCS0	2422	16.97	0.0498	
		2437	16.22	0.0419	
		2452	16.80	0.0479	
Max. e.i.r.p.= 19.28dBm+6.0dBi=25.28dBm, which is less than 36dBm=4W.					

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G) : 6.0dBi
 e.i.r.p.=P_(Conducted power)+ G, which is far below the 4 W

5.1.3 Conducted Power Spectral Density

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.247(e)
RSS-247 Clause 5.2(b)
Basic standard : ANSI C63.10: 2013
Limits : < 8 dBm / 3kHz
Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-07-08 to 2024-07-19
Input voltage : DC 12V
Operation mode : A, B
Test channel : Low / Middle / High
Ambient temperature : 24.5 °C
Relative humidity : 51.2 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A, B.

5.1.4 6dB Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(a)(2) RSS-247 Clause 5.2(a)
Basic standard	: ANSI C63.10: 2013
Limits	: > 500 KHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-07-08 to 2024-07-19
Input voltage	: DC 12V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24.5 °C
Relative humidity	: 51.2 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, B.

Prüfbericht - Nr.: CN247171 002
Test Report No.:Seite 18 von 21
Page 18 of 21

5.1.5 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard : RSS-Gen Clause 6.7
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-07-08 to 2024-07-19
Input voltage : DC 12V
Operation mode : A, B
Test channel : Low / Middle / High
Ambient temperature : 24.5 °C
Relative humidity : 51.2 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A, B.

Prüfbericht - Nr.: CN247171 002
Test Report No.:Seite 19 von 21
Page 19 of 21

5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d) RSS-247 Clause 5.5
Basic standard	: ANSI C63.10: 2013
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-07-08 to 2024-07-19
Input voltage	: DC 12V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24.5 °C
Relative humidity	: 51.2 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix A, B.

5.1.7 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Section 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2024-07-08 to 2024-07-19
Input voltage	: DC 12V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A, B.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix C.

7 List of Tables

Table 1: List of Test and Measurement Equipment.....	6
Table 2: Measurement Uncertainty	7
Table 3: Technical Specification of EUT.....	8
Table 4: RF Channel and Frequency of Bluetooth LE.....	9
Table 5: RF Channel and Frequency of 2.4GHz Wi-Fi 802.11 b/g/n.....	9
Table 6: Auxiliary Equipment Used during Test	11
Table 7: Test Result of Maximum Conducted Output Power, Bluetooth LE.....	15
Table 8: Test Result of Maximum Conducted Output Power, Wi-Fi 802.11 b/g/n.....	15

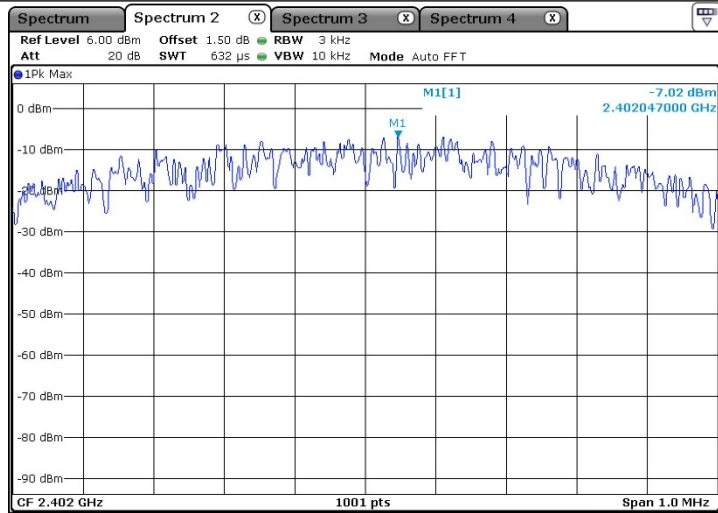
Appendix A: Test Results of Bluetooth LE & Conducted Emission

APPENDIX A: TEST RESULTS OF BLUETOOTH LE & CONDUCTED EMISSION.....	1
APPENDIX A.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY.....	2
APPENDIX A.2: TEST RESULTS OF 6DB BANDWIDTH	4
APPENDIX A.3: TEST RESULTS OF 99% BANDWIDTH	6
APPENDIX A.4: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH	9
<i>Conducted measurements</i>	9
<i>Band edge measurements</i>	12
APPENDIX A.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	13
30 MHz to 1GHz	13
1GHz-18GHz	15
APPENDIX A.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	27

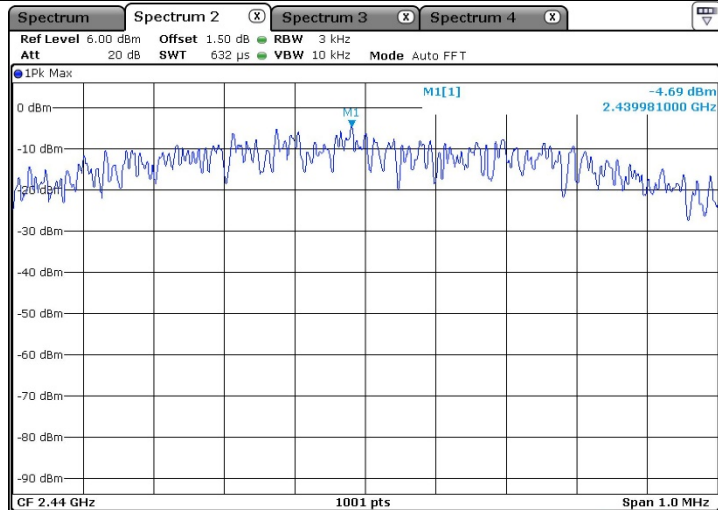
Appendix A1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.02	≤8.00	PASS
		2440	-4.69	≤8.00	PASS
		2480	-4.75	≤8.00	PASS

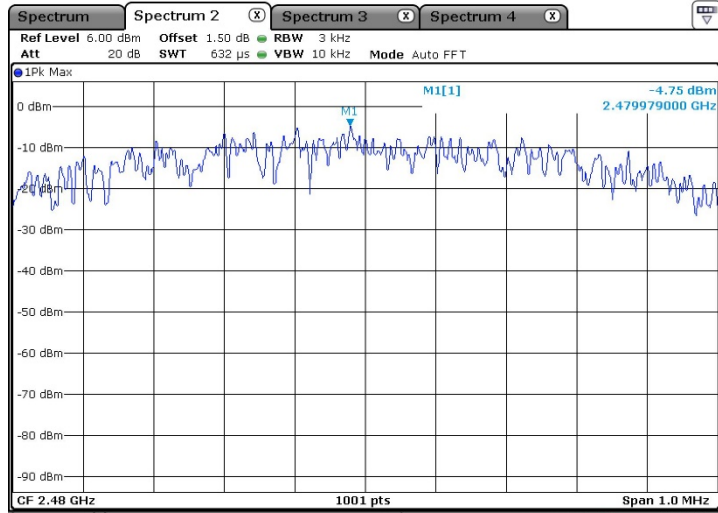
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE 1M Ant1 2480

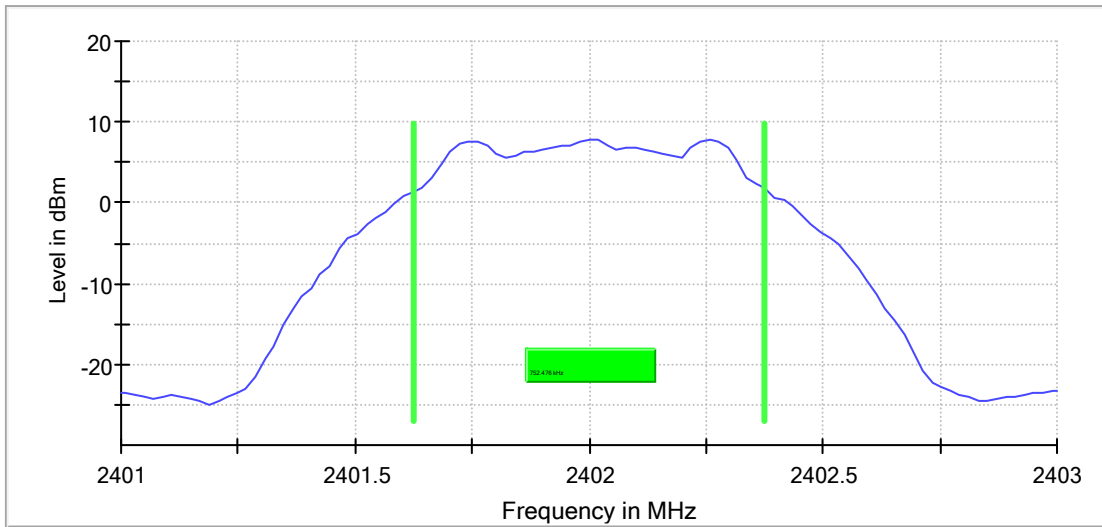


Appendix A.2: Test Results of 6dB Bandwidth

Test Mode	Channel Frequency (MHz)	Measured 6dB Bandwidth (MHz)	Limit
		(MHz)	
BLE 1Mbps	2402	0.752	>500kHz
	2440	0.772	
	2480	0.752	

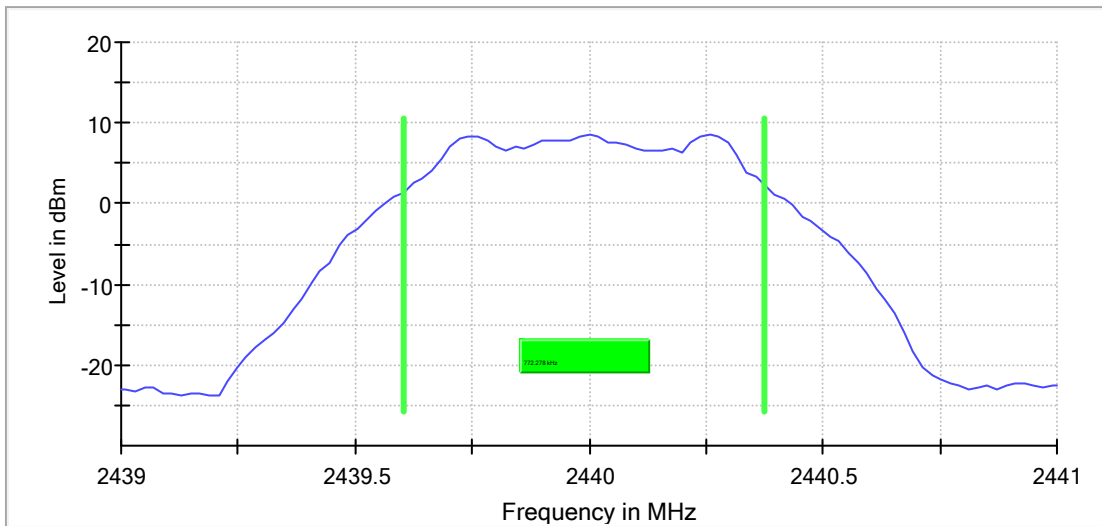
BLE_1M_Ant1_2402

6 dB Bandwidth



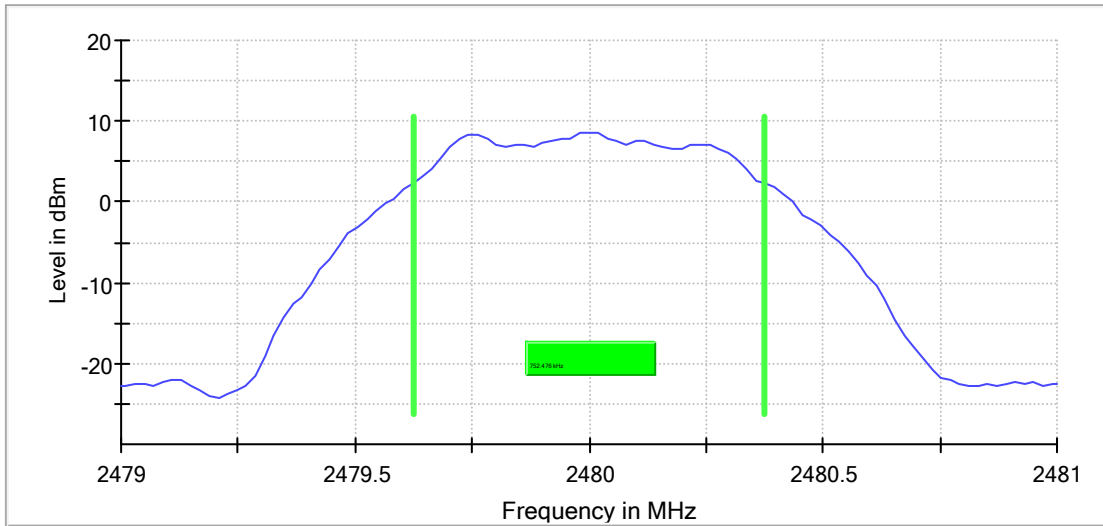
BLE_1M_Ant1_2440

6 dB Bandwidth



BLE_1M_Ant1_2480

6 dB Bandwidth



Measurement

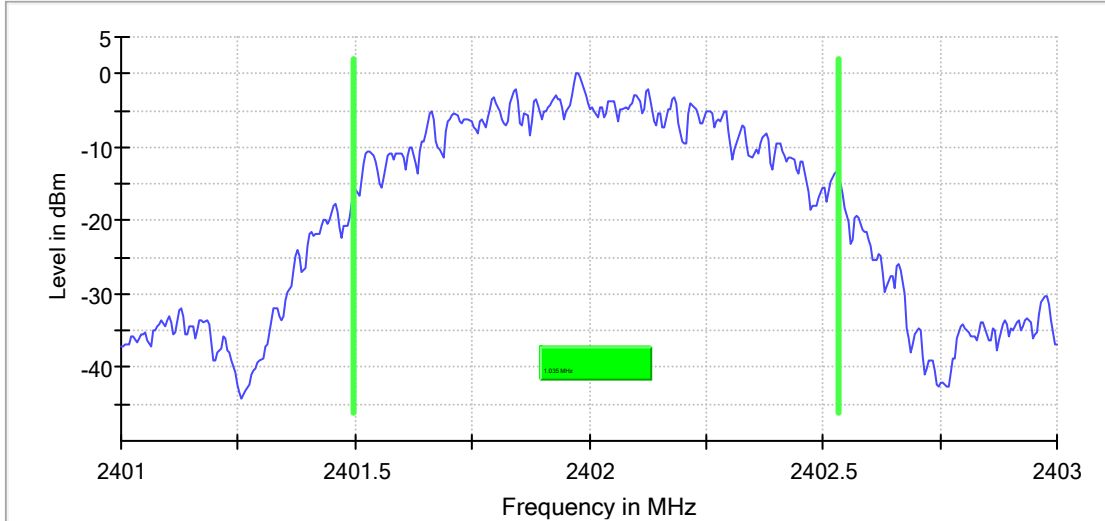
Setting	Instrument Value
Span	2.000 MHz
RBW	100.000 kHz
VBW	300.000 kHz
SweepPoints	101
Sweeptime	18.938 μ s
Reference Level	0.000 dBm
Attenuation	20.000 dB
Detector	MaxPeak
SweepCount	100
Filter	3 dB
Trace Mode	Max Hold

Appendix A.3: Test Results of 99% Bandwidth

Test Mode	Channel Frequency (MHz)	Measured 99% Bandwidth	Limit
		(MHz)	
BLE 1Mbps	2402	1.020	/
	2440	1.015	
	2480	1.015	

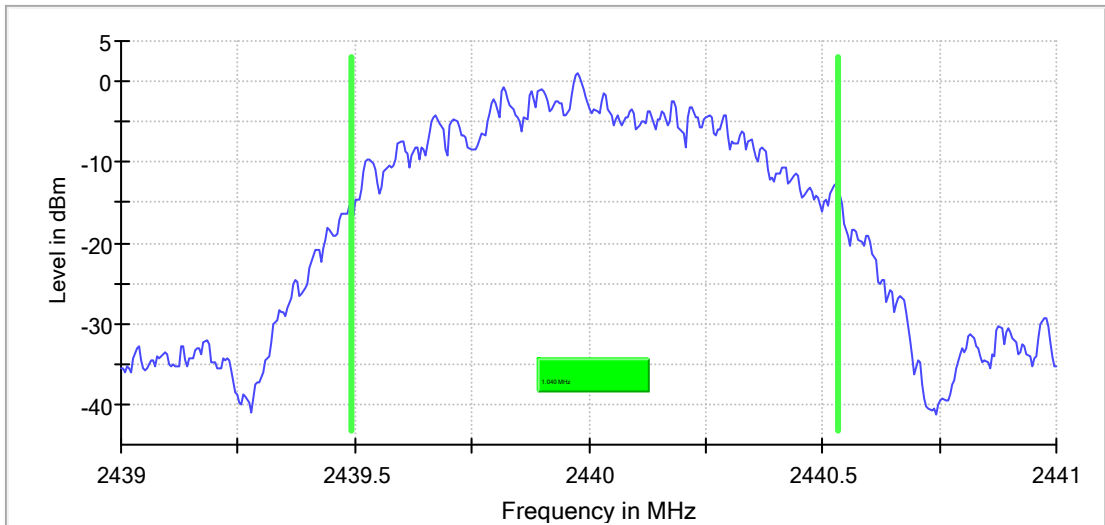
BLE_1M_Ant1_2402

99 % Bandwidth



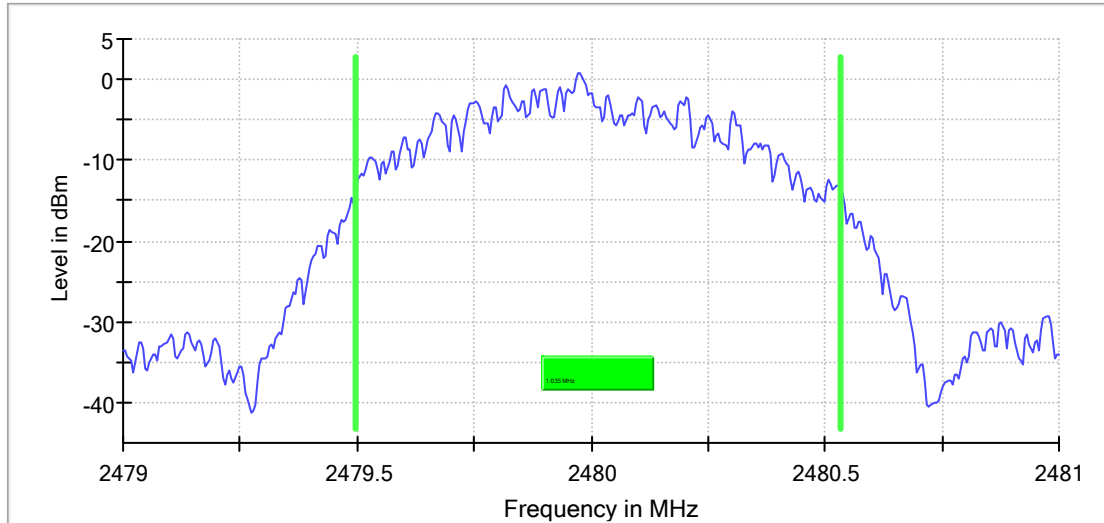
BLE_1M_Ant1_2440

99 % Bandwidth



BLE_1M_Ant1_2480

99 % Bandwidth



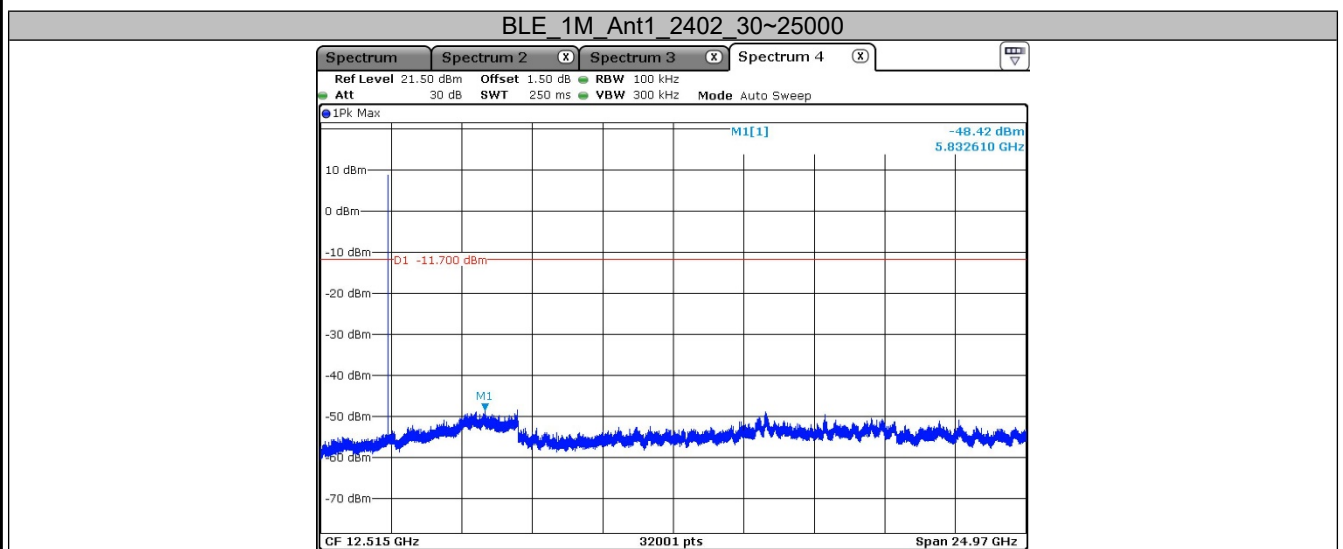
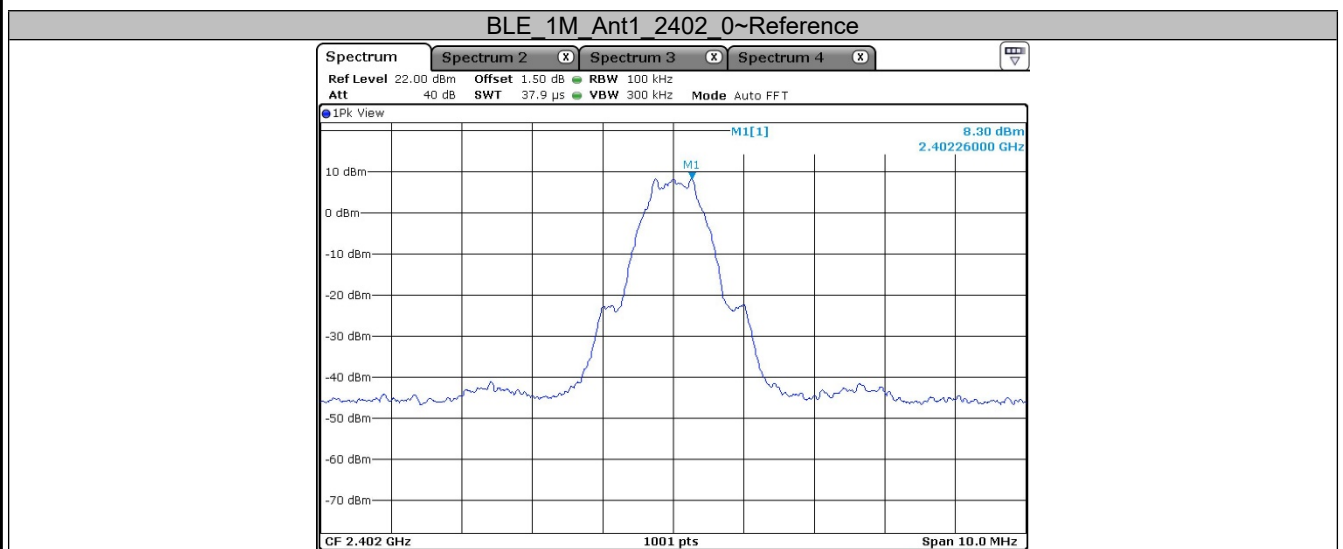
Measurement

Setting	Instrument Value
Span	2.000 MHz
RBW	10.000 kHz
VBW	30.000 kHz
SweepPoints	400
Sweeptime	189.648 μ s
Reference Level	0.000 dBm
Attenuation	20.000 dB
Detector	MaxPeak
SweepCount	100
Filter	3 dB
Trace Mode	Max Hold

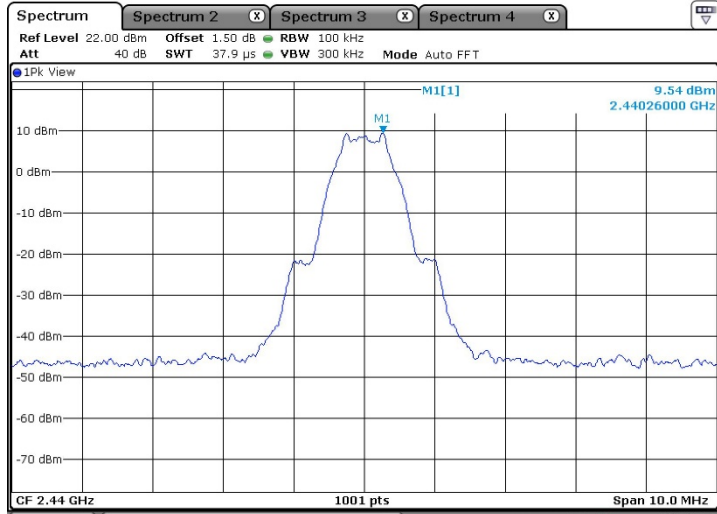
Appendix A.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted measurements

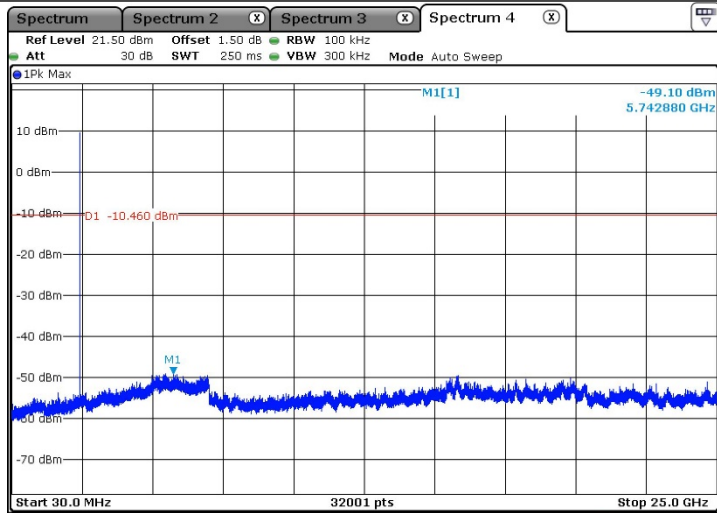
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	8.30	8.30	---	PASS
			30~25000	8.30	-48.42	≤-11.70	PASS
		2440	Reference	9.54	9.54	---	PASS
			30~25000	9.54	-49.10	≤-10.46	PASS
		2480	Reference	6.22	6.22	---	PASS
			30~25000	6.22	-48.55	≤-10.53	PASS



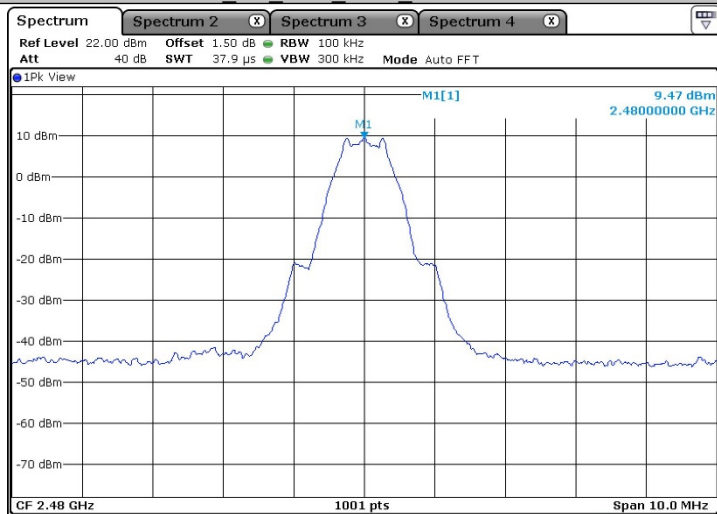
BLE_1M_Ant1_2440_0~Reference



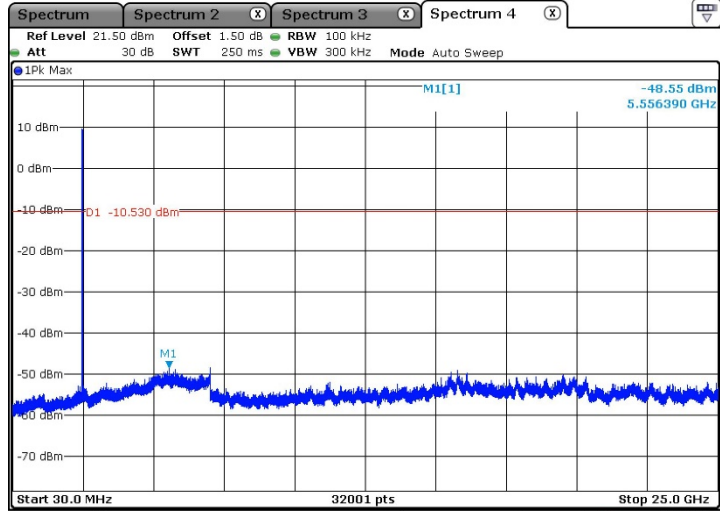
BLE_1M_Ant1_2440_30~25000



BLE_1M_Ant1_2480_0~Reference

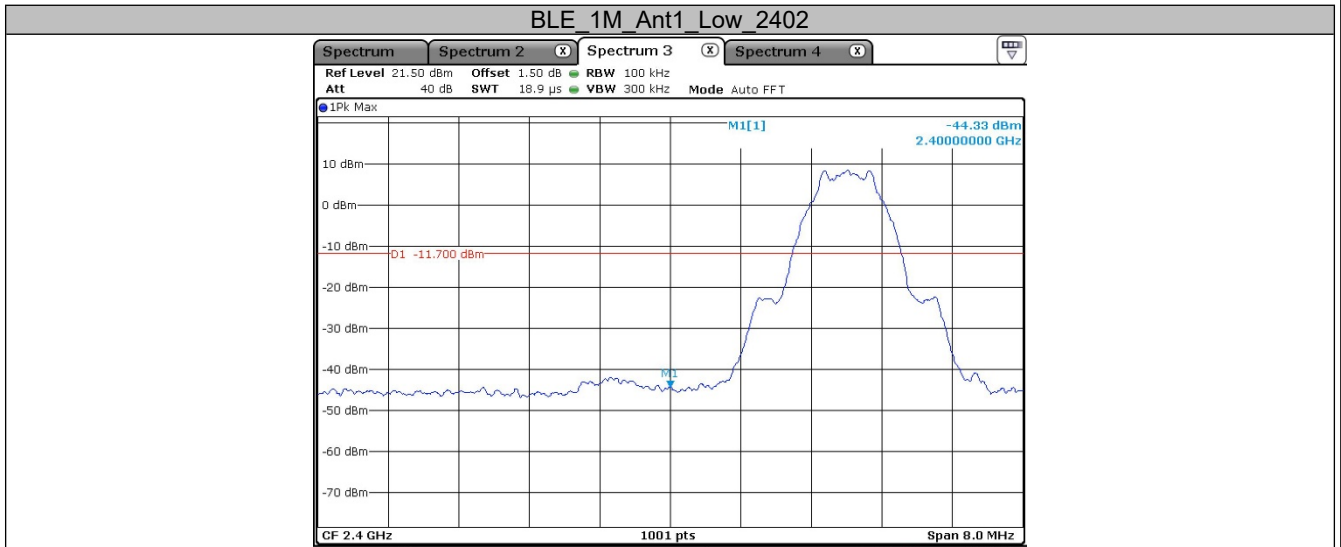


BLE_1M_Ant1_2480_30~25000



Band edge measurements

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.86	-44.33	≤-11.70	PASS
		High	2480	6.22	-45.65	≤-10.53	PASS



Appendix A.5: Test Results of Radiated Spurious Emissions

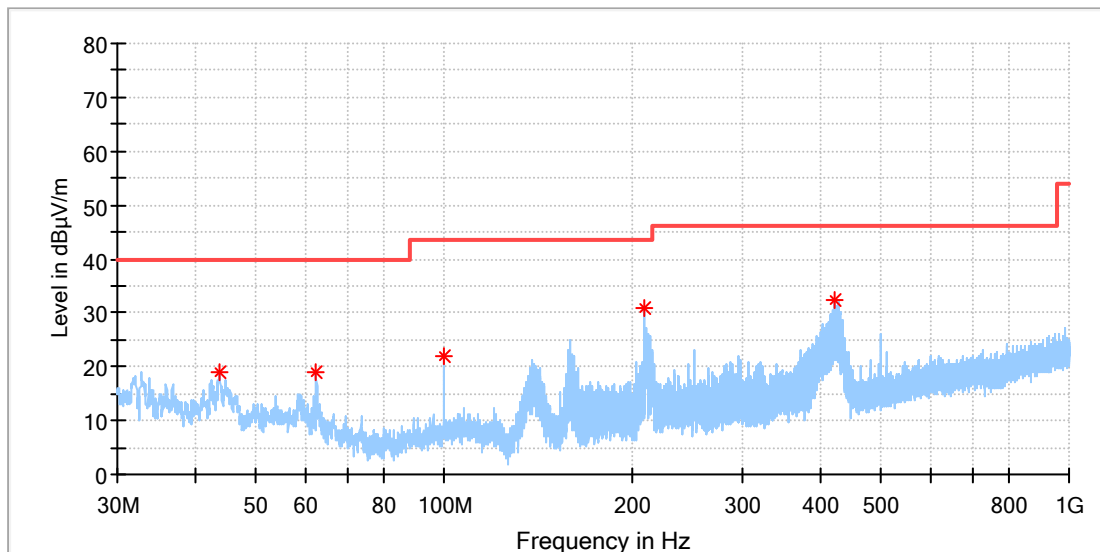
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz to 1GHz

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

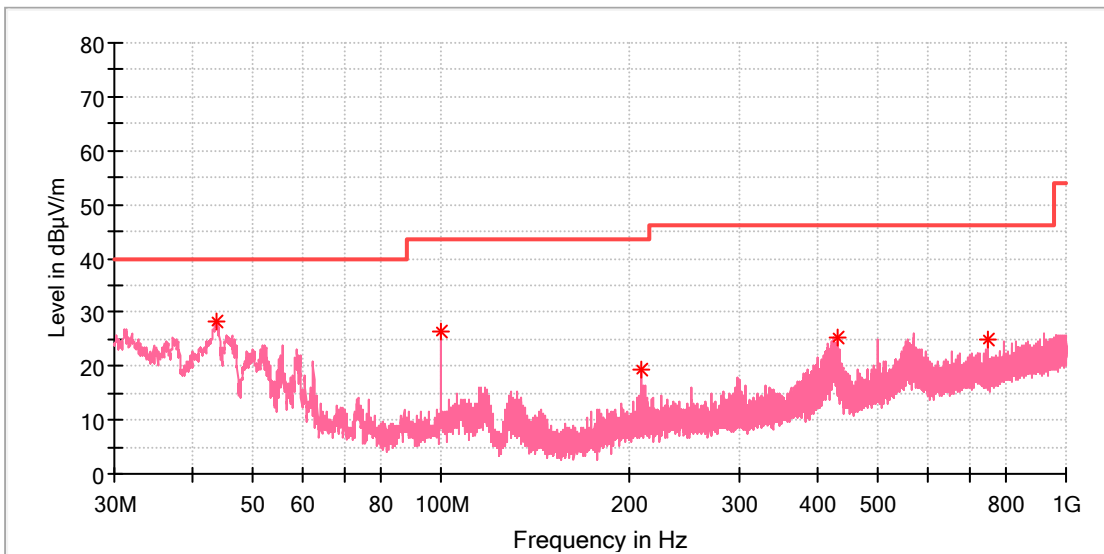


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.691923	19.00	40.00	21.00	100.0	H	296.0	-19.4
62.495000	18.80	40.00	21.20	100.0	H	335.0	-19.9
99.989231	21.84	43.50	21.66	100.0	H	89.0	-19.3
208.890385	30.82	43.50	12.68	100.0	H	270.0	-19.2
420.163846	32.45	46.00	13.55	100.0	H	351.0	-13.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin



Critical_Freqs

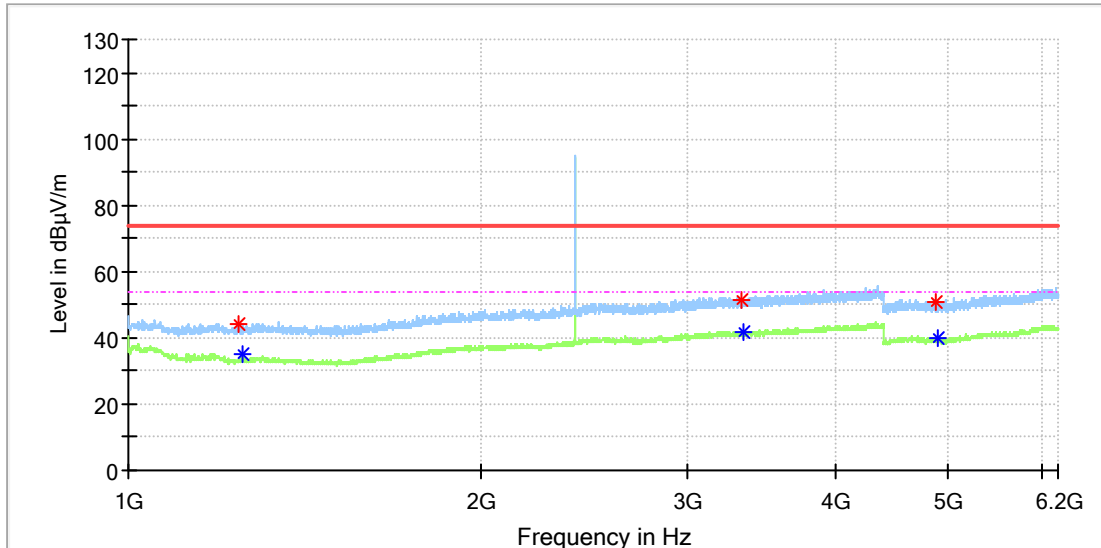
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.841154	28.22	40.00	11.78	100.0	V	140.0	-19.4
99.989231	26.53	43.50	16.97	100.0	V	63.0	-19.3
208.853077	19.41	43.50	24.09	100.0	V	311.0	-19.2
429.751923	25.21	46.00	20.79	100.0	V	131.0	-13.6
750.038462	24.96	46.00	21.04	100.0	V	357.0	-7.6

1GHz-18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

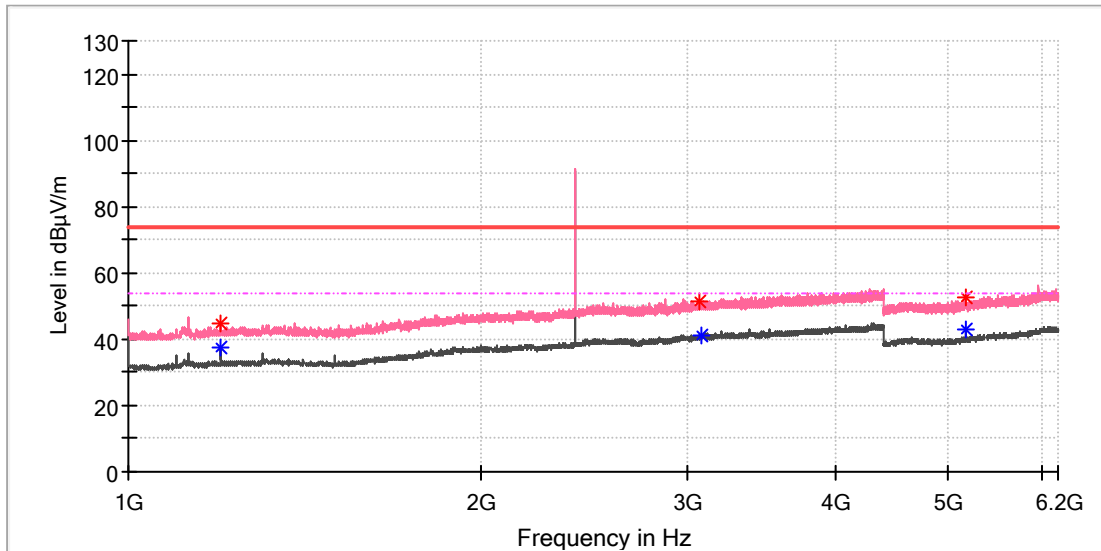


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1243.000000	43.95	---	74.00	30.05	150.0	H	89.0	1.8
1250.000000	---	35.02	54.00	18.98	150.0	H	32.0	1.9
3327.000000	51.64	---	74.00	22.36	150.0	H	55.0	8.6
3339.500000	---	41.95	54.00	12.05	150.0	H	213.0	8.6
4875.000000	50.99	---	74.00	23.01	150.0	H	72.0	11.8
4905.000000	---	39.88	54.00	14.12	150.0	H	11.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

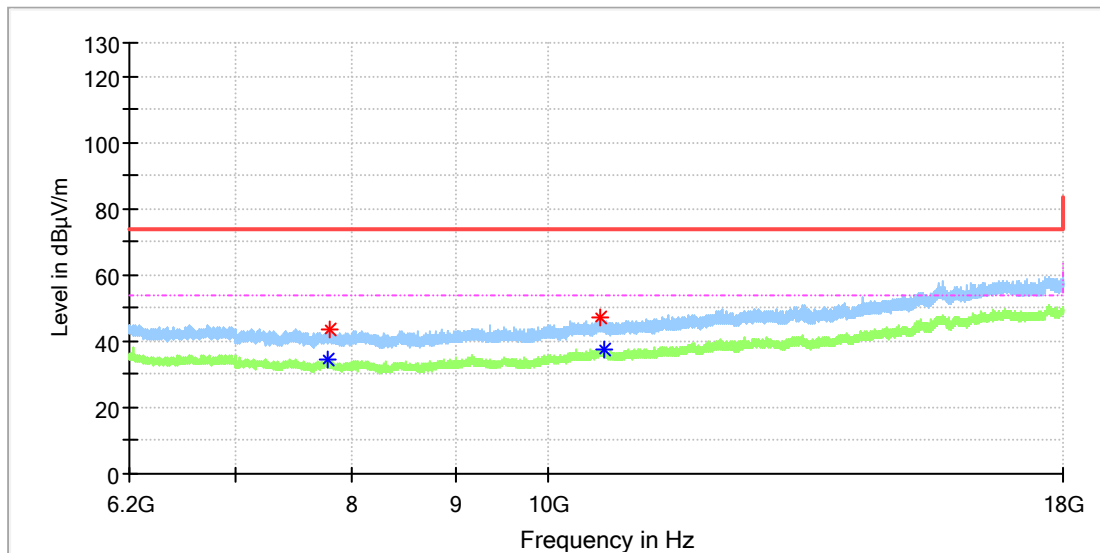


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.000000	44.83	---	74.00	29.17	150.0	V	359.0	1.1
1200.000000	---	37.78	54.00	16.22	150.0	V	359.0	1.1
3069.500000	51.66	---	74.00	22.34	150.0	V	247.0	8.6
3080.000000	---	41.28	54.00	12.73	150.0	V	195.0	8.6
5176.500000	52.40	---	74.00	21.60	150.0	V	177.0	12.5
5177.000000	---	42.81	54.00	11.19	150.0	V	256.0	12.5

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

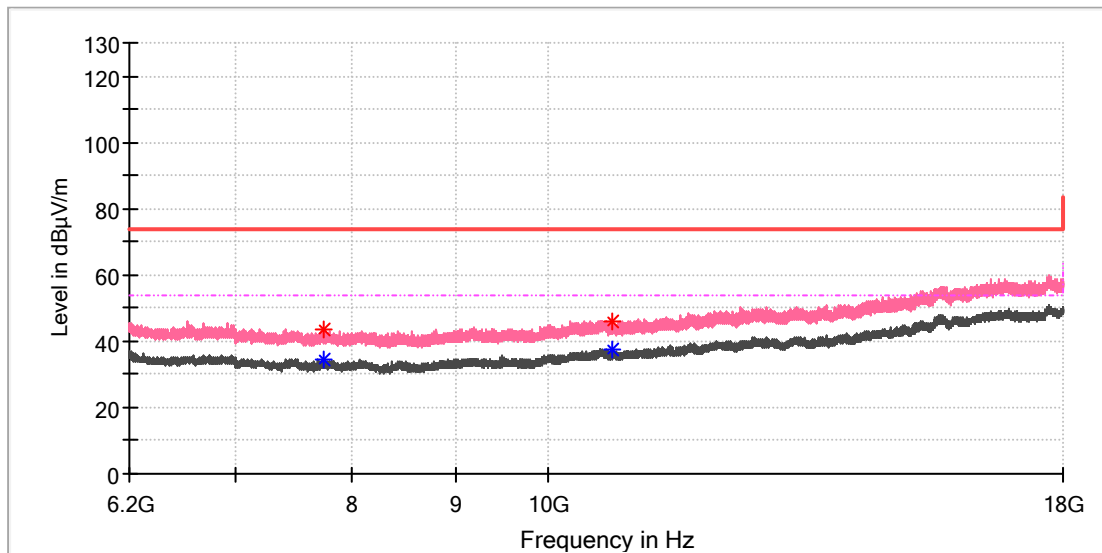


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7782.675000	---	34.23	54.00	19.77	150.0	H	307.0	8.9
7798.900000	43.54	---	74.00	30.46	150.0	H	0.0	8.9
10609.758333	47.26	---	74.00	26.74	150.0	H	317.0	12.0
10649.583333	---	37.50	54.00	16.50	150.0	H	286.0	12.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

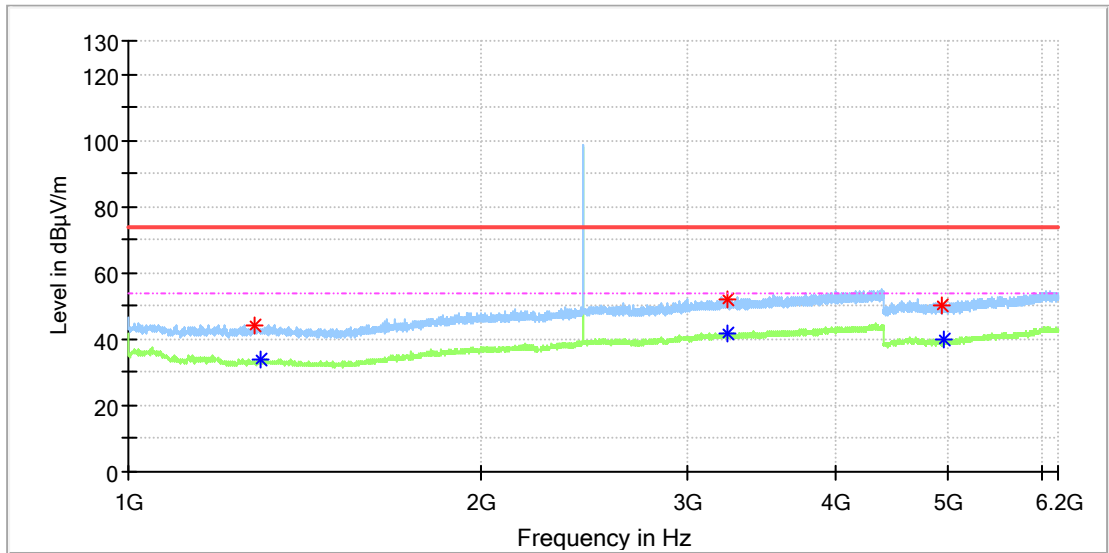


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7741.375000	43.52	---	74.00	30.48	150.0	V	106.0	8.8
7747.275000	---	34.23	54.00	19.77	150.0	V	249.0	8.8
10748.408333	46.20	---	74.00	27.80	150.0	V	272.0	12.0
10760.700000	---	37.26	54.00	16.74	150.0	V	180.0	12.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

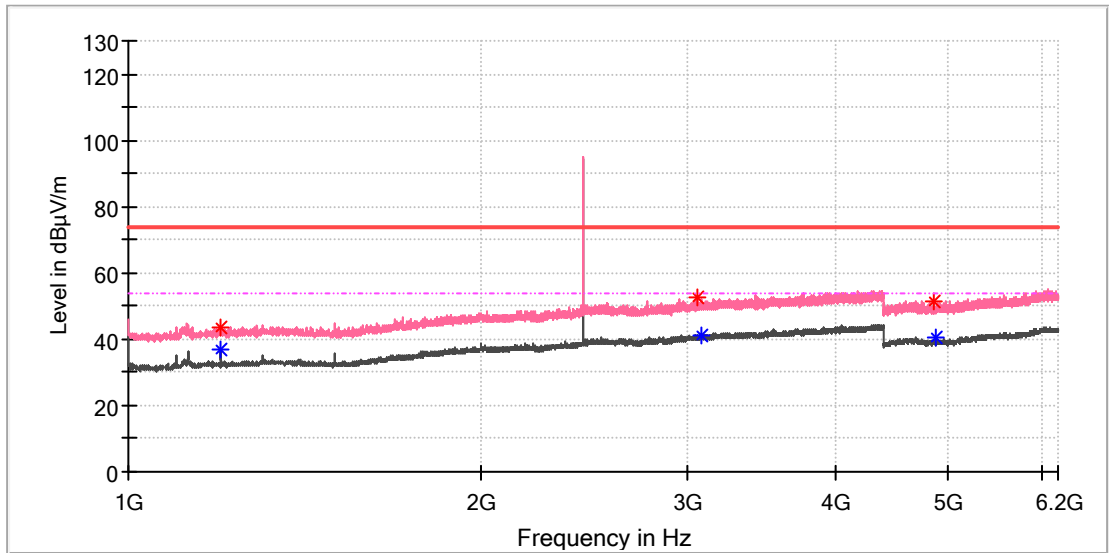


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1280.000000	44.26	---	74.00	29.74	150.0	H	359.0	1.9
1294.000000	---	34.11	54.00	19.89	150.0	H	220.0	1.9
3240.000000	52.00	---	74.00	22.00	150.0	H	101.0	8.5
3245.000000	---	41.97	54.00	12.03	150.0	H	270.0	8.5
4944.000000	50.48	---	74.00	23.52	150.0	H	24.0	11.8
4951.500000	---	39.61	54.00	14.39	150.0	H	60.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

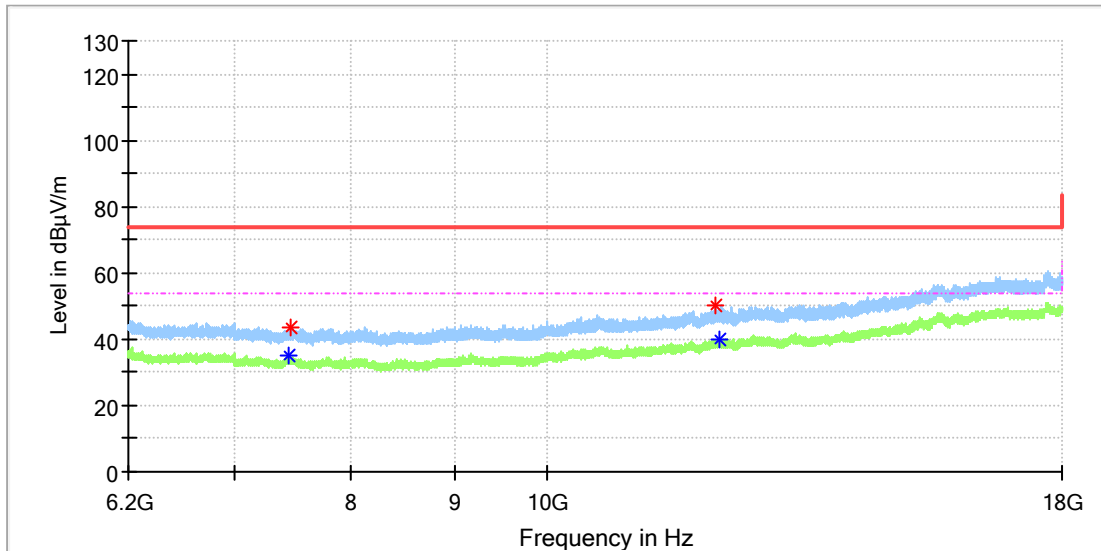


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.000000	43.58	---	74.00	30.42	150.0	V	313.0	1.1
1200.000000	---	36.59	54.00	17.41	150.0	V	313.0	1.1
3060.000000	52.37	---	74.00	21.63	150.0	V	113.0	8.6
3084.000000	---	41.33	54.00	12.67	150.0	V	324.0	8.6
4852.500000	51.53	---	74.00	22.47	150.0	V	272.0	11.8
4880.000000	---	40.22	54.00	13.78	150.0	V	161.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

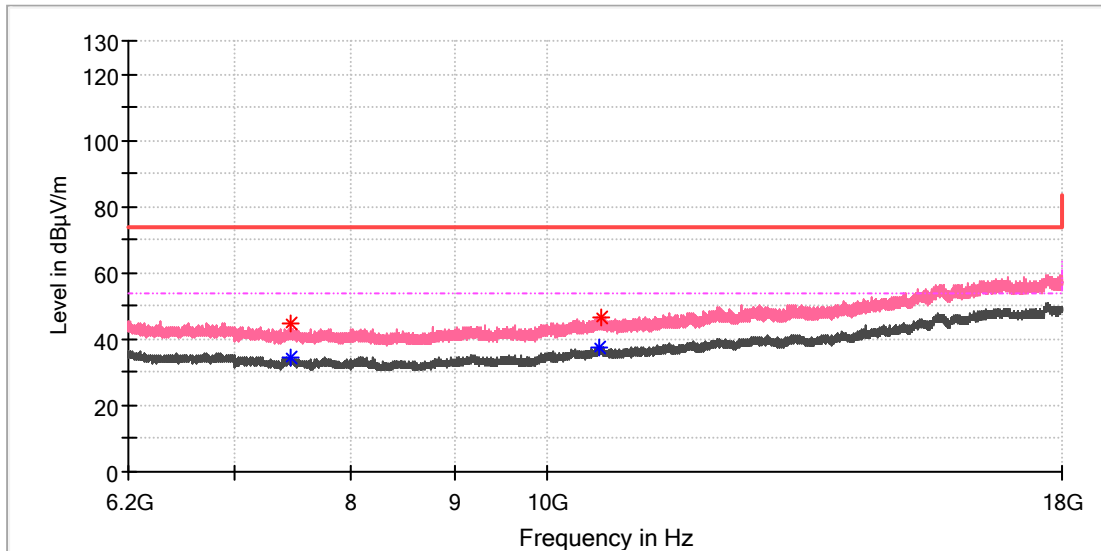


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7452.766667	---	35.21	54.00	18.79	150.0	H	192.0	8.5
7458.666667	43.69	---	74.00	30.31	150.0	H	61.0	8.5
12114.258333	50.34	---	74.00	23.66	150.0	H	61.0	14.2
12183.583333	---	39.84	54.00	14.16	150.0	H	8.0	14.6

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

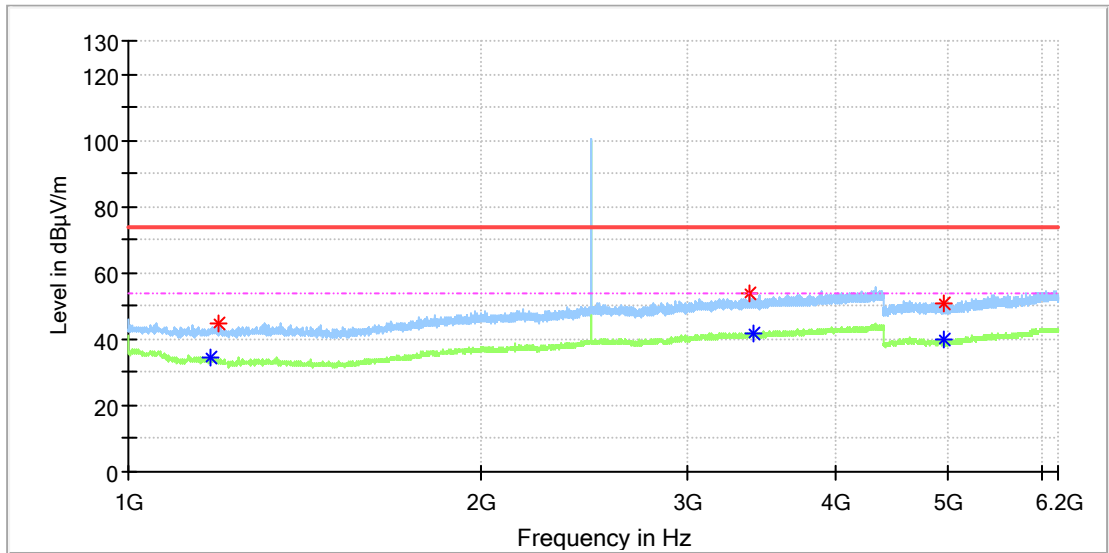


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7462.600000	44.58	---	74.00	29.42	150.0	V	0.0	8.6
7463.583333	---	34.59	54.00	19.41	150.0	V	159.0	8.6
10612.216667	---	37.60	54.00	16.40	150.0	V	111.0	12.0
10634.341667	46.55	---	74.00	27.45	150.0	V	17.0	12.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

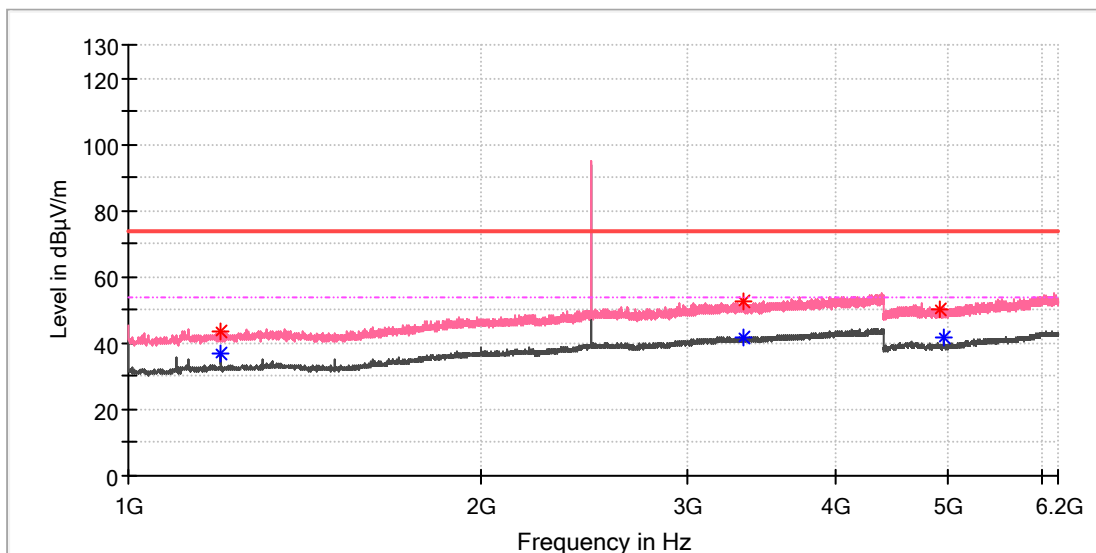


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1176.000000	---	34.64	54.00	19.36	150.0	H	301.0	1.0
1195.500000	44.59	---	74.00	29.41	150.0	H	97.0	1.1
3389.000000	53.98	---	74.00	20.02	150.0	H	227.0	8.7
3417.000000	---	41.61	54.00	12.39	150.0	H	255.0	8.7
4946.500000	---	39.89	54.00	14.11	150.0	H	152.0	11.8
4958.500000	51.09	---	74.00	22.91	150.0	H	90.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

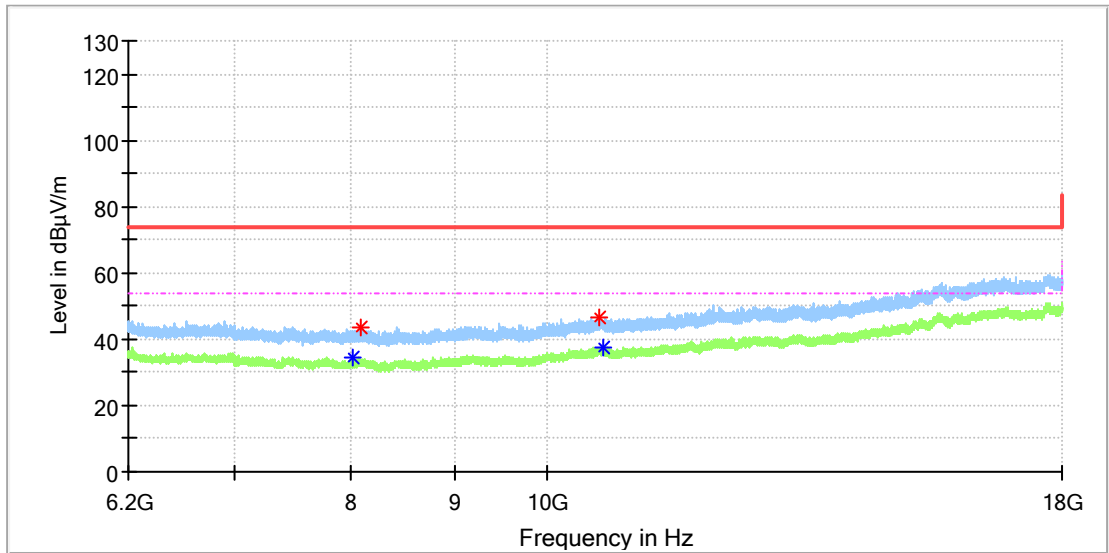


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1199.000000	43.52	---	74.00	30.48	150.0	V	272.0	1.1
1200.000000	---	36.65	54.00	17.35	150.0	V	210.0	1.1
3342.000000	52.90	---	74.00	21.10	150.0	V	250.0	8.5
3344.500000	---	41.91	54.00	12.09	150.0	V	340.0	8.5
4918.000000	50.48	---	74.00	23.52	150.0	V	81.0	11.8
4960.000000	---	41.72	54.00	12.28	150.0	V	153.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

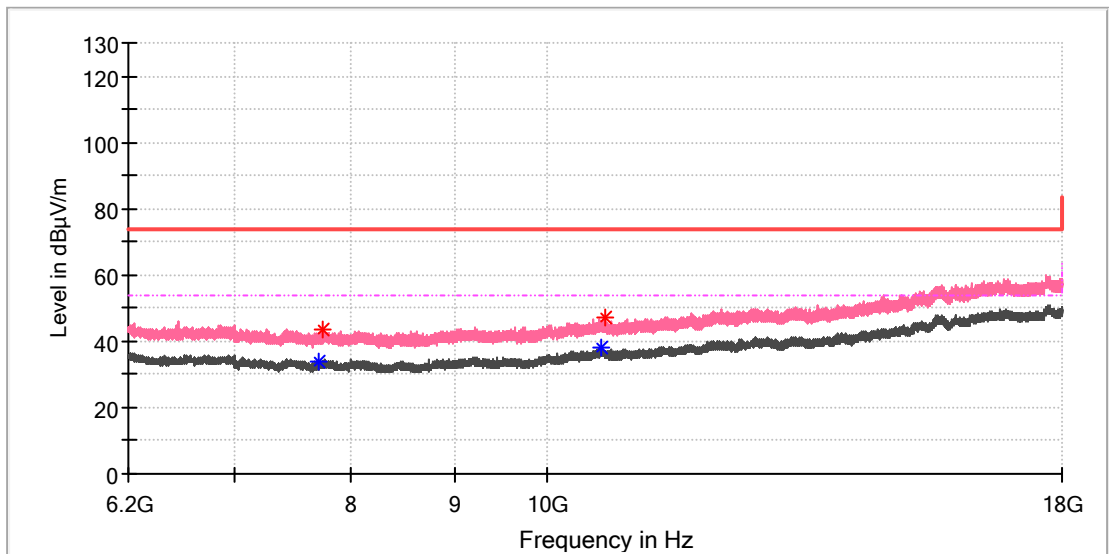


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8006.383333	---	34.69	54.00	19.31	150.0	H	39.0	8.8
8088.491667	43.35	---	74.00	30.65	150.0	H	84.0	8.9
10602.383333	46.42	---	74.00	27.58	150.0	H	250.0	12.1
10651.550000	---	37.46	54.00	16.54	150.0	H	1.0	12.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin



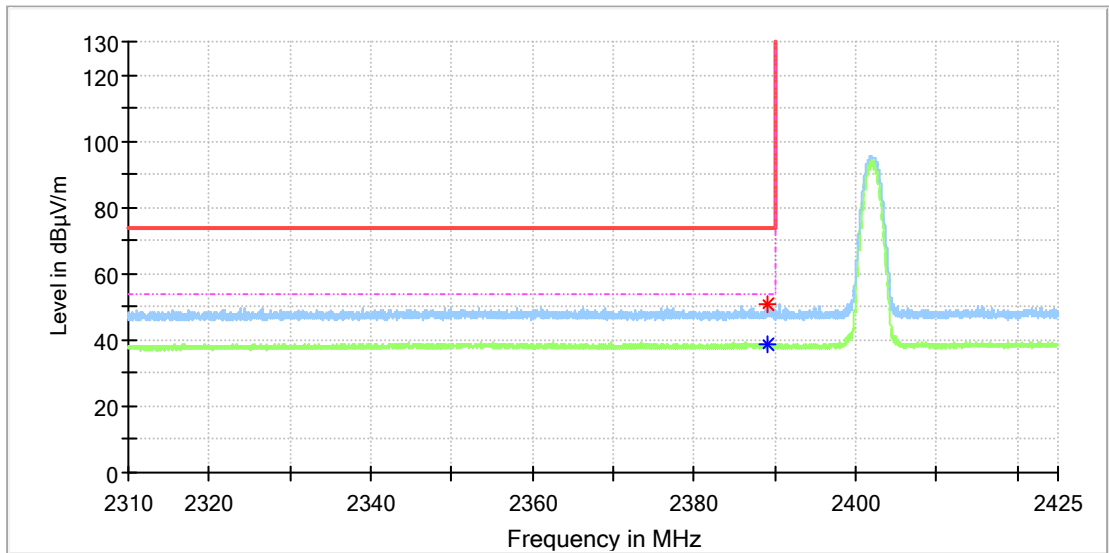
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7704.500000	---	33.93	54.00	20.07	150.0	V	169.0	8.7
7735.966667	43.65	---	74.00	30.35	150.0	V	331.0	8.8
10631.883333	---	37.93	54.00	16.07	150.0	V	112.0	12.0
10682.033333	46.96	---	74.00	27.04	150.0	V	190.0	11.9

Appendix A.6: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_Low channel
Order No./Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

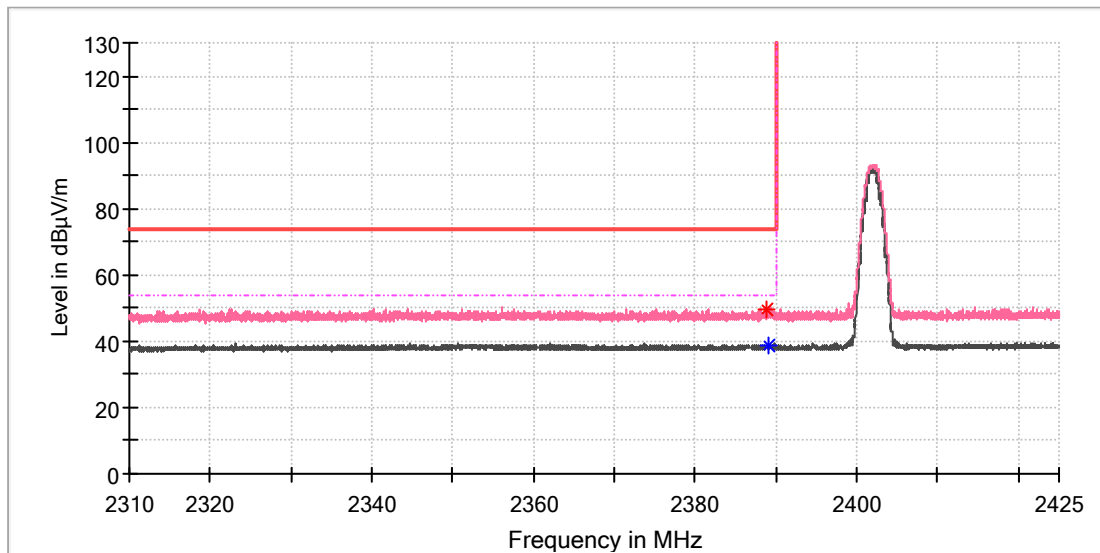


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.130147	51.07	---	74.00	22.93	150.0	H	311.0	7.0
2389.147059	---	38.52	54.00	15.48	150.0	H	316.0	7.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

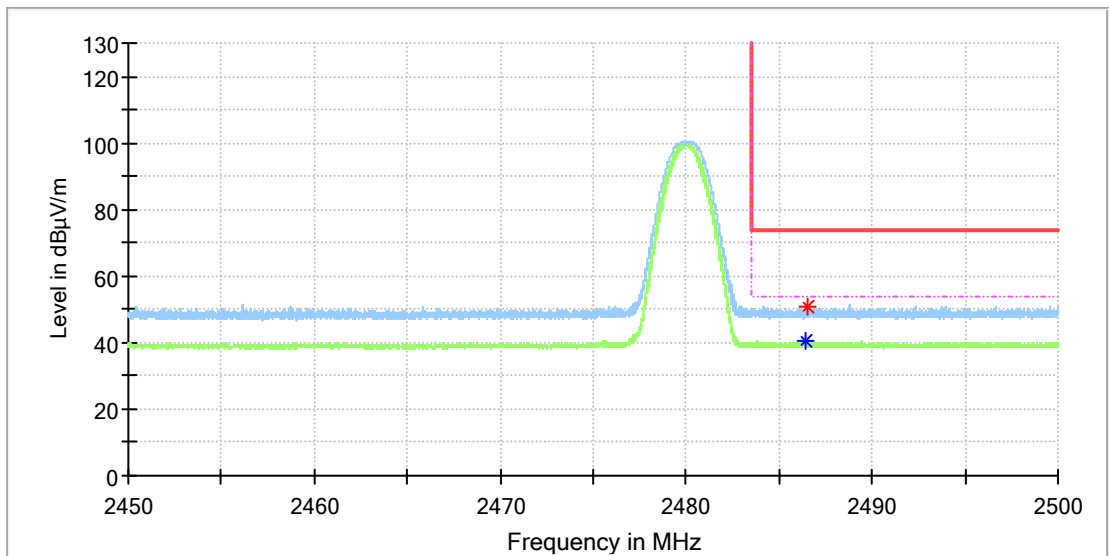


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.876471	49.82	---	74.00	24.18	150.0	V	291.0	7.0
2389.113235	---	38.62	54.00	15.38	150.0	V	73.0	7.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

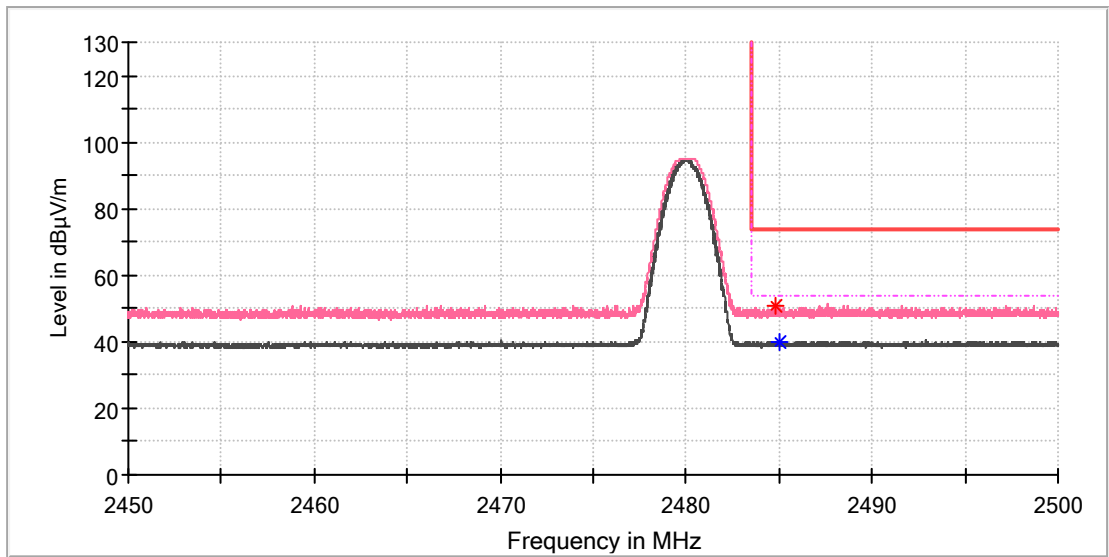


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.426471	---	40.26	54.00	13.74	150.0	H	324.0	7.4
2486.551471	50.75	---	74.00	23.25	150.0	H	224.0	7.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin



Critical_Freqs

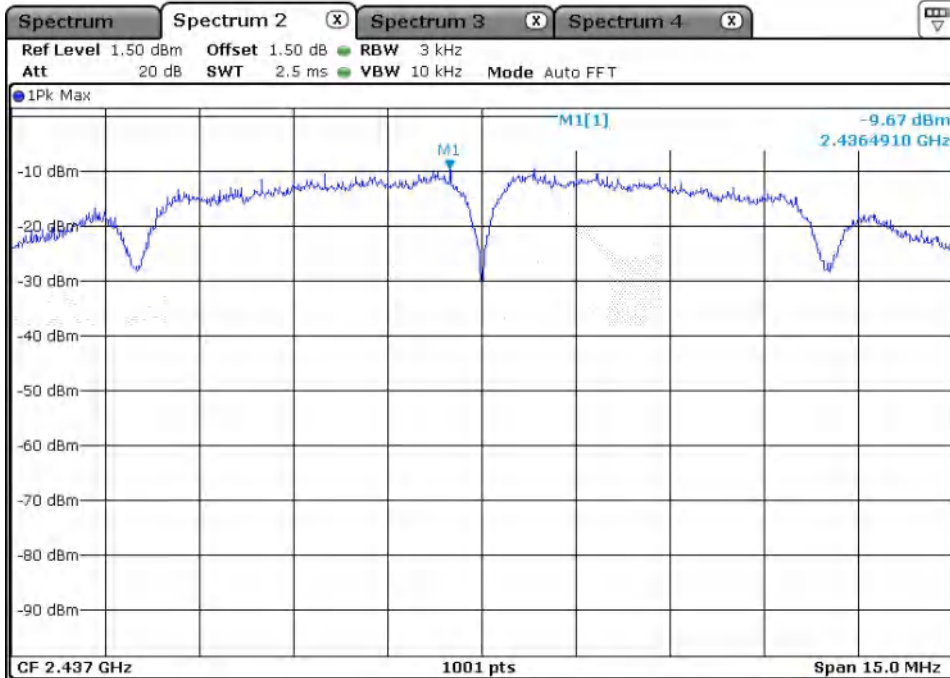
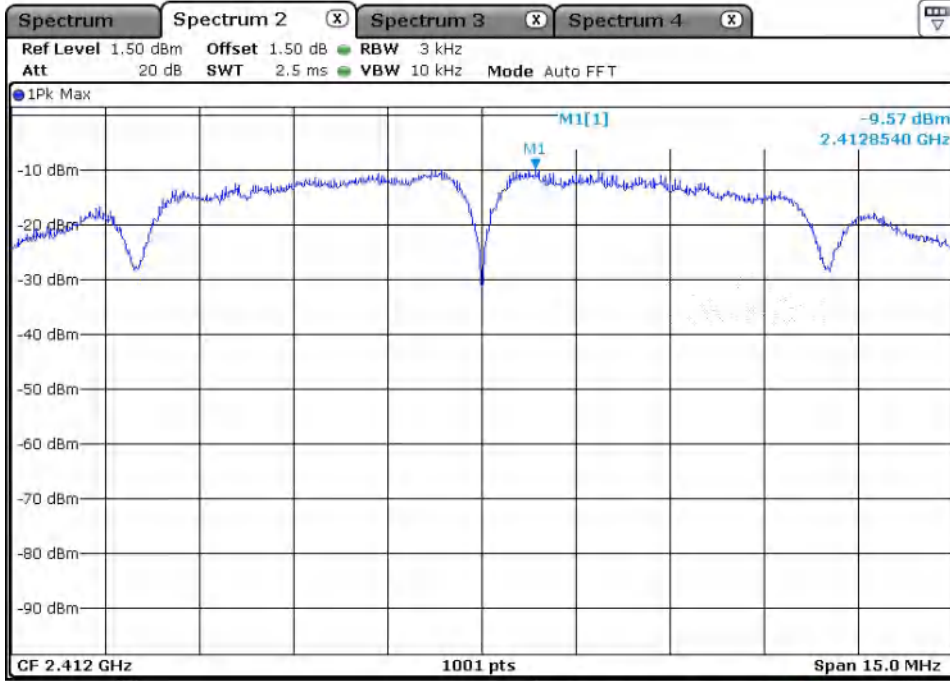
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.845588	51.05	---	74.00	22.95	150.0	V	185.0	7.4
2485.051471	---	39.61	54.00	14.39	150.0	V	46.0	7.4

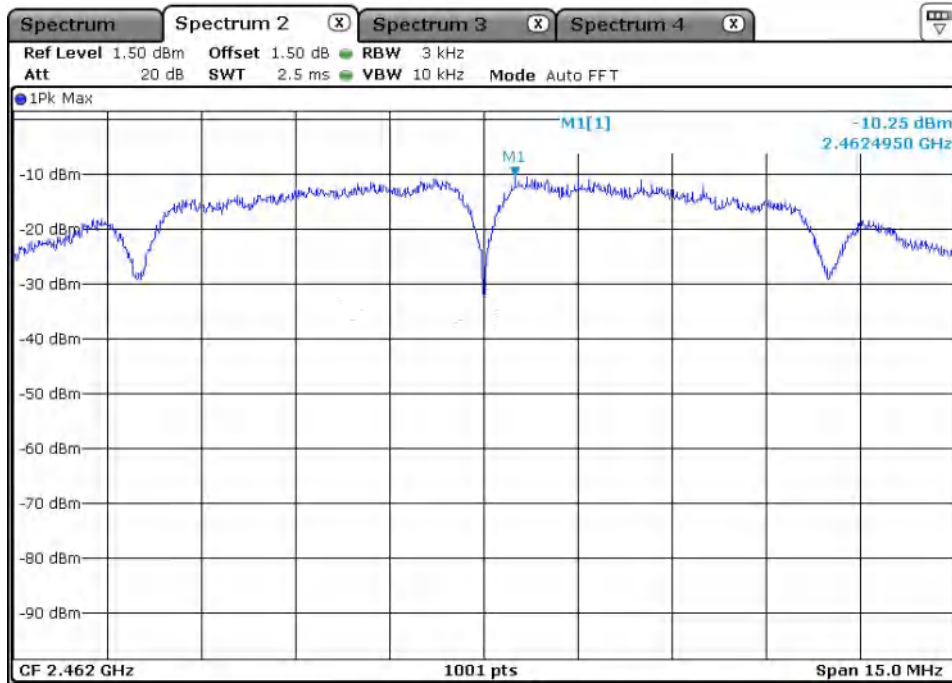
Appendix B: Test Results of 2.4GHz Wi-Fi

APPENDIX B: TEST RESULTS OF 2.4GHZ WI-FI	1
APPENDIX B.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
<i>Wi-Fi 802.11 b mode</i>	2
<i>Wi-Fi 802.11 g mode</i>	3
<i>Wi-Fi 802.11 n(HT20) mode</i>	5
<i>Wi-Fi 802.11 n(HT40) mode</i>	6
APPENDIX B.2: TEST RESULTS OF 6DB BANDWIDTH	8
<i>Wi-Fi 802.11 b mode</i>	8
<i>Wi-Fi 802.11 g mode</i>	11
<i>Wi-Fi 802.11 n(HT20) mode</i>	14
<i>Wi-Fi 802.11 n(HT40) mode</i>	17
APPENDIX B.3: TEST RESULTS OF 99% BANDWIDTH	20
<i>Wi-Fi 802.11 b mode</i>	20
<i>Wi-Fi 802.11 g mode</i>	23
<i>Wi-Fi 802.11 n(HT20) mode</i>	26
<i>Wi-Fi 802.11 n(HT40) mode</i>	29
APPENDIX B.4: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH	32
<i>Wi-Fi 802.11 b mode, Band Edge</i>	32
<i>Wi-Fi 802.11 g mode, Band Edge</i>	33
<i>Wi-Fi 802.11 n(HT20) mode, Band Edge</i>	34
<i>Wi-Fi 802.11 n(HT40) mode, Band Edge</i>	35
<i>Wi-Fi 802.11 b mode, Conducted Spurious Emission</i>	36
<i>Wi-Fi 802.11 g mode, Conducted Spurious Emission</i>	39
<i>Wi-Fi 802.11 n(HT20) mode, Conducted Spurious Emission</i>	42
<i>Wi-Fi 802.11 n(HT40) mode, Conducted Spurious Emission</i>	45
APPENDIX B.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	48
30MHz - 1GHz (Worst case)	48
1GHz - 18GHz	50
APPENDIX B.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	62

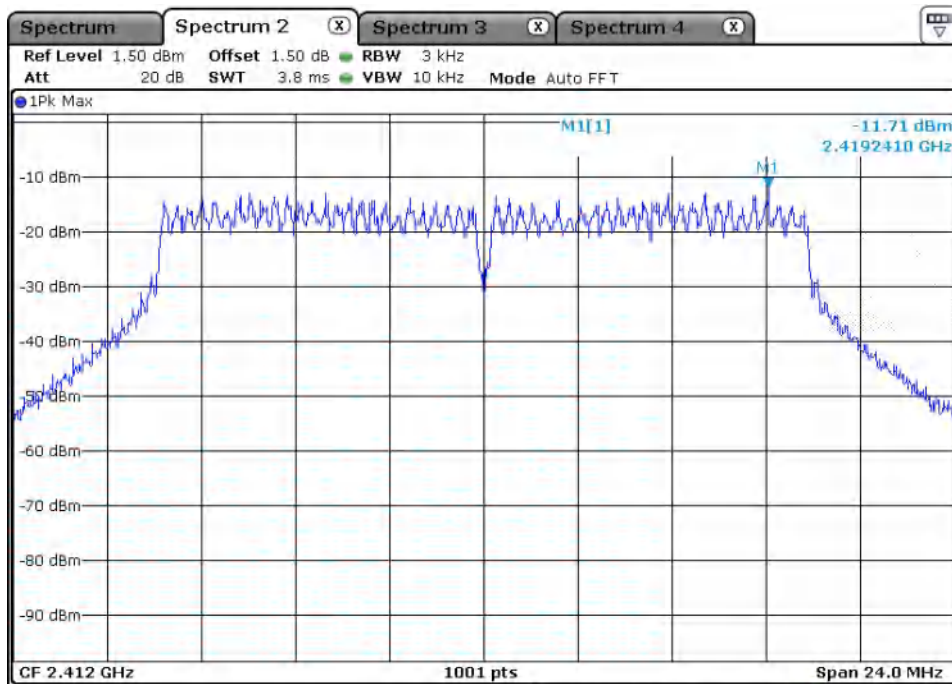
Appendix B.1: Test Results of Conducted Power Spectral Density

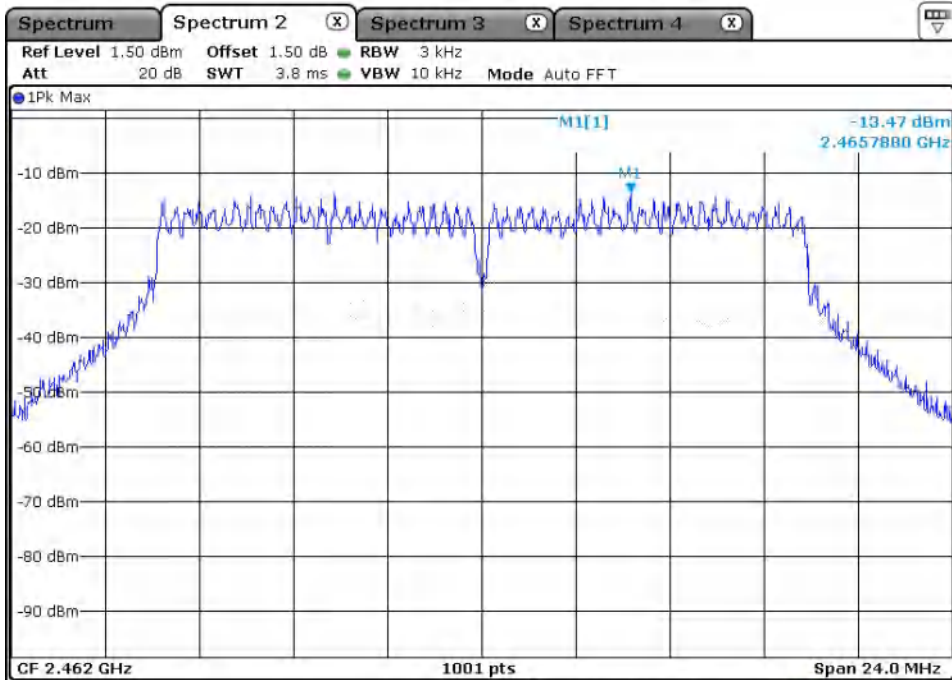
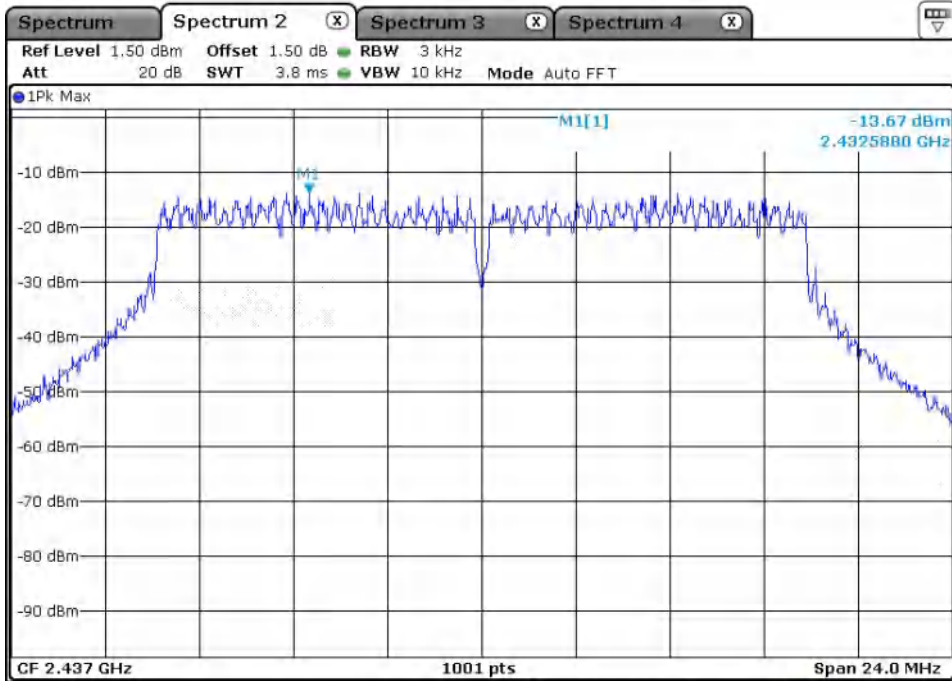
Wi-Fi 802.11 b mode



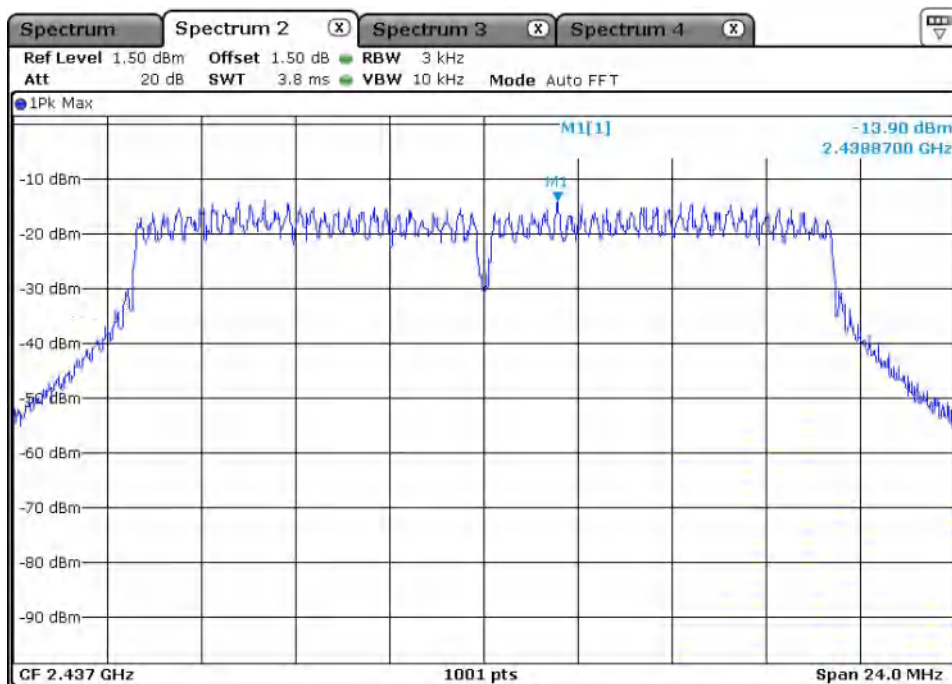
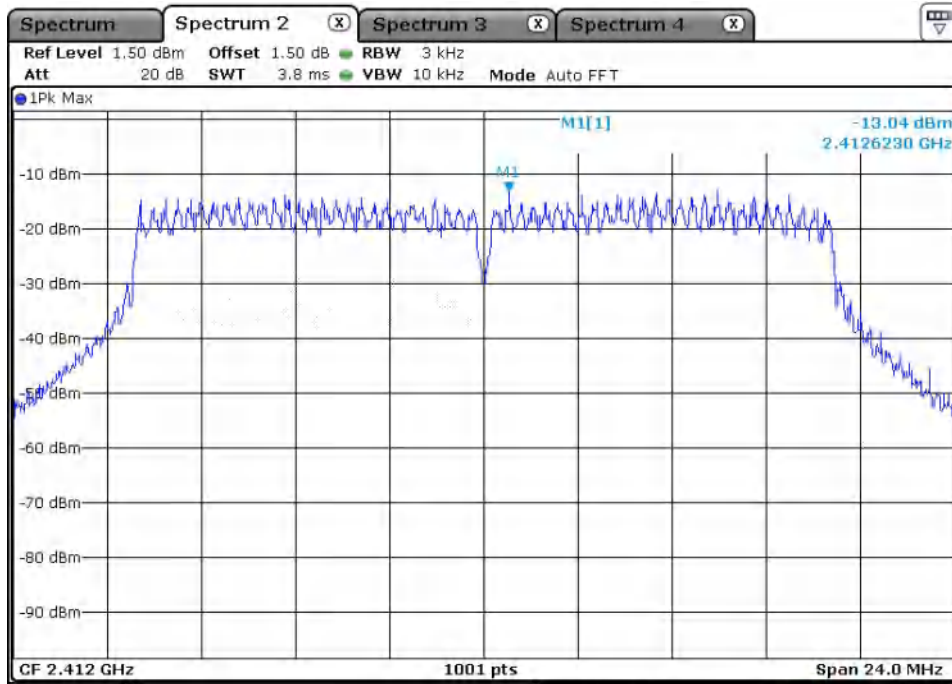


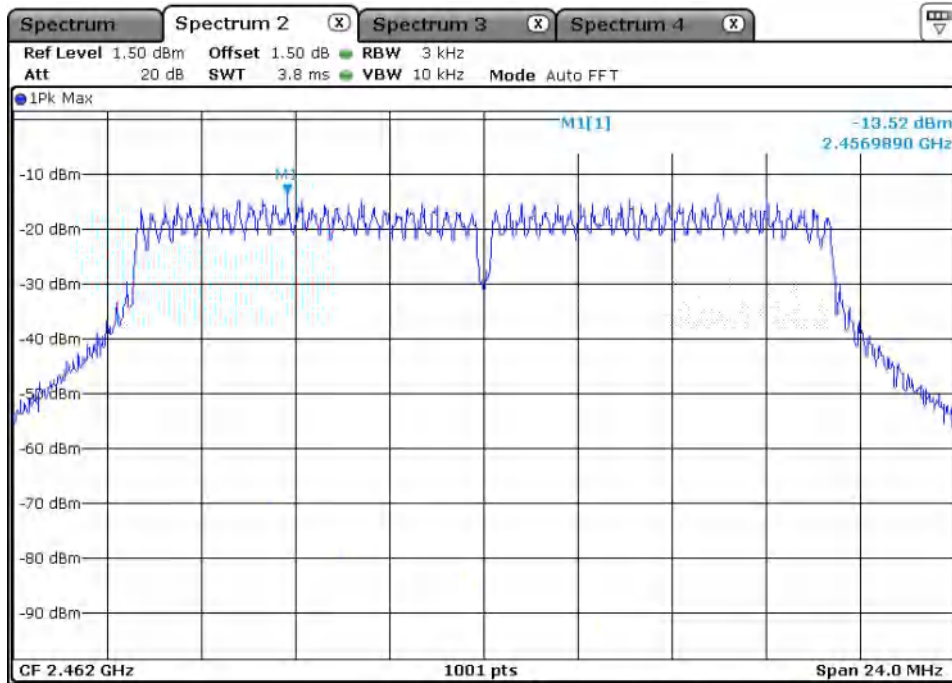
Wi-Fi 802.11 g mode



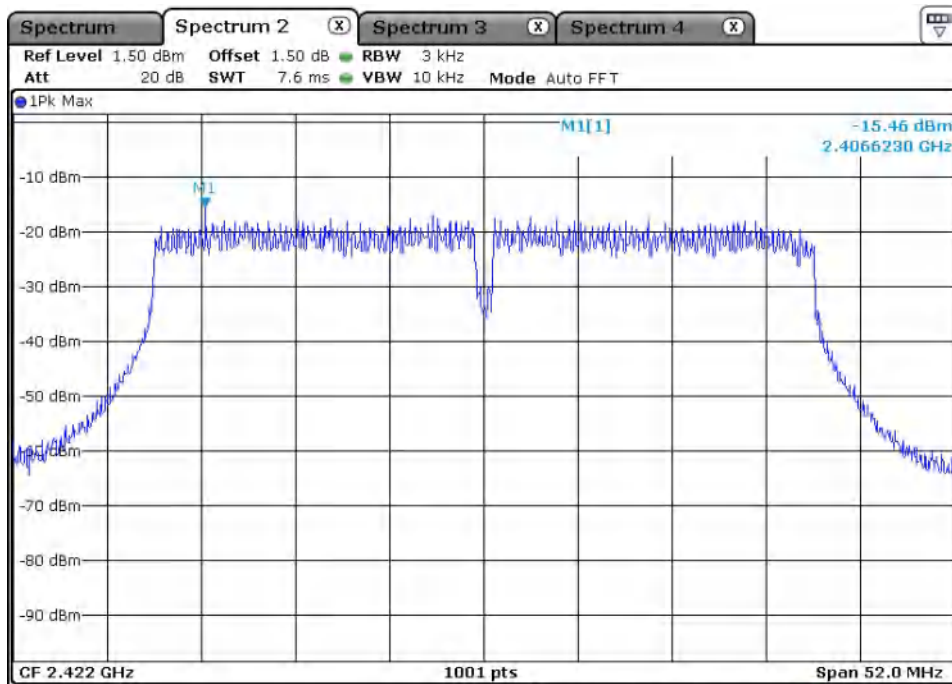


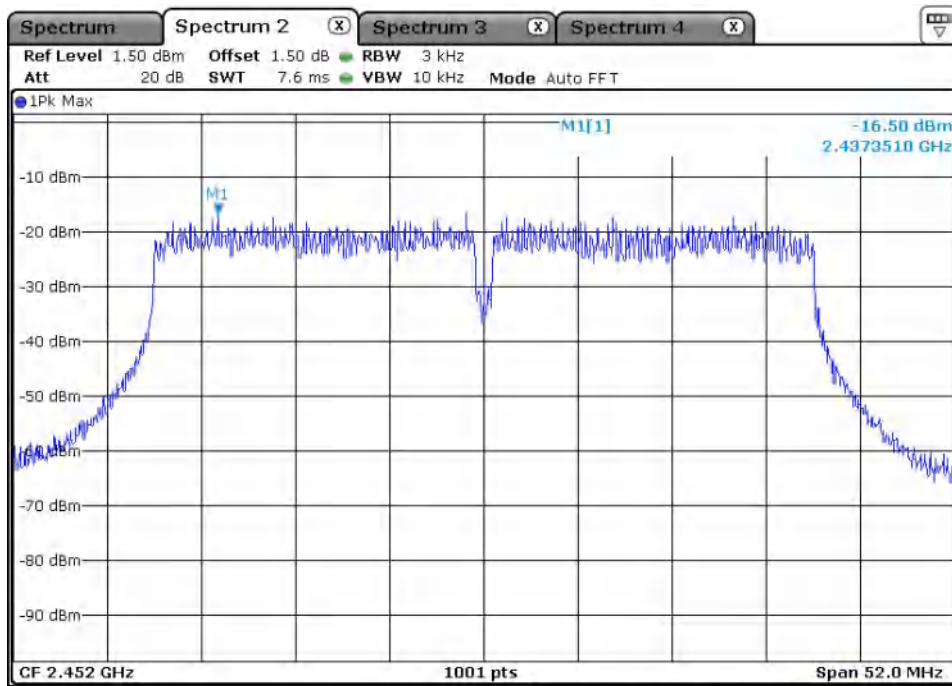
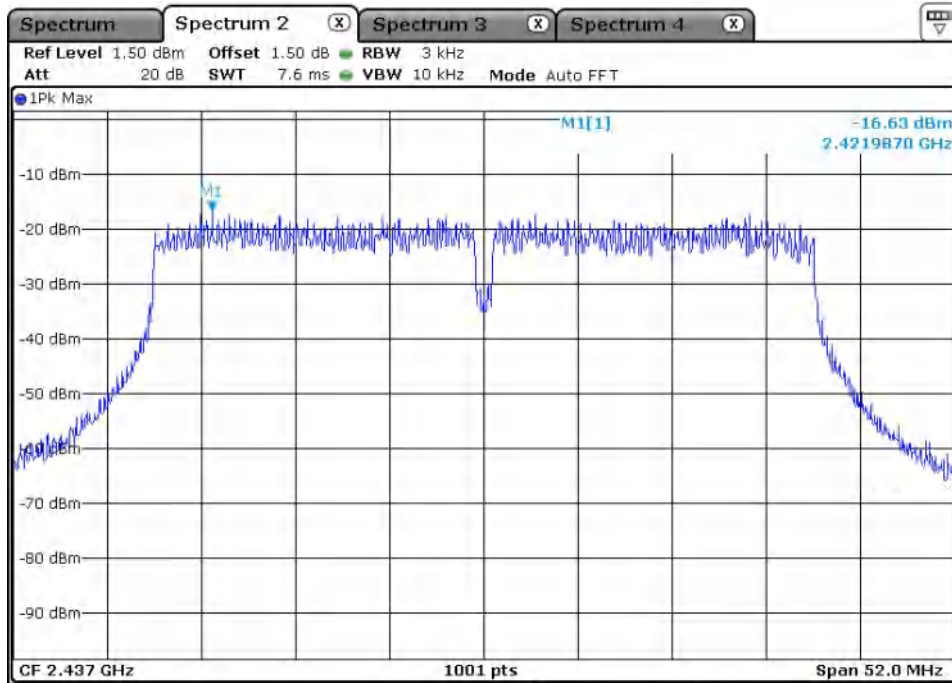
Wi-Fi 802.11 n(HT20) mode





Wi-Fi 802.11 n(HT40) mode





Appendix B.2: Test Results of 6dB Bandwidth

Wi-Fi 802.11 b mode

Minimum Emission Bandwidth 6 dB (2412 MHz; 30.000 dBm; 20 MHz(11b_20MHz))

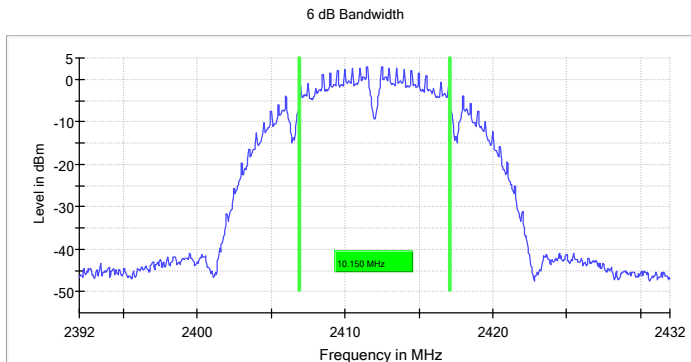
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	10.150000	0.500000	---	2406.925000	2417.075000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	2.9	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	18 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.23 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2437 MHz; 30.000 dBm; 20 MHz(11b_20MHz))

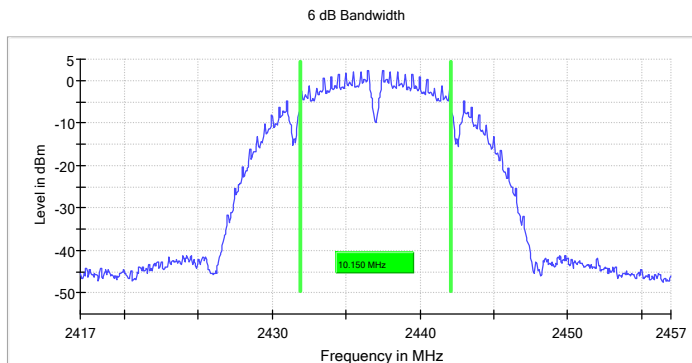
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	10.150000	0.500000	---	2431.925000	2442.075000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	2.4	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	18 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.16 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2462 MHz; 30.000 dBm; 20 MHz(11b_20MHz))

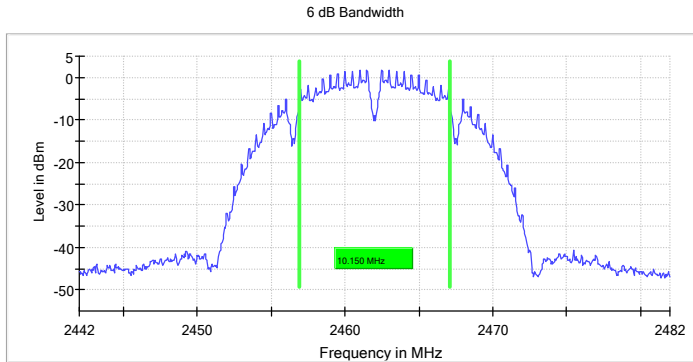
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	10.150000	0.500000	---	2456.925000	2467.075000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	1.8	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	26 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.11 dB	0.50 dB

Wi-Fi 802.11 g mode

Minimum Emission Bandwidth 6 dB (2412 MHz; 30.000 dBm; 20 MHz(11g_20MHz))

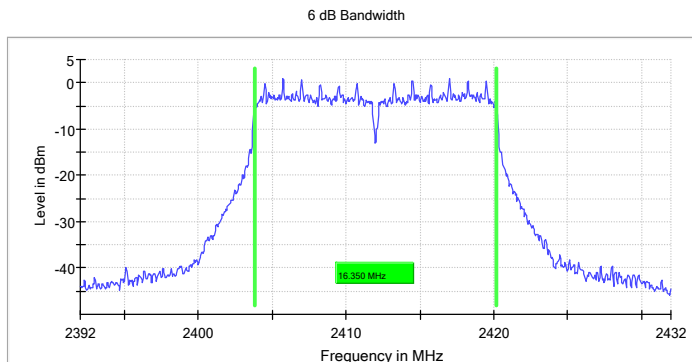
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	16.350000	0.500000	---	2403.825000	2420.175000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	1.0	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
SweepTime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	48 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.38 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2437 MHz; 30.000 dBm; 20 MHz(11g_20MHz))

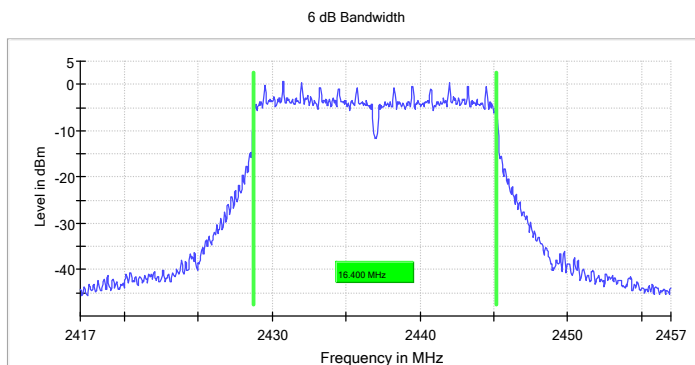
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	16.400000	0.500000	---	2428.775000	2445.175000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	0.7	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	40 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.38 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2462 MHz; 30.000 dBm; 20 MHz(11g_20MHz))

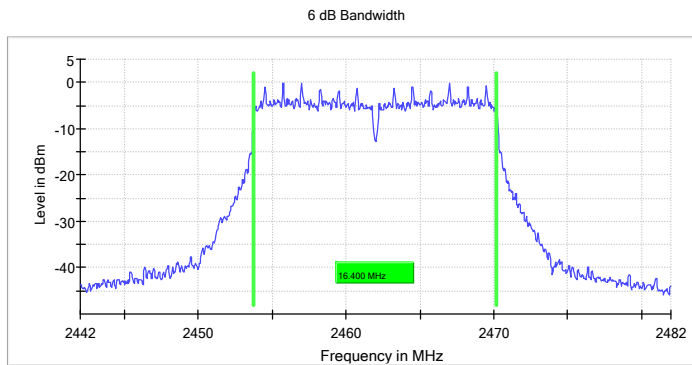
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	16.400000	0.500000	---	2453.775000	2470.175000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	-0.1	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	81 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.13 dB	0.50 dB

Wi-Fi 802.11 n(HT20) mode

Minimum Emission Bandwidth 6 dB (2412 MHz; 30.000 dBm; 20 MHz(11n_20MHz))

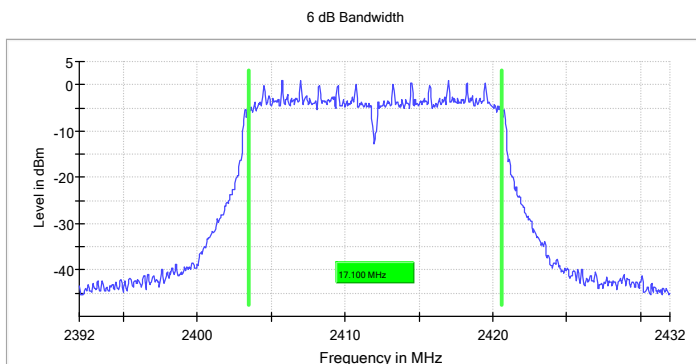
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	17.100000	0.500000	---	2403.475000	2420.575000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	1.0	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
SweepTime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	49 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.48 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2437 MHz; 30.000 dBm; 20 MHz(11n_20Mhz))

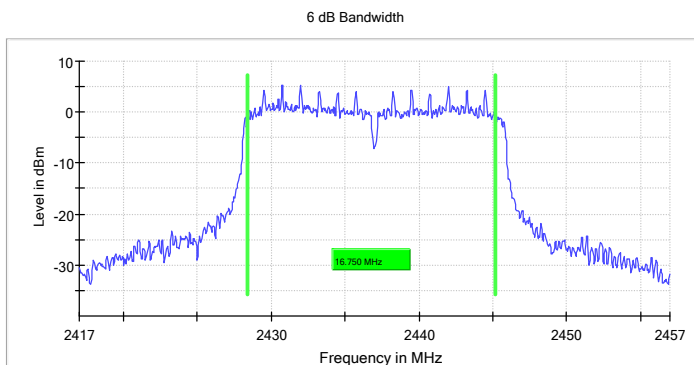
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	16.750000	0.500000	---	2428.425000	2445.175000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	5.4	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	69 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.40 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2462 MHz; 30.000 dBm; 20 MHz(11n_20MHz))

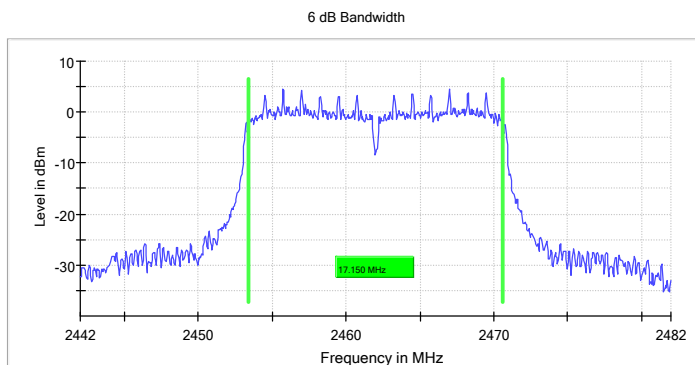
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	17.150000	0.500000	---	2453.425000	2470.575000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	4.5	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	40 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.39 dB	0.50 dB

Wi-Fi 802.11 n(HT40) mode

Minimum Emission Bandwidth 6 dB (2422 MHz; 30.000 dBm; 11n_40 MHz)

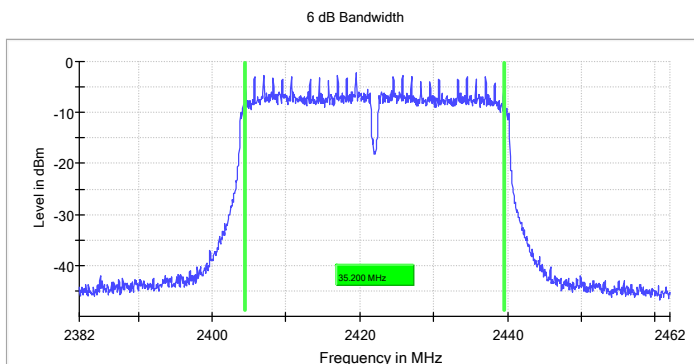
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2422.000000	35.200000	0.500000	---	2404.425000	2439.625000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2422.000000	-2.3	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.38200 GHz	2.38200 GHz
Stop Frequency	2.46200 GHz	2.46200 GHz
Span	80.000 MHz	80.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	1600	~ 1600
SweepTime	1.600 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	91 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.17 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2437 MHz; 30.000 dBm; 11n_40 MHz)

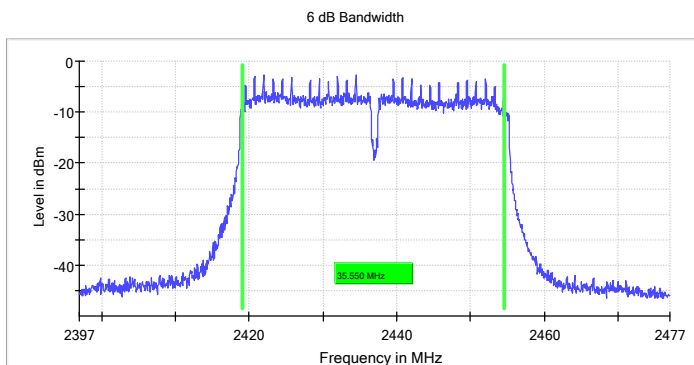
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	35.550000	0.500000	---	2419.075000	2454.625000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	-2.8	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39700 GHz	2.39700 GHz
Stop Frequency	2.47700 GHz	2.47700 GHz
Span	80.000 MHz	80.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	1600	~ 1600
Sweeptime	1.600 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	90 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.15 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2452 MHz; 30.000 dBm; 11n_40 MHz)

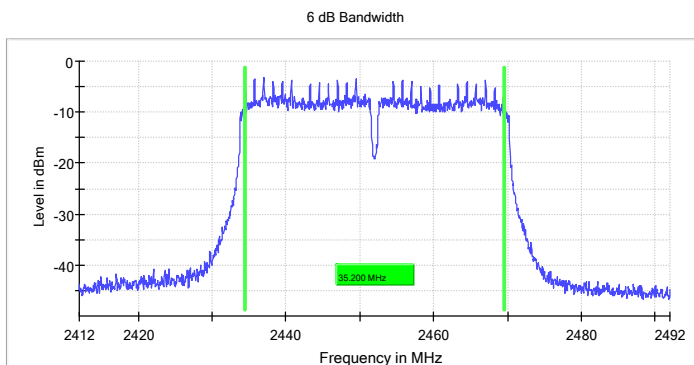
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2452.000000	35.200000	0.500000	---	2434.425000	2469.625000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2452.000000	-3.2	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41200 GHz	2.41200 GHz
Stop Frequency	2.49200 GHz	2.49200 GHz
Span	80.000 MHz	80.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	1600	~ 1600
Sweeptime	1.600 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	63 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.10 dB	0.50 dB

Appendix B.3: Test Results of 99% Bandwidth

Wi-Fi 802.11 b mode

Occupied Channel Bandwidth 99% (2412 MHz; 30.000 dBm; 20 MHz(11b_20MHz))

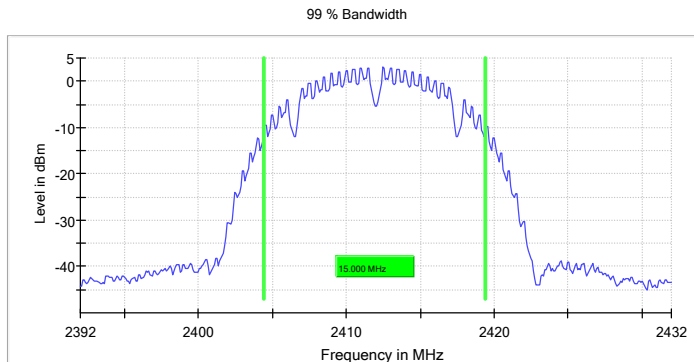
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	15.000000	---	---	2404.450000	2419.450000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2412.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
SweepTime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	9 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.04 dB	0.30 dB

Occupied Channel Bandwidth 99% (2437 MHz; 30.000 dBm; 20 MHz(11b_20Mhz))

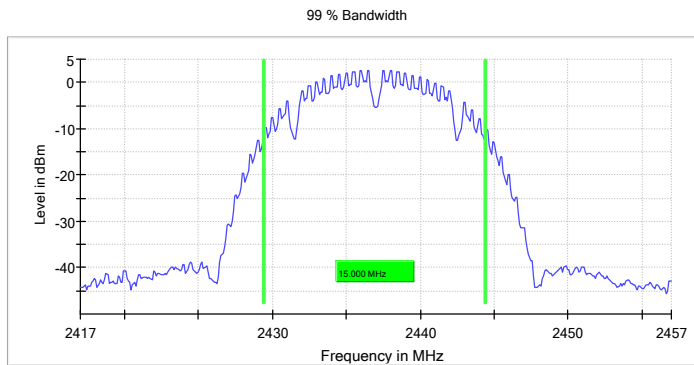
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	15.000000	---	---	2429.450000	2444.450000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2437.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.17 dB	0.30 dB

Occupied Channel Bandwidth 99% (2462 MHz; 30.000 dBm; 20 MHz(11b_20Mhz))

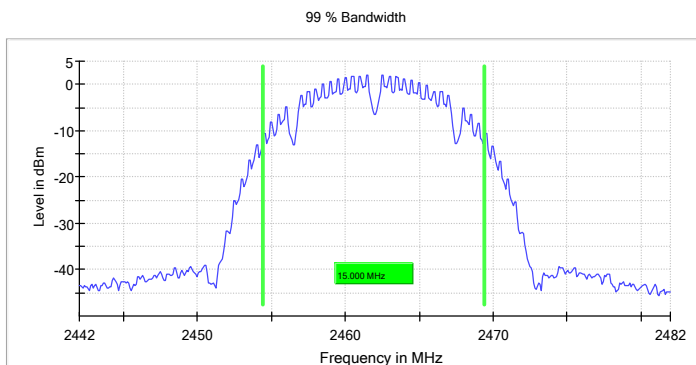
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	15.000000	---	---	2454.450000	2469.450000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2462.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	7 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.06 dB	0.30 dB

Wi-Fi 802.11 g mode

Occupied Channel Bandwidth 99% (2412 MHz; 30.000 dBm; 20 MHz(11g_20Mhz))

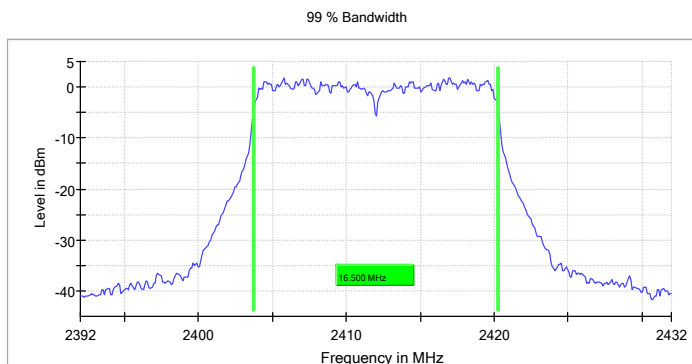
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	16.500000	---	---	2403.750000	2420.250000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2412.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	48 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.12 dB	0.30 dB

Occupied Channel Bandwidth 99% (2437 MHz; 30.000 dBm; 20 MHz(11g_20Mhz))

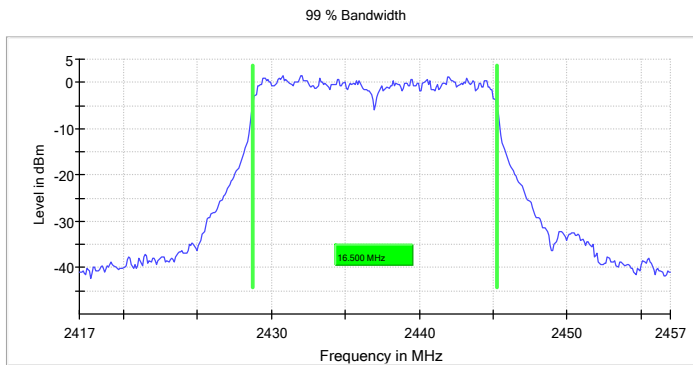
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	16.500000	---	---	2428.750000	2445.250000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2437.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	90 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.30 dB

Occupied Channel Bandwidth 99% (2462 MHz; 30.000 dBm; 20 MHz(11g_20Mhz))

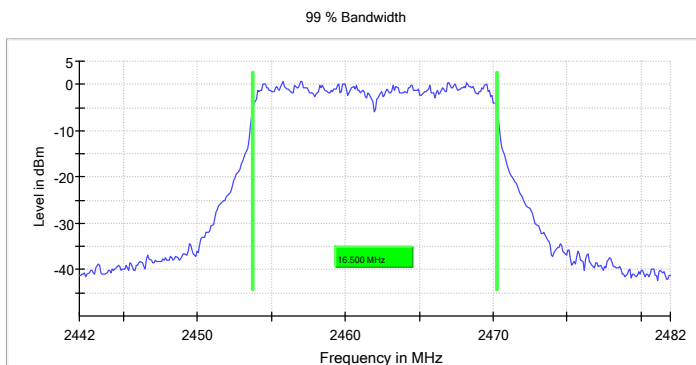
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	16.500000	---	---	2453.750000	2470.250000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2462.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	26 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.18 dB	0.30 dB

Wi-Fi 802.11 n(HT20) mode

Occupied Channel Bandwidth 99% (2412 MHz; 30.000 dBm; 20 MHz(11n_20Mhz))

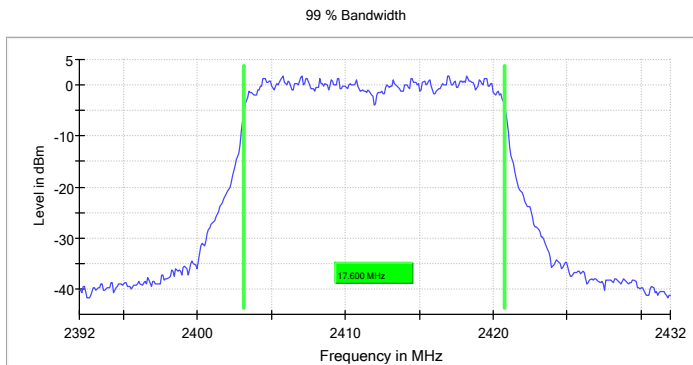
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	17.600000	---	---	2403.150000	2420.750000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2412.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
SweepTime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	42 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.25 dB	0.30 dB

Occupied Channel Bandwidth 99% (2437 MHz; 30.000 dBm; 20 MHz(11n_20Mhz))

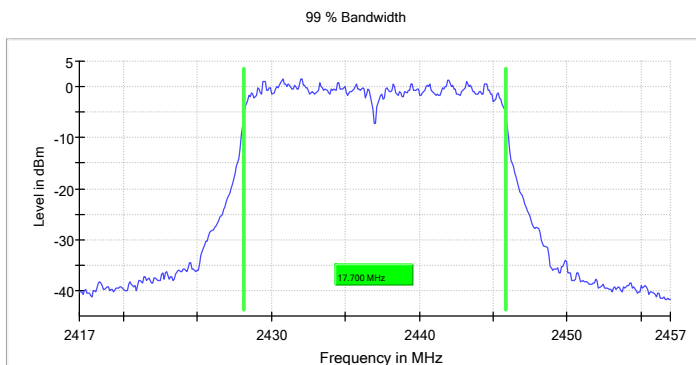
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	17.700000	---	---	2428.150000	2445.850000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2437.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	49 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.06 dB	0.30 dB

Occupied Channel Bandwidth 99% (2462 MHz; 30.000 dBm; 20 MHz(11n_20Mhz))

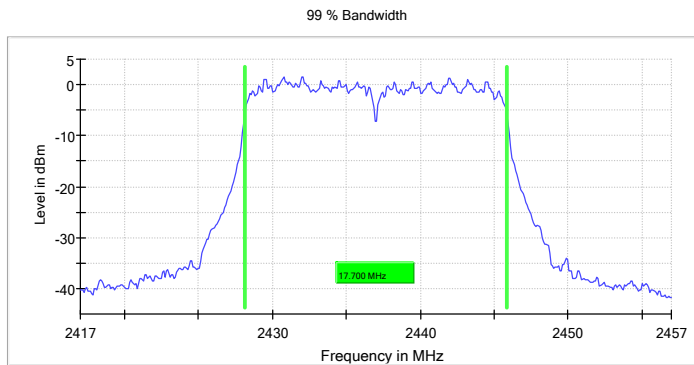
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	17.700000	---	---	2428.150000	2445.850000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2437.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	58 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.27 dB	0.30 dB

Wi-Fi 802.11 n(HT40) mode

Occupied Channel Bandwidth 99% (2422 MHz; 30.000 dBm; 11n_40 MHz)

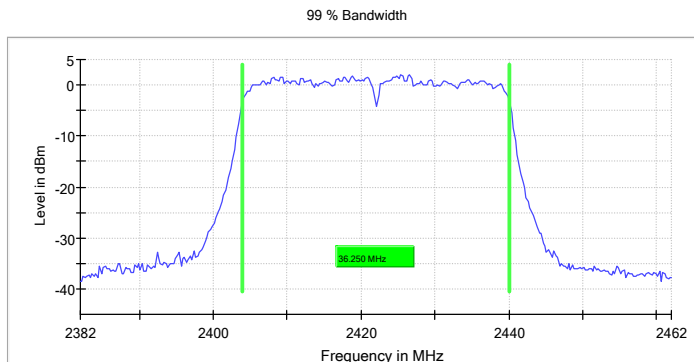
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2422.000000	36.250000	---	---	2403.875000	2440.125000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2422.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.38200 GHz	2.38200 GHz
Stop Frequency	2.46200 GHz	2.46200 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	>= 400.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	320	~ 320
SweepTime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	55 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.23 dB	0.30 dB

Occupied Channel Bandwidth 99% (2437 MHz; 30.000 dBm; 11n_40 MHz)

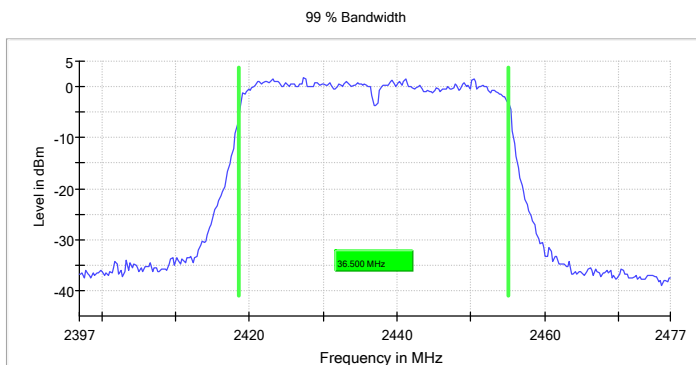
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	36.500000	---	---	2418.625000	2455.125000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2437.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39700 GHz	2.39700 GHz
Stop Frequency	2.47700 GHz	2.47700 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	>= 400.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	320	~ 320
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	48 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.23 dB	0.30 dB

Occupied Channel Bandwidth 99% (2452 MHz; 30.000 dBm; 11n_40 MHz)

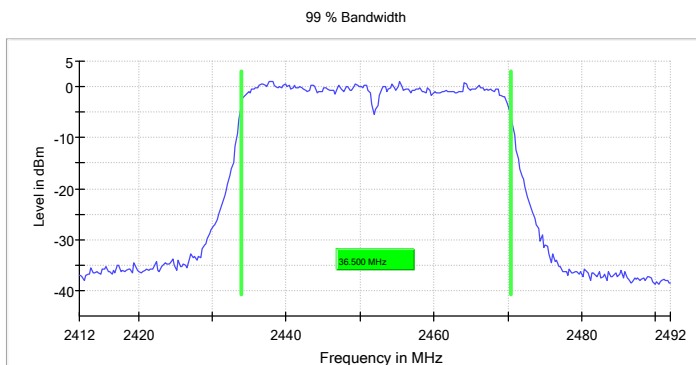
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2452.000000	36.500000	---	---	2433.875000	2470.375000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2452.000000	PASS



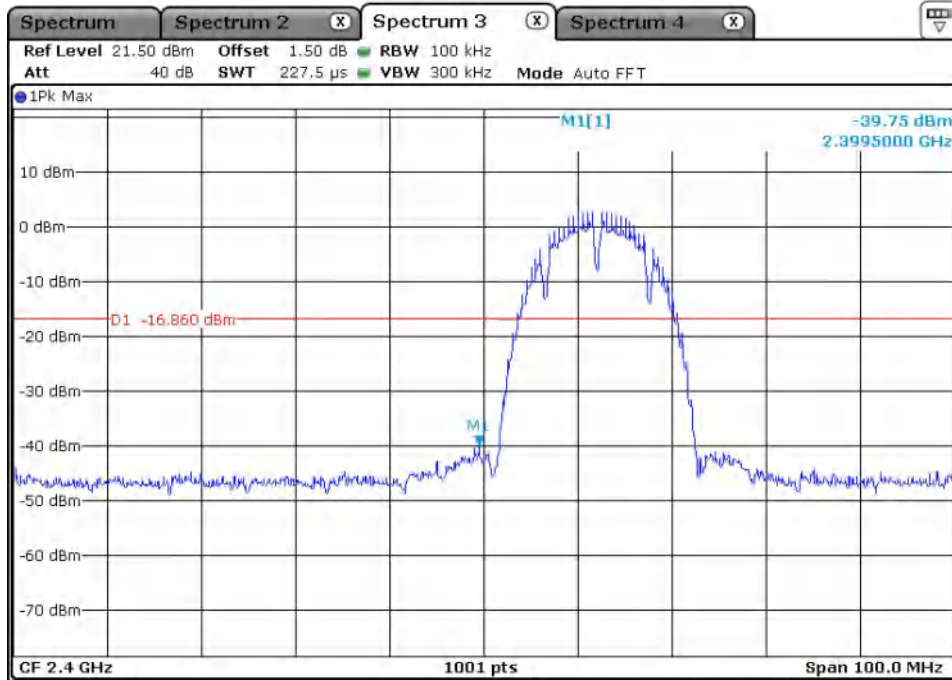
Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41200 GHz	2.41200 GHz
Stop Frequency	2.49200 GHz	2.49200 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	>= 400.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	320	~ 320
SweepTime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	48 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.08 dB	0.30 dB

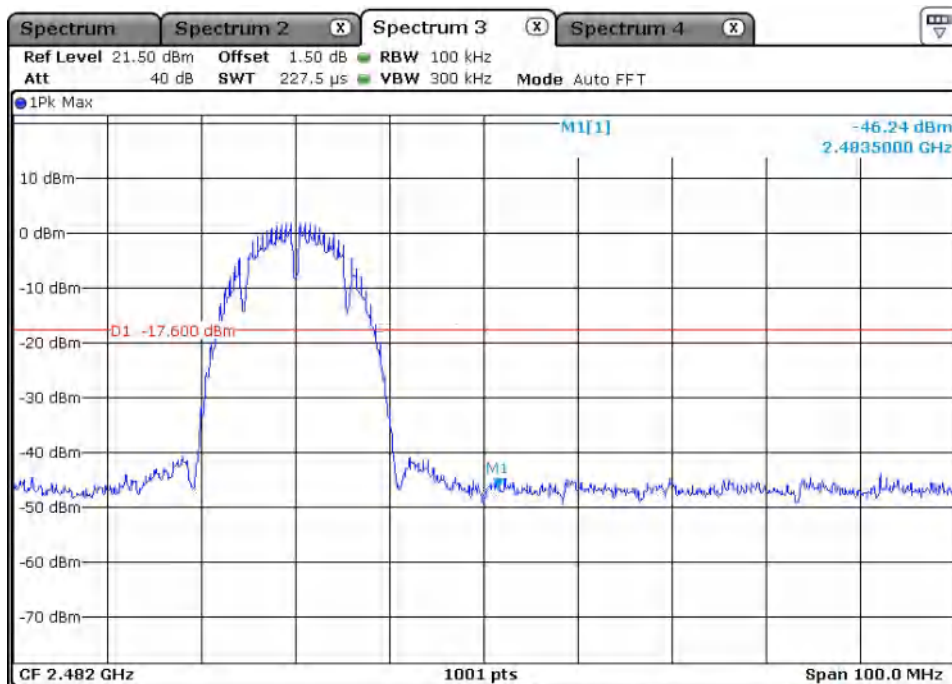
Appendix B.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Wi-Fi 802.11 b mode, Band Edge

Low Channel:

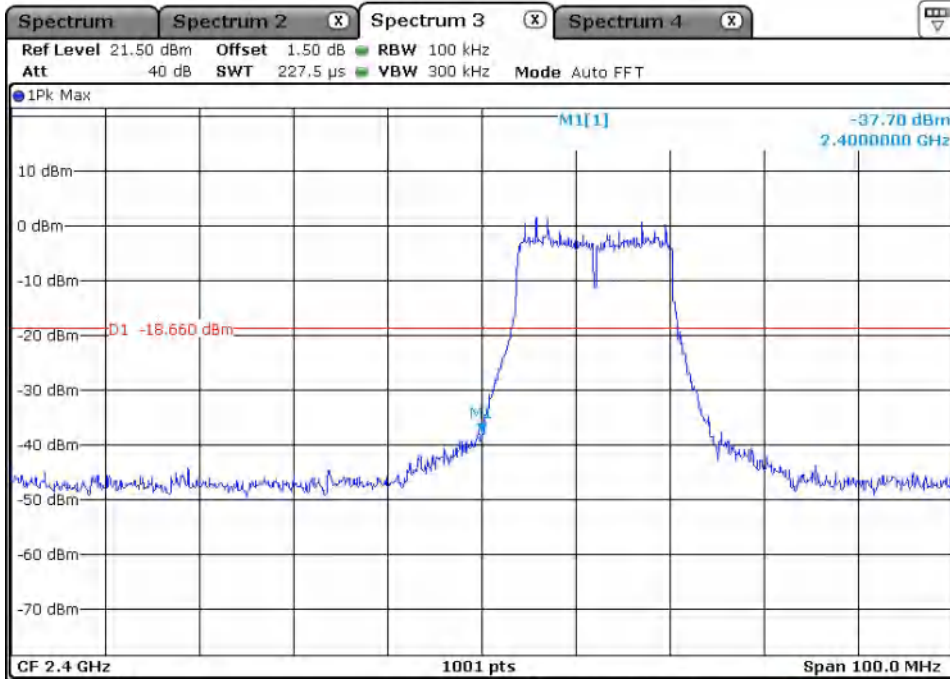


High Channel:

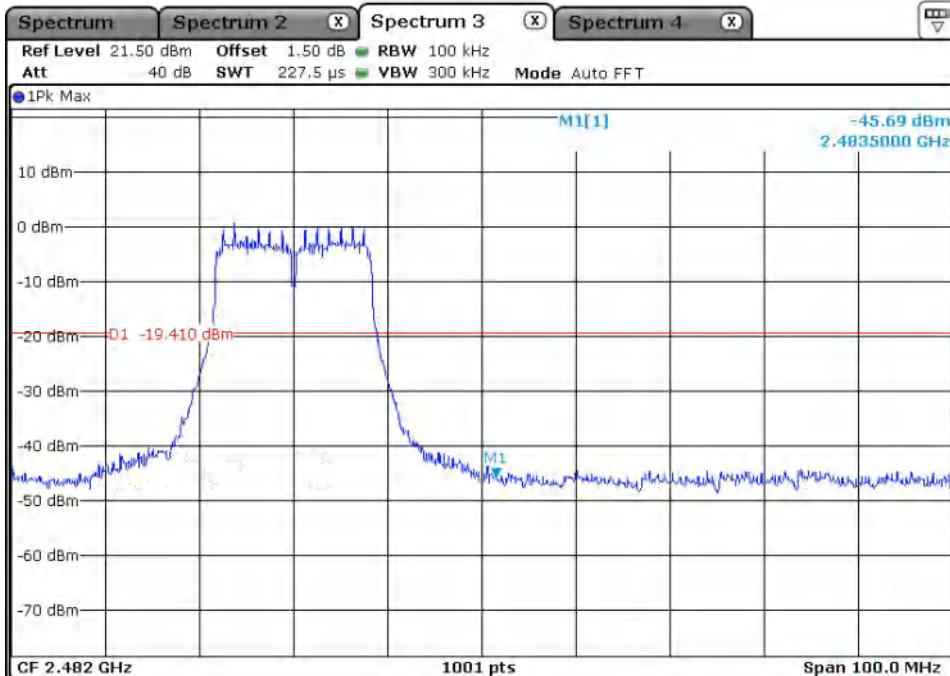


Wi-Fi 802.11 g mode, Band Edge

Low Channel:

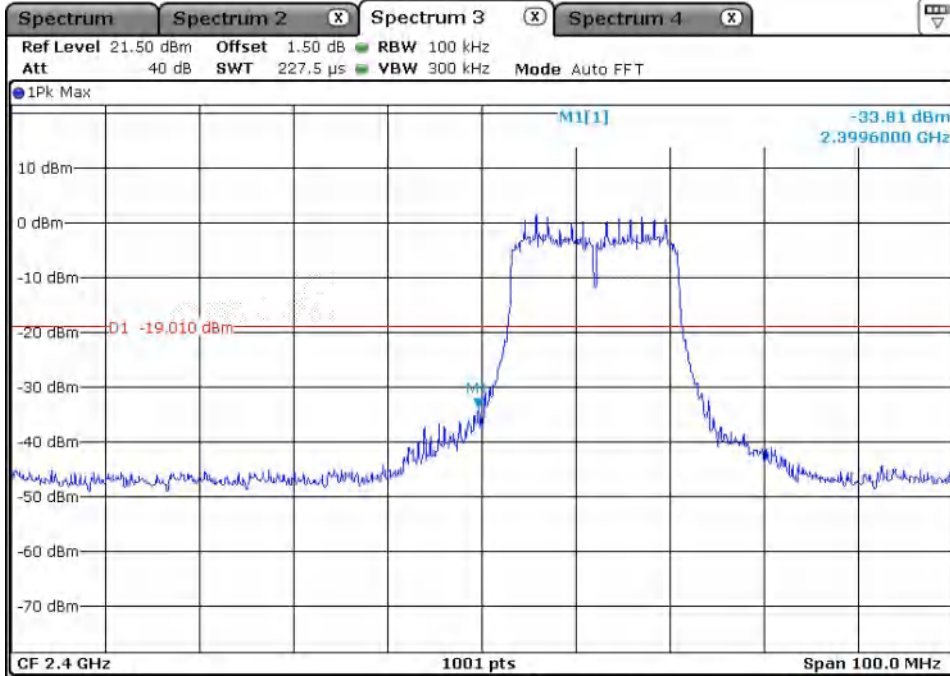


High Channel:

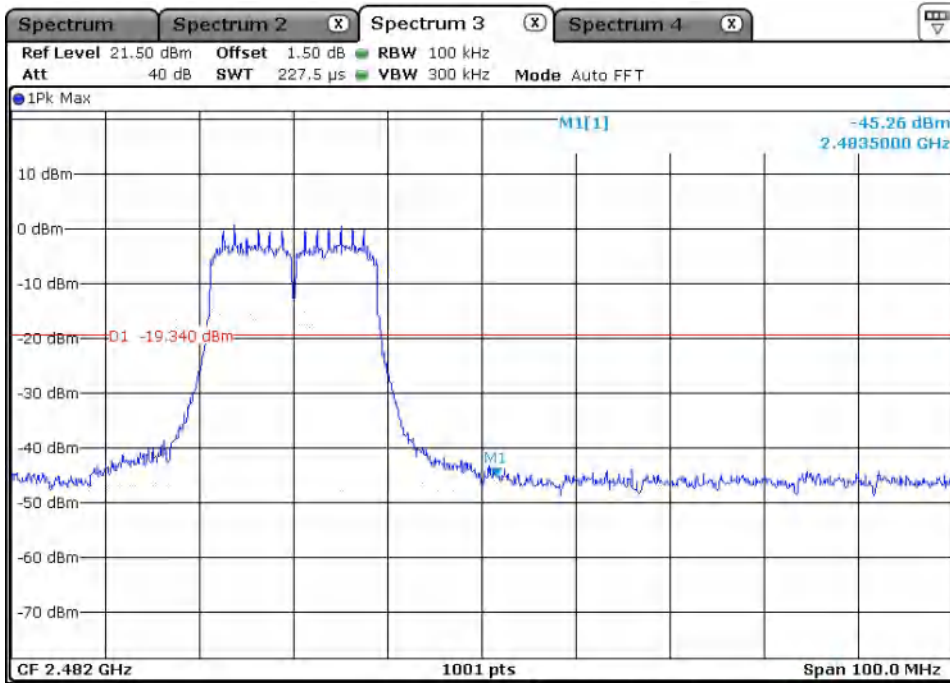


Wi-Fi 802.11 n(HT20) mode, Band Edge

Low Channel:

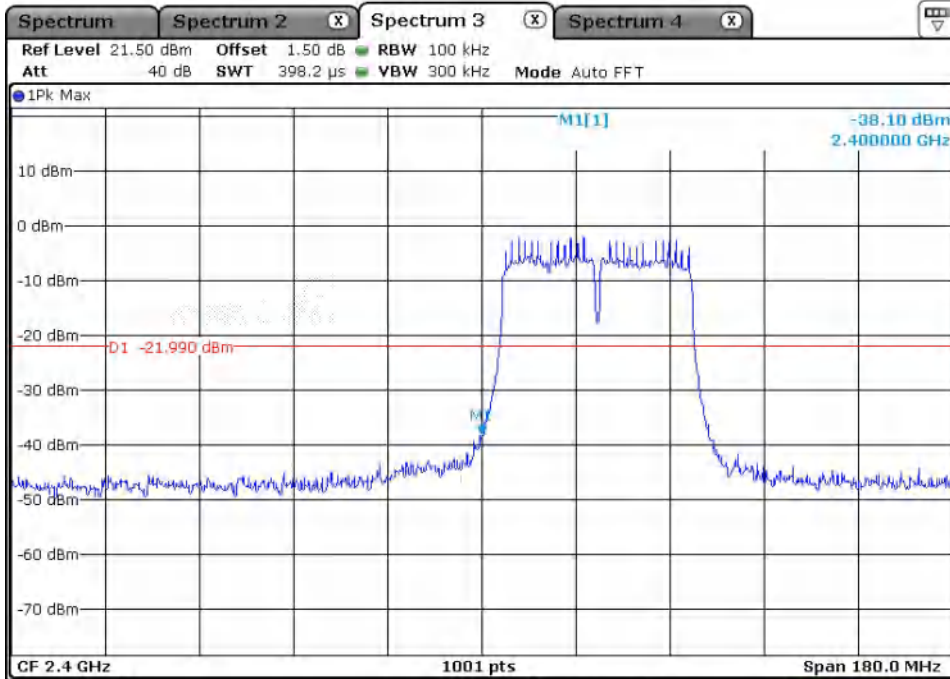


High Channel:

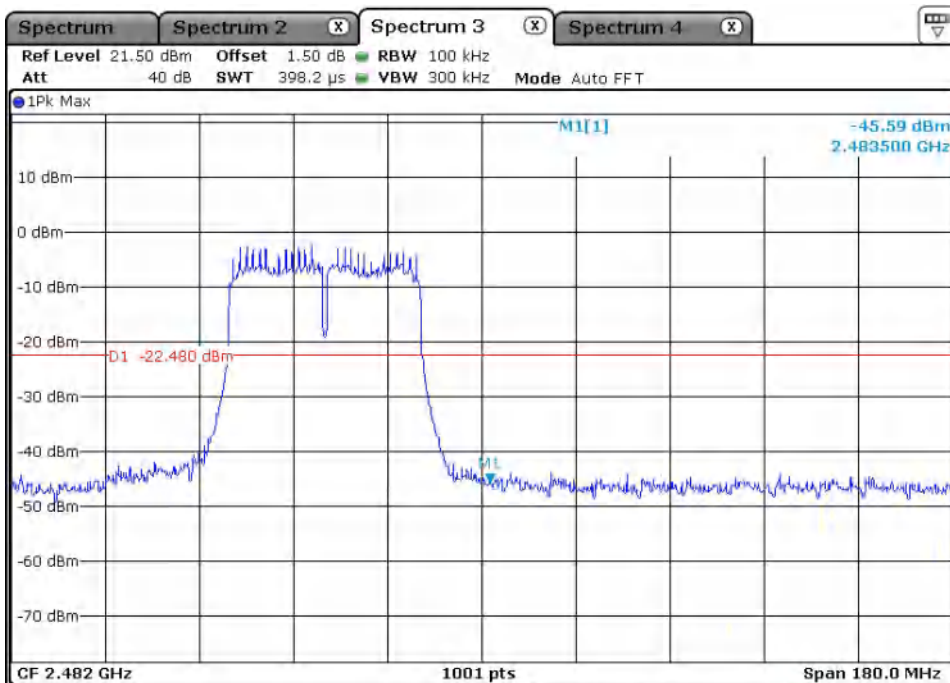


Wi-Fi 802.11 n(HT40) mode, Band Edge

Low Channel:

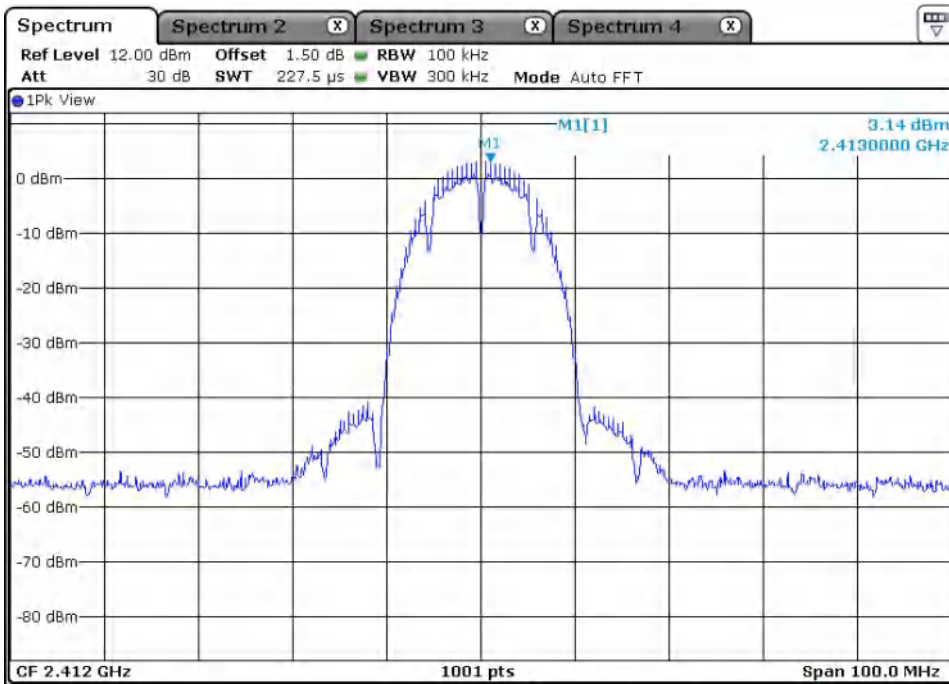
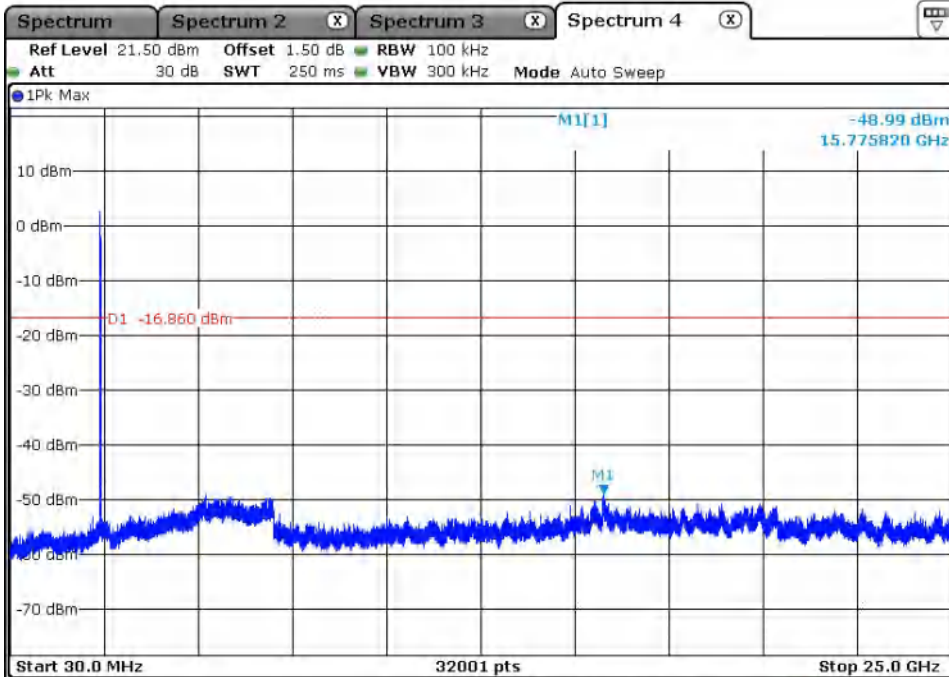


High Channel:

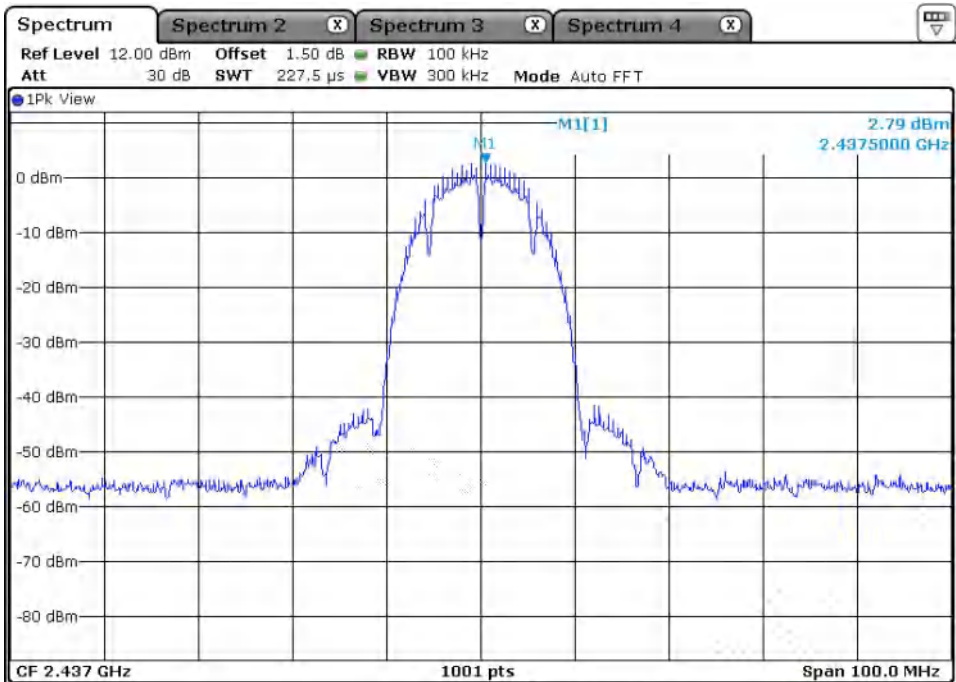
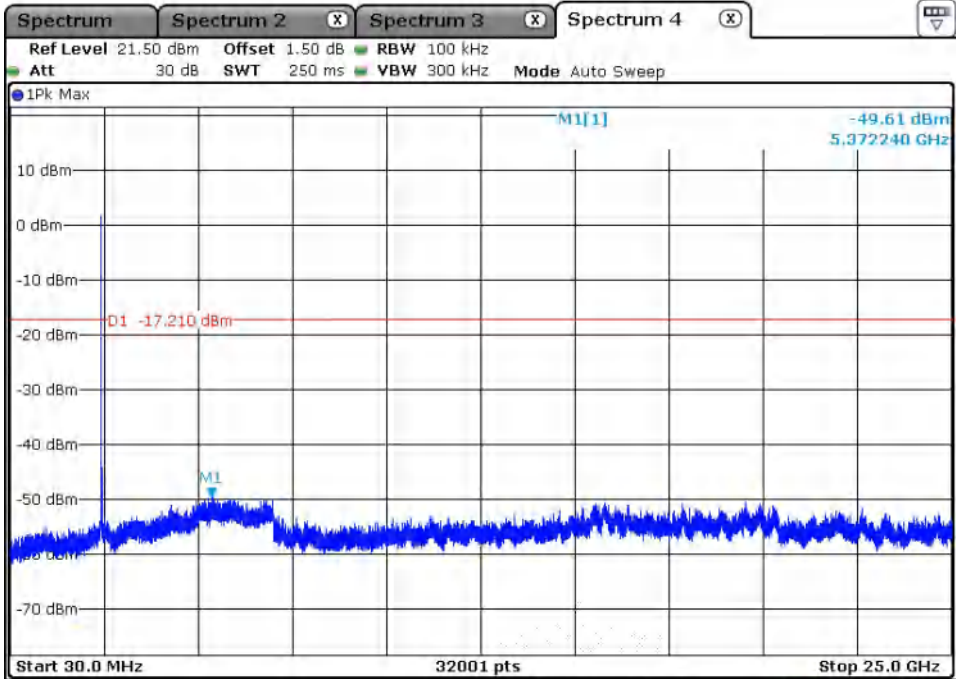


Wi-Fi 802.11 b mode, Conducted Spurious Emission

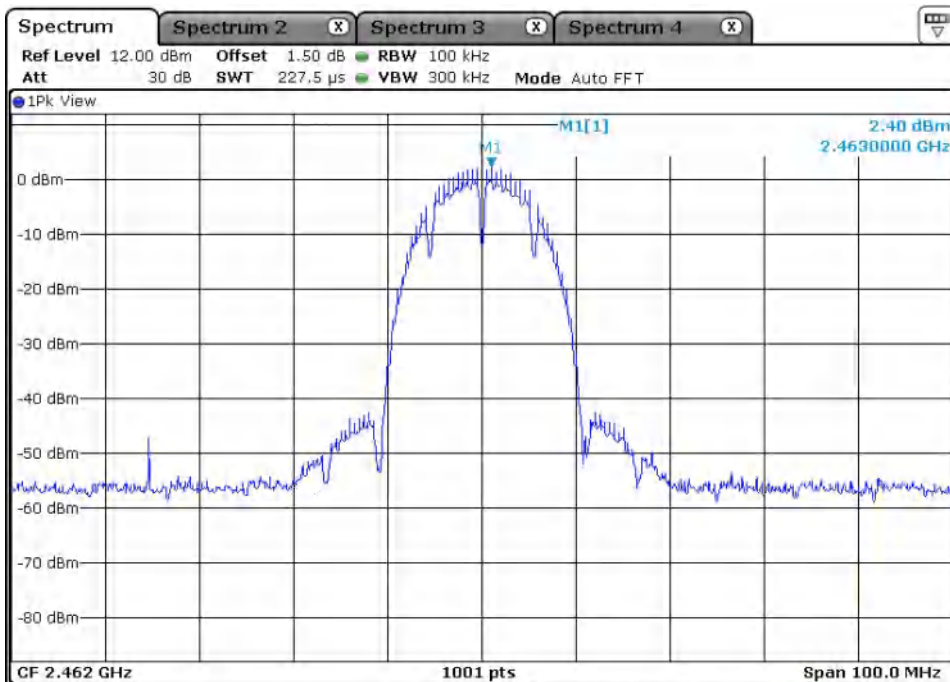
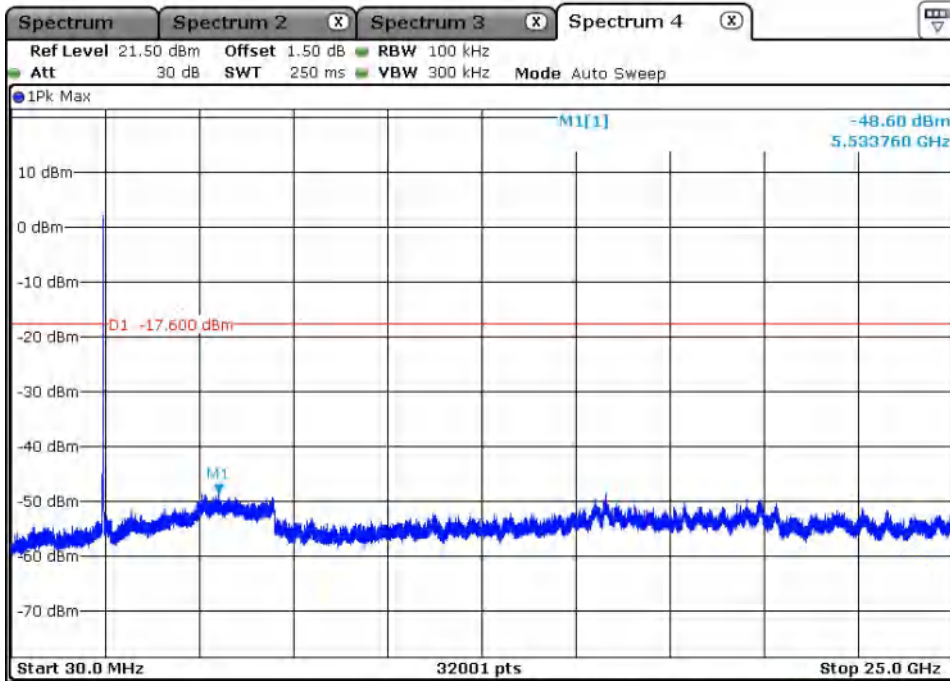
Low Channel:



Middle Channel:

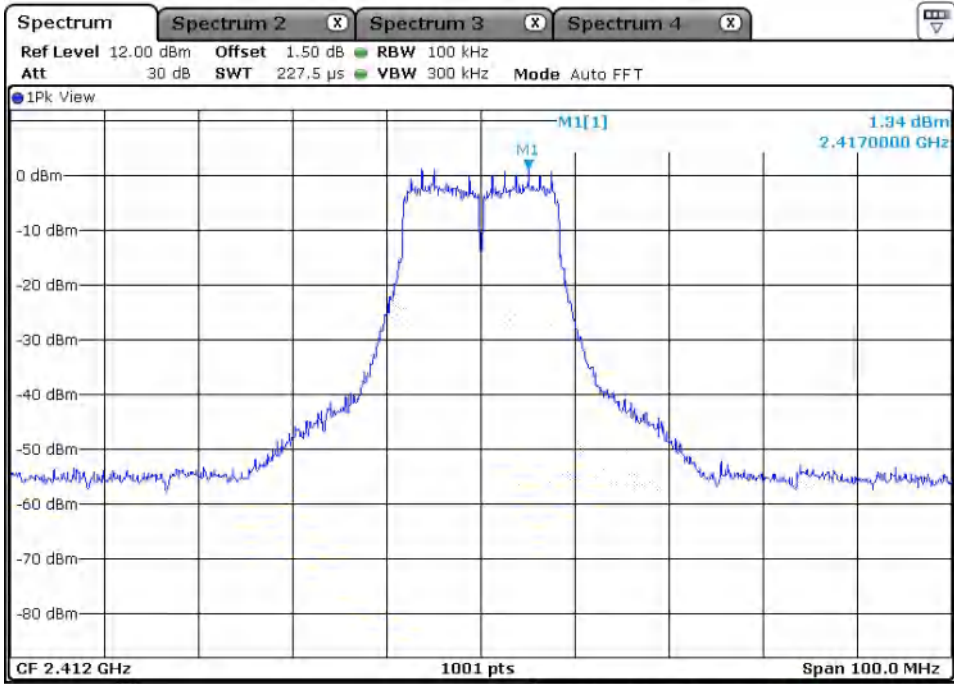
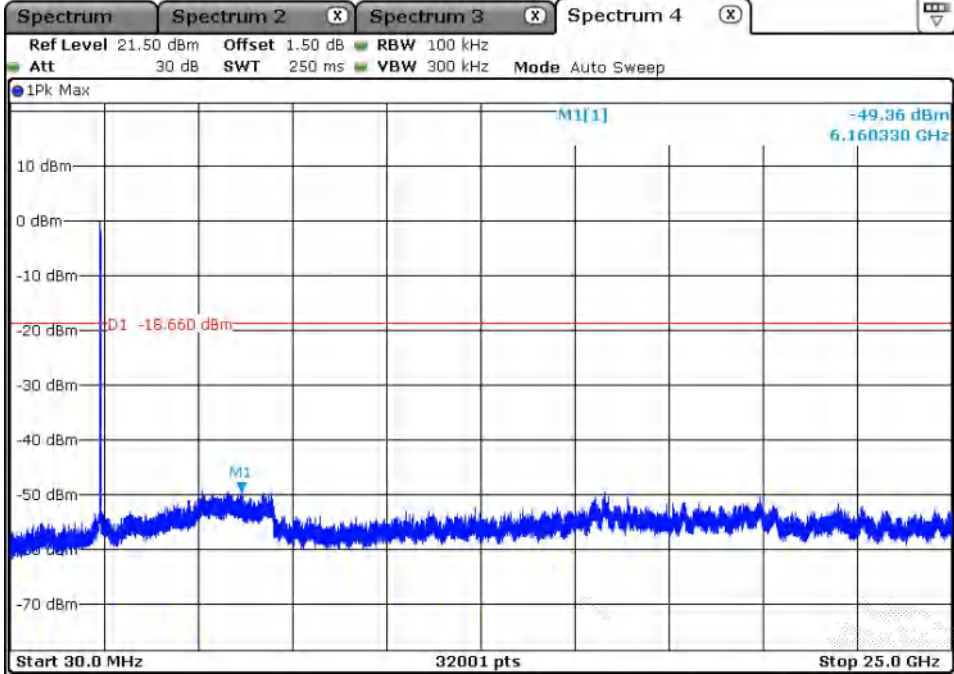


High Channel:

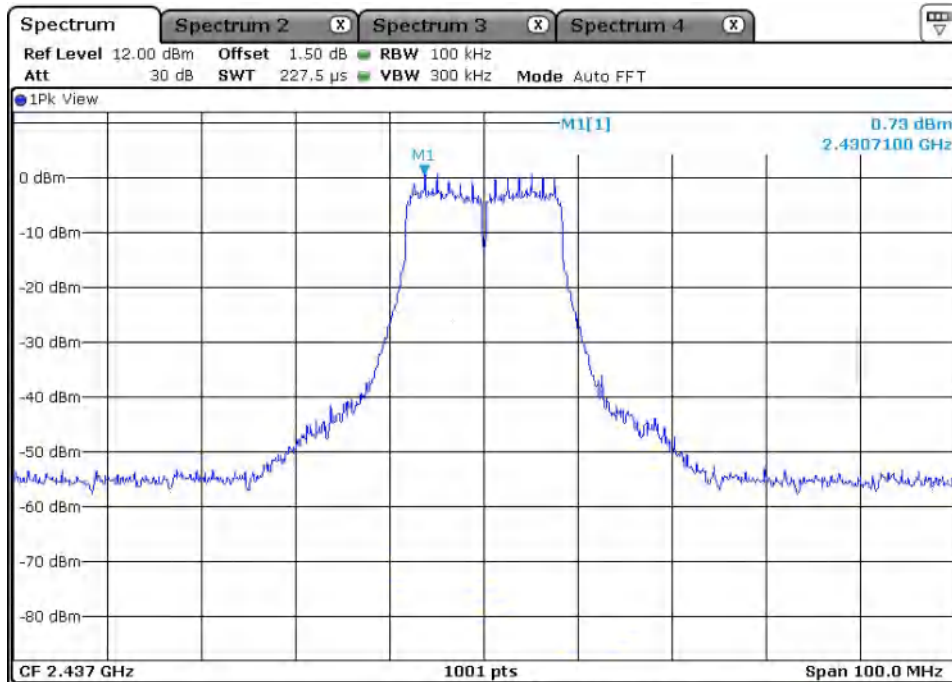
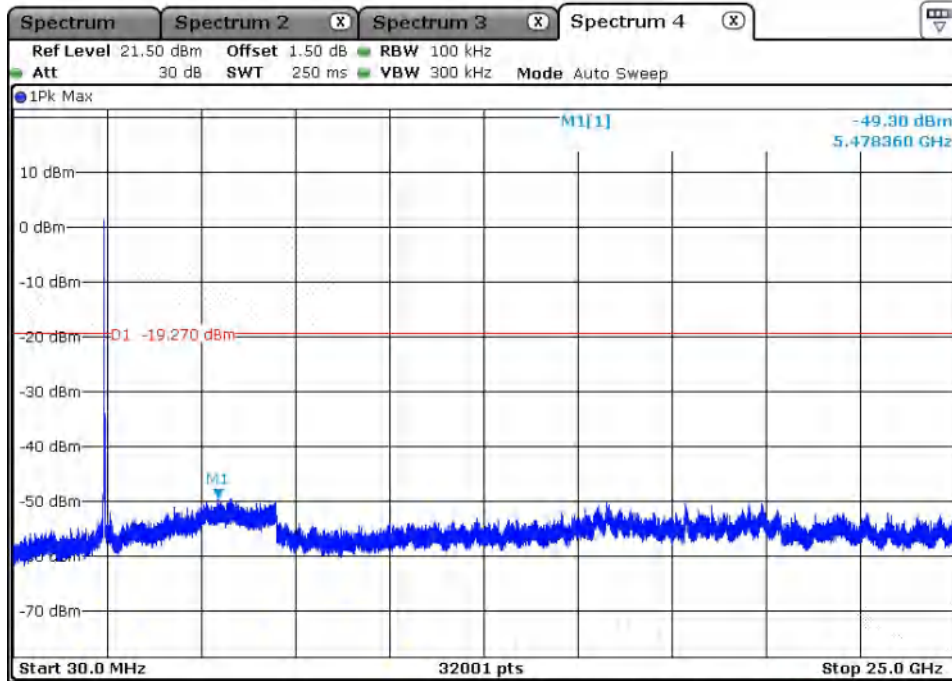


Wi-Fi 802.11 g mode, Conducted Spurious Emission

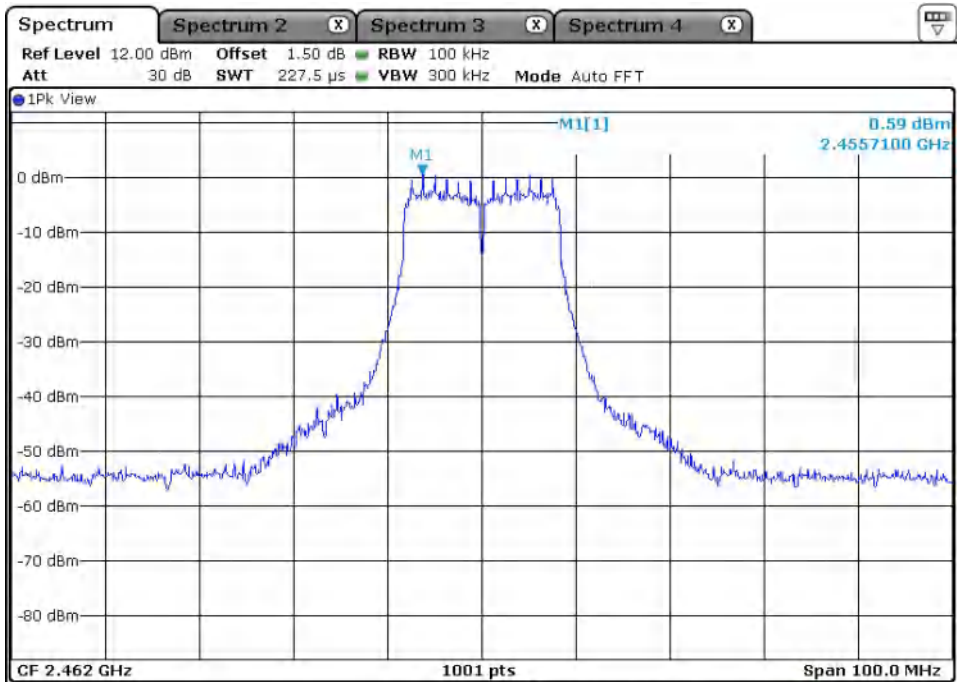
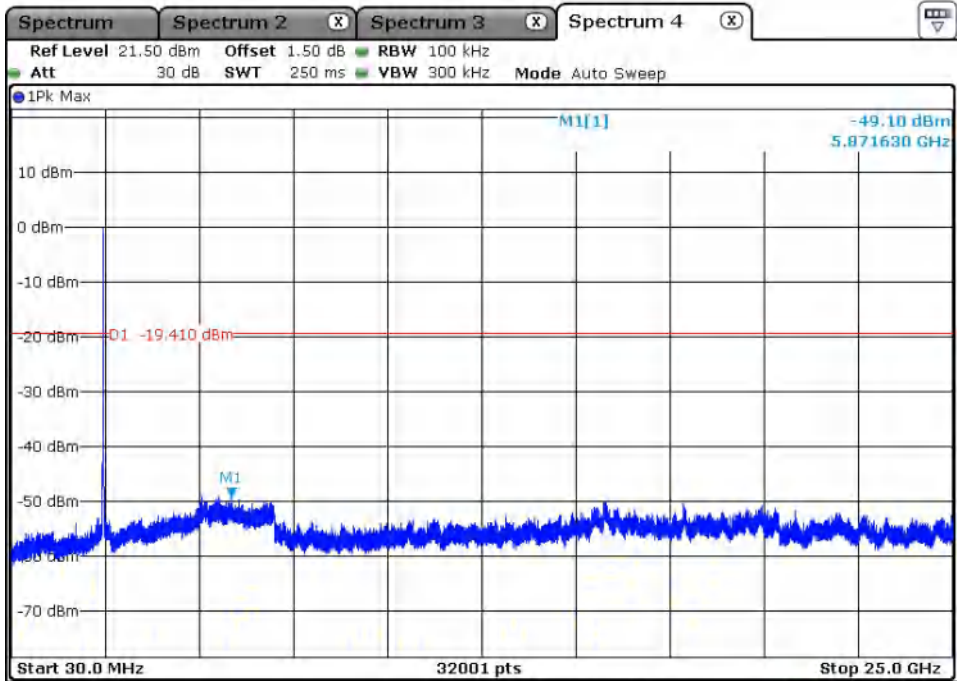
Low Channel:



Middle Channel:

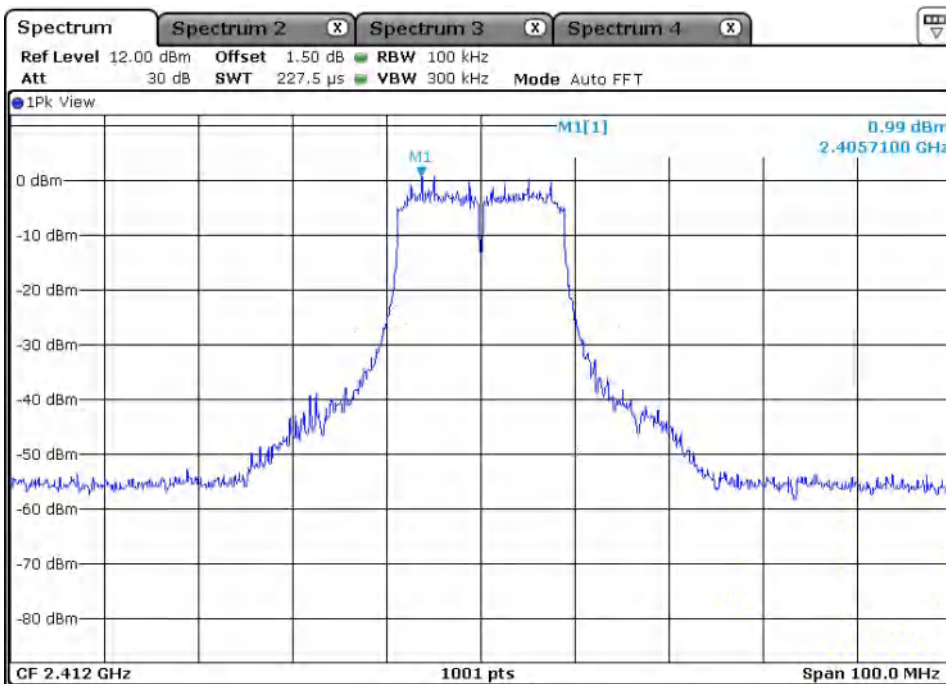
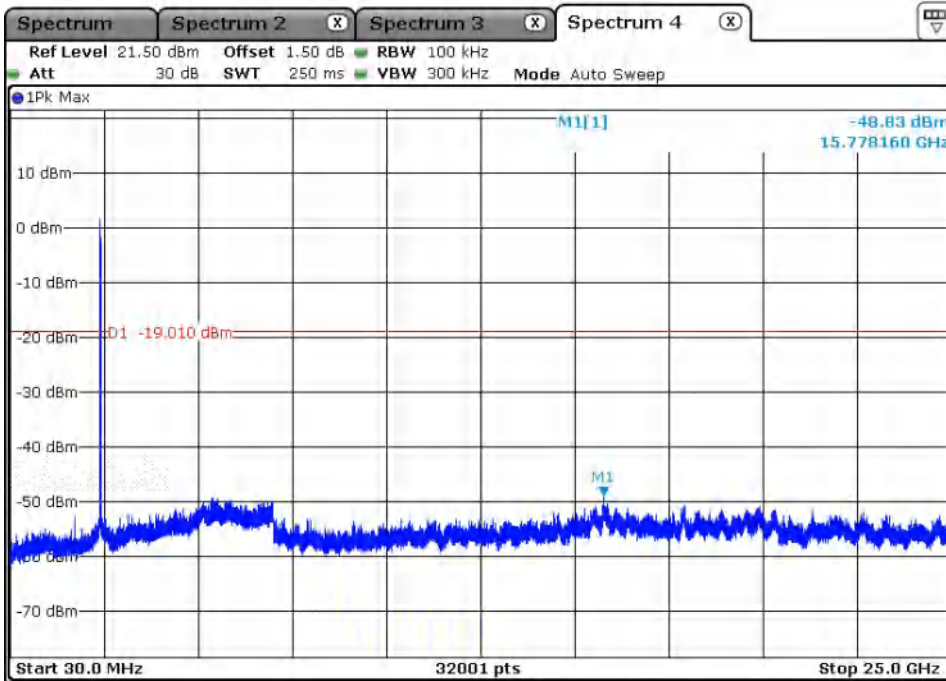


High Channel:

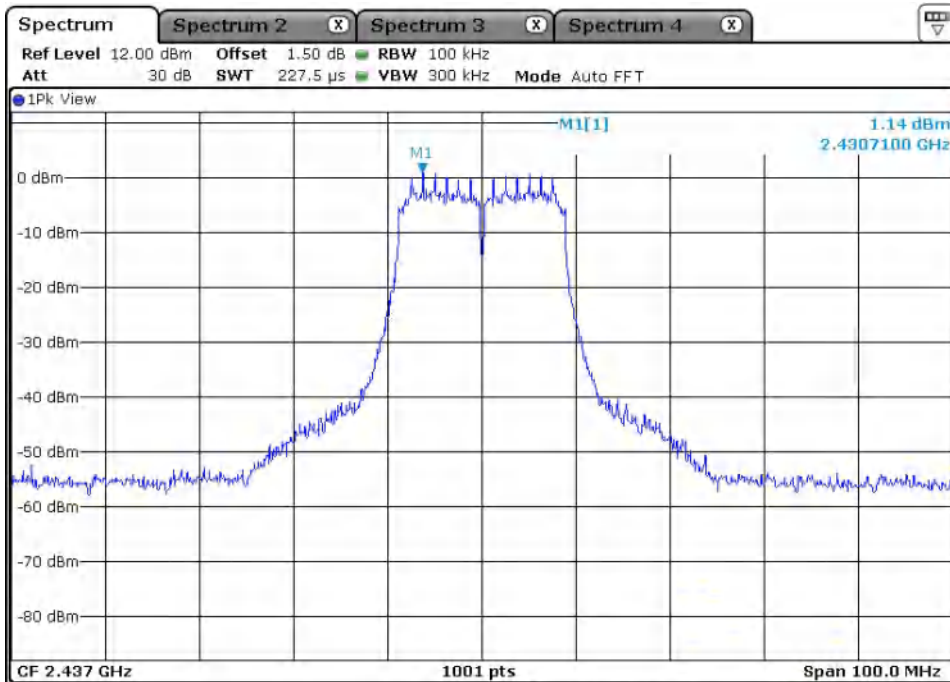
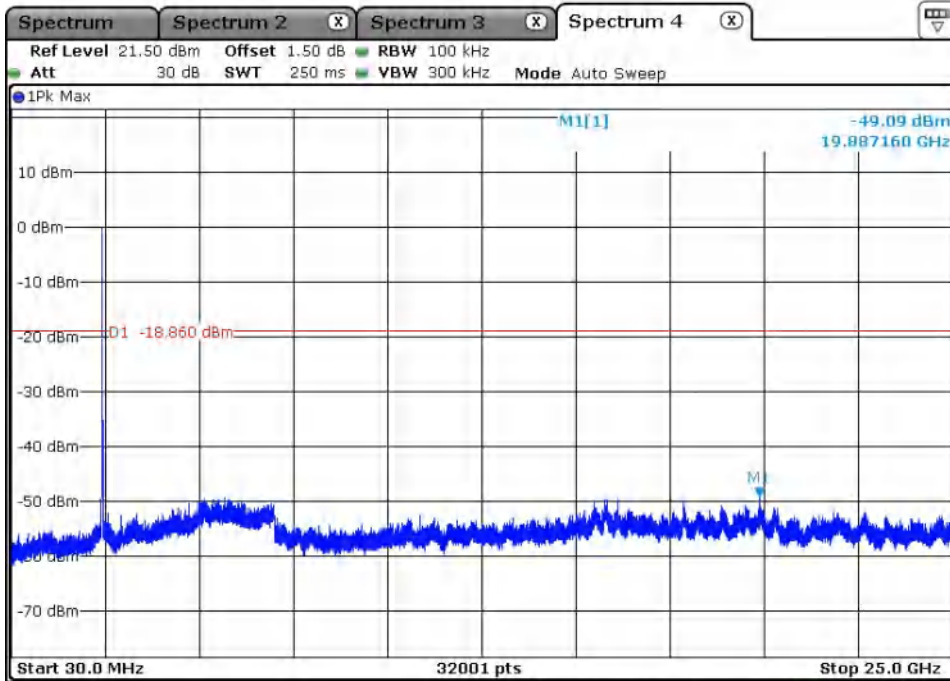


Wi-Fi 802.11 n(HT20) mode, Conducted Spurious Emission

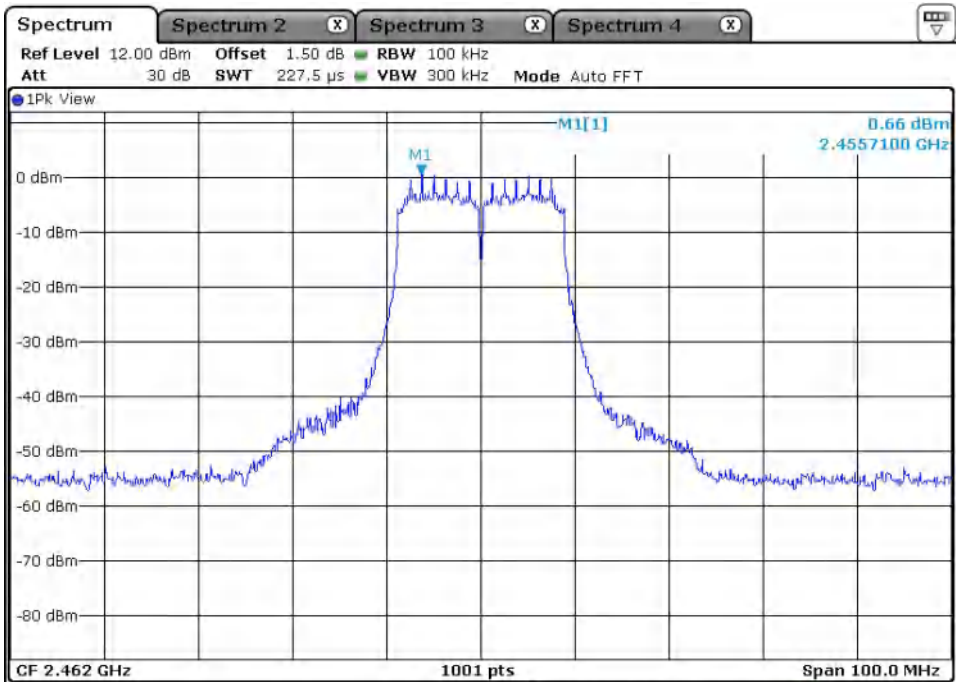
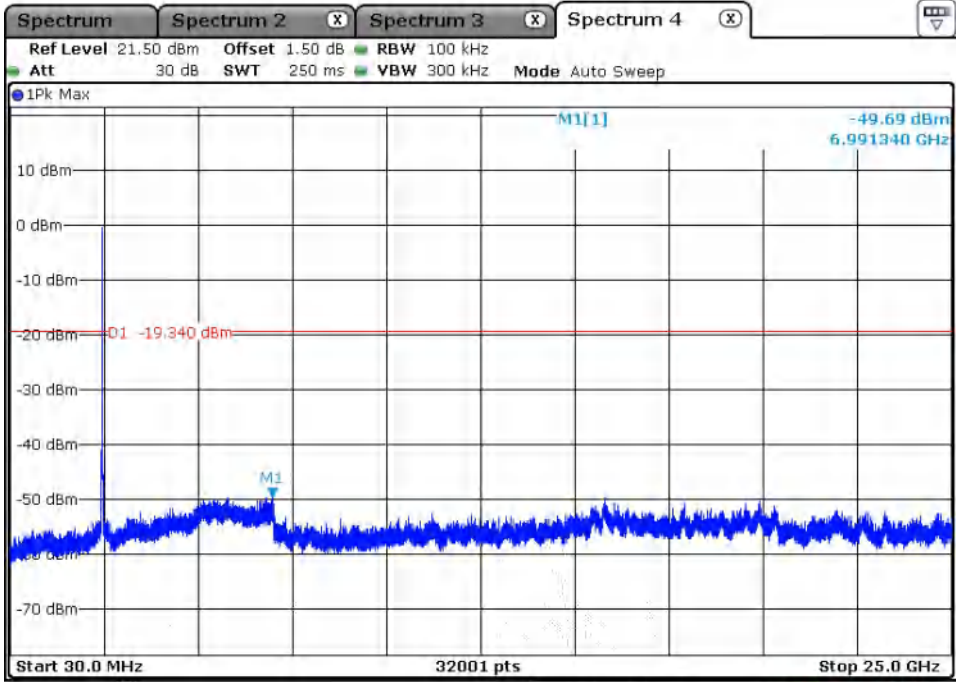
Low Channel:



Middle Channel:

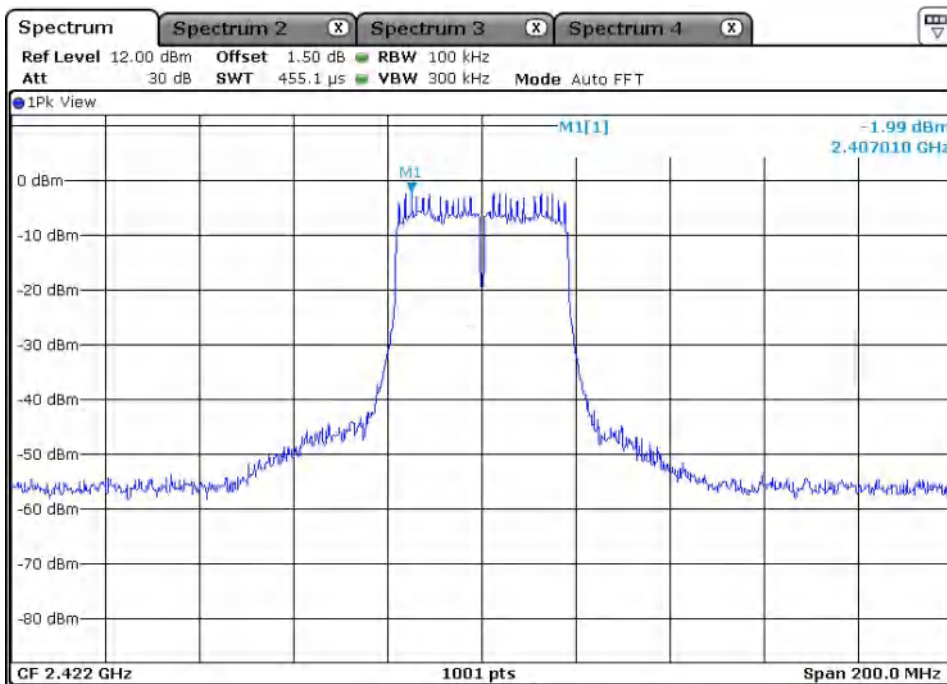
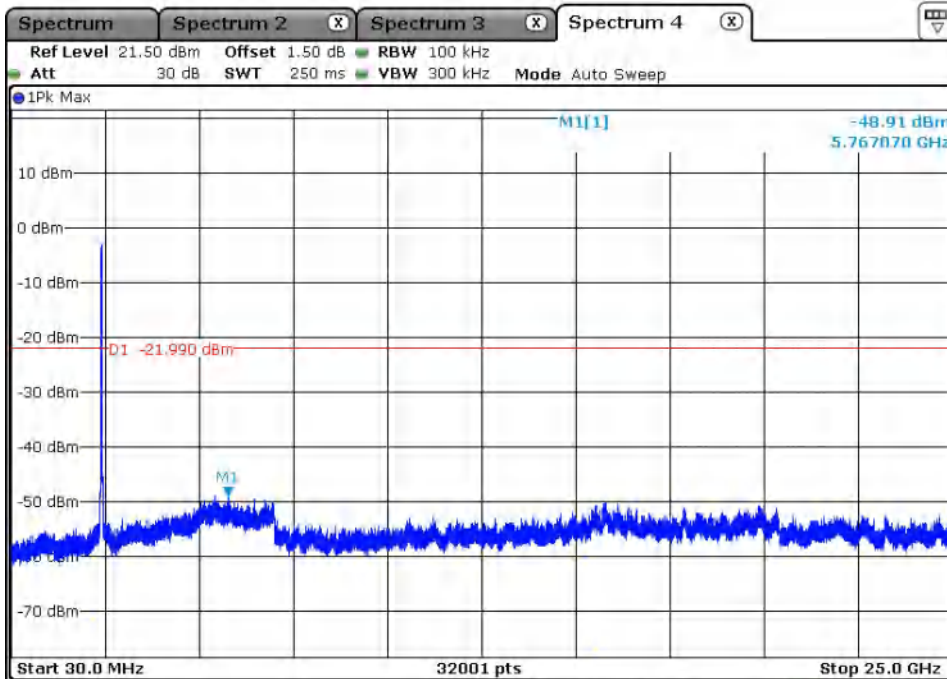


High Channel:

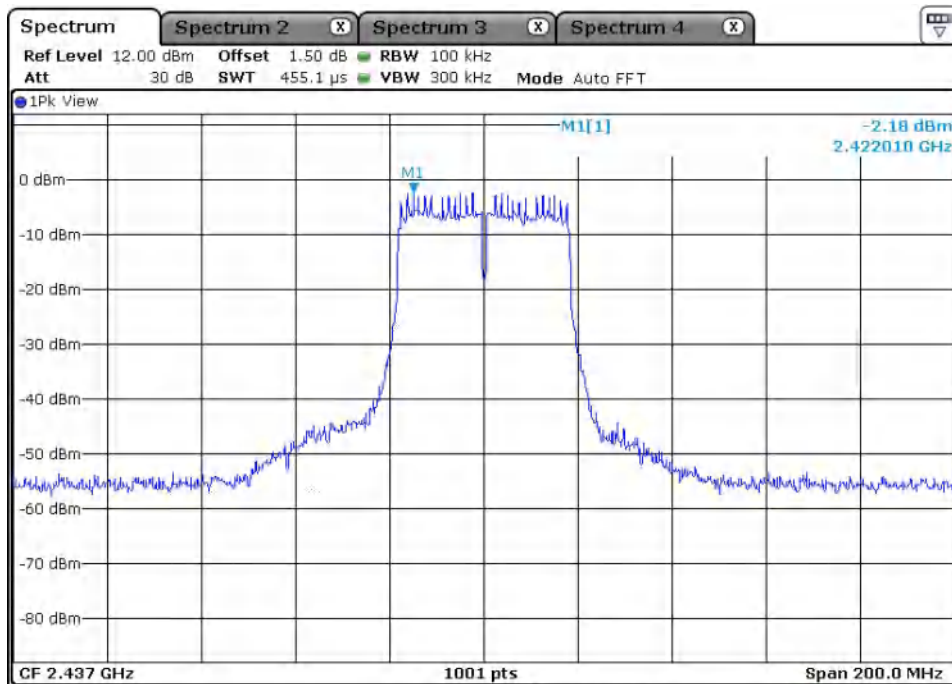
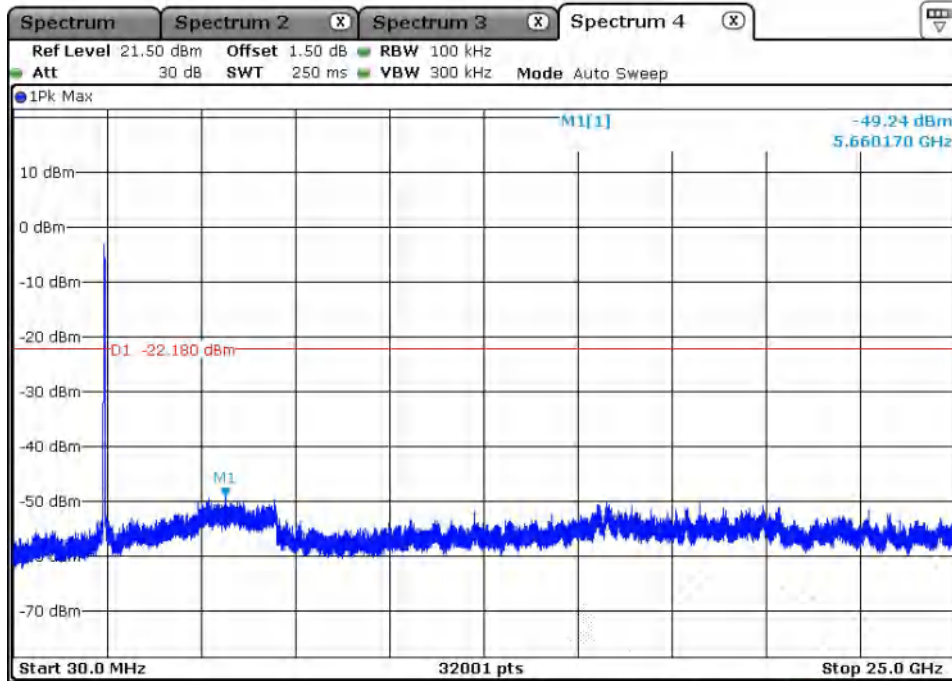


Wi-Fi 802.11 n(HT40) mode, Conducted Spurious Emission

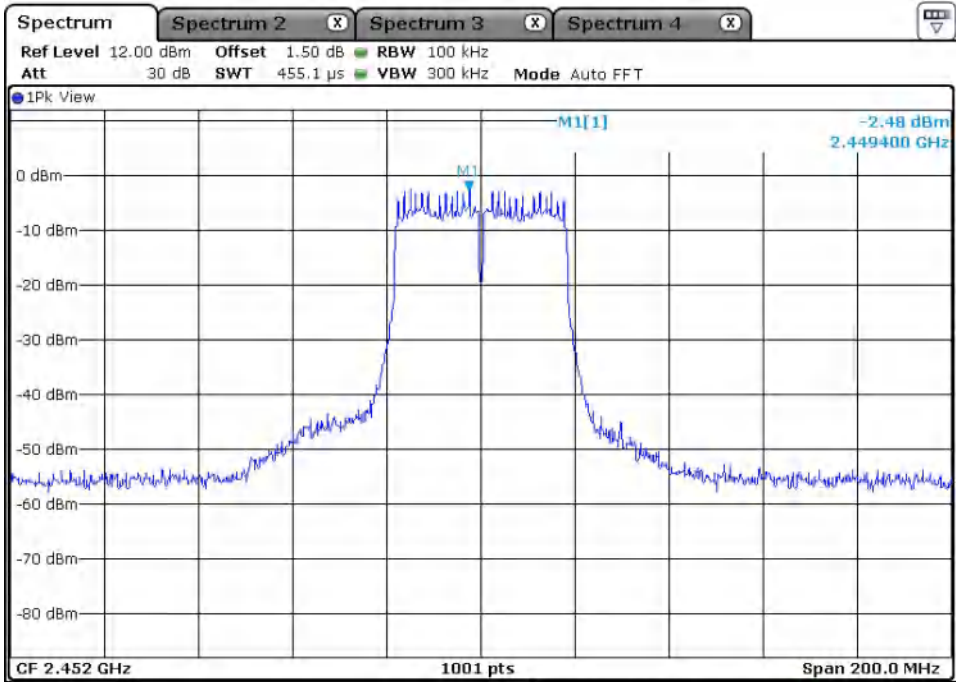
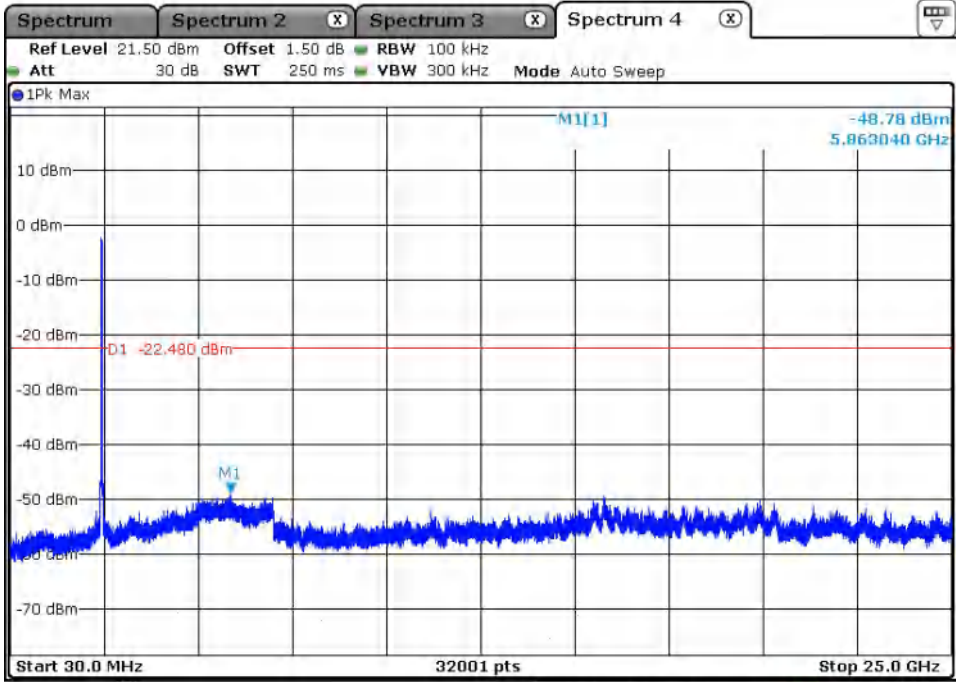
Low Channel:



Middle Channel:



High Channel:



Appendix B.5: Test Results of Radiated Spurious Emissions

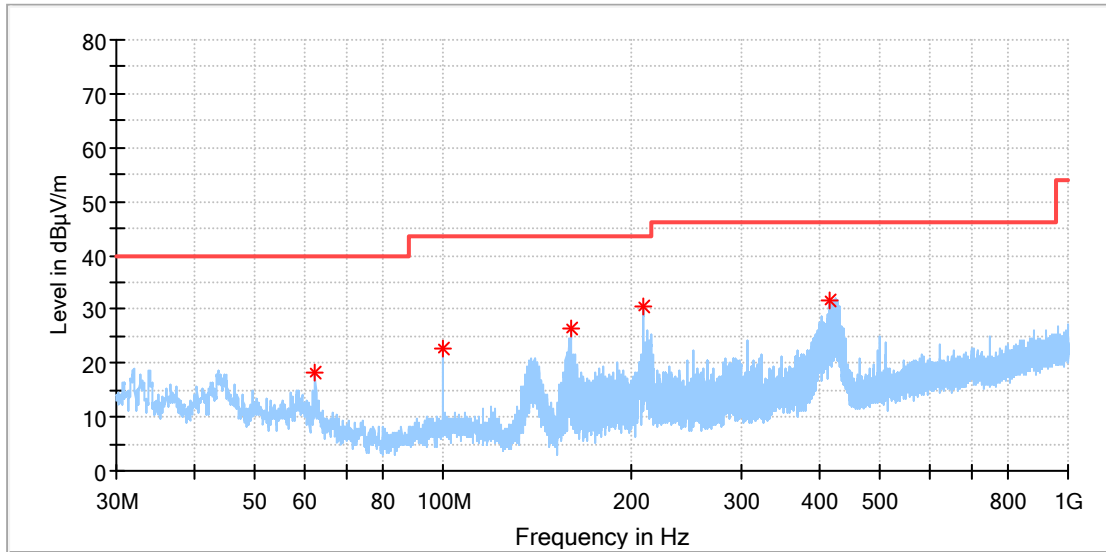
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11B_Ch6
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

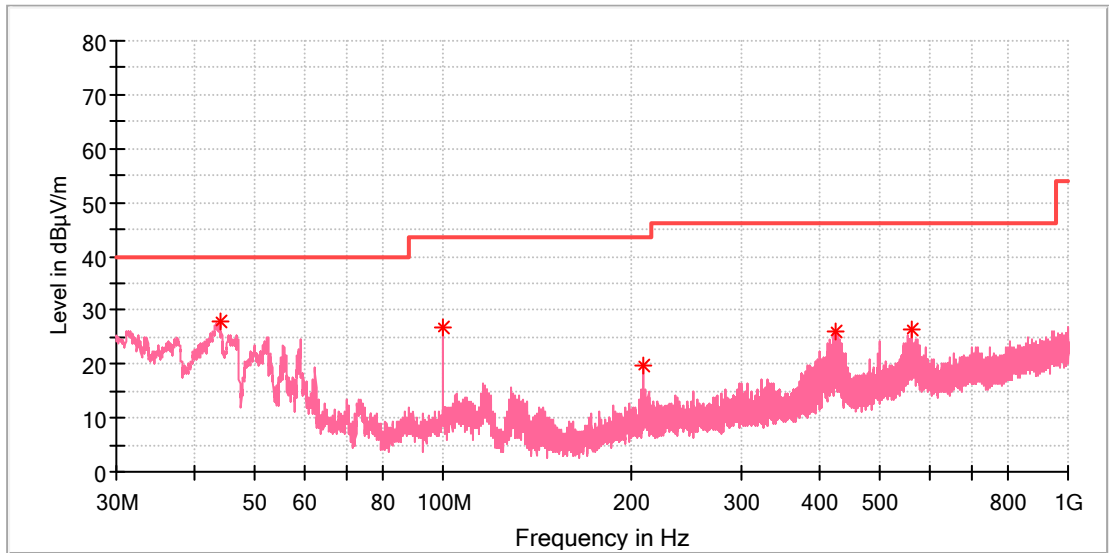


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
62.495000	18.28	40.00	21.72	100.0	H	219.0	-19.9
99.989231	22.64	43.50	20.86	100.0	H	268.0	-19.3
159.756154	26.26	43.50	17.24	100.0	H	50.0	-22.0
209.002308	30.60	43.50	12.90	100.0	H	227.0	-19.2
414.493077	31.56	46.00	14.44	100.0	H	341.0	-13.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11B_Ch6
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin



Critical Freqs

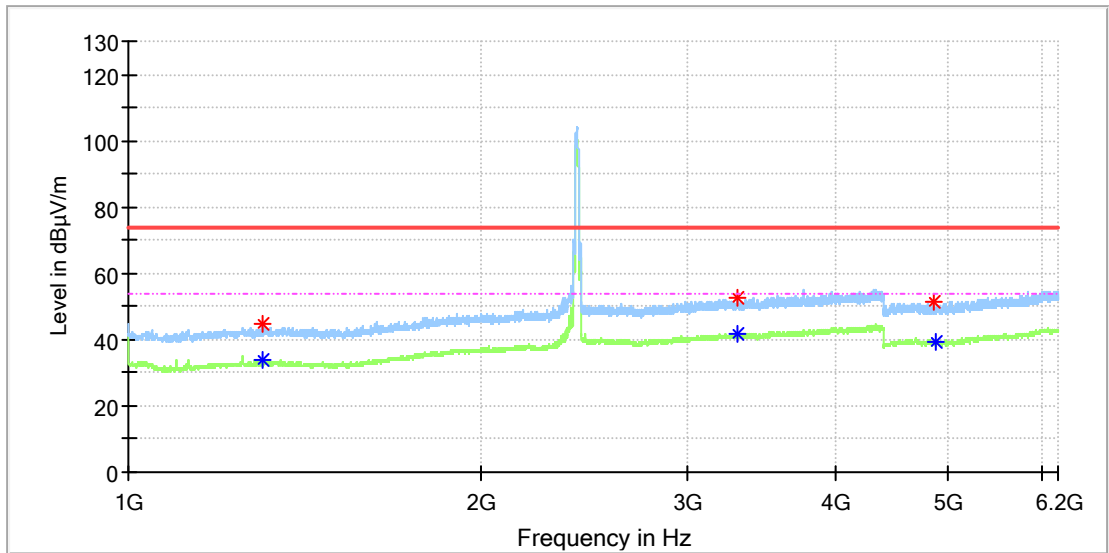
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.027692	28.03	40.00	11.97	100.0	V	79.0	-19.3
99.989231	26.91	43.50	16.59	100.0	V	310.0	-19.3
208.890385	19.81	43.50	23.69	100.0	V	334.0	-19.2
425.200385	26.10	46.00	19.90	100.0	V	137.0	-13.7
561.000385	26.33	46.00	19.67	100.0	V	182.0	-10.9

1GHz - 18GHz

Note: The highest waveform in the figure is Wi-Fi Fundamental.

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11B_Ch6
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

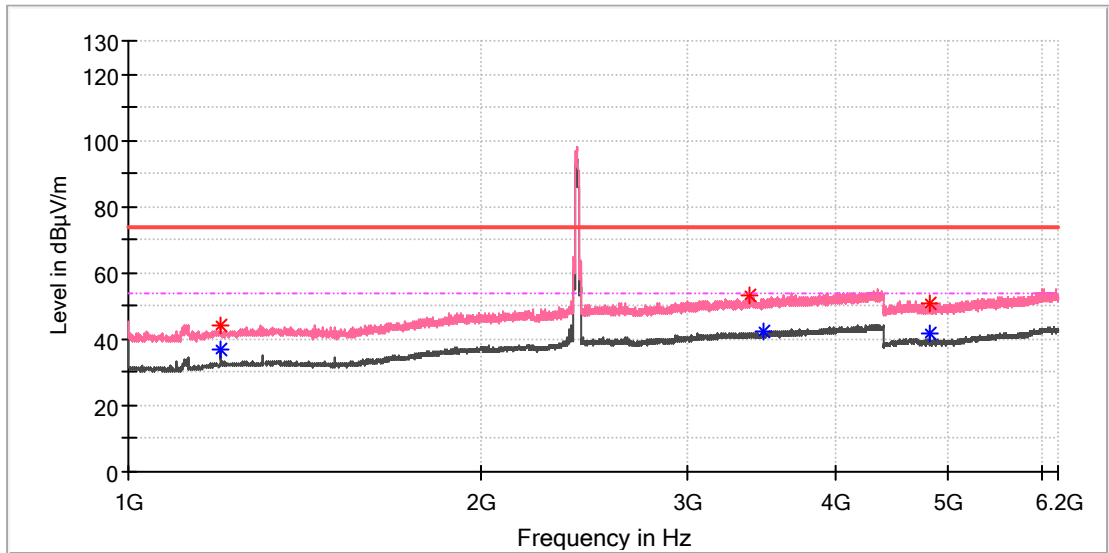


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1299.000000	44.74	---	74.00	29.26	150.0	H	0.0	1.9
1300.000000	---	33.76	54.00	20.24	150.0	H	340.0	1.9
3302.000000	52.38	---	74.00	21.62	150.0	H	241.0	8.6
3308.000000	---	41.70	54.00	12.30	150.0	H	224.0	8.6
4857.500000	51.26	---	74.00	22.74	150.0	H	98.0	11.8
4870.000000	---	39.44	54.00	14.56	150.0	H	33.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11B_Ch6
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

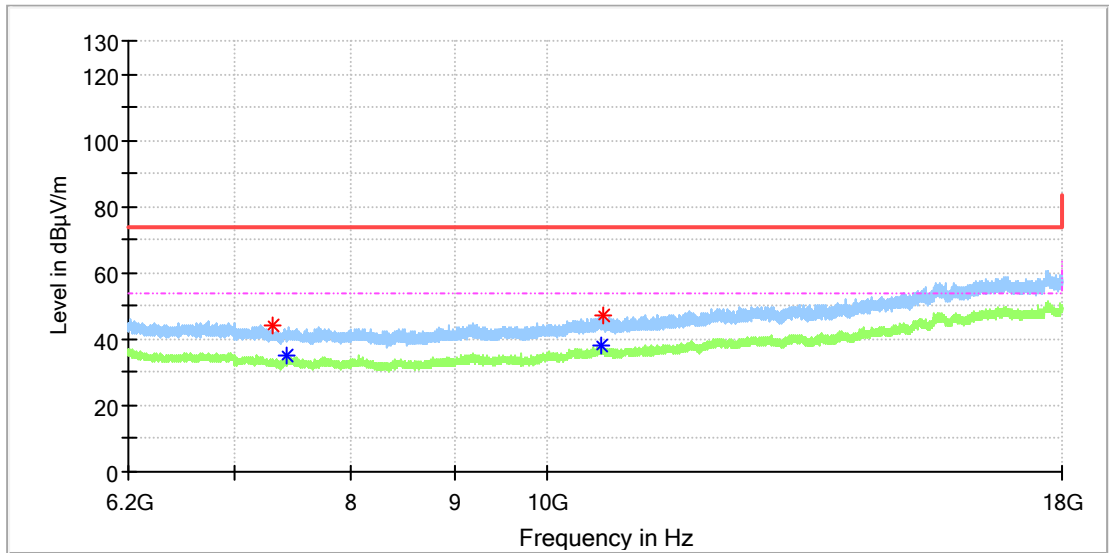


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.000000	---	36.87	54.00	17.13	150.0	V	198.0	1.1
1200.000000	44.05	---	74.00	29.95	150.0	V	198.0	1.1
3385.000000	52.95	---	74.00	21.05	150.0	V	277.0	8.7
3484.500000	---	42.33	54.00	11.67	150.0	V	0.0	8.9
4824.000000	---	41.64	54.00	12.36	150.0	V	198.0	11.8
4825.000000	50.87	---	74.00	23.13	150.0	V	187.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11B_Ch6
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

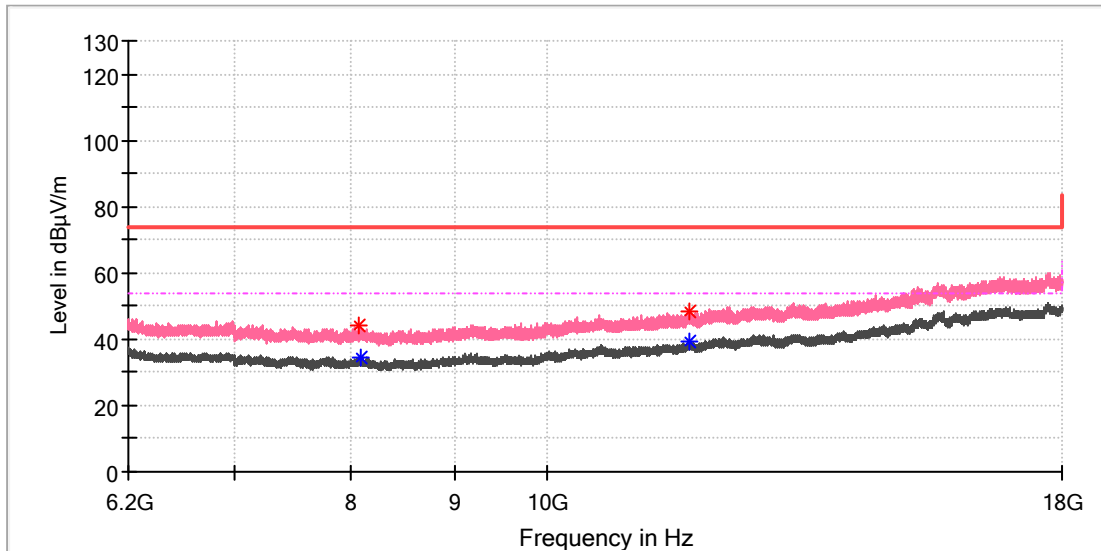


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7304.775000	44.08	---	74.00	29.92	150.0	H	90.0	8.3
7424.741667	---	34.82	54.00	19.18	150.0	H	296.0	8.4
10629.916667	---	38.06	54.00	15.94	150.0	H	296.0	12.0
10667.283333	47.28	---	74.00	26.72	150.0	H	136.0	11.9

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11B_Ch6
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

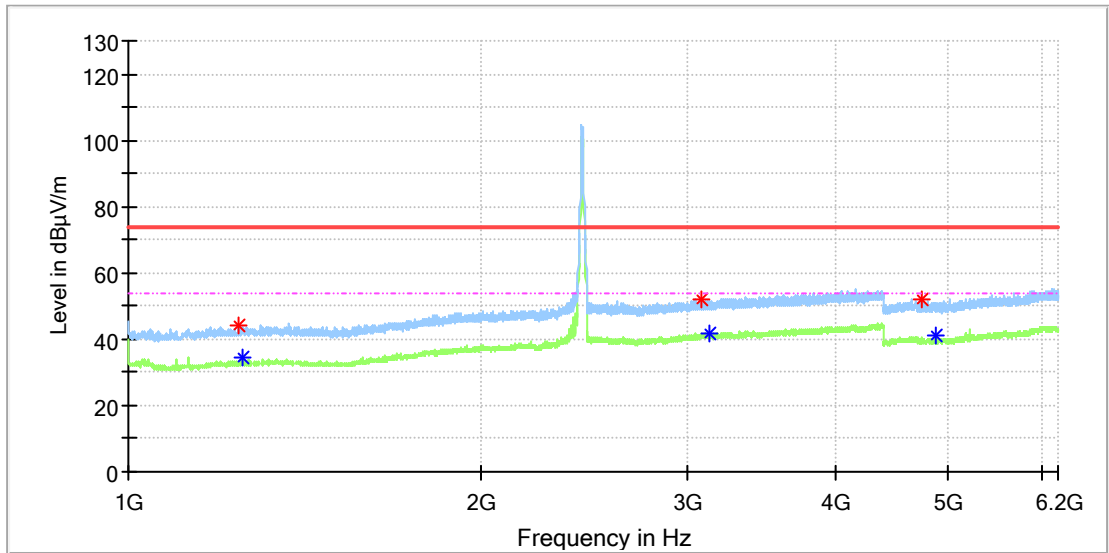


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8070.300000	44.12	---	74.00	29.88	150.0	V	126.0	8.9
8086.033333	---	34.53	54.00	19.47	150.0	V	318.0	8.9
11767.141667	---	39.54	54.00	14.46	150.0	V	249.0	13.4
11775.008333	48.43	---	74.00	25.57	150.0	V	168.0	13.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11B_Ch6
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

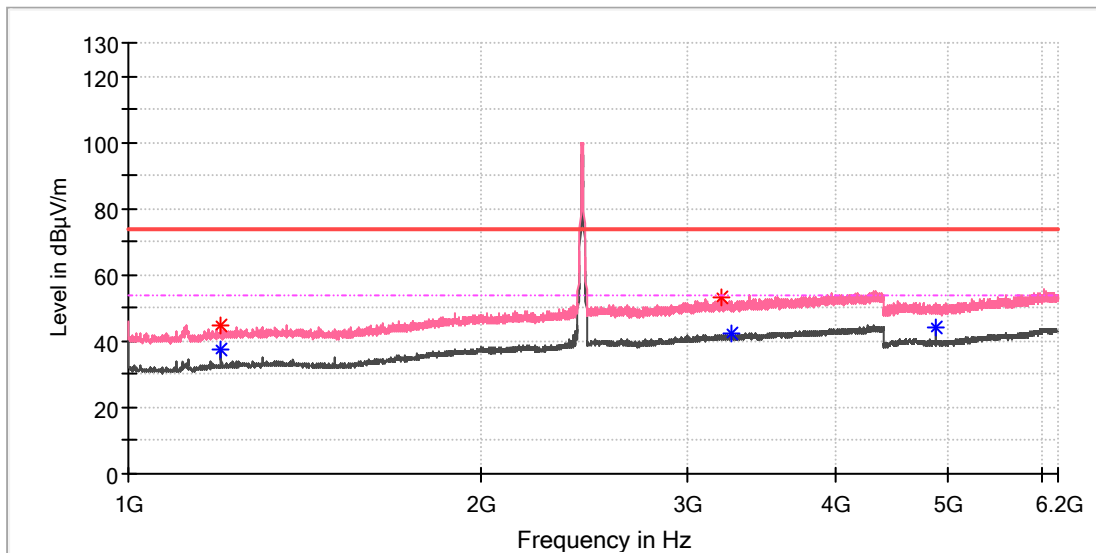


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1242.500000	43.84	---	74.00	30.16	150.0	H	137.0	1.8
1250.000000	---	34.42	54.00	19.58	150.0	H	211.0	1.9
3084.000000	52.26	---	74.00	21.74	150.0	H	239.0	8.6
3130.000000	---	41.49	54.00	12.51	150.0	H	256.0	8.6
4747.000000	52.30	---	74.00	21.70	150.0	H	74.0	11.9
4874.000000	---	41.38	54.00	12.62	150.0	H	250.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11B_Ch6
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

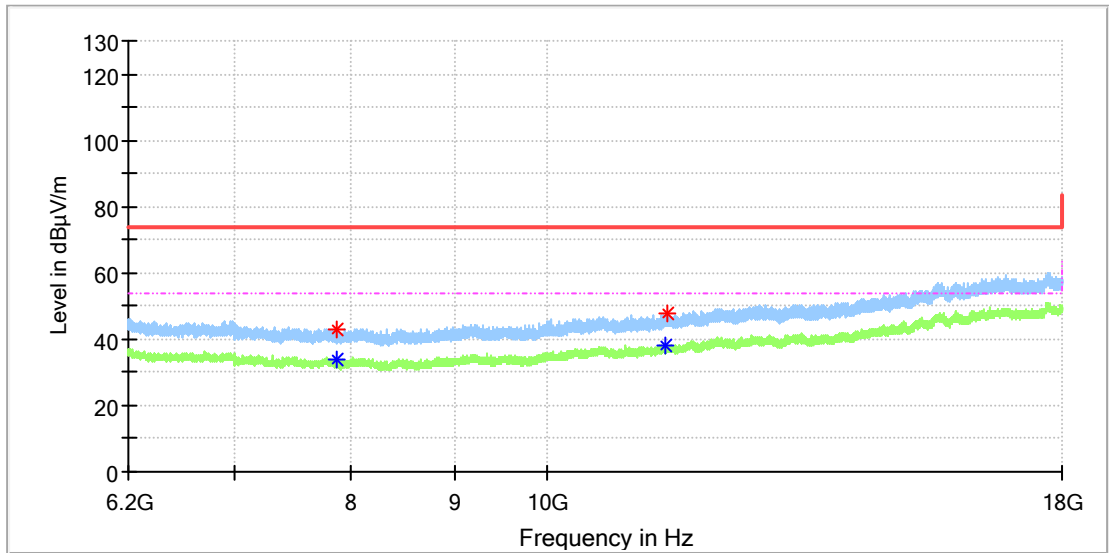


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.000000	---	37.36	54.00	16.64	150.0	V	226.0	1.1
1200.000000	44.56	---	74.00	29.44	150.0	V	226.0	1.1
3200.000000	52.98	---	74.00	21.02	150.0	V	128.0	8.6
3262.500000	---	42.24	54.00	11.76	150.0	V	100.0	8.5
4874.000000	---	44.04	54.00	9.96	150.0	V	180.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11B_Ch6
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

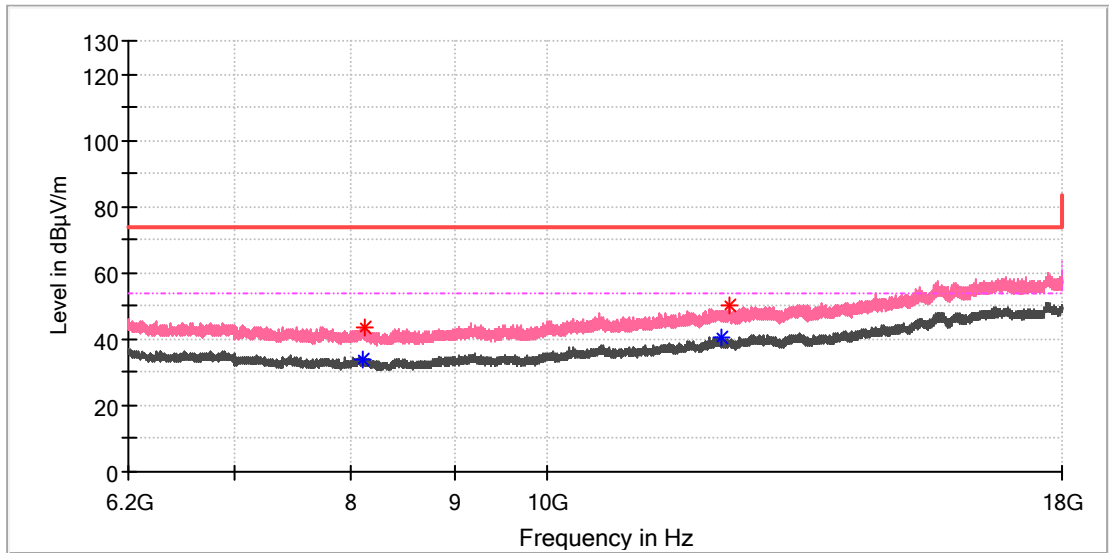


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7869.700000	43.16	---	74.00	30.84	150.0	H	269.0	8.6
7872.650000	---	33.61	54.00	20.39	150.0	H	332.0	8.6
11453.458333	---	38.19	54.00	15.81	150.0	H	215.0	13.4
11476.075000	47.98	---	74.00	26.02	150.0	H	300.0	13.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11B_Ch6
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

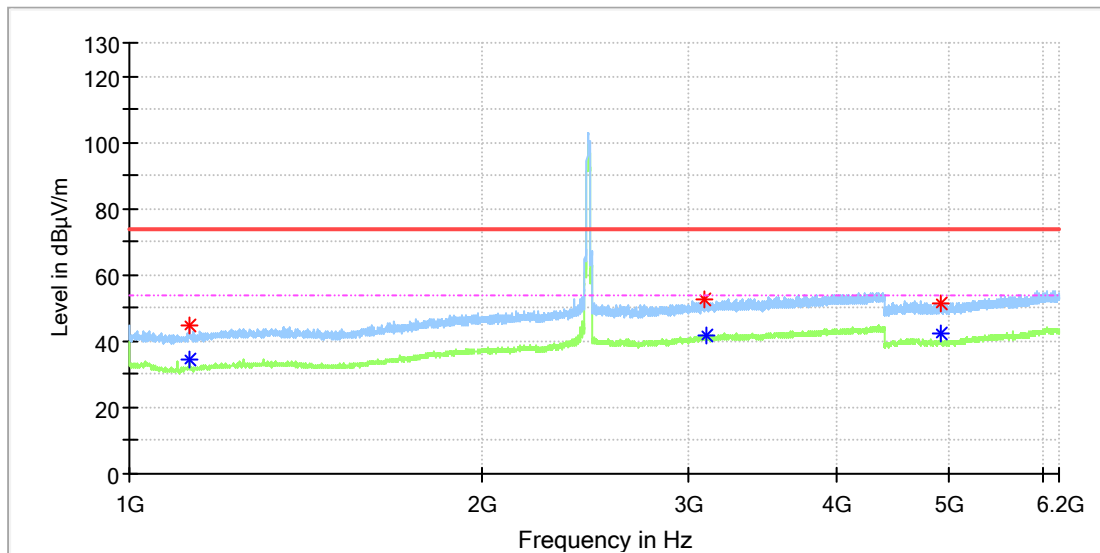


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8100.783333	---	33.95	54.00	20.05	150.0	V	0.0	8.9
8122.416667	43.53	---	74.00	30.47	150.0	V	343.0	8.9
12212.100000	---	40.79	54.00	13.21	150.0	V	136.0	14.7
12304.041667	49.89	---	74.00	24.11	150.0	V	84.0	14.9

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11B_Ch11
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

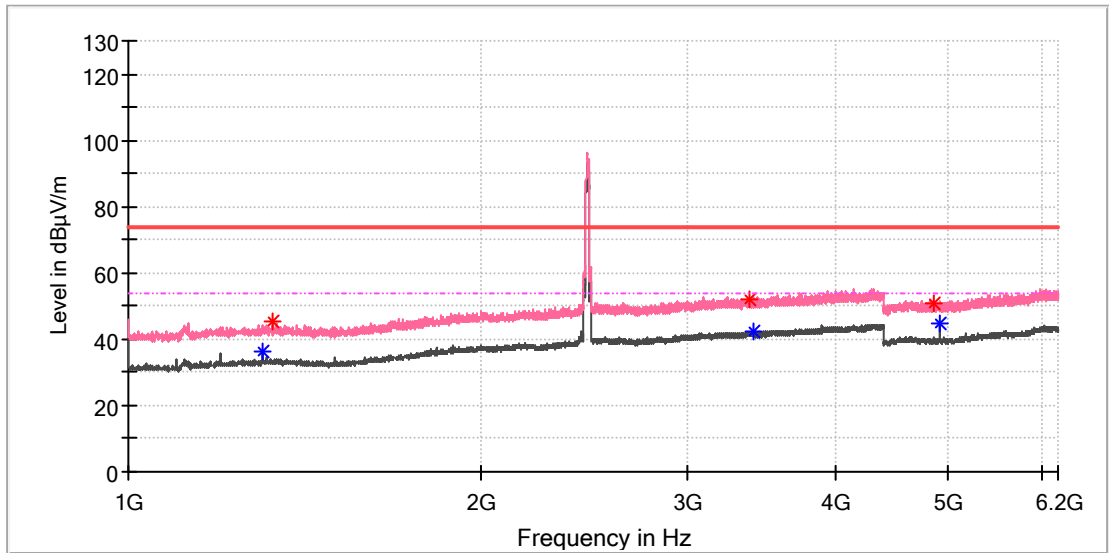


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1124.500000	---	34.40	54.00	19.60	150.0	H	316.0	0.3
1124.500000	44.51	---	74.00	29.49	150.0	H	316.0	0.3
3095.000000	52.46	---	74.00	21.54	150.0	H	130.0	8.7
3099.500000	---	41.44	54.00	12.56	150.0	H	124.0	8.7
4913.000000	51.23	---	74.00	22.77	150.0	H	237.0	11.8
4924.000000	---	42.36	54.00	11.64	150.0	H	159.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11B_Ch11
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

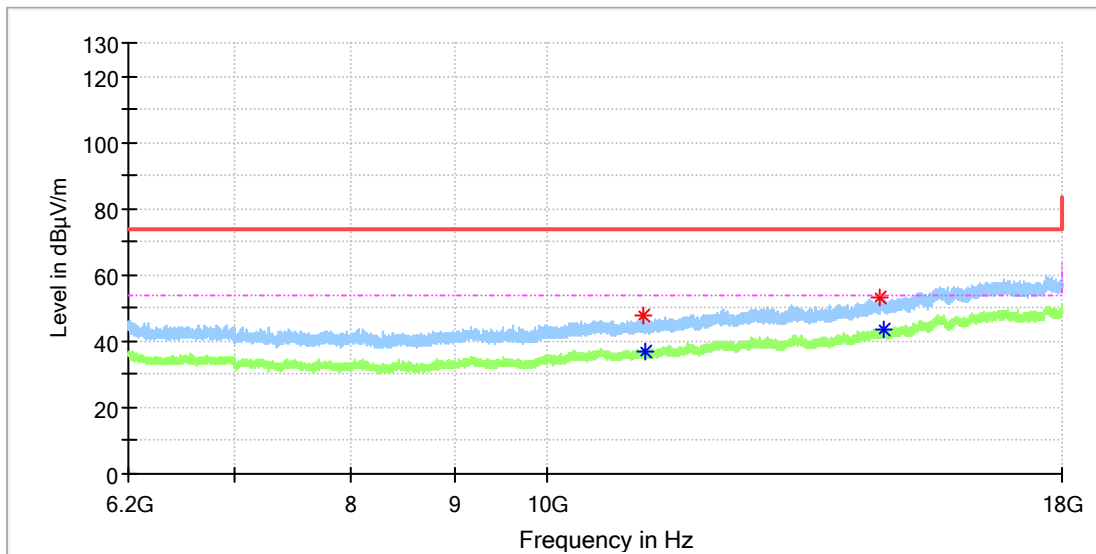


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1299.500000	---	36.35	54.00	17.65	150.0	V	265.0	1.9
1329.500000	45.13	---	74.00	28.87	150.0	V	311.0	2.0
3378.500000	52.20	---	74.00	21.80	150.0	V	175.0	8.6
3407.500000	---	42.39	54.00	11.61	150.0	V	136.0	8.7
4857.000000	51.06	---	74.00	22.94	150.0	V	142.0	11.8
4924.000000	---	44.82	54.00	9.18	150.0	V	181.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11B_Ch11
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

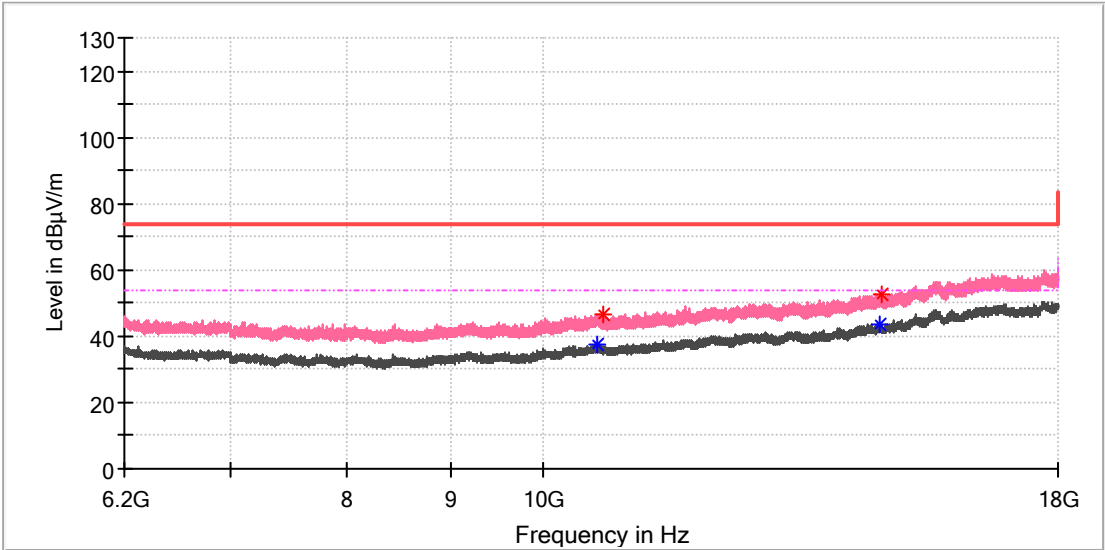


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11149.608333	47.64	---	74.00	26.36	150.0	H	44.0	12.5
11184.516667	---	37.03	54.00	16.97	150.0	H	129.0	12.6
14631.100000	53.29	---	74.00	20.71	150.0	H	341.0	17.2
14695.508333	---	43.65	54.00	10.35	150.0	H	275.0	17.0

EUT Information

EUT Name: LEGEND 700 HEAD UNIT
 Model: JBLLEGEND700
 Test Mode: WIFI 2.4G_11B_Ch11
 Order No/Sample No: 168492002/A003757812-006
 Test Voltage:: DC 12V From DC Source
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.407
 Tested By: Lich Chen
 Reviewed By: Terry Yin



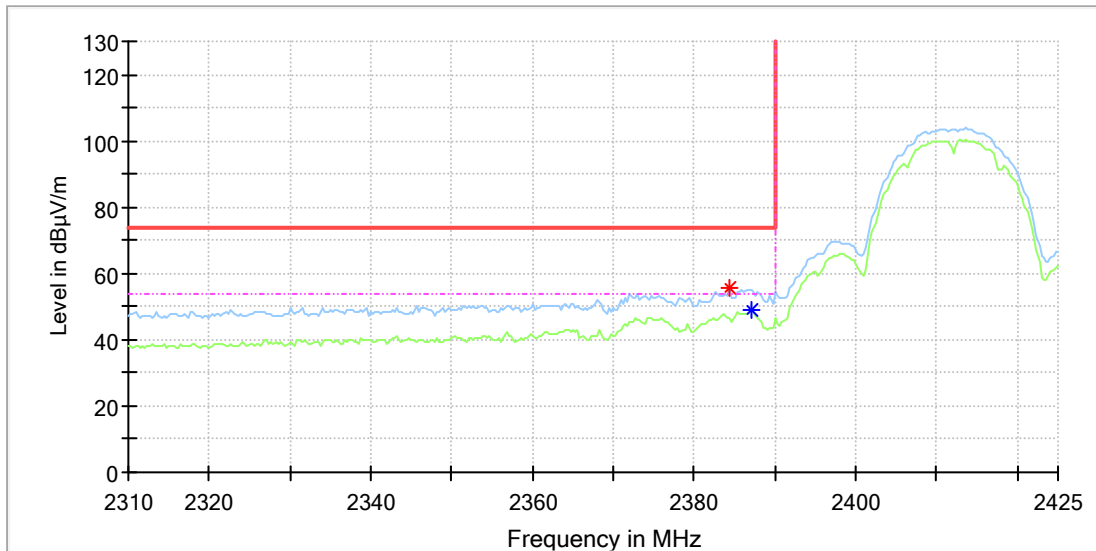
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10647.616667	---	37.54	54.00	16.46	150.0	V	203.0	12.0
10707.108333	46.63	---	74.00	27.37	150.0	V	349.0	11.9
14676.333333	---	43.79	54.00	10.21	150.0	V	203.0	17.1
14721.566667	52.66	---	74.00	21.34	150.0	V	290.0	17.0

Appendix B.6: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11B_Ch6
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

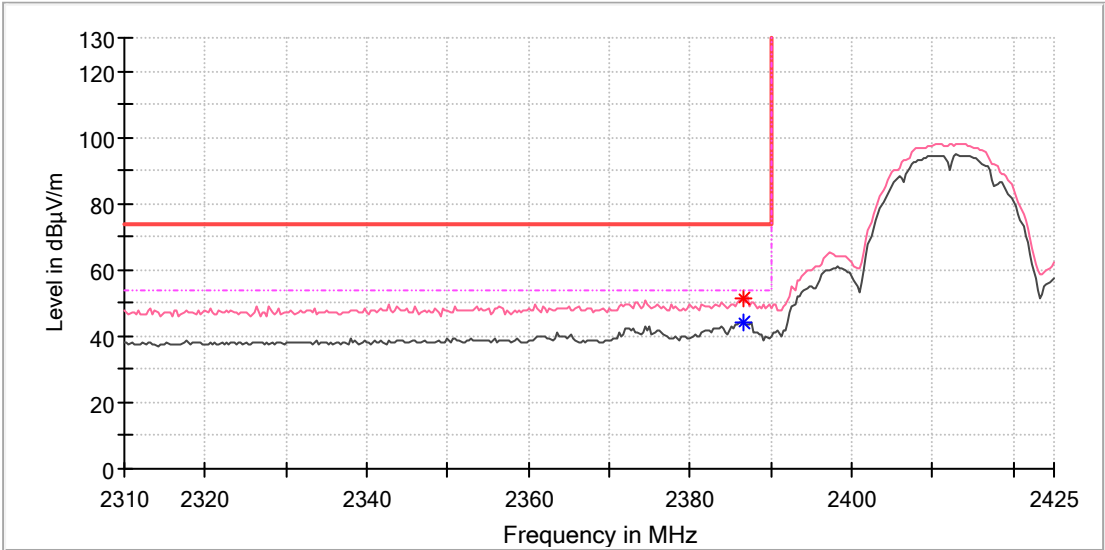


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2384.411765	55.68	---	74.00	18.32	150.0	H	171.0	7.0
2387.058824	---	48.81	54.00	5.19	150.0	H	229.0	7.0

EUT Information

EUT Name: LEGEND 700 HEAD UNIT
 Model: JBLLEGEND700
 Test Mode: WIFI 2.4G_11B_Ch6
 Order No/Sample No: 168492002/A003757812-006
 Test Voltage:: DC 12V From DC Source
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Lich Chen
 Reviewed By: Terry Yin

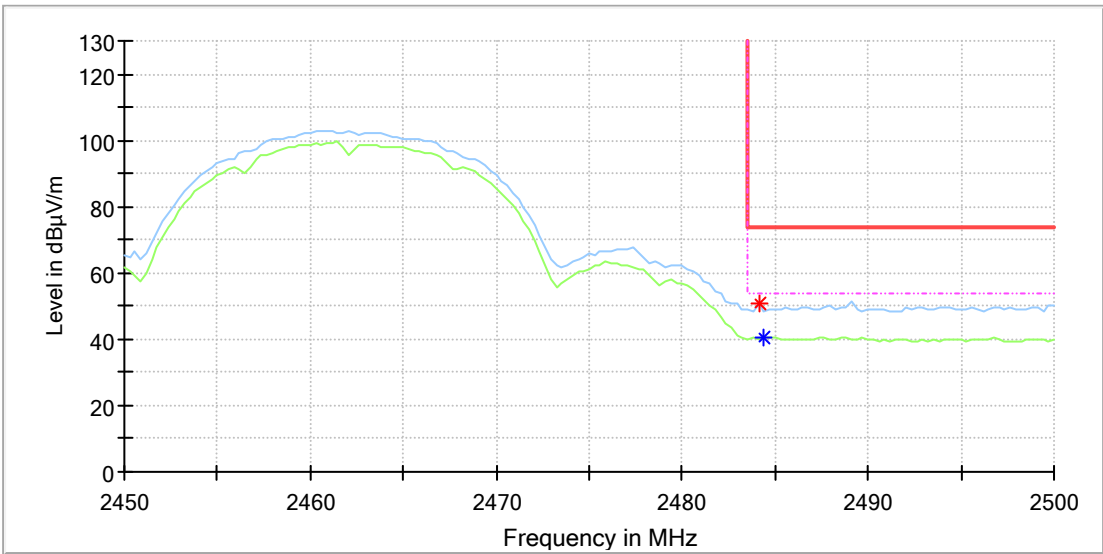


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.470588	---	44.19	54.00	9.81	150.0	V	191.0	7.0
2386.470588	51.58	---	74.00	22.42	150.0	V	191.0	7.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11B_Ch11
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

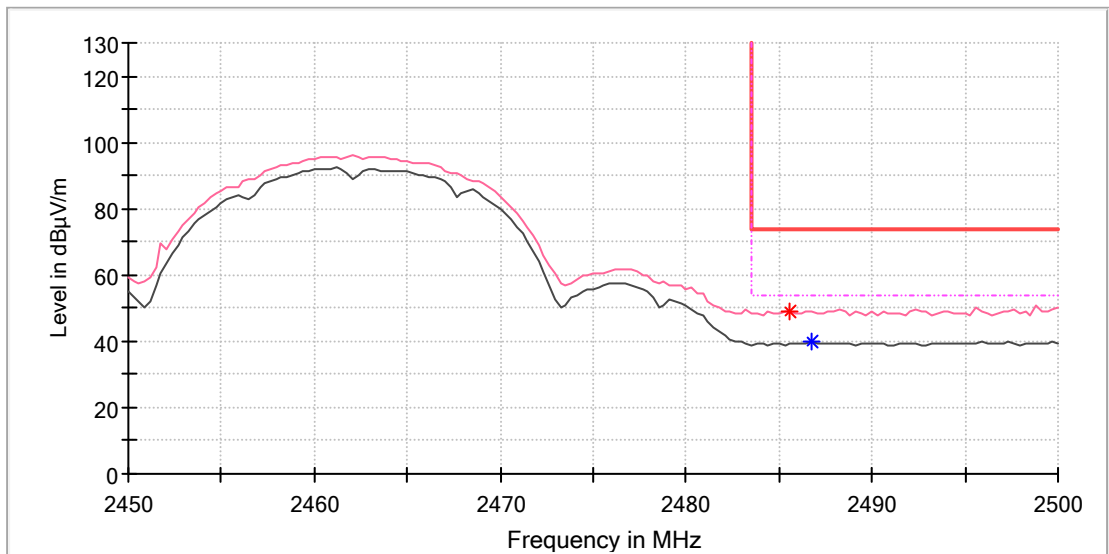


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.117647	50.54	---	74.00	23.46	150.0	H	226.0	7.4
2484.411765	---	40.42	54.00	13.58	150.0	H	212.0	7.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11B_Ch11
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

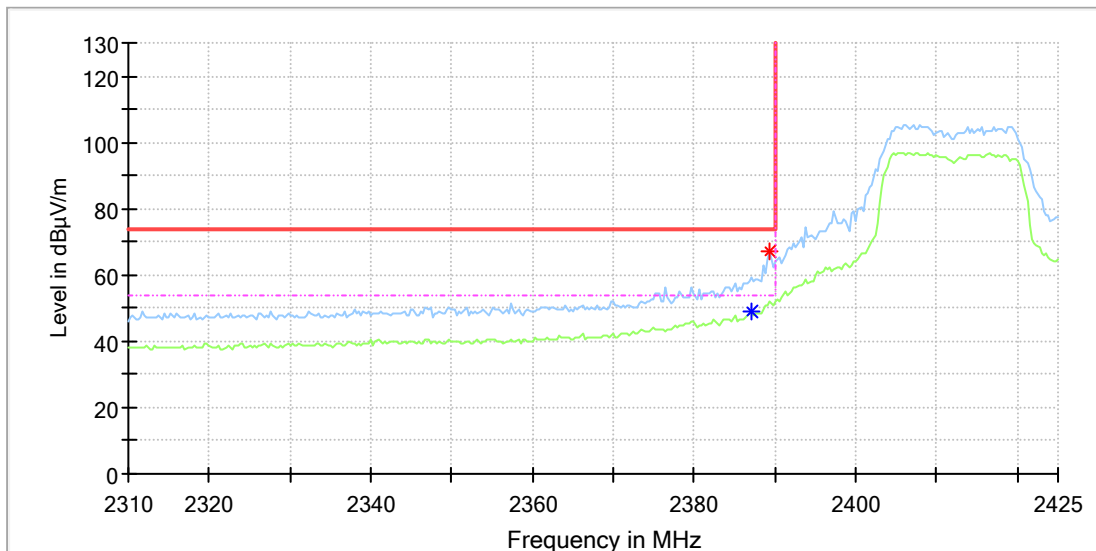


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.588235	49.12	---	74.00	24.88	150.0	V	170.0	7.4
2486.764706	---	39.77	54.00	14.23	150.0	V	259.0	7.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11G_Ch1
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

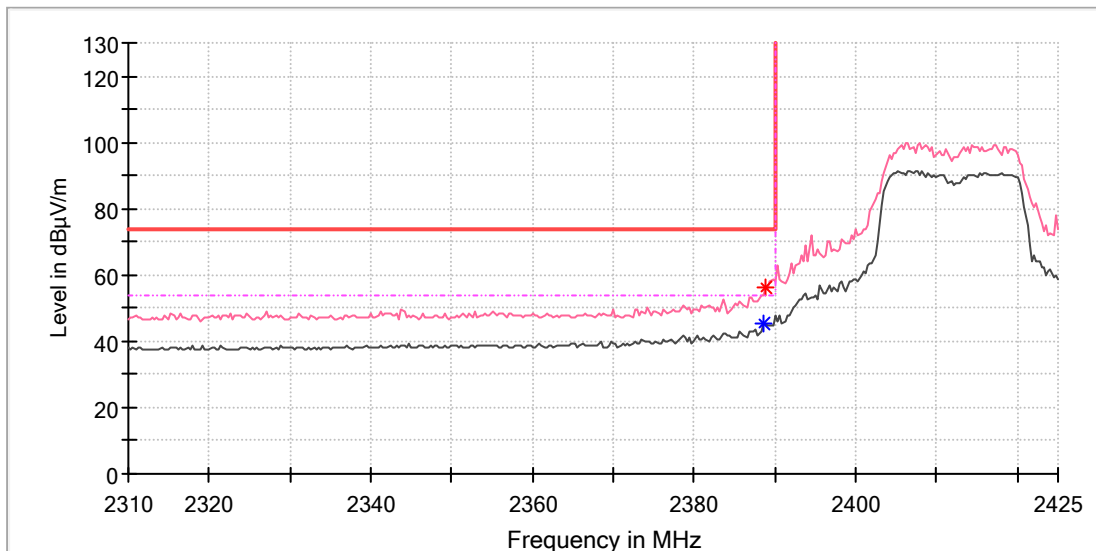


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.058824	---	49.04	54.00	4.96	150.0	H	207.0	7.0
2389.411765	66.90	---	74.00	7.10	150.0	H	178.0	7.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11G_Ch1
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

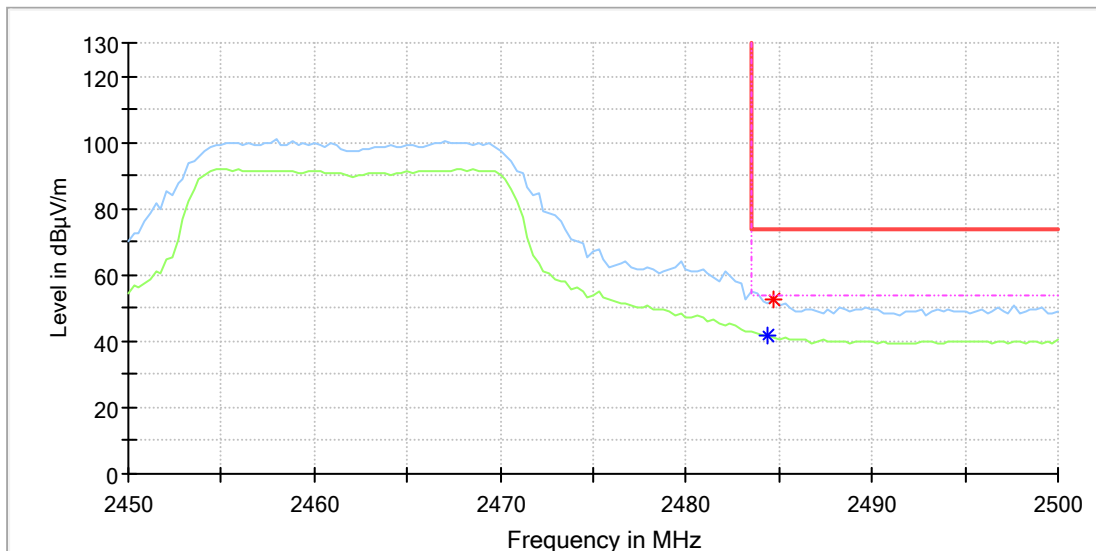


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.529412	---	45.12	54.00	8.88	150.0	V	188.0	7.0
2388.823529	56.51	---	74.00	17.49	150.0	V	188.0	7.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11G_Ch11
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

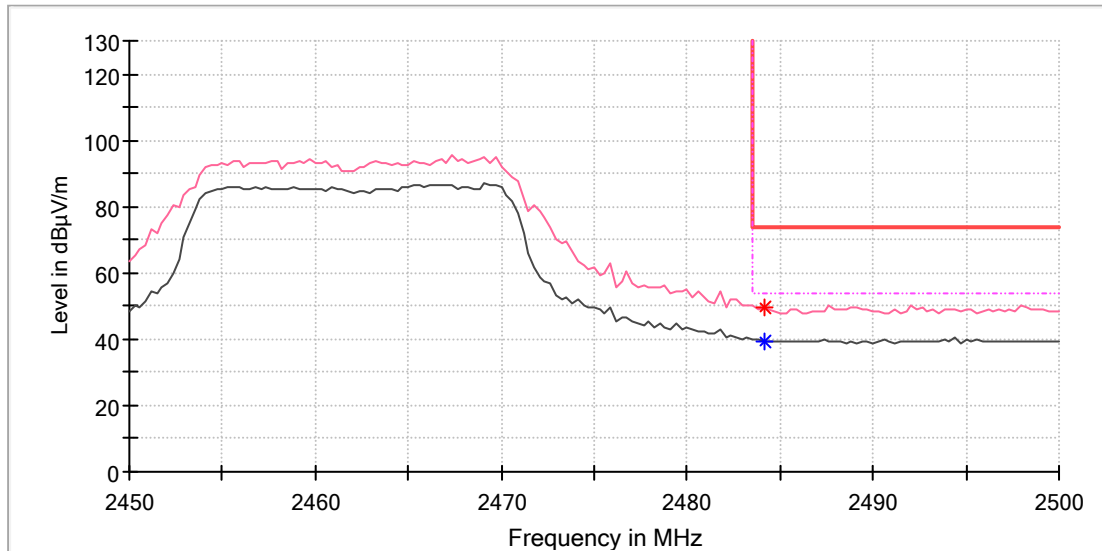


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.411765	---	41.95	54.00	12.05	150.0	H	203.0	7.4
2484.705882	52.49	---	74.00	21.51	150.0	H	214.0	7.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11G_Ch11
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

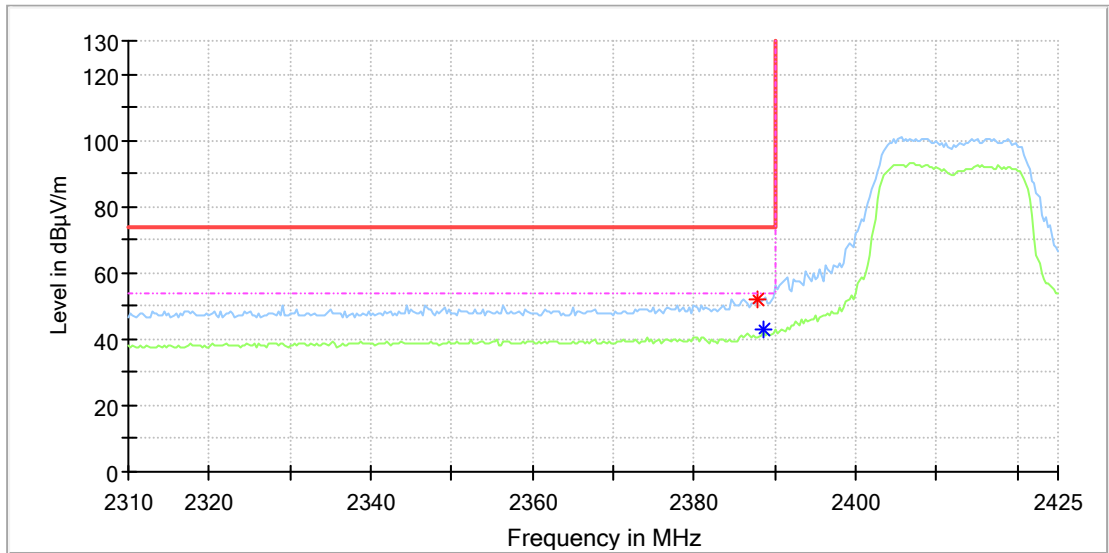


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.117647	---	39.60	54.00	14.40	150.0	V	254.0	7.4
2484.117647	49.79	---	74.00	24.21	150.0	V	254.0	7.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11N20_Ch1
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

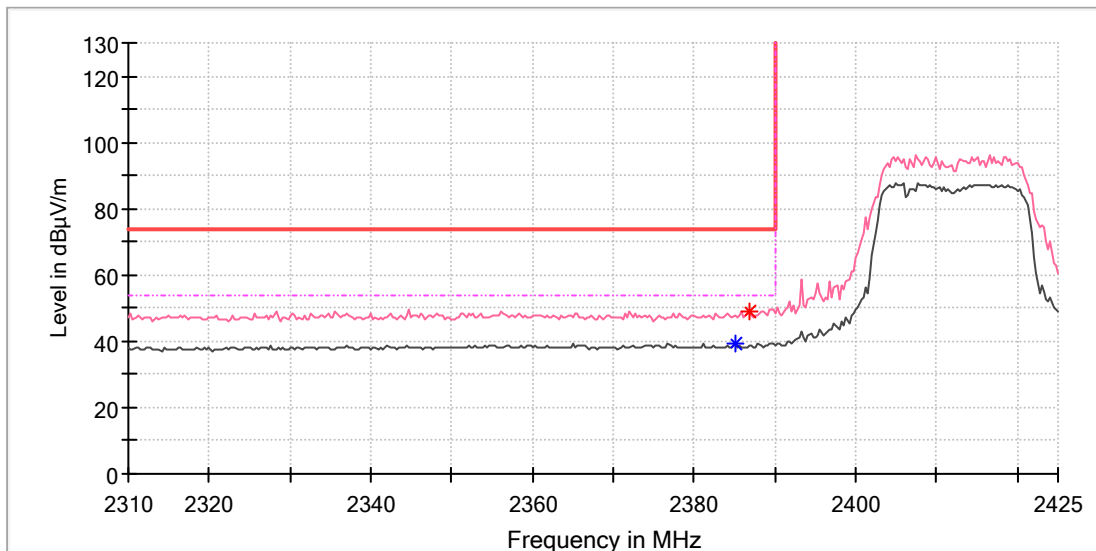


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.941177	52.14	---	74.00	21.86	150.0	H	225.0	7.0
2388.529412	---	43.07	54.00	10.93	150.0	H	225.0	7.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11N20_Ch1
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

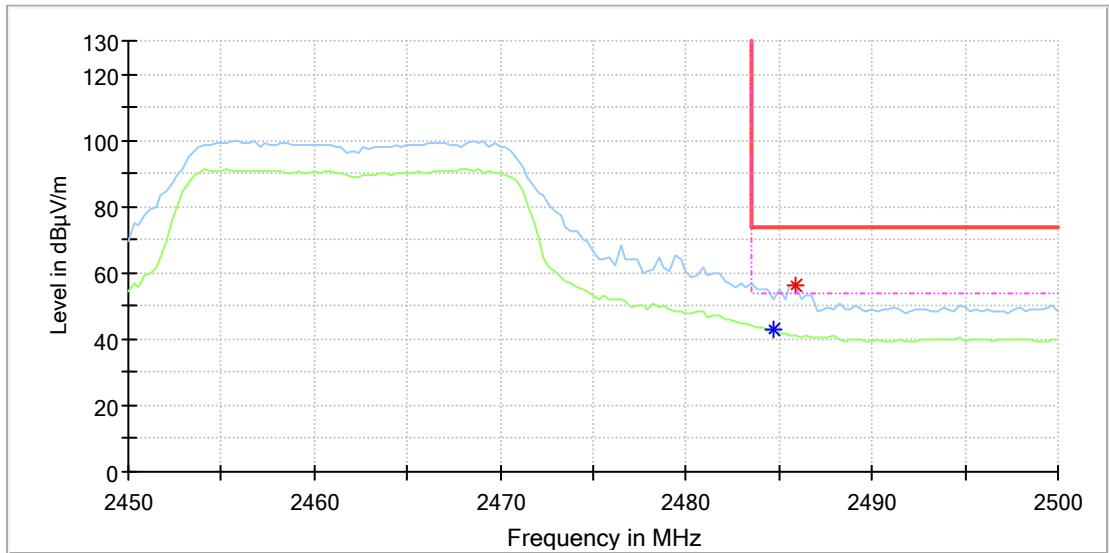


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.000000	---	39.13	54.00	14.87	150.0	V	142.0	7.0
2386.764706	49.02	---	74.00	24.98	150.0	V	104.0	7.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11N20_Ch11
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

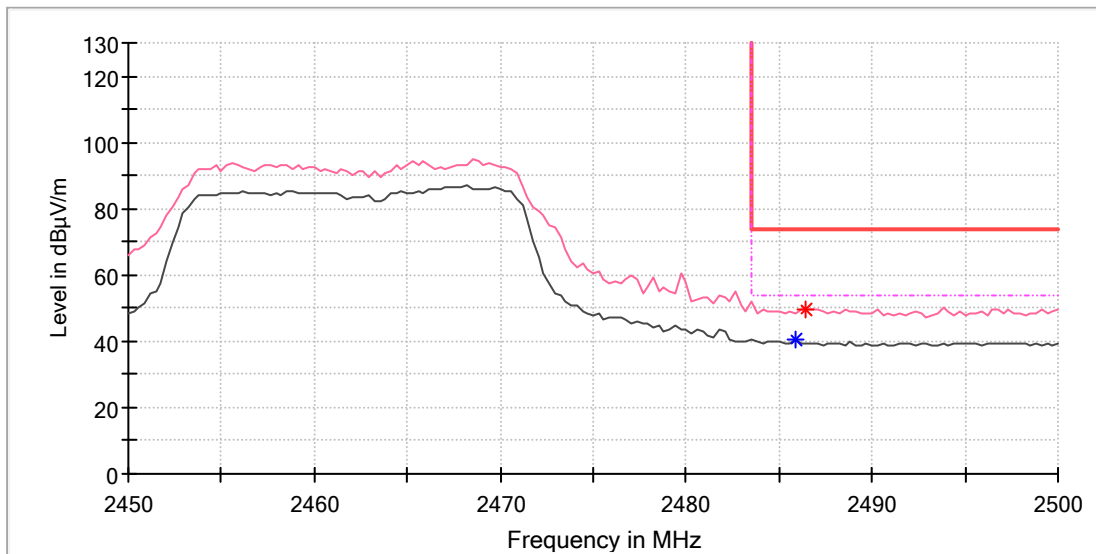


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.705882	---	42.69	54.00	11.31	150.0	H	187.0	7.4
2485.882353	56.01	---	74.00	17.99	150.0	H	198.0	7.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11N20_Ch11
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

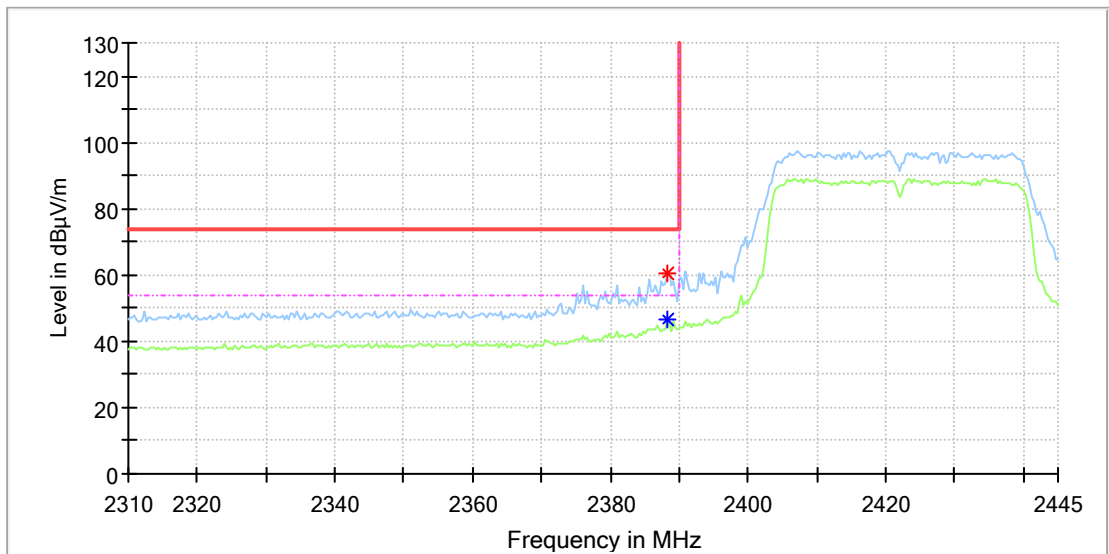


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.882353	---	40.70	54.00	13.30	150.0	V	255.0	7.4
2486.470588	49.79	---	74.00	24.21	150.0	V	182.0	7.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11N40_Ch3
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

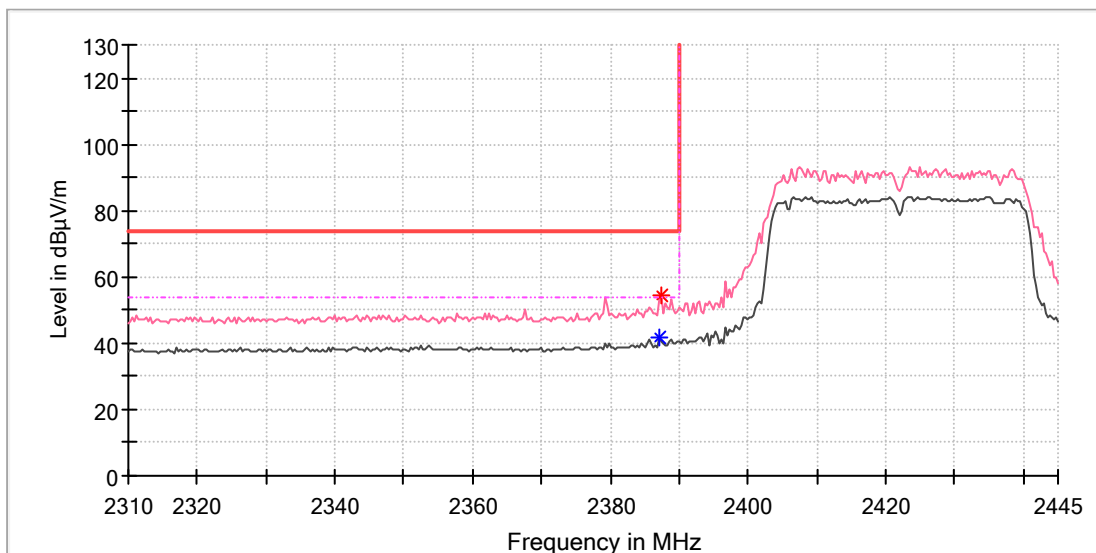


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.235294	---	46.33	54.00	7.67	150.0	H	228.0	7.0
2388.235294	60.48	---	74.00	13.52	150.0	H	228.0	7.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11N40_Ch3
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

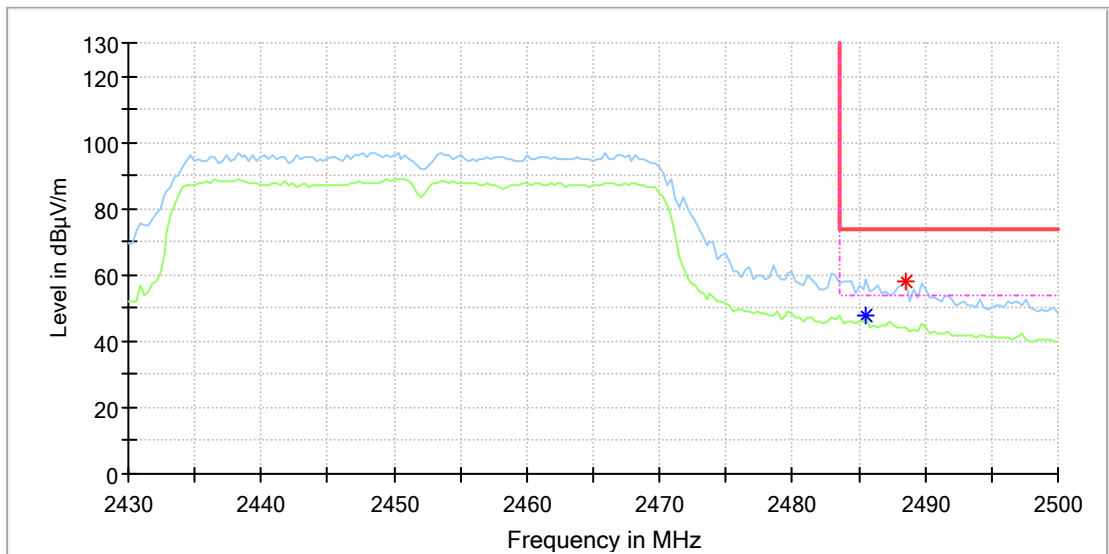


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.058824	---	41.63	54.00	12.37	150.0	V	187.0	7.0
2387.352941	54.41	---	74.00	19.59	150.0	V	257.0	7.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11N40_Ch9
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin

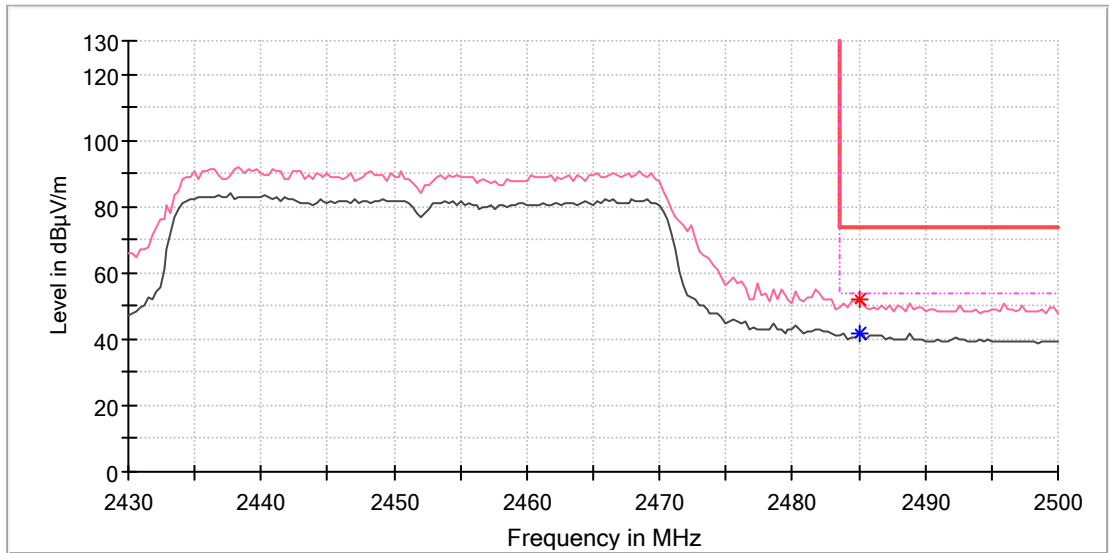


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.588235	---	47.89	54.00	6.11	150.0	H	210.0	7.4
2488.529412	57.92	---	74.00	16.08	150.0	H	217.0	7.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 2.4G_11N40_Ch9
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Lich Chen
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.000000	---	41.82	54.00	12.18	150.0	V	254.0	7.4
2485.000000	52.04	---	74.00	21.96	150.0	V	254.0	7.4