Prüfbericht-Nr.: *Test report no.*:	**CN24717I 001**	**Auftrags-Nr.:** *Order no.*:	**168492002**	Seite 1 von 22 *Page 1 of 22*
Kunden-Referenz-Nr.: *Client reference no.*:	N/A	**Auftragsdatum:** *Order date:*	2024-07-01	
Auftraggeber: *Client*:	Harman International Industries, Incorporated 8500 Balboa Blvd, Northridge, California, 91329, United States			
Prüfgegenstand: *Test item*:	LEGEND 700 HEAD UNIT			
Bezeichnung / Typ-Nr.: *Identification / Type no.*:	JBLLEGEND700 (Trademark: JBL)			
Auftrags-Inhalt: *Order content*:	Test Report			
Prüfgrundlage: *Test specification*:	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.209		RSS-247-Issue 3 August 2023 RSS-Gen Issue 5 March 2019	

Wareneingangsdatum: *Date of sample receipt*:	2024-07-08	Refer to photos document
Prüfmuster-Nr.: *Test sample no:*	A003797988 006	
Prüfzeitraum: *Testing period*:	2024-07-08 - 2024-07-19	
Ort der Prüfung: *Place of testing*:	TÜV Rheinland (Shenzhen) Co., Ltd.	
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.	
Prüfergebnis*: *Test result**:	Pass	

geprüft von: tested by:	x Signed by: Harry W. C. Wu	**genehmigt von:** *authorized by*:	x Signed by: Alex Lan
Datum: *Date:* 2024-09-12		**Ausstellungsdatum:** *Issue date:* 2024-09-12	
Stellung / Position:	Sachverständige(r)/Expert	**Stellung** / Position:	Sachverständige(r)/Expert

Sonstiges / *Other*: FCC ID: APILEGEND700 IC: 6132A-LEGEND700 HVIN: JBLLEGEND700

Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery*: Prüfmuster vollständig und unbeschädigt *Test item complete and undamaged*

* 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*

Anmerkungen
Remarks

1	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. *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.*
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3	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. *Test clauses with remark of * are subcontracted to qualified subcontractors and descripted 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.*
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnisen 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 bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. *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.*

Test Summary

5.1.1 ANTENNA REQUIREMENT
RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER
RESULT: Pass

5.1.3 99% BANDWIDTH
RESULT: Pass

5.1.4 20DB BANDWIDTH
RESULT: Pass

5.1.5 CARRIER FREQUENCY SEPARATION
RESULT: Pass

5.1.6 NUMBER OF HOPPING FREQUENCY
RESULT: Pass

5.1.7 TIME OF OCCUPANCY
RESULT: Pass

5.1.8 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH
RESULT: Pass

5.1.9 RADIATED SPURIOUS EMISSION
RESULT: Pass

Contents

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: Photographs of the Test Set-up

Appendix B: Test Results of Bluetooth BR/EDR mode

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.
No.362, Huanguan Middle Road, Songyuansha Community, Guanhu Subdistrict, Longhua District, Shenzhen 518110, Guangdong, 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 basics 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)
Occupied Channel Bandwidth	± 2.08 %
RF output power, 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 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 Middle Road, Songyuansha Community, Guanhu Subdistrict, Longhua District, Shenzhen 518110, Guangdong, 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 BR&EDR 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 BR/EDR	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK, π/4-DQPSK, 8DPSK
Channel Number:	79 channels
Channel Separation:	1MHz
Antenna Type:	FPC Antenna
Antenna Gain of Bluetooth:	6.0 dBi

Table 4: RF Channel and Frequency of Bluetooth BR/EDR

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	**2402.00**	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	**2480.00**
19	2421.00	39	**2441.00**	59	2461.00		

Test frequencies are lowest channel: 2402 MHz, middle channel: 2441 MHz and highest channel: 2480 MHz for Bluetooth BR/EDR

3.3 Independent Operation Modes

The basic operation modes are:

A. On, Bluetooth transmitting mode
    1) Low Channel
    2) Middle Channel
    3) High Channel

B. On, Transmitting on Hopping channel

C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- FCC/IC 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 5: 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)

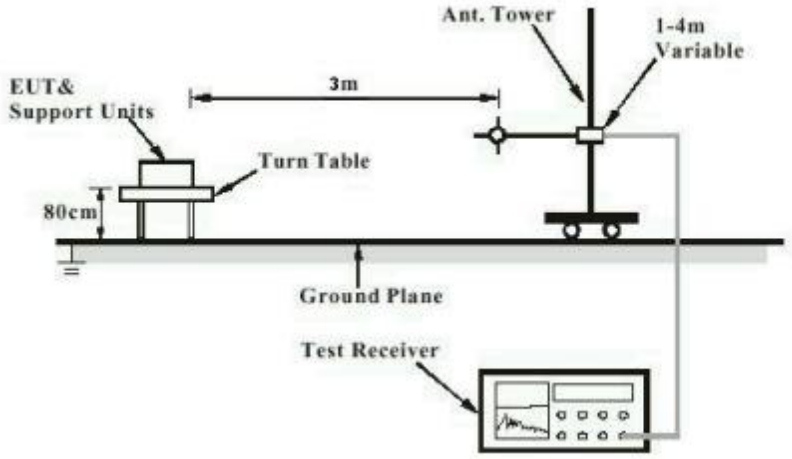


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

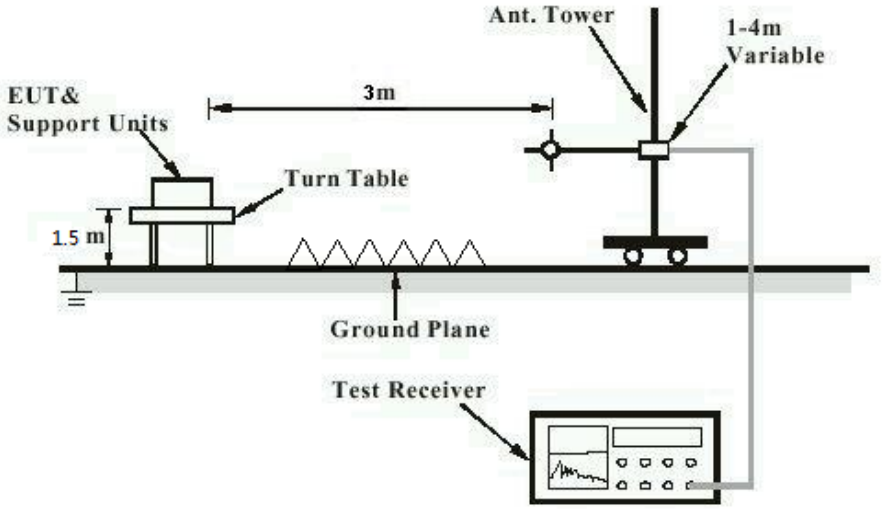
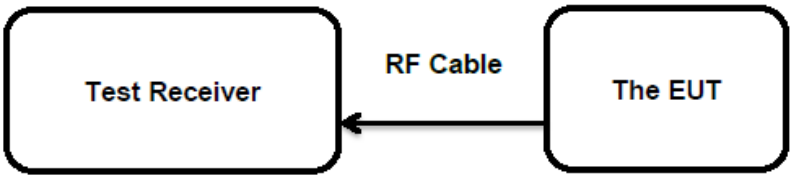


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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 6.0 dBi, 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 Peak Conducted Output Power

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(b)(1) RSS-247 Clause 5.4(b)
Basic standard	:	ANSI C63.10: 2013
Limits	:	FHSS < 0.125 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	:	B
Ambient temperature	:	24.5 ℃
Relative humidity	:	51.2 %
Atmospheric pressure	:	101 kPa

Table 6: Test Result of Maximum Peak Conducted Output Power, Bluetooth BR & EDR

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
GFSK (BR)	2402.0	9.10	0.0081	< 0.125
	2441.0	9.93	0.0098	
	2480.0	9.86	0.0097	
Maximum Measured Value		9.93	0.0098	

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
8DPSK (EDR)	2402.0	10.98	0.0125	< 0.125
	2441.0	11.26	0.0134	
	2480.0	10.09	0.0102	
Maximum Measured Value		11.26	0.0134	

Maximum e.i.r.p. is 17.26 dBm less than 4W(36dBm).

Note:
1) The cable loss is taken into account in results.
2) Antenna gain(G): 6.00 dBi

5.1.3 99% Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a) 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
Test channel	:	Low / Middle / High
Ambient temperature	:	24.5 ℃
Relative humidity	:	51.2 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

5.1.4 20dB Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(1) RSS-247 Clause 5.1(a)
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
Test channel	:	Low / Middle / High
Ambient temperature	:	24.5 ℃
Relative humidity	:	51.2 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

5.1.5 Carrier Frequency Separation

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(1) RSS-247 Clause 5.1(b)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 25kHz or 2/3 of 20dB bandwidth, whichever is greater
Kind of test site	:	Shielded Room

Test Setup

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

For the measurement records, refer to the appendix B.

5.1.6 Number of Hopping Frequency

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii) RSS-247 Clause 5.1(d)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2024-07-08 to 2024-07-19
Input voltage	:	DC 12V
Operation mode	:	B
Ambient temperature	:	24.5 ℃
Relative humidity	:	51.2 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

5.1.7 Time of Occupancy

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii) RSS-247 Clause 5.1(d)
Basic standard	:	ANSI C63.10: 2013
Limits	:	< 0.4s
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2024-07-08 to 2024-07-19
Input voltage	:	DC 12V
Operation mode	:	B
Ambient temperature	:	24.5 ℃
Relative humidity	:	51.2 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

5.1.8 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
Test channel	:	Low / Middle / High
Ambient temperature	:	24.5 ℃
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 B.

5.1.9 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
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 B.

6 Photographs of the Test Set-Up

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

7 List of Tables

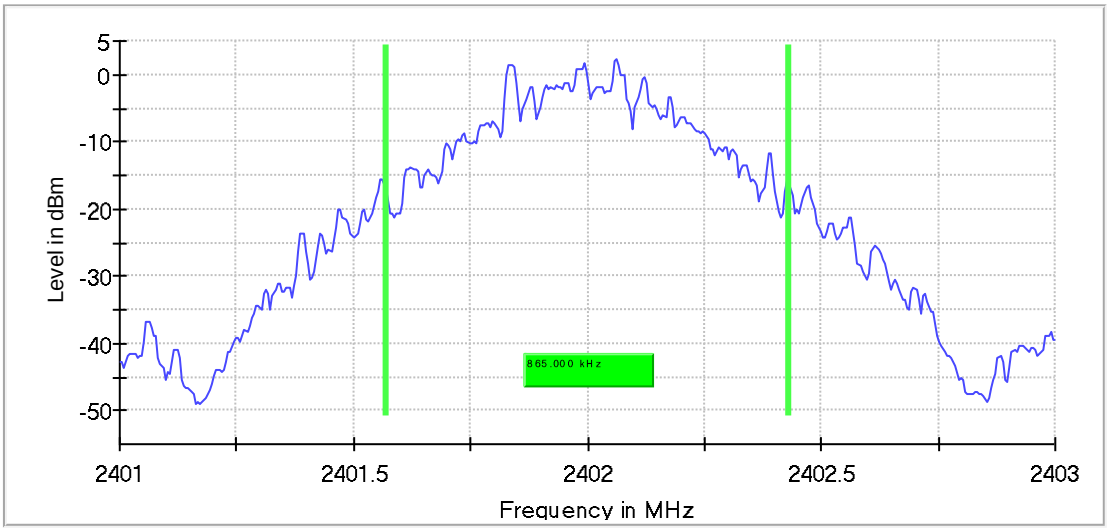
Appendix A: Test Results of Bluetooth BR & EDR

Appendix A.1: Test Results of 99% Bandwidth

Test Mode	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Limit
BR	2402	0.865	/
	2441	0.865	
	2480	0.865	
EDR	2402	1.155	/
	2441	1.175	
	2480	1.225	

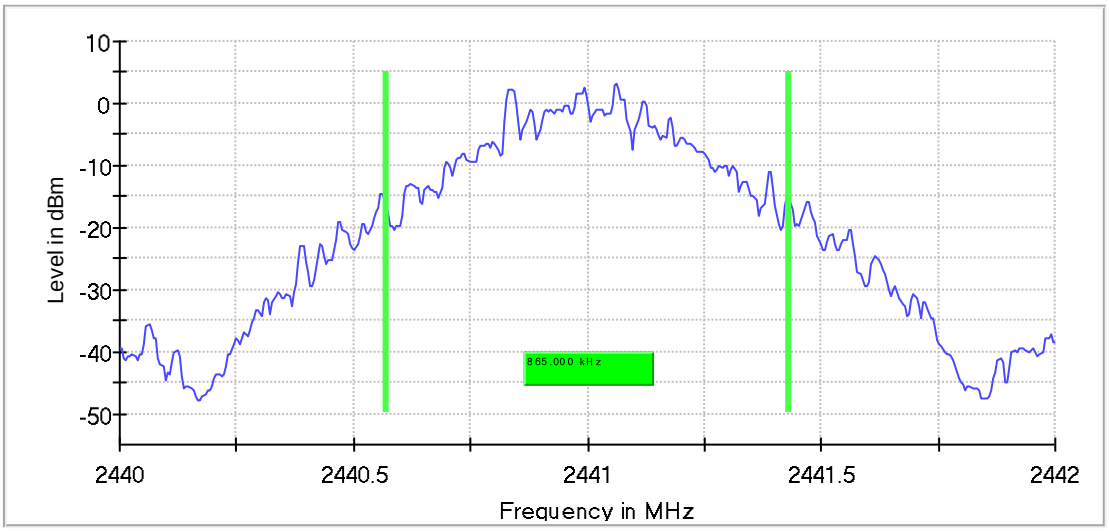
DH5_Ant1_2402

99 % Bandwidth



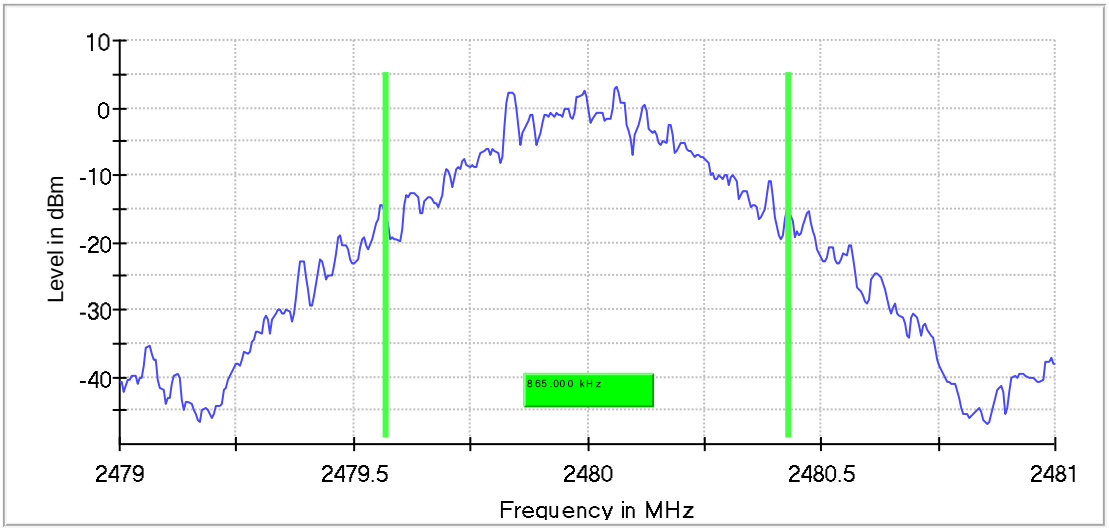
DH5_Ant1_2441

99 % Bandwidth



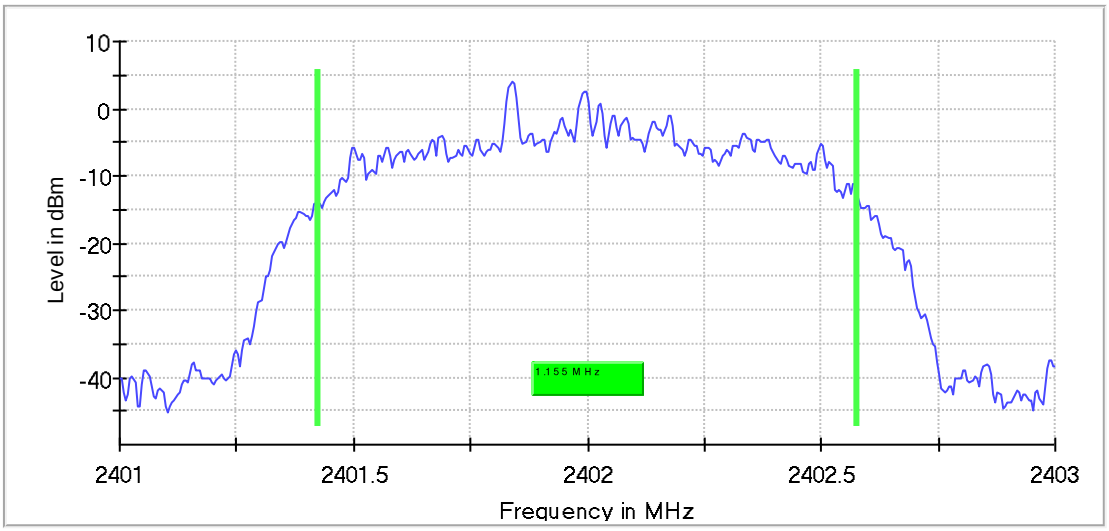
DH5_Ant1_2480

99 % Bandwidth



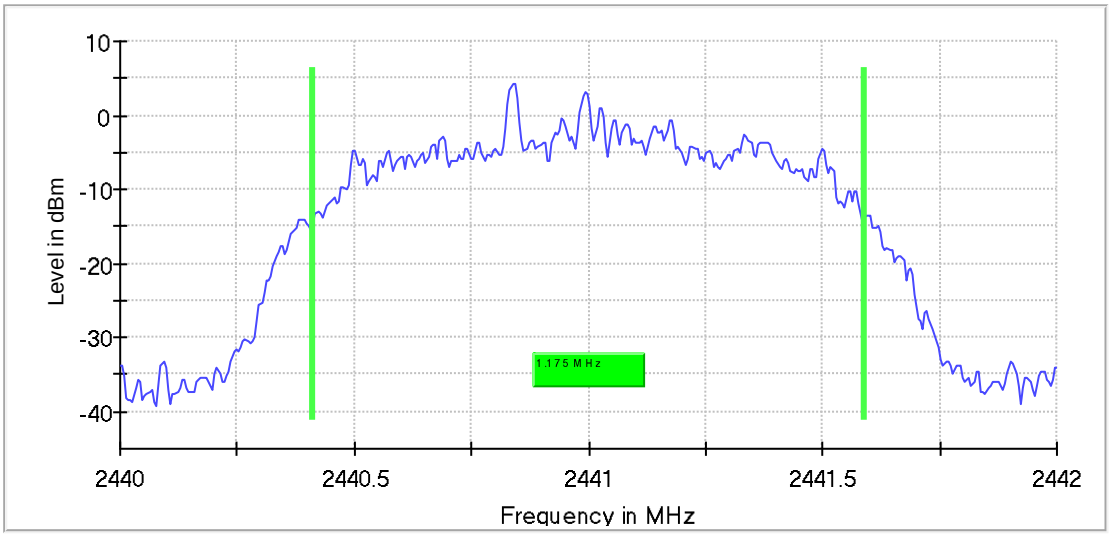
3DH5_Ant1_2402

99 % Bandwidth



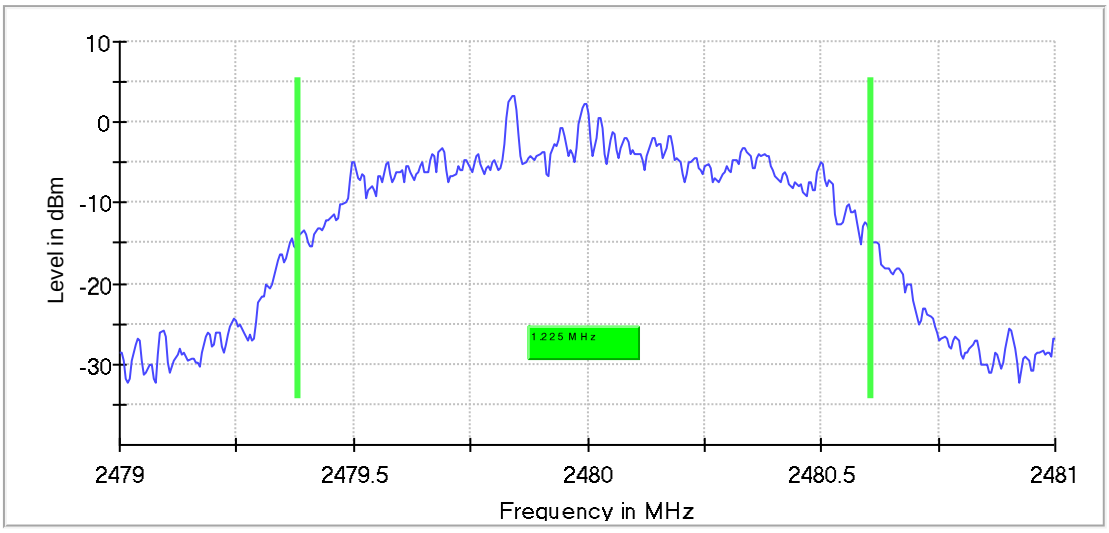
3DH5_Ant1_2441

99 % Bandwidth



3DH5_Ant1_2480

99 % Bandwidth



Measurement

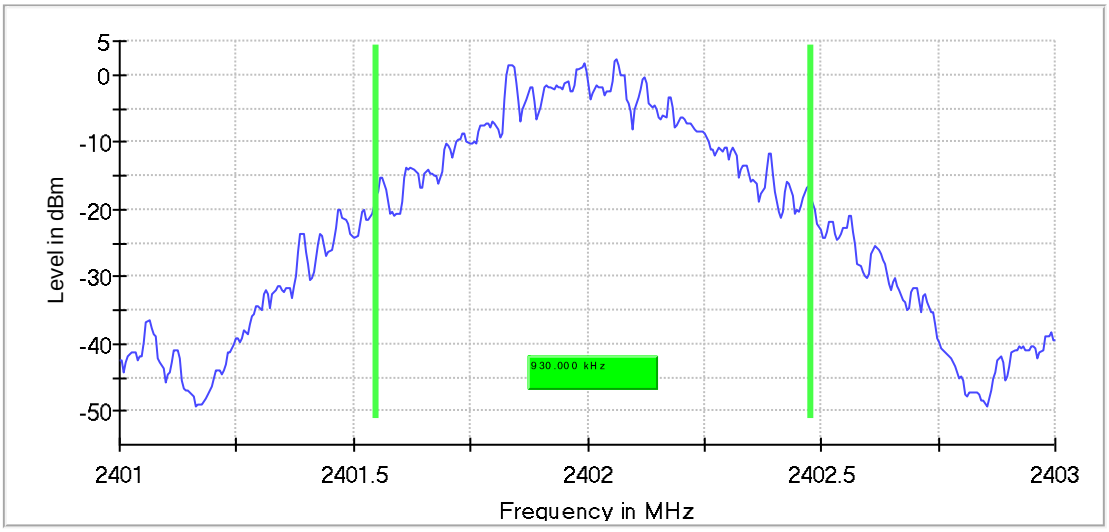
Setting	Instrument Value
Span	2.000 MHz
RBW	10.000 kHz
VBW	30.000 kHz
SweepPoints	400
Sweeptime	189.648 µs
Reference Level	0.000 dBm
Attenuation	20.000 dB
Detector	MaxPeak
SweepCount	500
Filter	3 dB
Trace Mode	Max Hold

Appendix A.2: Test Results of 20dB Bandwidth

Test Mode	Channel Frequency (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)
BR	2402	930	620.000	/
	2441	930	620.000	
	2480	930	620.000	
EDR	2402	1230	820.000	/
	2441	1255	836.667	
	2480	1290	860.000	

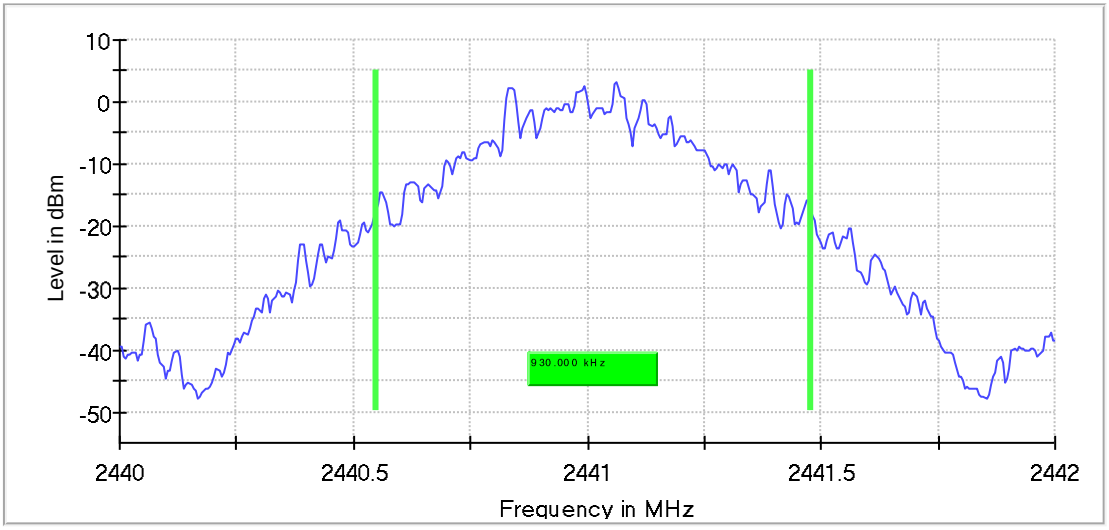
DH5_Ant1_2402

20 dB Bandwidth



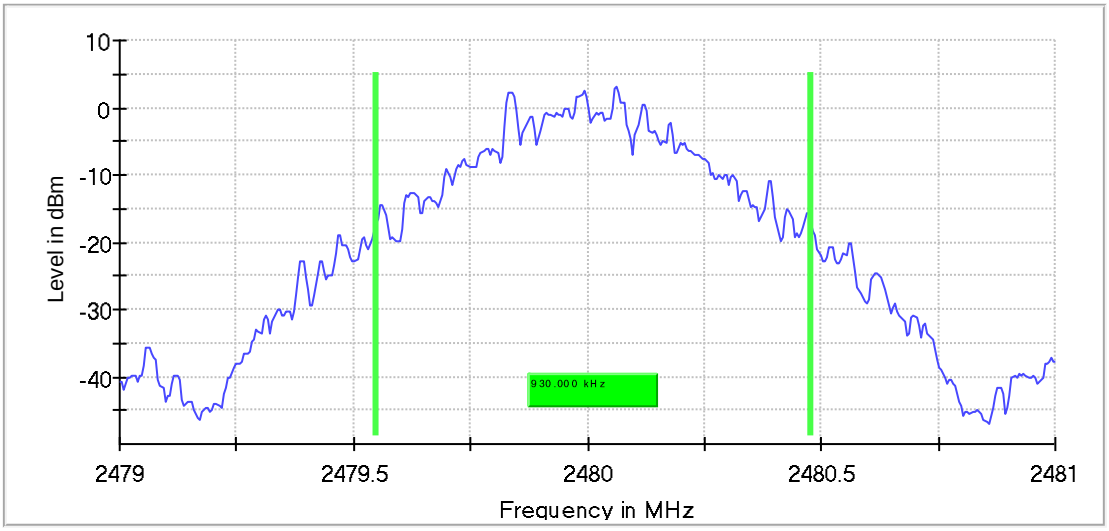
DH5_Ant1_2441

20 dB Bandwidth



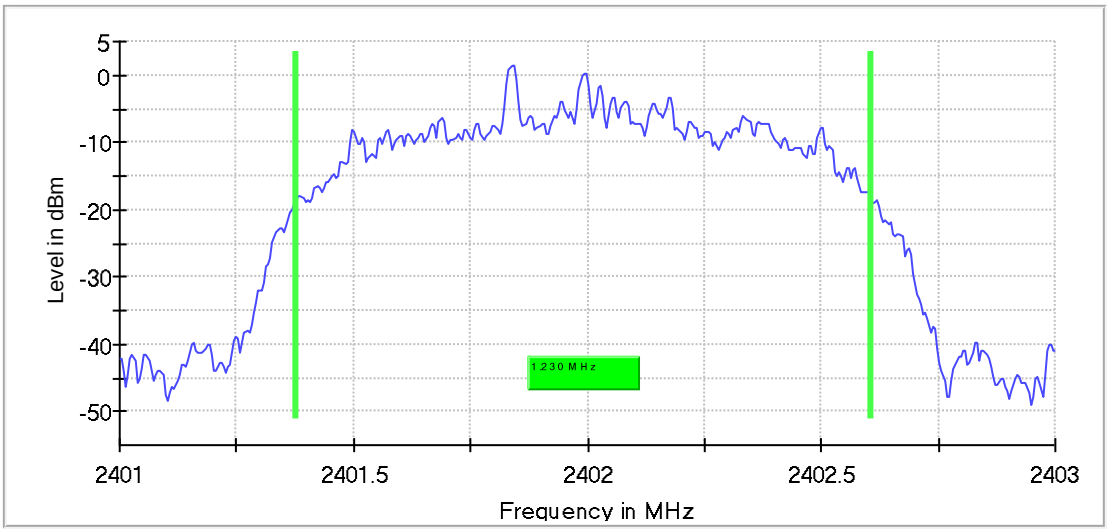
DH5_Ant1_2480

20 dB Bandwidth



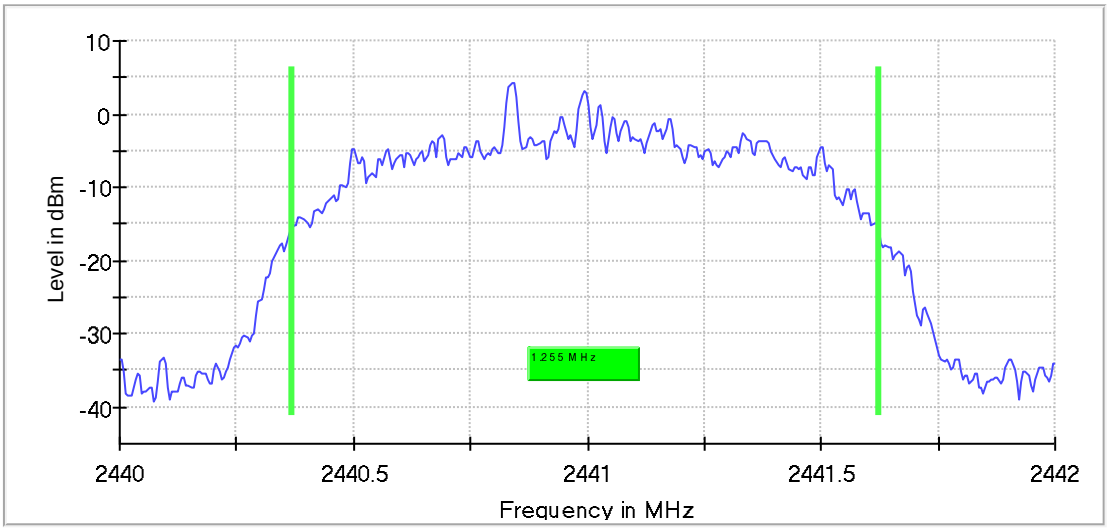
3DH5_Ant1_2402

20 dB Bandwidth



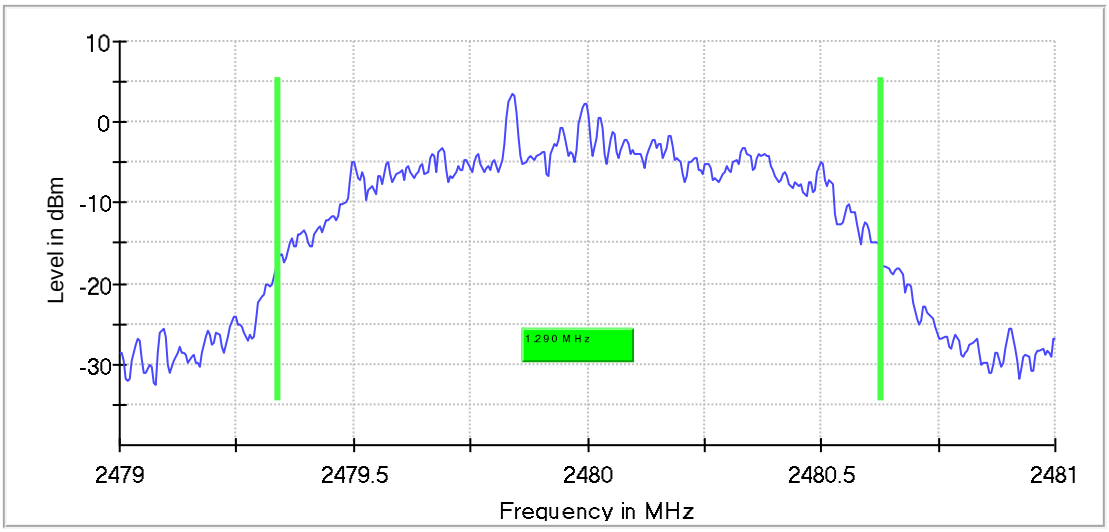
3DH5_Ant1_2441

20 dB Bandwidth



3DH5_Ant1_2480

20 dB Bandwidth



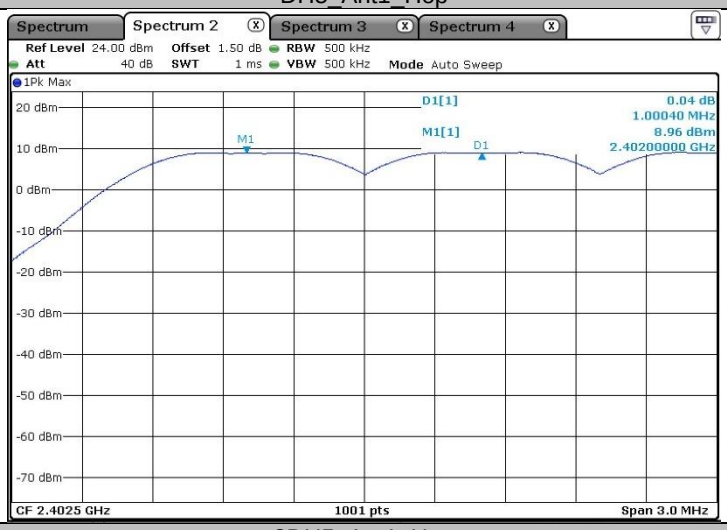
Measurement

Setting	Instrument Value
Span	2.000 MHz
RBW	10.000 kHz
VBW	30.000 kHz
SweepPoints	400
Sweeptime	189.648 µs
Reference Level	0.000 dBm
Attenuation	20.000 dB
Detector	MaxPeak
SweepCount	200
Filter	3 dB
Trace Mode	Max Hold
Sweeptype	FFT

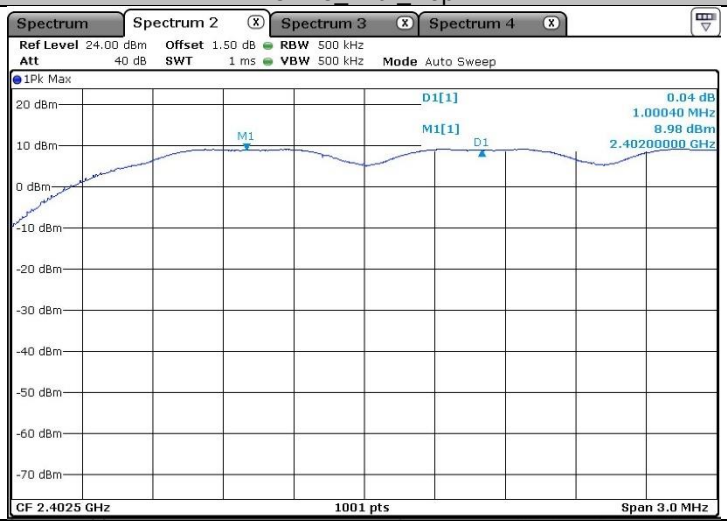
Appendix A.3: Test Results of Carrier Frequency Separation

Test Mode	Channel	Result[MHz]	Limit[MHz]	Verdict
BR-DH5	Hop	1.0004	≥0.620	PASS
EDR-3DH5	Hop	1.0004	≥0.860	PASS

DH5_Ant1_Hop



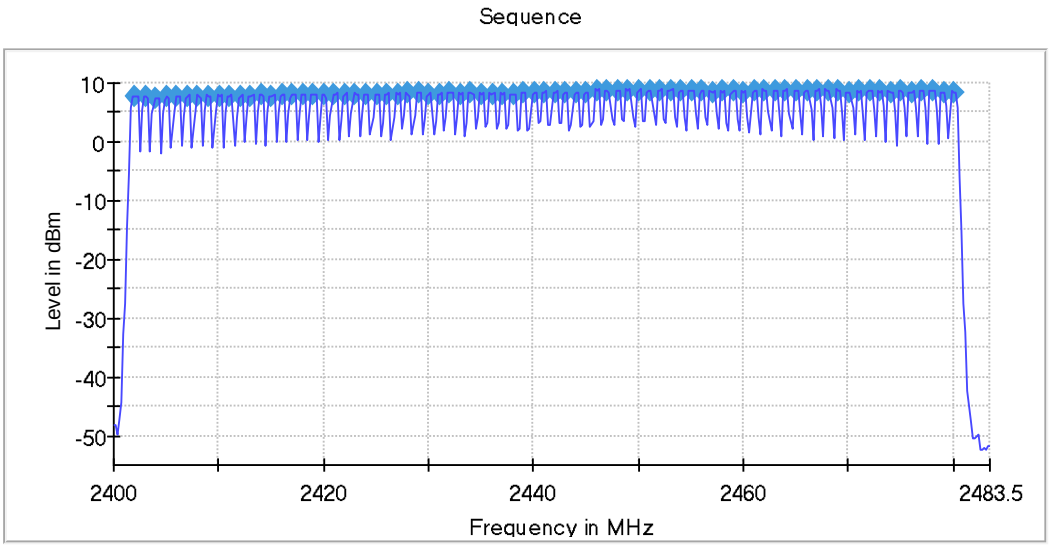
3DH5_Ant1_Hop



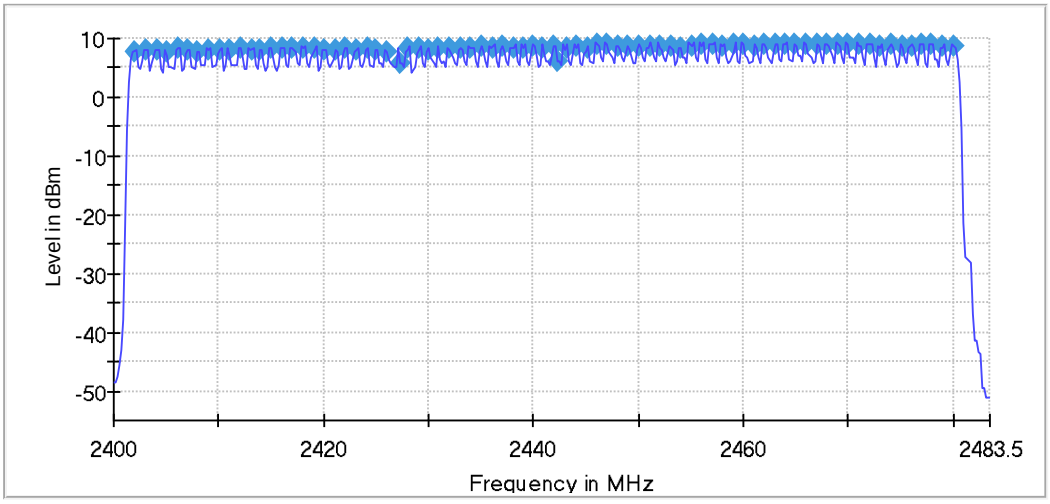
Appendix A.4: Test Results of Number of Hopping Frequency

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

DH5_Ant1_Hop



3DH5_Ant1_Hop

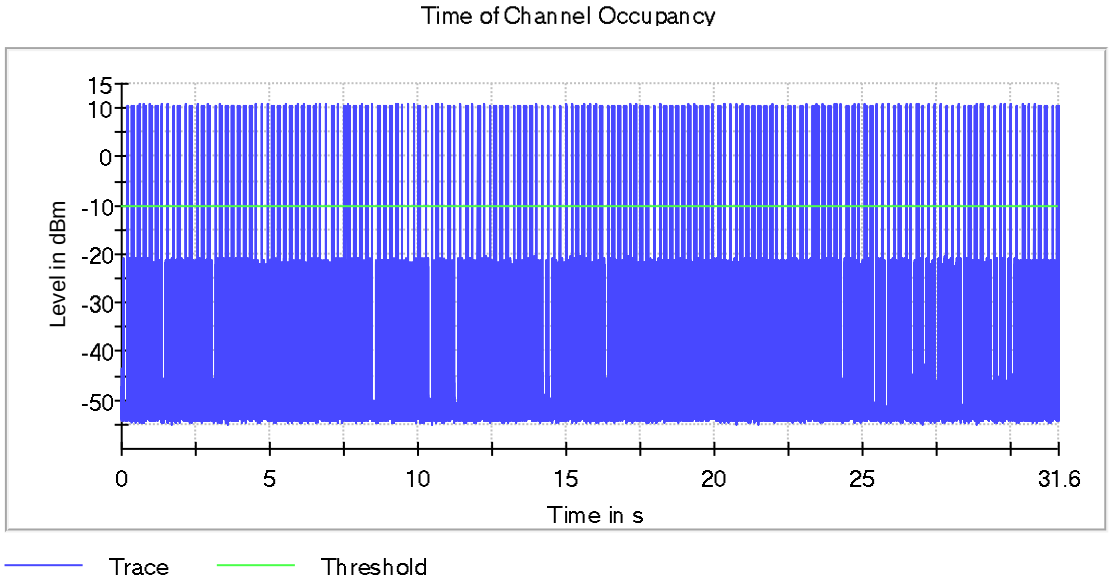


Setting	Instrument Value
Start Frequency	**2.40000 GHz**
Stop Frequency	**2.48350 GHz**
Span	**83.500 MHz**
RBW	**200.000 kHz**
VBW	**200.000 kHz**
SweepPoints	**418**
Sweeptime	**1.060 ms**
Reference Level	**0.000 dBm**
Attenuation	**20.000 dB**
Detector	**MaxPeak**

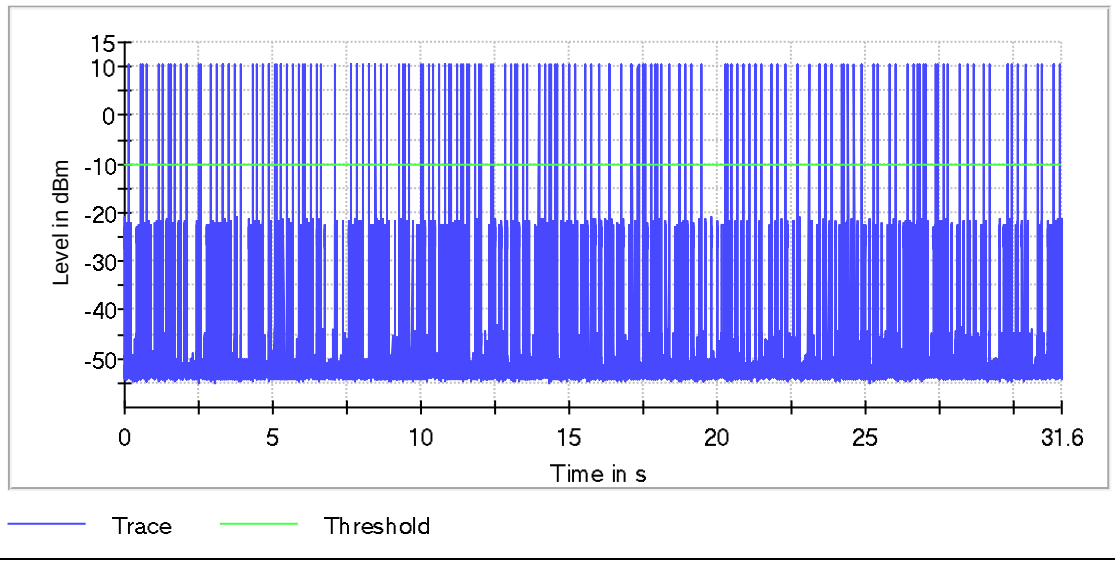
Appendix A.5: Test Results of Time of Occupancy

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.394	319	0.126	≤0.4	PASS
DH3	Ant1	Hop	1.650	161	0.266	≤0.4	PASS
DH5	Ant1	Hop	2.898	101	0.293	≤0.4	PASS
3DH1	Ant1	Hop	0.403	319	0.129	≤0.4	PASS
3DH3	Ant1	Hop	1.675	154	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.905	98	0.285	≤0.4	PASS

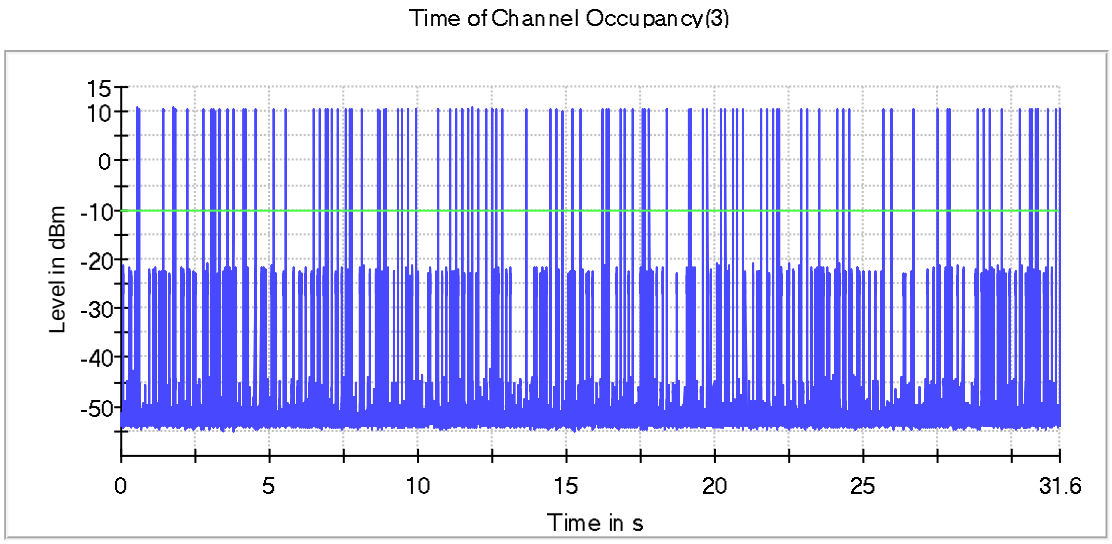
DH1_Ant1_Hop



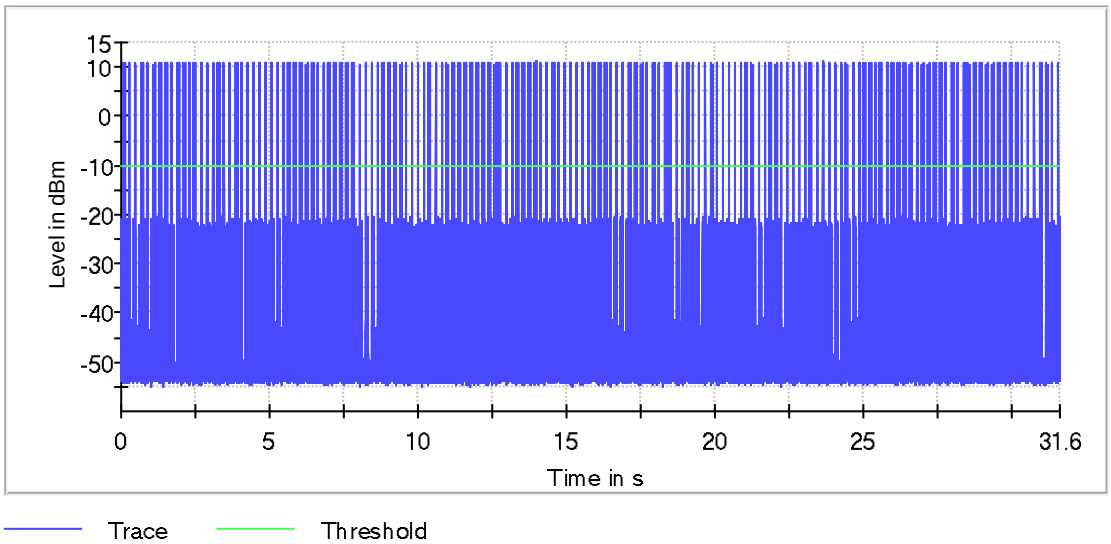
DH3_Ant1_Hop



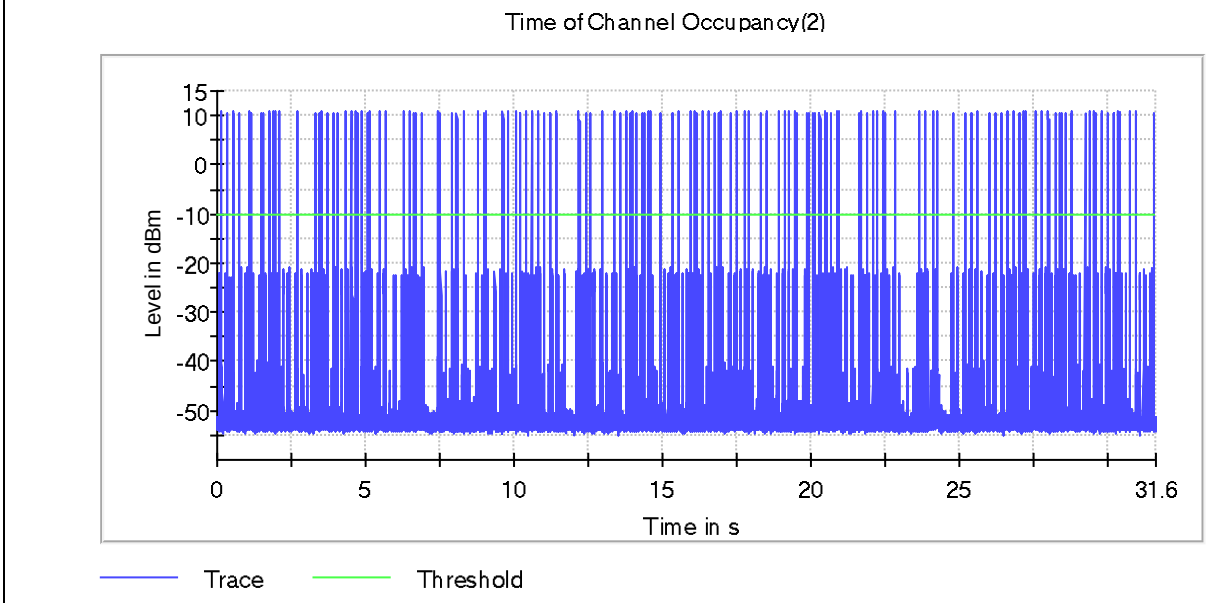
DH5_Ant1_Hop



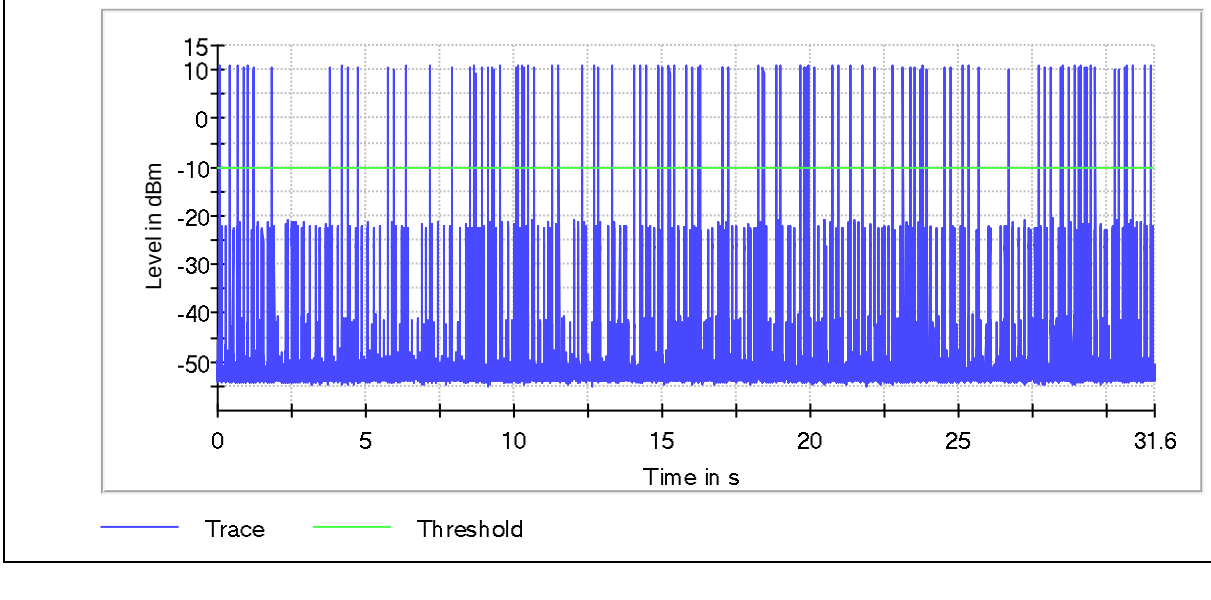
3DH1_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop



Measurement

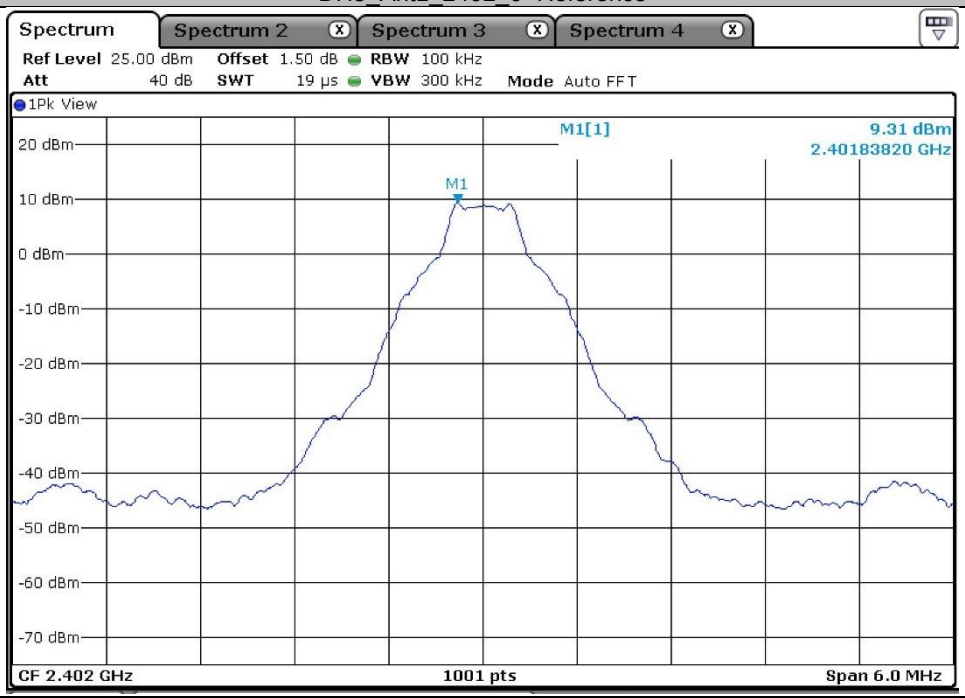
Setting	Instrument Value
Center Frequency	2.44100 GHz
Span	ZeroSpan
RBW	500.000 kHz
VBW	1.000 MHz
SweepPoints	30001
Sweeptime	31.600 s
Reference Level	-10.000 dBm
Attenuation	0.000 dB
Detector	MaxPeak

Appendix A.6: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

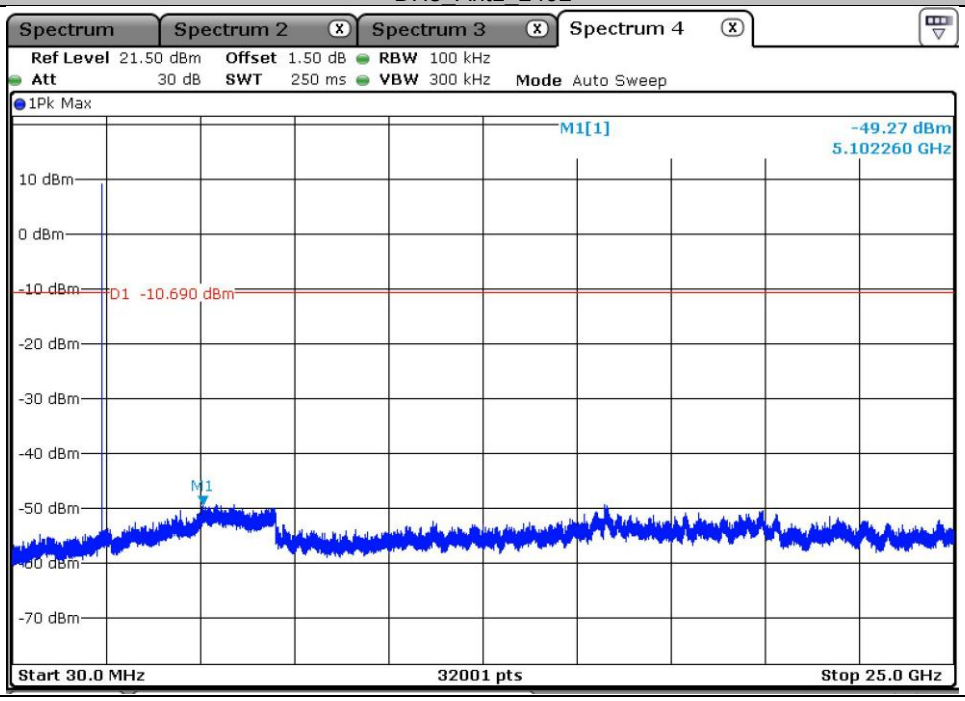
Conducted measurements

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	9.31	9.31	---	PASS
			30~25000	9.31	-49.27	≤-10.69	PASS
		2441	Reference	10.42	10.42	---	PASS
			30~25000	10.42	-49.20	≤-9.58	PASS
		2480	Reference	10.39	10.39	---	PASS
			30~25000	10.39	-49.12	≤-9.61	PASS
3DH5	Ant1	2402	Reference	11.63	11.63	---	PASS
			30~25000	11.63	-49.62	≤-8.37	PASS
		2441	Reference	11.98	11.98	---	PASS
			30~25000	11.98	-48.73	≤-8.02	PASS
		2480	Reference	11.46	11.46	---	PASS
			30~25000	11.46	-49.06	≤-8.02	PASS

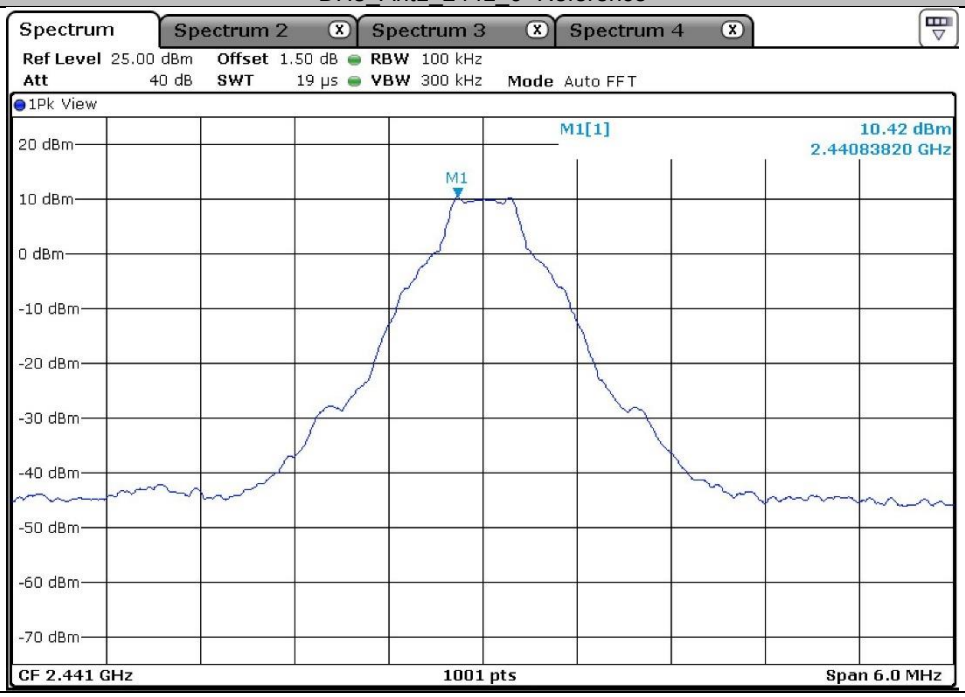
DH5_Ant1_2402_0~Reference



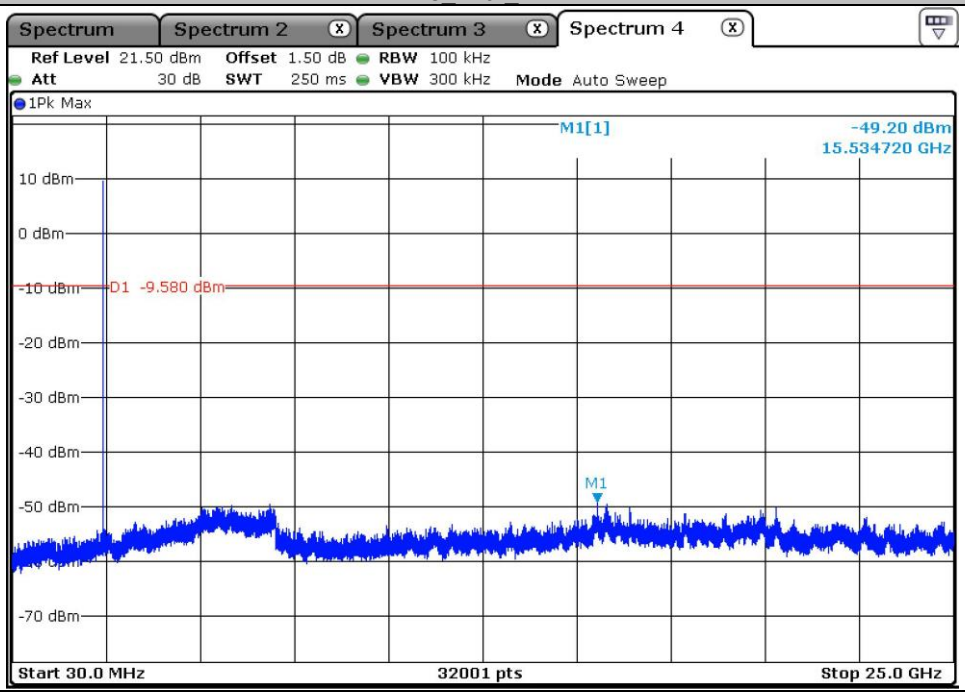
DH5_Ant1_2402



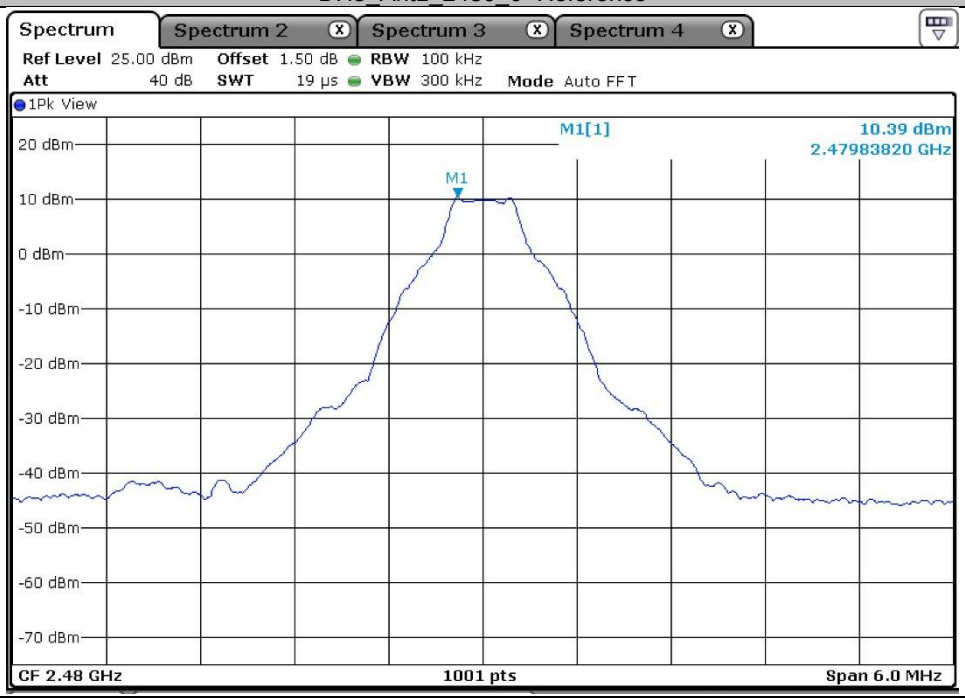
DH5_Ant1_2441_0~Reference



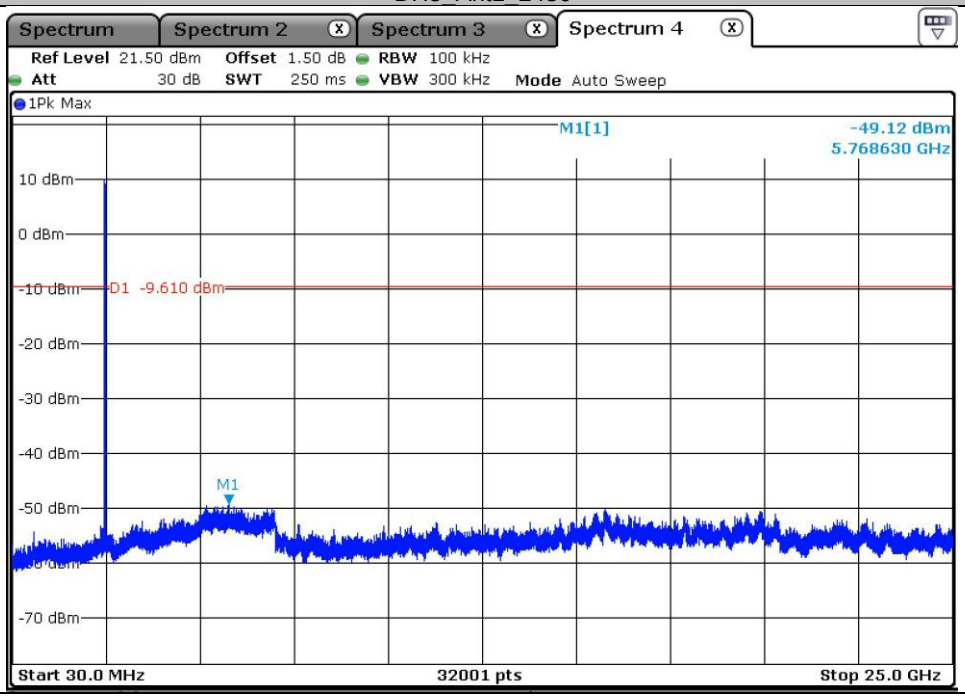
DH5_Ant1_2441



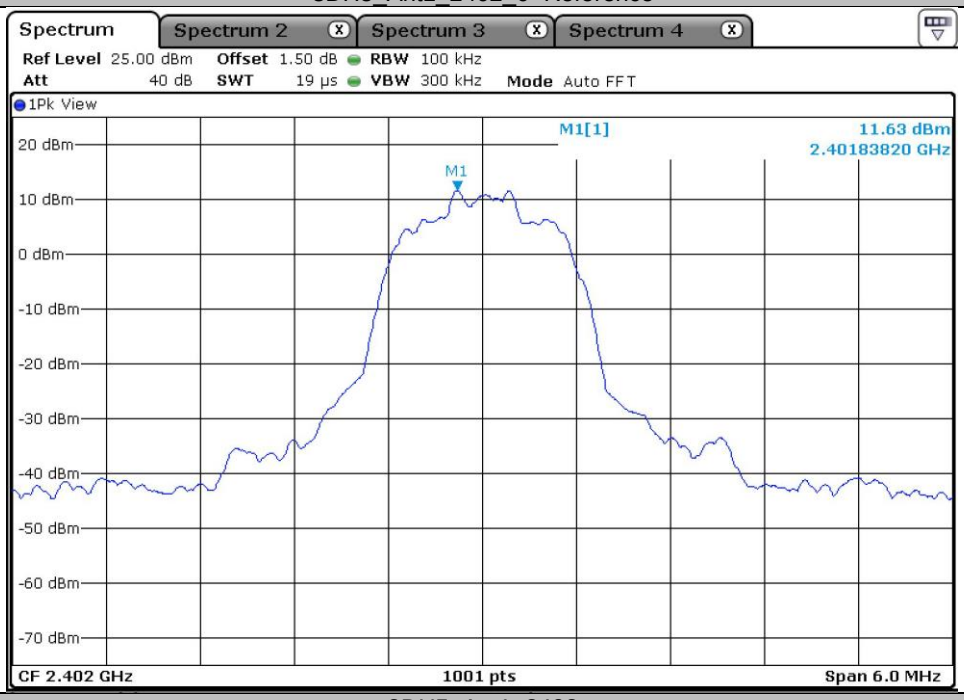
DH5_Ant1_2480_0~Reference



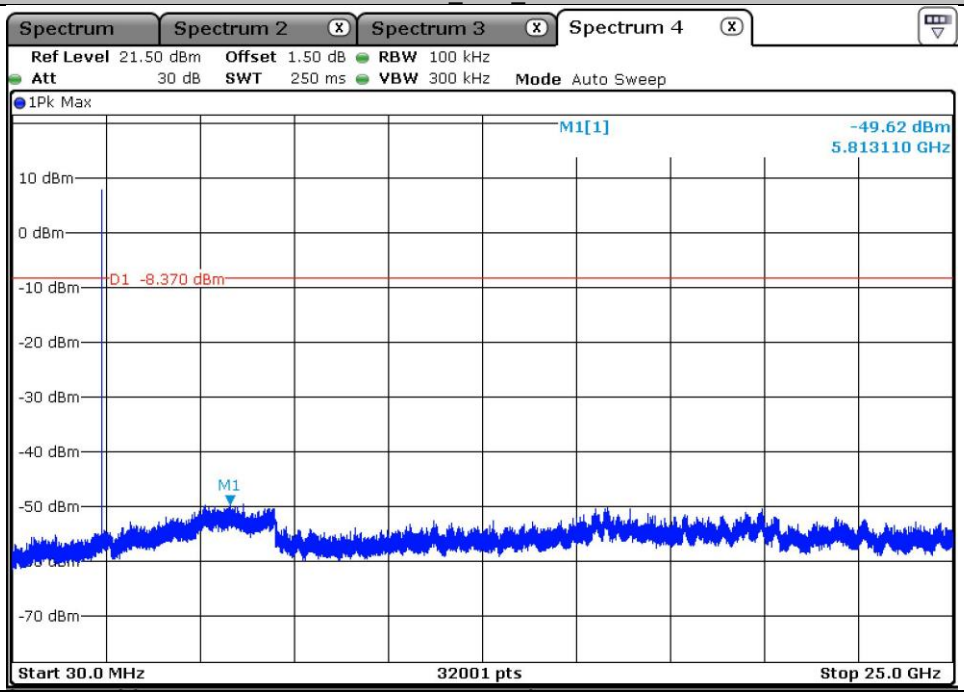
DH5_Ant1_2480



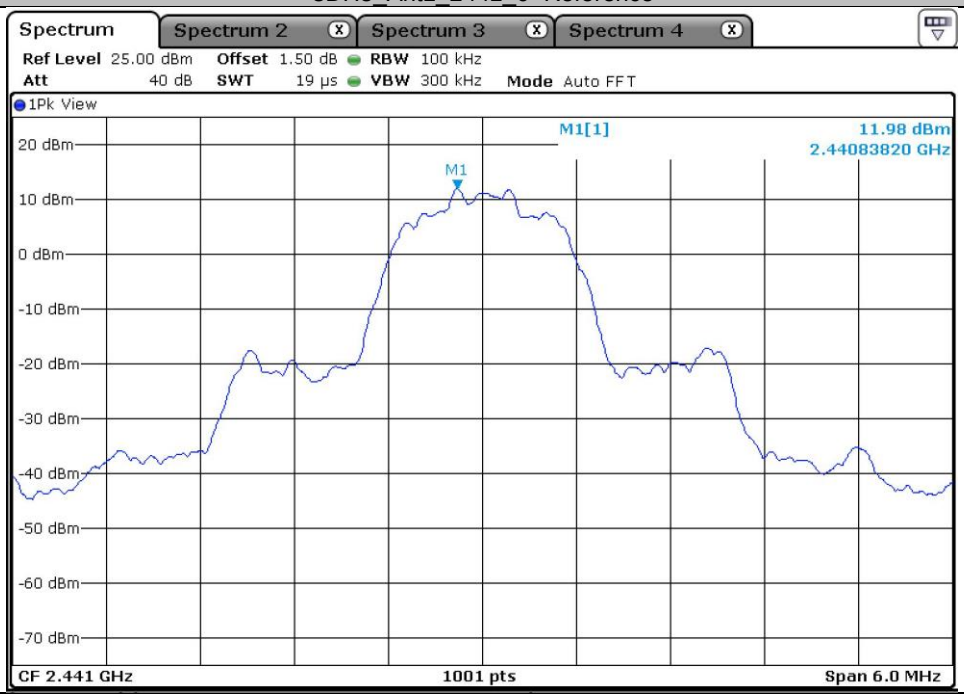
3DH5_Ant1_2402_0~Reference



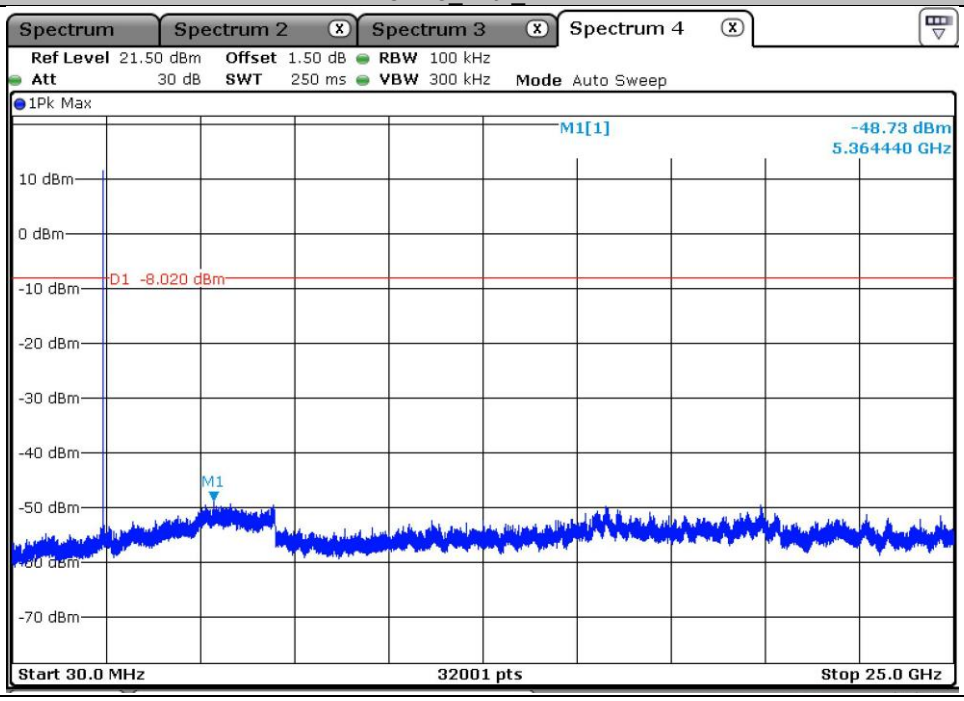
3DH5_Ant1_2402



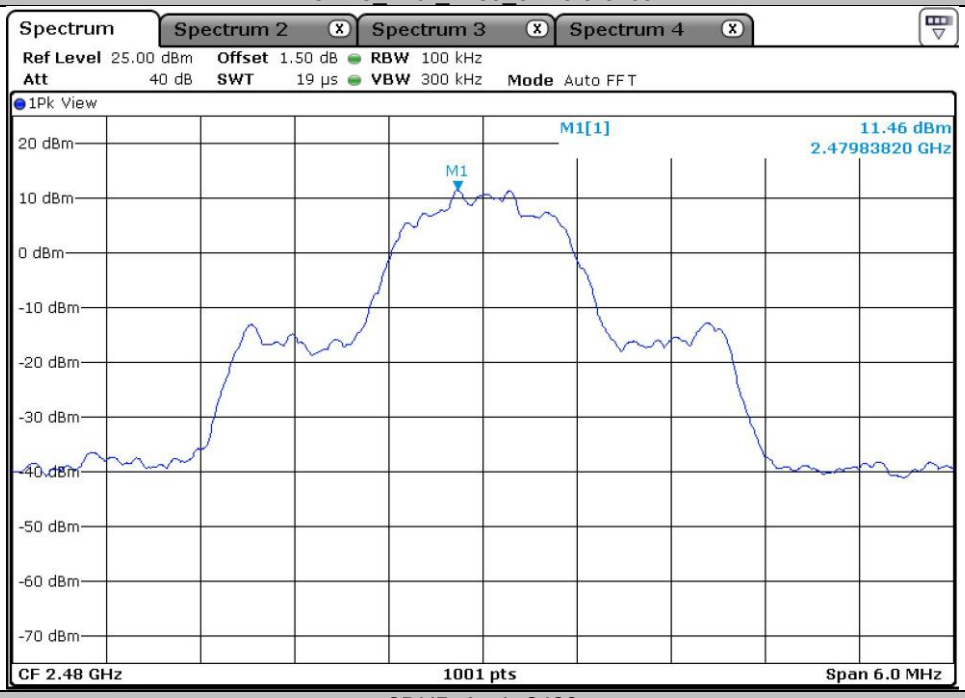
3DH5_Ant1_2441_0~Reference



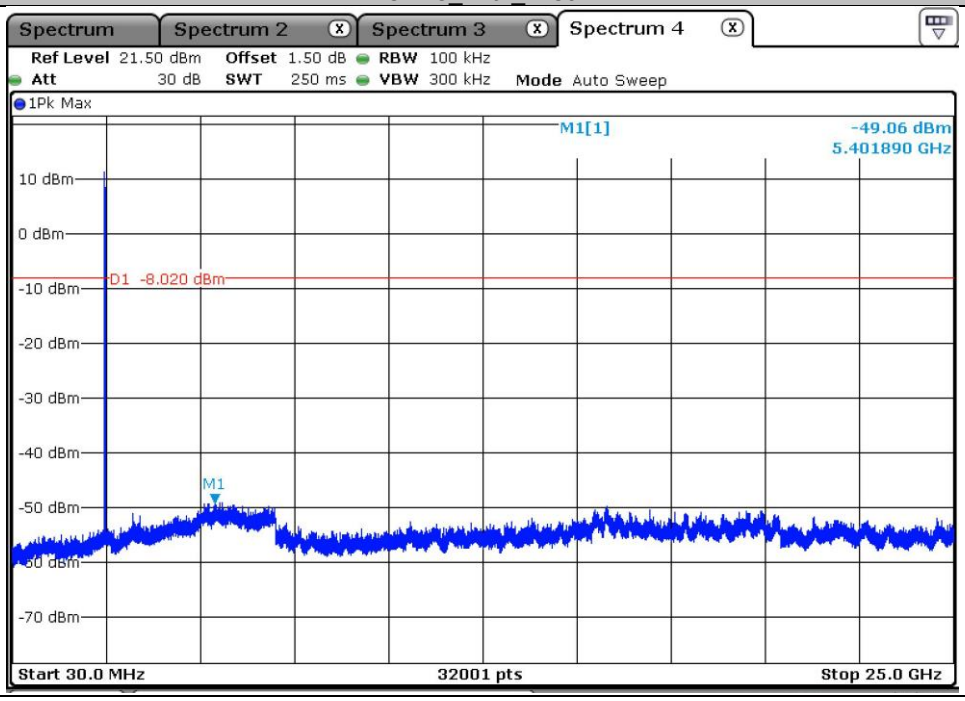
3DH5_Ant1_2441



3DH5_Ant1_2480_0~Reference



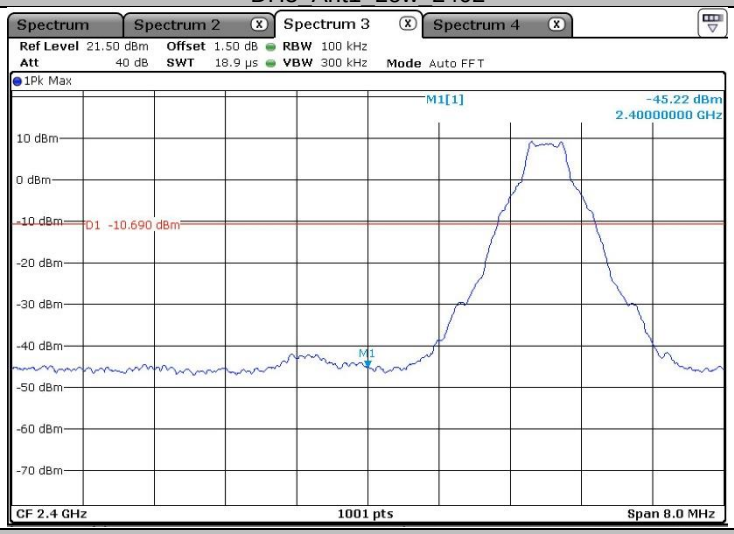
3DH5_Ant1_2480



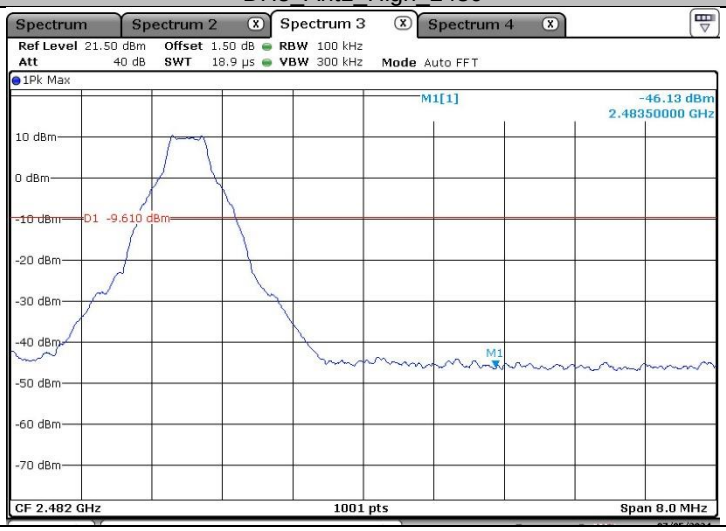
Band edge measurements

TestMode	Antenna	ChName	Channel	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-45.22	≤-10.69	PASS
		High	2480	-46.13	≤-9.61	PASS
3DH5	Ant1	Low	2402	-43.10	≤-8.37	PASS
		High	2480	-39.66	≤-8.02	PASS
DH5	Ant1	Hopping	2402	-48.72	≤-9.25	PASS
		Hopping	2480	-47.33	≤-9.25	PASS
3DH5	Ant1	Hopping	2402	-47.52	≤-9.20	PASS
		Hopping	2480	-46.50	≤-9.20	PASS

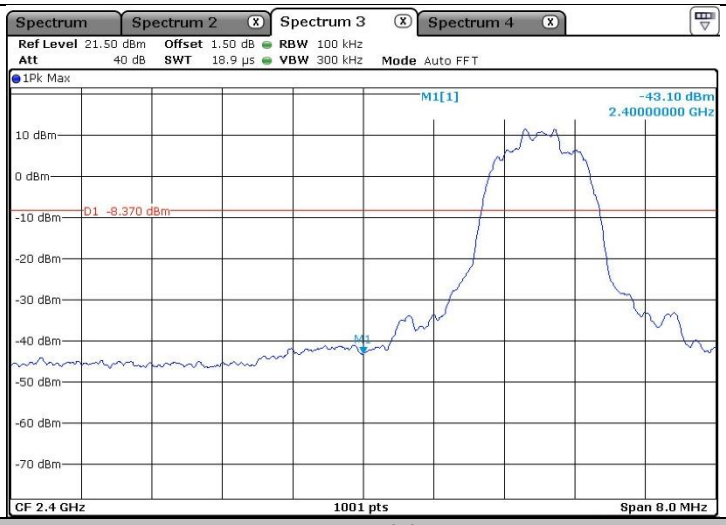
DH5_Ant1_Low_2402



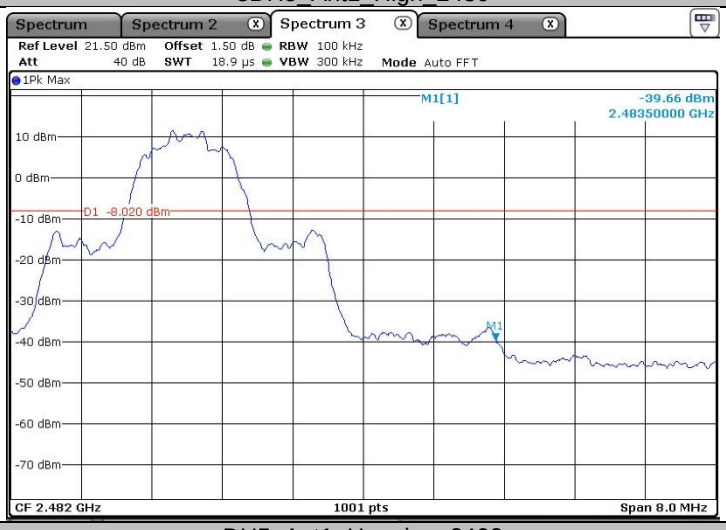
DH5_Ant1_High_2480



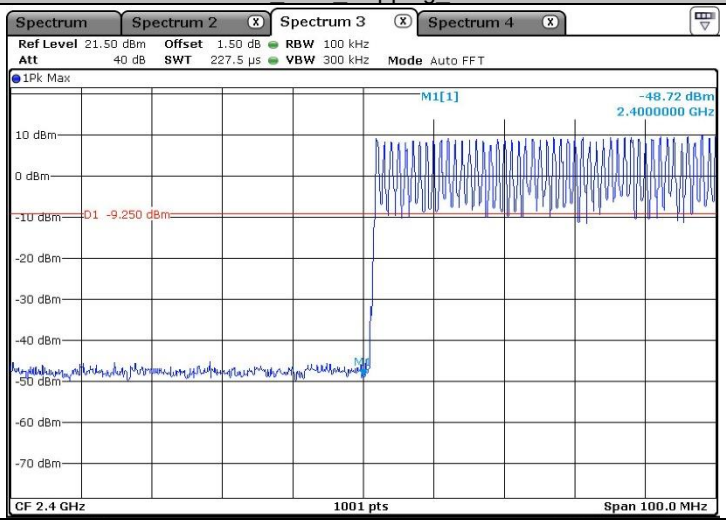
3DH5_Ant1_Low_2402



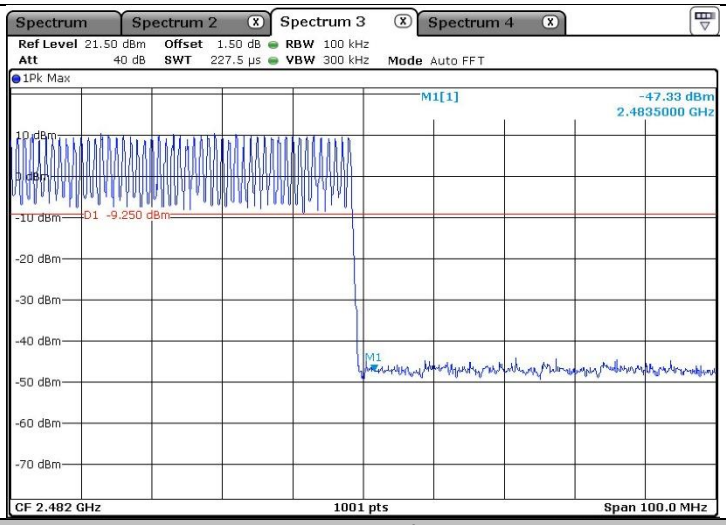
3DH5_Ant1_High_2480



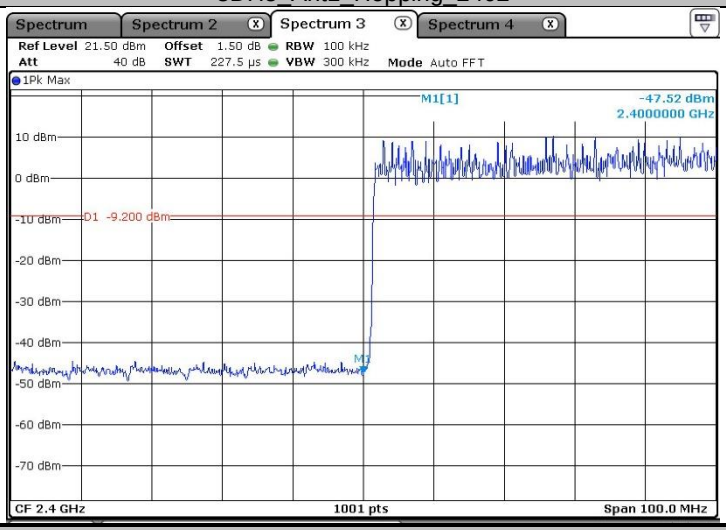
DH5_Ant1_Hopping_2402



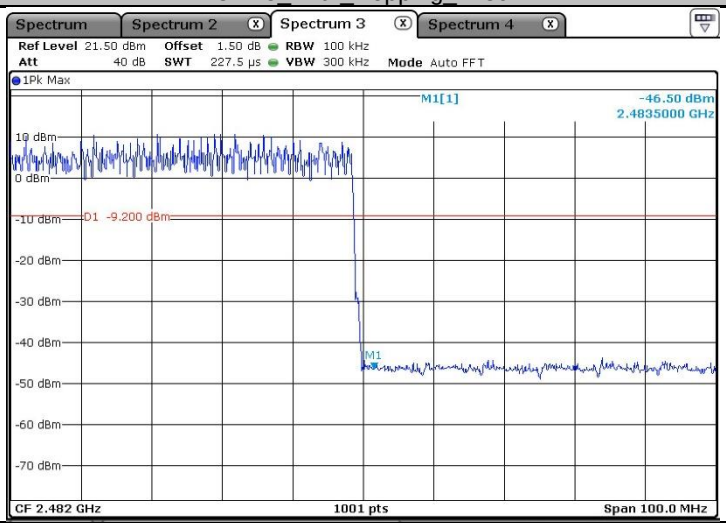
DH5_Ant1_Hopping_2480



3DH5_Ant1_Hopping_2402



3DH5_Ant1_Hopping_2480



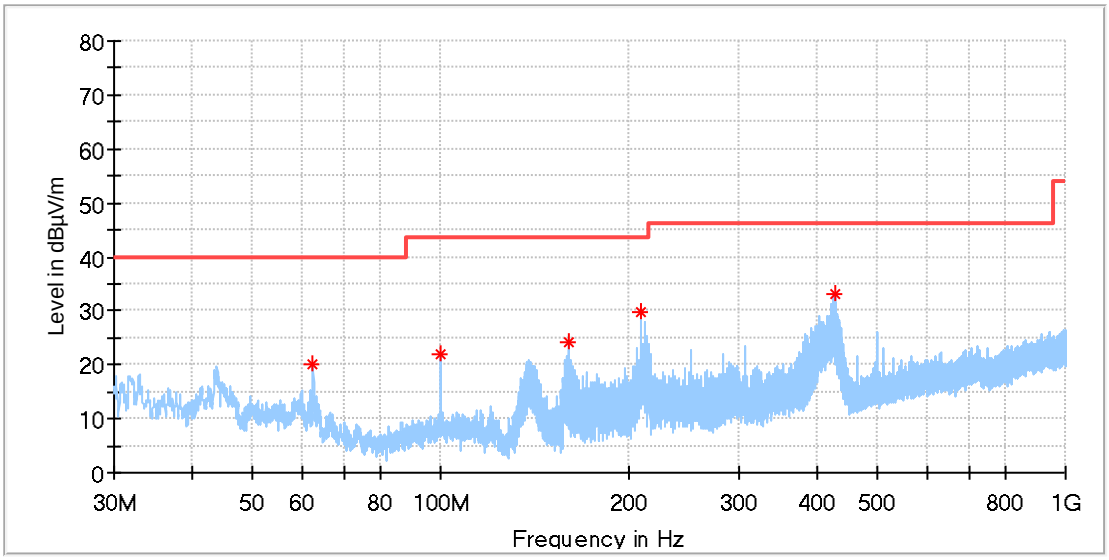
Appendix A.7: Test Results of Radiated Spurious Emissions

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

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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

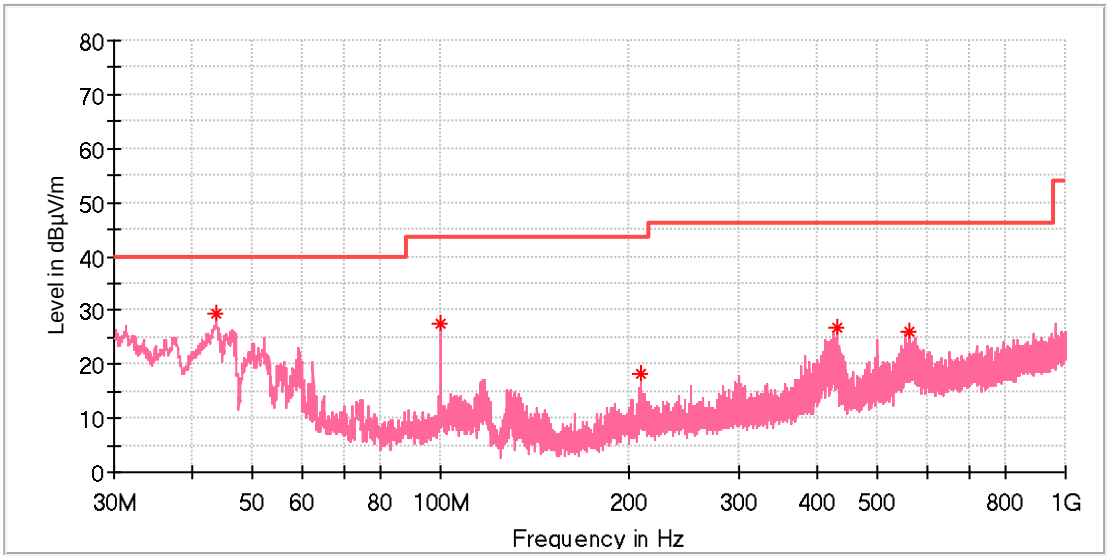


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
62.495000	20.19	40.00	19.81	100.0	H	337.0	-19.9
99.989231	21.83	43.50	21.67	100.0	H	353.0	-19.3
160.614231	24.05	43.50	19.45	100.0	H	272.0	-22.0
208.890385	29.91	43.50	13.59	100.0	H	239.0	-19.2
426.730000	33.25	46.00	12.75	100.0	H	272.0	-13.6

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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

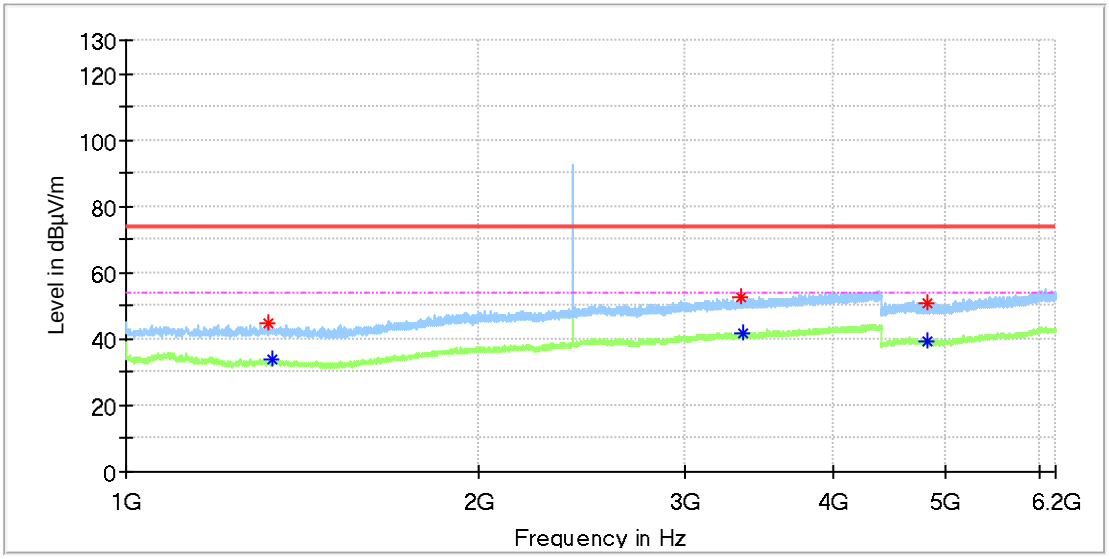
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.691923	29.51	40.00	10.49	100.0	V	25.0	-19.4
99.989231	27.36	43.50	16.14	100.0	V	237.0	-19.3
208.927692	18.38	43.50	25.12	100.0	V	348.0	-19.2
429.863846	26.61	46.00	19.39	100.0	V	130.0	-13.6
562.194231	26.05	46.00	19.95	100.0	V	205.0	-10.9

1GHz - 18GHz

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

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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

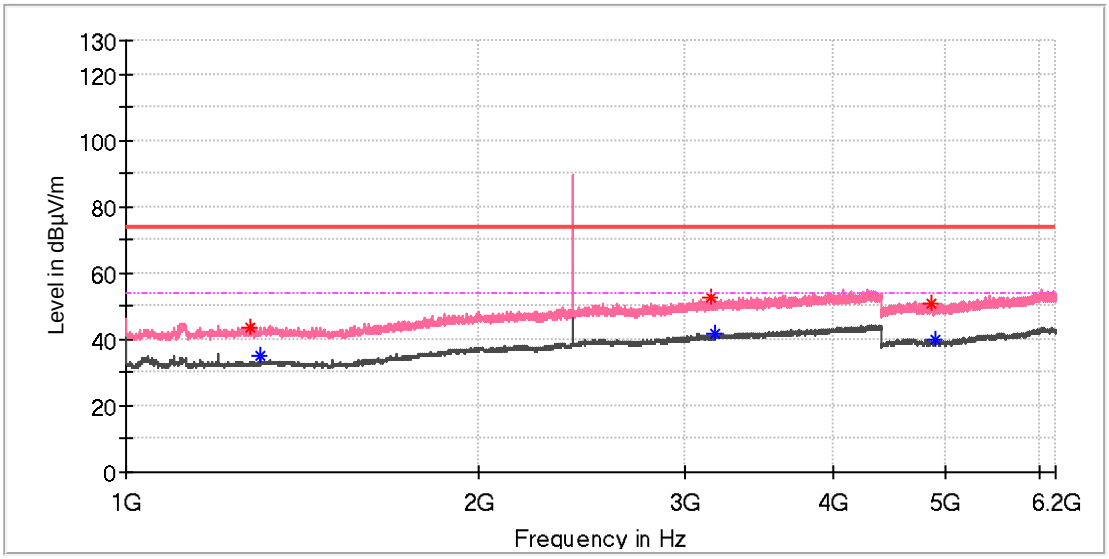


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1319.500000	44.54	---	74.00	29.46	150.0	H	0.0	2.0
1332.500000	---	33.56	54.00	20.44	150.0	H	10.0	2.1
3342.000000	52.66	---	74.00	21.34	150.0	H	60.0	8.5
3361.500000	---	41.57	54.00	12.43	150.0	H	10.0	8.6
4812.500000	50.75	---	74.00	23.25	150.0	H	325.0	11.8
4816.000000	---	39.54	54.00	14.46	150.0	H	262.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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

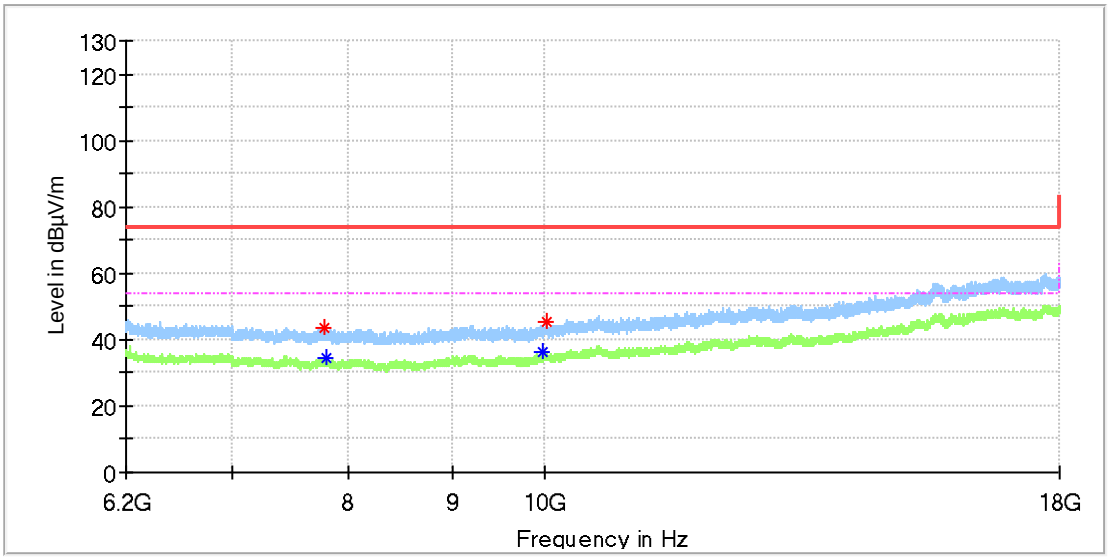


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1276.000000	43.59	---	74.00	30.41	150.0	V	95.0	1.9
1299.500000	---	35.14	54.00	18.86	150.0	V	286.0	1.9
3151.000000	52.55	---	74.00	21.45	150.0	V	309.0	8.5
3174.500000	---	41.49	54.00	12.51	150.0	V	134.0	8.6
4856.000000	50.54	---	74.00	23.46	150.0	V	229.0	11.8
4897.000000	---	39.86	54.00	14.14	150.0	V	234.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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

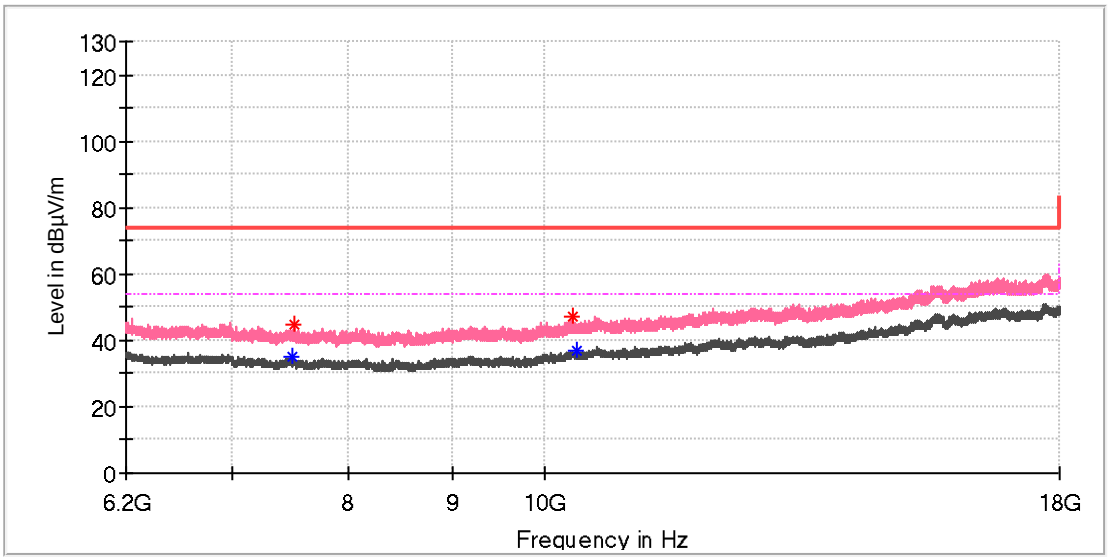


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7776.283333	43.67	---	74.00	30.33	150.0	H	0.0	8.9
7798.408333	---	34.26	54.00	19.74	150.0	H	150.0	8.9
9976.983333	---	36.06	54.00	17.94	150.0	H	238.0	11.1
10027.625000	45.60	---	74.00	28.41	150.0	H	55.0	11.1

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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

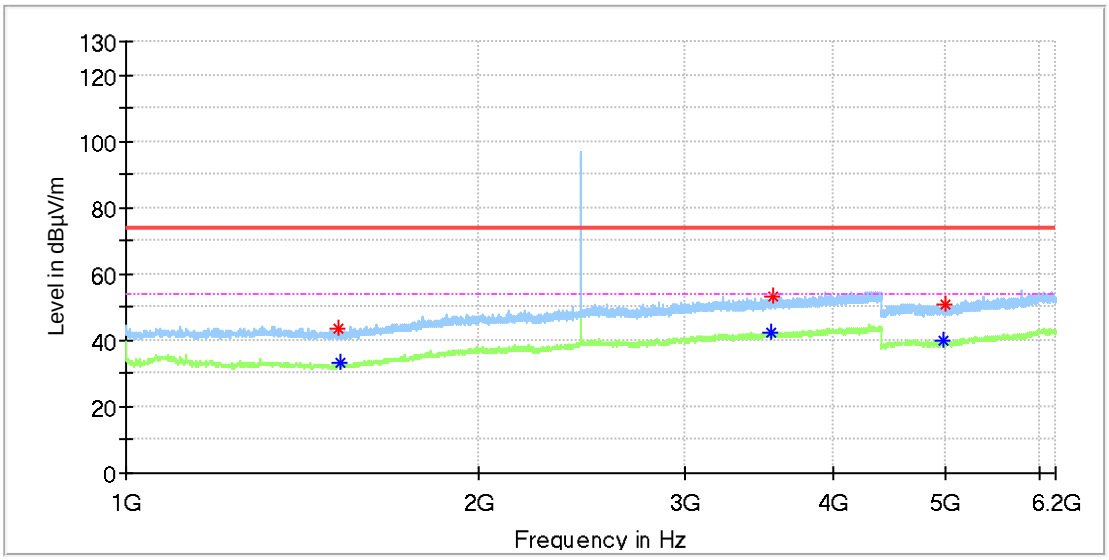


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7499.475000	---	34.80	54.00	19.20	150.0	V	331.0	8.7
7521.108333	44.81	---	74.00	29.19	150.0	V	341.0	8.7
10330.491667	47.10	---	74.00	26.90	150.0	V	0.0	11.7
10361.958333	---	37.06	54.00	16.94	150.0	V	171.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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

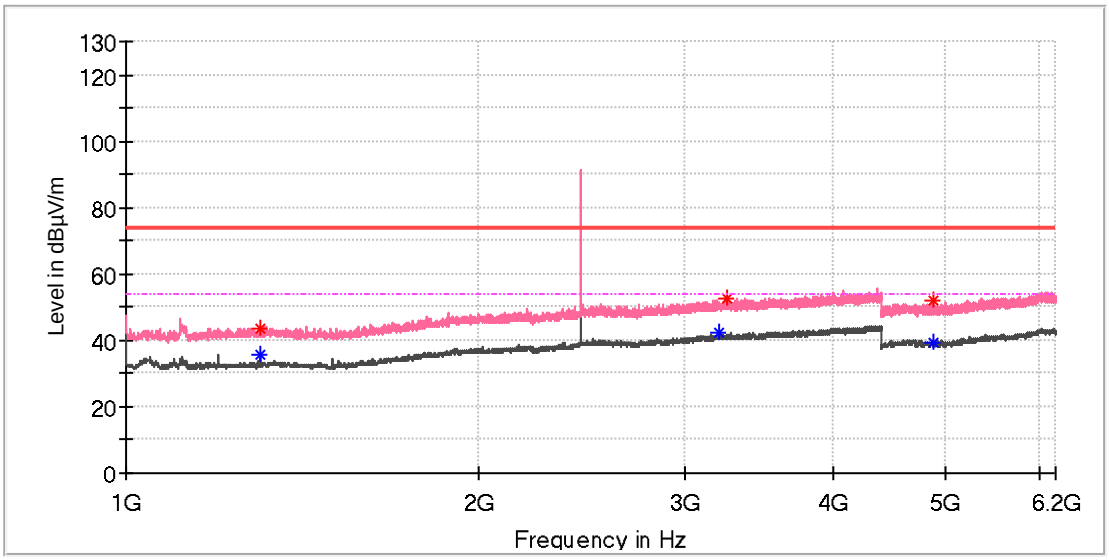


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1518.500000	43.74	---	74.00	30.26	150.0	H	294.0	1.3
1522.500000	---	33.00	54.00	21.00	150.0	H	117.0	1.3
3546.000000	---	42.52	54.00	11.48	150.0	H	10.0	9.2
3559.500000	53.04	---	74.00	20.96	150.0	H	151.0	9.2
4969.000000	---	39.62	54.00	14.38	150.0	H	218.0	11.8
5002.000000	51.00	---	74.00	23.00	150.0	H	351.0	11.9

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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

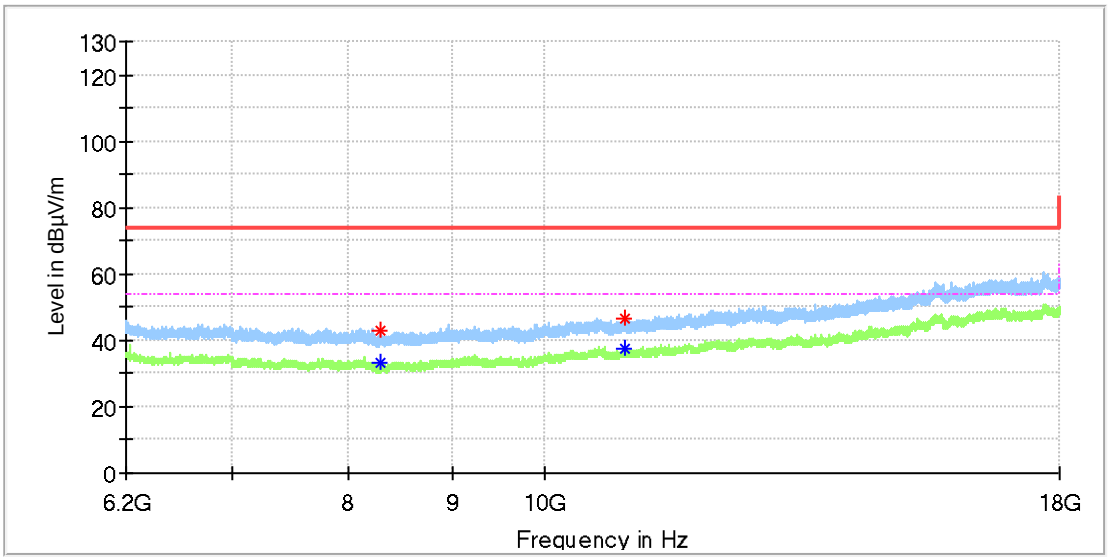


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1299.500000	---	35.66	54.00	18.34	150.0	V	2.0	1.9
1300.000000	43.77	---	74.00	30.23	150.0	V	241.0	1.9
3202.000000	---	42.44	54.00	11.56	150.0	V	123.0	8.6
3247.000000	52.86	---	74.00	21.14	150.0	V	236.0	8.5
4869.000000	52.10	---	74.00	21.90	150.0	V	295.0	11.8
4871.500000	---	39.33	54.00	14.67	150.0	V	334.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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

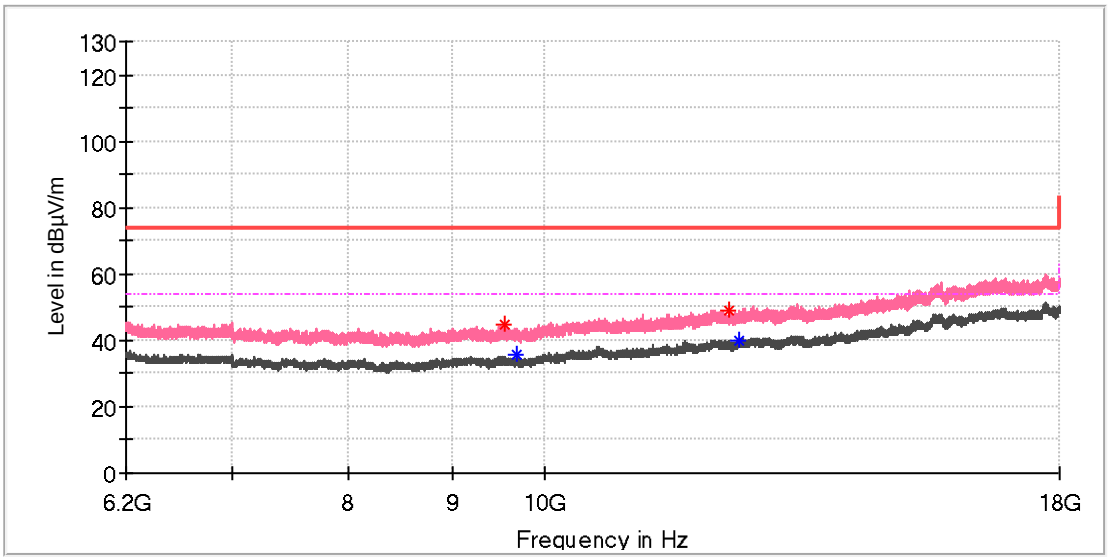


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8296.958333	---	33.35	54.00	20.65	150.0	H	2.0	8.7
8298.433333	43.19	---	74.00	30.81	150.0	H	138.0	8.7
10951.958333	---	37.52	54.00	16.48	150.0	H	128.0	12.2
10966.708333	46.64	---	74.00	27.36	150.0	H	149.0	12.2

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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

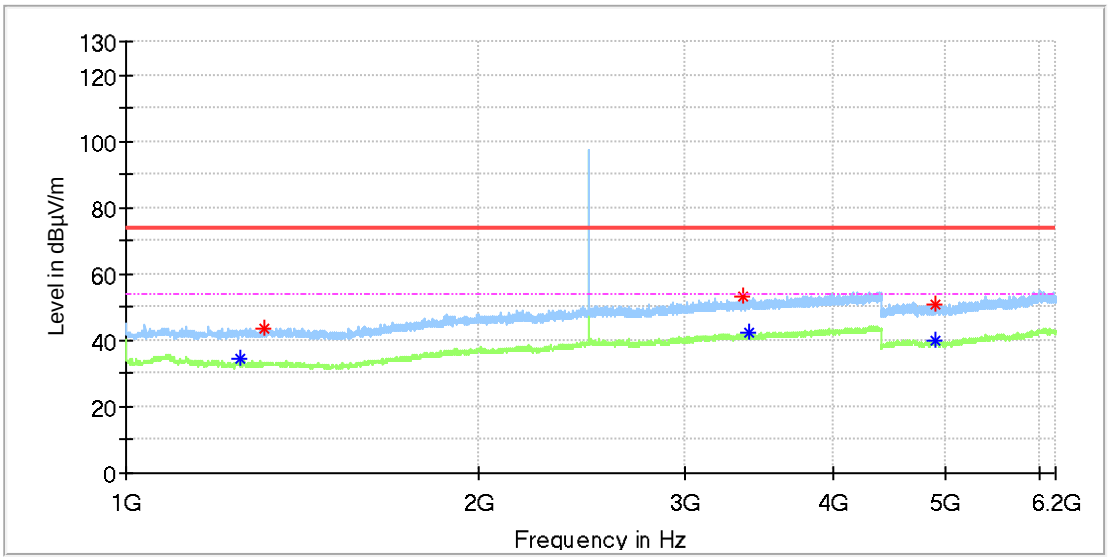


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9551.200000	44.52	---	74.00	29.48	150.0	V	327.0	10.2
9684.441667	---	35.43	54.00	18.57	150.0	V	264.0	10.4
12328.625000	48.98	---	74.00	25.02	150.0	V	65.0	14.9
12484.483333	---	39.81	54.00	14.19	150.0	V	306.0	14.6

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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

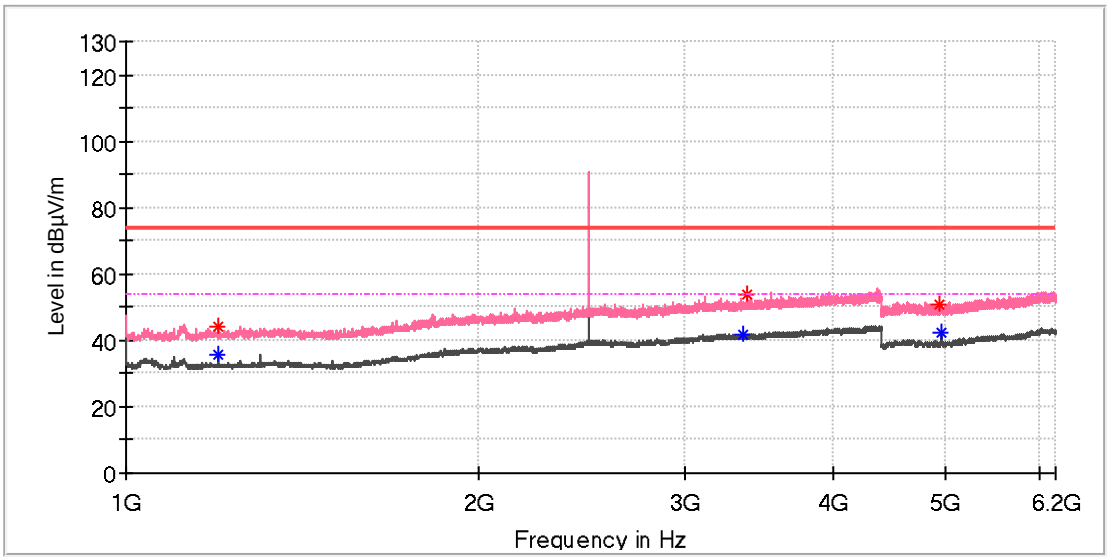


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1249.500000	---	34.58	54.00	19.42	150.0	H	97.0	1.9
1312.500000	43.71	---	74.00	30.29	150.0	H	62.0	2.0
3354.000000	53.03	---	74.00	20.97	150.0	H	181.0	8.6
3391.500000	---	42.37	54.00	11.63	150.0	H	51.0	8.7
4902.000000	---	39.62	54.00	14.38	150.0	H	347.0	11.8
4904.500000	50.71	---	74.00	23.29	150.0	H	110.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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

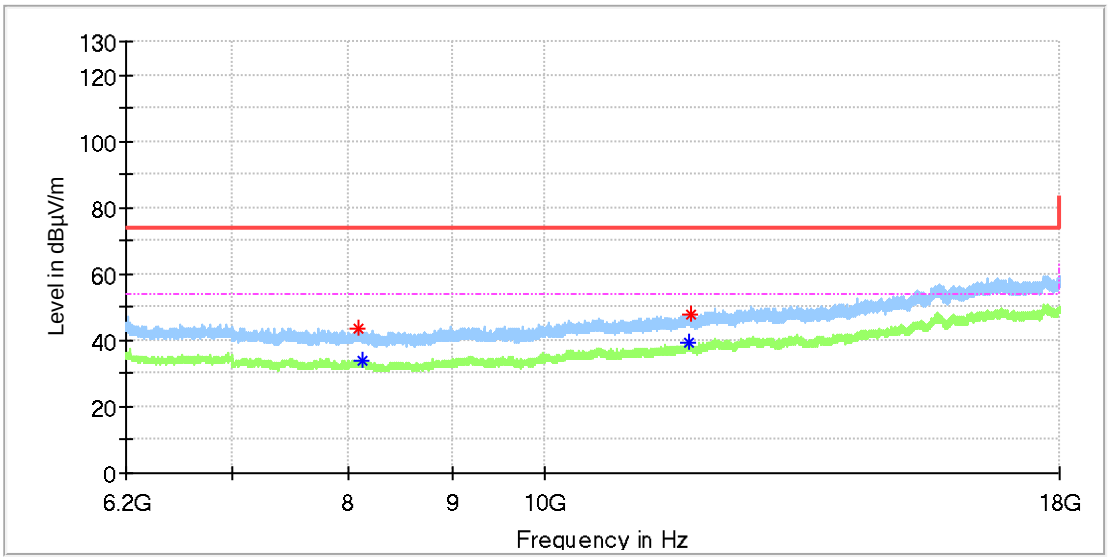


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1199.500000	43.85	---	74.00	30.15	150.0	V	16.0	1.1
1199.500000	---	35.57	54.00	18.43	150.0	V	16.0	1.1
3359.500000	---	41.93	54.00	12.07	150.0	V	0.0	8.6
3379.000000	53.68	---	74.00	20.32	150.0	V	209.0	8.6
4934.000000	50.60	---	74.00	23.40	150.0	V	310.0	11.8
4960.000000	---	42.15	54.00	11.85	150.0	V	9.0	11.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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

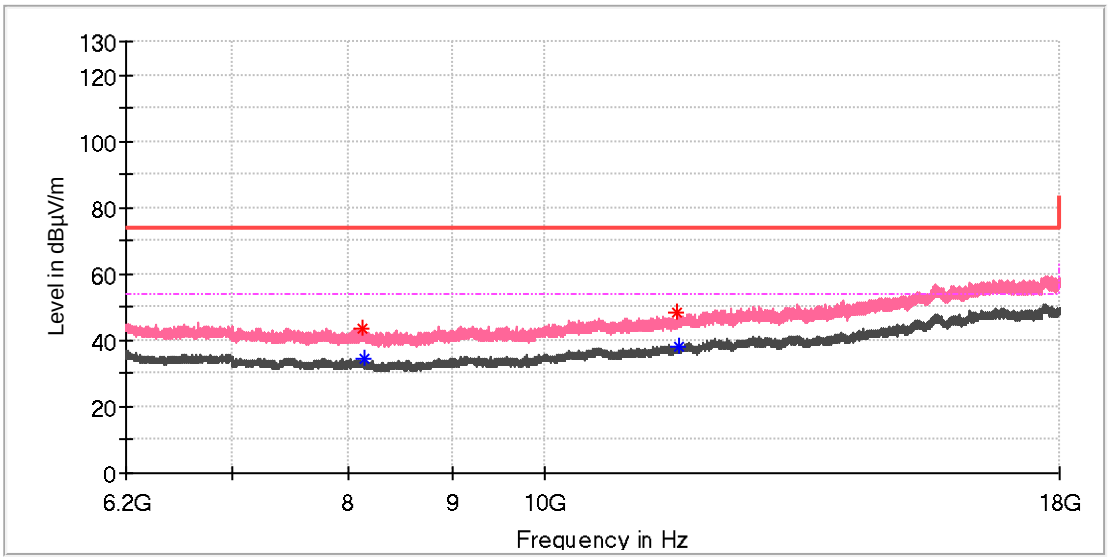


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8084.066667	43.25	---	74.00	30.75	150.0	H	87.0	8.9
8123.400000	---	34.04	54.00	19.96	150.0	H	118.0	8.9
11800.083333	---	39.18	54.00	14.82	150.0	H	24.0	13.4
11830.075000	47.61	---	74.00	26.39	150.0	H	181.0	13.5

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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



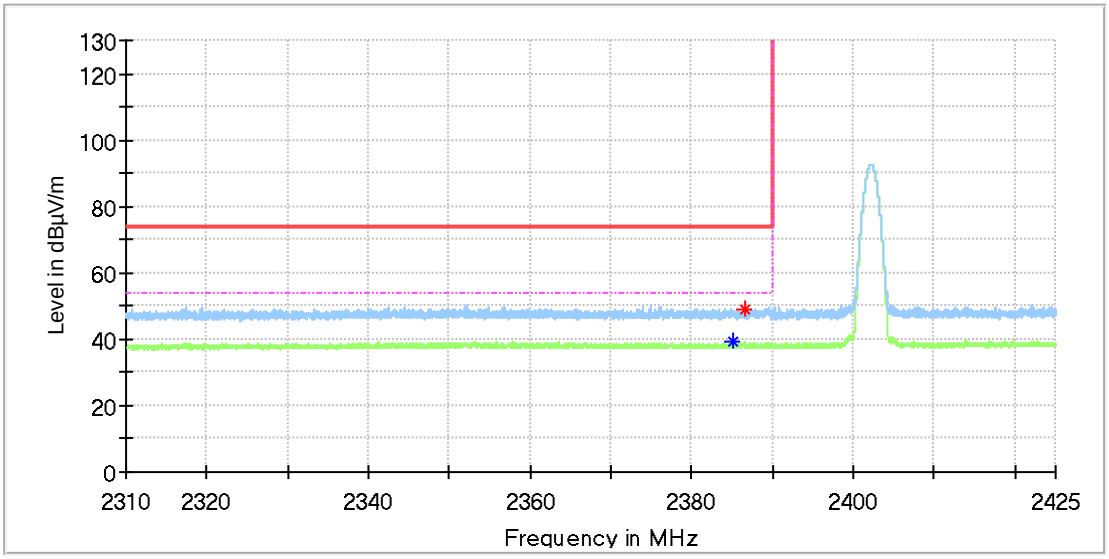
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8126.350000	43.55	---	74.00	30.45	150.0	V	137.0	9.0
8135.200000	---	34.27	54.00	19.73	150.0	V	214.0	9.0
11625.050000	48.42	---	74.00	25.58	150.0	V	311.0	13.3
11663.400000	---	38.16	54.00	15.84	150.0	V	332.0	13.3

Appendix A.8: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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

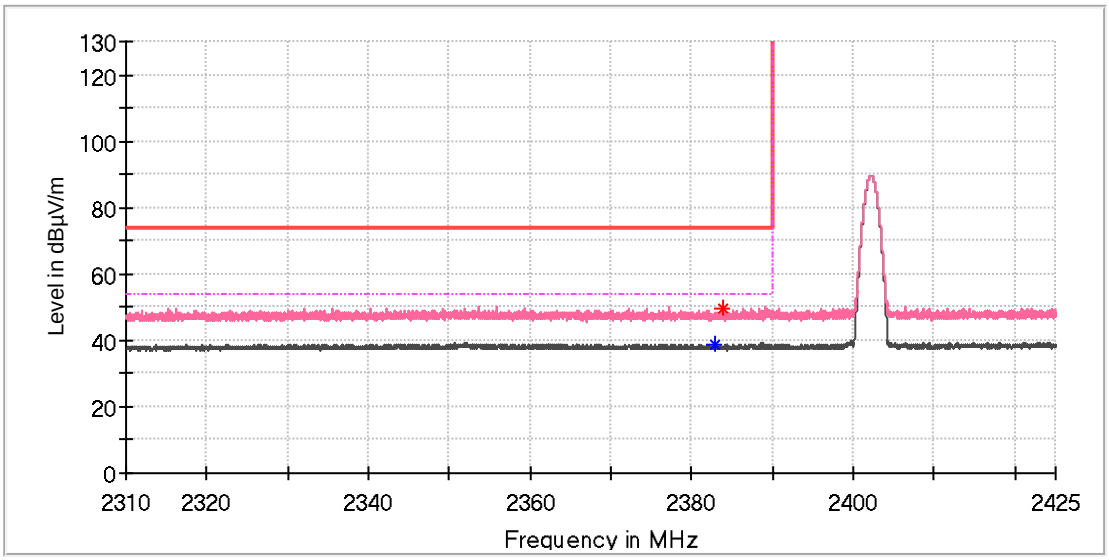


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.054412	---	39.12	54.00	14.88	150.0	H	12.0	7.0
2386.525735	49.21	---	74.00	24.79	150.0	H	18.0	7.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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

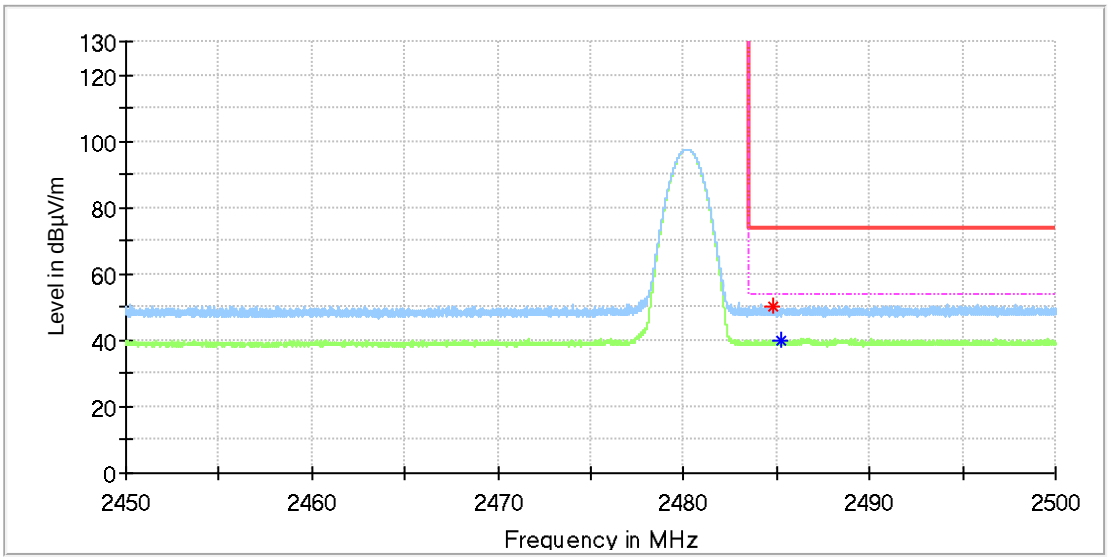


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2382.889706	---	38.68	54.00	15.32	150.0	V	92.0	7.0
2383.938235	49.81	---	74.00	24.19	150.0	V	0.0	7.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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

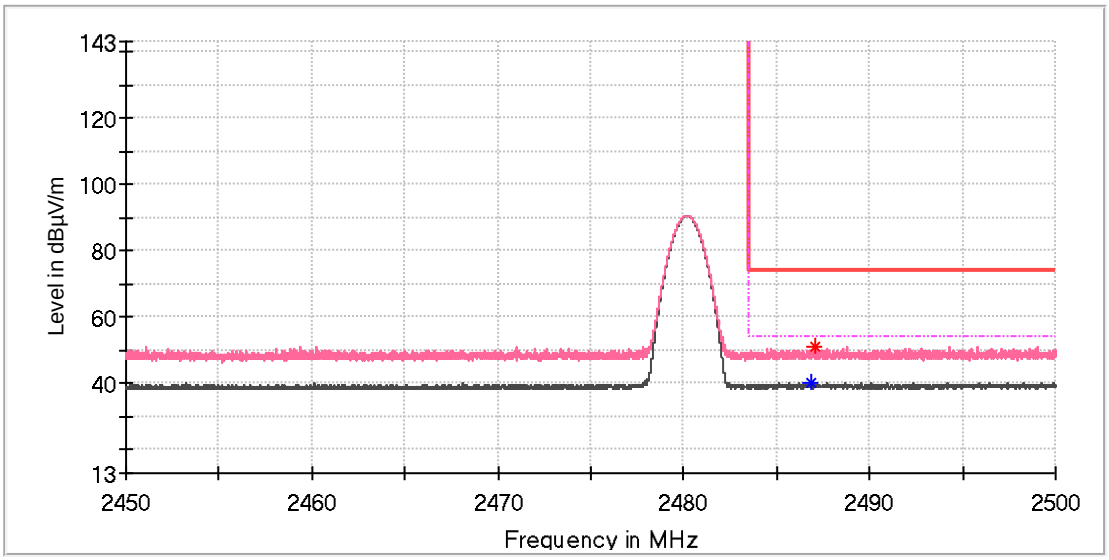


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.845588	50.31	---	74.00	23.69	150.0	H	191.0	7.4
2485.198529	---	39.71	54.00	14.29	150.0	H	8.0	7.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	BR DH5_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)
2486.882353	---	40.03	54.00	13.97	150.0	V	137.0	7.4
2487.044118	50.91	---	74.00	23.09	150.0	V	302.0	7.4