



FCC PART 15.247

TEST REPORT

For

Harman Professional, Inc.

8500 Balboa Boulevard, Northridge, California, United States 91325

FCC ID: 2AUHEDEE82

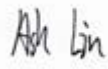
Report Type: Original Report	Product Name: JBL DEE SERIES
Report Number:	<u>2607S19952E-RF-02</u>
Report Date:	<u>2026-08-08</u>
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2607S19952E-RF-02	R1V1	2026-08-08	Initial Release

GENERAL INFORMATION**Product Description for Equipment under Test (EUT)**

Applicant:	Harman Professional, Inc.
Product Name:	JBL DEE SERIES
Tested Model:	JBL DEE 8.2
Multiple Model(s):	N/A
Trade Mark:	JBL
Power Supply:	AC 100-240V, 50/60Hz
Maximum Conducted Output Peak Power:	0.89 dBm
Frequency Range:	2402-2480MHz
Modulation Technique:	GFSK
Antenna Type:	FPC antenna
★Maximum Antenna Gain:	2.05 dBi
EUT Received Status:	Good
<i>Note:</i> 1. The Maximum Antenna Gain was declared by manufacturer. 2. All measurement and test data in this report was gathered from production sample serial number: 3L0Z-1 (RF conducted), 3L0Z-2 (Conducted Emission and Radiated Spurious Emission) (Assigned by the BACL(Xiamen). The EUT supplied by the applicant was received on 2026-04-28)	

Objective

This report is prepared on behalf of *Harman Professional, Inc.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Xiamen).

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen, People's Republic of China.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

Measurement Uncertainty

Item		U_{lab}
Radiated Spurious Emission	9kHz-150kHz	2.82dB
	150kHz-30MHz	2.74dB
	30MHz~1GHz	4.68dB
	1GHz~18GHz	5.00dB
	18GHz~26.5GHz	4.90dB
Occupied Channel Bandwidth		1.69%
Transmitter Conducted Power(Conducted RF power)		±0.43 dB
Conducted Spurious Emission		±2.92 dB
Power Spectral Density		±2.52dB
Duty Cycle		1%
Temperature		±1°C
Humidity		±5%
Supply voltages		±1%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

SYSTEM TEST CONFIGURATION

Test Mode and Voltage

The system configured for testing in engineering mode, which was provided by applicant.	
Test mode:	Transmitting
Test voltage:	AC 120V/60Hz
Remark:	During all emission tests, the EUT was configured to measure its highest possible emission level and the worst case's test data was presented in this test report.

Description of Test Configuration

For BLE mode, 40 channels are provided to testing:

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

EUT was tested with Channel 0, 19 and 39.

Equipment Modifications

No modification was made to the EUT tested.

★EUT Exercise Software

RF Test Tool: FCC assist 1.0.2.2

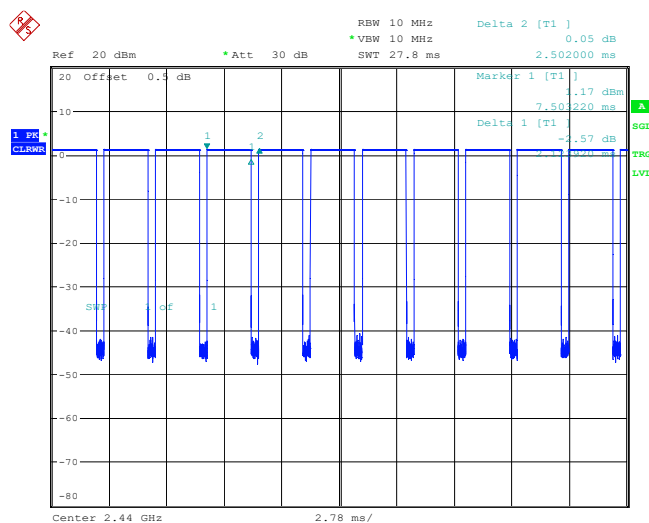
Mode	Power level		
	Low channel	Middle channel	High channel
BLE 1Mbps	Default	Default	Default

Note: the applicant declared the power level.

Duty cycle

Test Mode:		Transmitting		Test Engineer:		Spike Gao
Test Date:		2026-05-07		Environment:		Temp.: 25.6°C Humi.: 57% Atm :100.1kPa
Test Modes	Test Frequency (MHz)	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (kHz)
BLE 1Mbps	2440	2.124	2.502	84.89	471	0.5

BLE 1Mbps: Middle Channel



ProjectNo.:2607S19952E-RF Tester:Spike Gao
Date: 7.MAY.2026 09:16:16

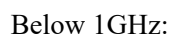
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Unknown	Load 1#*2	Unknown	Unknown
Unknown	Load 2#	Unknown	Unknown
Unknown	Sensor	Unknown	Unknown
Unknown	Microphone	Unknown	Unknown
Unknown	Microphone	Unknown	Unknown
Unknown	FM Antenna	Unknown	Unknown
Unknown	Audio Generator	Unknown	Unknown
Unknown	Loudspeaker	Unknown	Unknown
Unknown	Debug board	Unknown	Unknown
Lenovo	Laptop	T480	PF1P5K4F

External I/O Cable

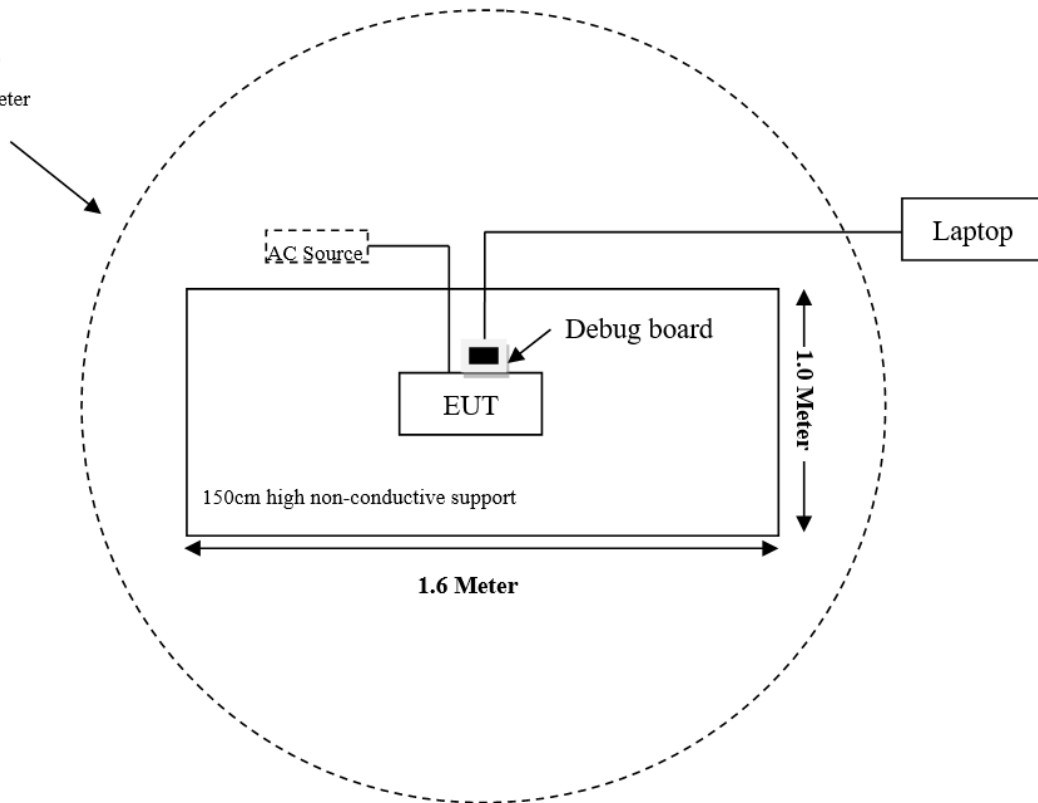
Cable Description	Length (m)	From Port	To
Cable*2	1	EUT	Load1#
Cable*2	1	EUT	Microphone
Cable	0.5	EUT	Loudspeaker
Cable	1	EUT	Sensor
Cable	1	EUT	FM Antenna
Cable	1.5	EUT	Load2#
Cable	1	EUT	Audio Generator
USB cable	10	Debug board	Laptop
USB cable	1	Debug board	Laptop

Conducted Emission:



Above 1GHz:

Turntable
2m Diameter



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Radiated Emissions & Restricted Bands Emissions & Antenna-port conducted emission	Compliant
§15.247(a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant
FCC §1.1307(b)(1) & §2.1091	Maximum Permissible Exposure (MPE)	Compliant

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions					
EMI Test Receiver	Rohde & Schwarz	ESR	103105	2026/01/21	2027/01/20
LISN	Rohde & Schwarz	ENV216	100129	2026/01/21	2027/01/20
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2026/01/21	2027/01/20
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC001	2026/01/20	2027/01/19
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2026/01/21	2027/01/20
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2026/05/12	2029/05/11
Antenna	Sunol Sciences	JB6	A122022-5	2026/05/12	2029/05/11
Amplifier	Sonoma	310B	120903	2026/01/22	2027/01/21
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2026/01/20	2027/01/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2026/01/20	2027/01/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2026/01/20	2027/01/19
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2026/05/12	2027/05/11
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Above 1 GHz					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2026/01/21	2027/01/20
Filter Switch Unit	Decentest	DT7220FSU	DS79904	2026/01/20	2027/01/19
Multiplex Switch Test Control Set	Decentest	DT7220SCU	DS79901	2026/01/20	2027/01/19
Horn Antenna	EMCO	3115	9002-3355	2024/11/19	2027/11/18
Preamplifier	GLOBAL	1313-A100M18G	4121301	2026/01/14	2027/01/13
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC003	2026/01/20	2027/01/19
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2026/01/20	2027/01/19
Horn Antenna	EMCO	3116	9407-2232	2026/05/12	2029/05/11
Preamplifier	A.H.Systems	PAM-1840	200	2026/01/20	2027/01/19
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-3M	CC008	2026/01/20	2027/01/19
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-1M	CC009	2026/01/20	2027/01/19
Test Software	Audix	E3	18621a	N/A	N/A
RF Conducted Test					
Spectrum Analyzer	Rohde & Schwarz	FSU	100405	2026/01/21	2027/01/20
Test Software	JD	JDAutoTestSystem	1.0.0.3813	N/A	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Xiamen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has one FPC antenna arrangement for BLE, which was permanently attached and the antenna gain is 2.05dBi, fulfill the requirement of this section. Please refer to the EUT photos.

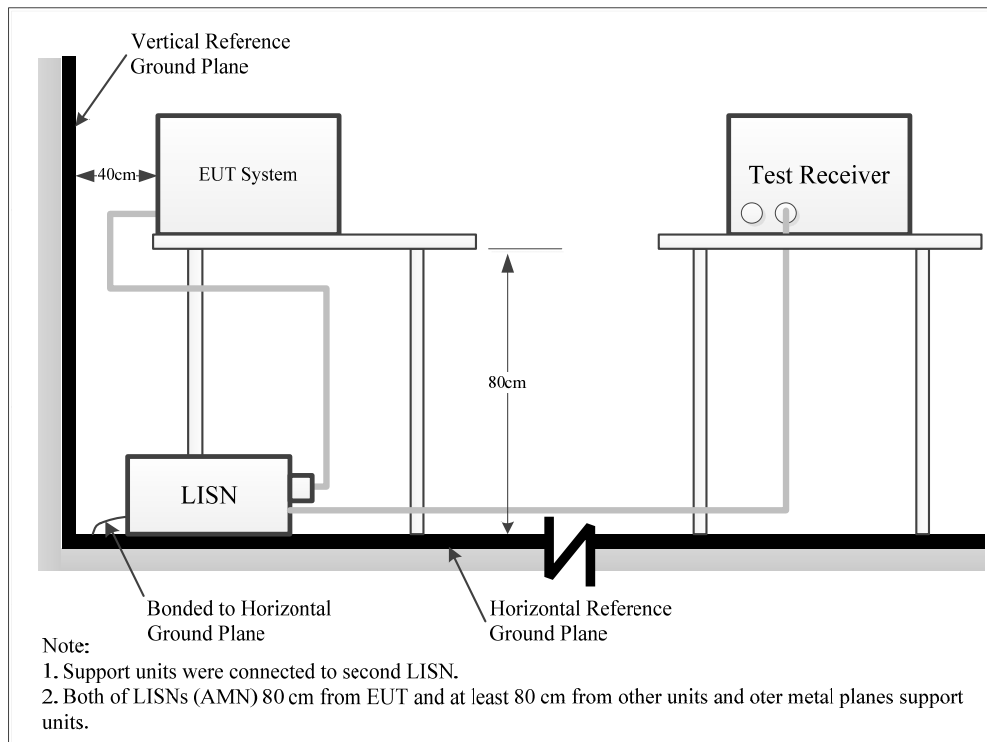
Result: Compliant

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

EUT Setup



The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

Result & Margin Calculation

The Result is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

$$\text{Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

$$\text{Result (dB}\mu\text{V)} = \text{Reading (dB}\mu\text{V)} + \text{Factor (dB)}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V)} - \text{Result (dB}\mu\text{V)}$$

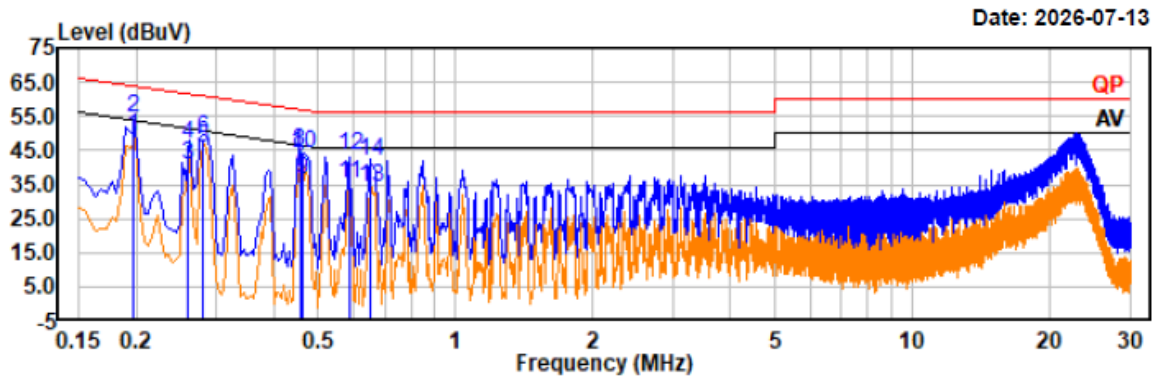
Test Data

Frequency Range:	150kHz~30MHz
Temperature:	22.2°C
Relative Humidity:	51%
ATM Pressure:	100.1kPa
Test Date:	2026-07-13
Test Engineer:	Wlif Wu

Note: The maximum output power mode: BLE 1Mbps low channel was tested.

Project No.: 2607S19952E-RF
 Test Mode: BLE 1M 2402MHz
 EUT Model: JBL DEE 8.2

Temp/Humi/ATM: 22.2°C/51%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz



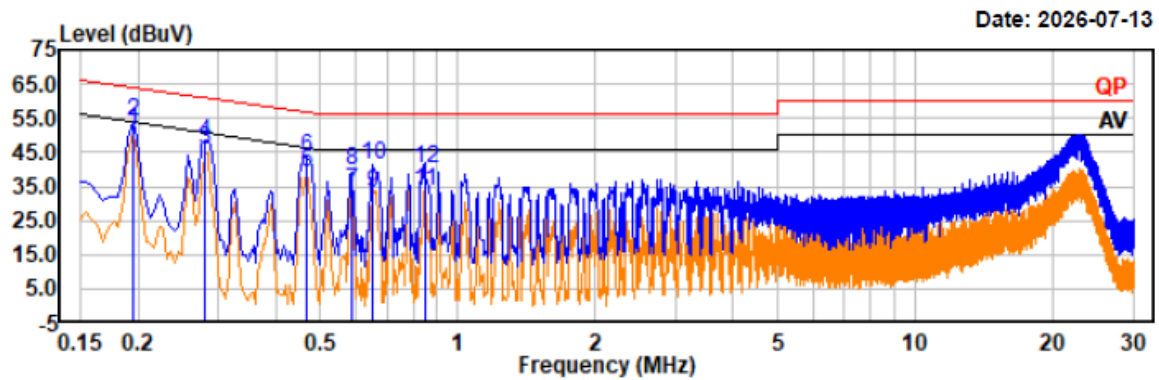
Trace: 1

Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.198	28.73	20.53	49.26	53.71	4.45	Line	Average
0.198	34.03	20.53	54.56	63.71	9.15	Line	QP
0.261	20.11	20.47	40.58	51.41	10.83	Line	Average
0.261	26.27	20.47	46.74	61.41	14.67	Line	QP
0.280	25.50	20.45	45.95	50.80	4.85	Line	Average
0.280	28.06	20.45	48.51	60.80	12.29	Line	QP
0.457	19.54	20.32	39.86	46.75	6.89	Line	Average
0.457	24.59	20.32	44.91	56.75	11.84	Line	QP
0.465	16.14	20.31	36.45	46.60	10.15	Line	Average
0.465	23.73	20.31	44.04	56.60	12.56	Line	QP
0.585	15.04	20.27	35.31	46.00	10.69	Line	Average
0.585	23.14	20.27	43.41	56.00	12.59	Line	QP
0.652	13.79	20.25	34.04	46.00	11.96	Line	Average
0.652	21.51	20.25	41.76	56.00	14.24	Line	QP

Project No.: 2607S19952E-RF
 Test Mode: BLE 1M 2402MHz
 EUT Model: JBL DEE 8.2

Temp/Humi/ATM: 22.2°C/51%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz



Trace: 1

Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.195	30.80	20.53	51.33	53.84	2.51	Neutral	Average
0.195	33.59	20.53	54.12	63.84	9.72	Neutral	QP
0.281	25.29	20.46	45.75	50.78	5.03	Neutral	Average
0.281	27.38	20.46	47.84	60.78	12.94	Neutral	QP
0.469	18.87	20.34	39.21	46.54	7.33	Neutral	Average
0.469	23.01	20.34	43.35	56.54	13.19	Neutral	QP
0.585	13.59	20.26	33.85	46.00	12.15	Neutral	Average
0.585	19.68	20.26	39.94	56.00	16.06	Neutral	QP
0.650	12.91	20.21	33.12	46.00	12.88	Neutral	Average
0.650	20.93	20.21	41.14	56.00	14.86	Neutral	QP
0.846	13.36	20.27	33.63	46.00	12.37	Neutral	Average
0.846	19.74	20.27	40.01	56.00	15.99	Neutral	QP

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

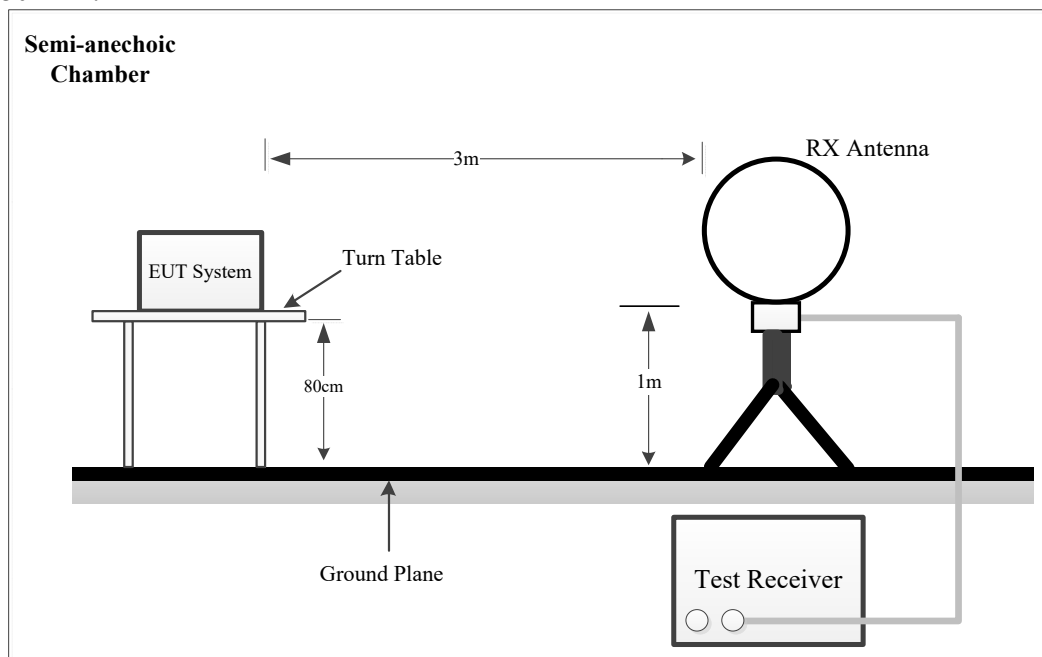
Applicable Standard

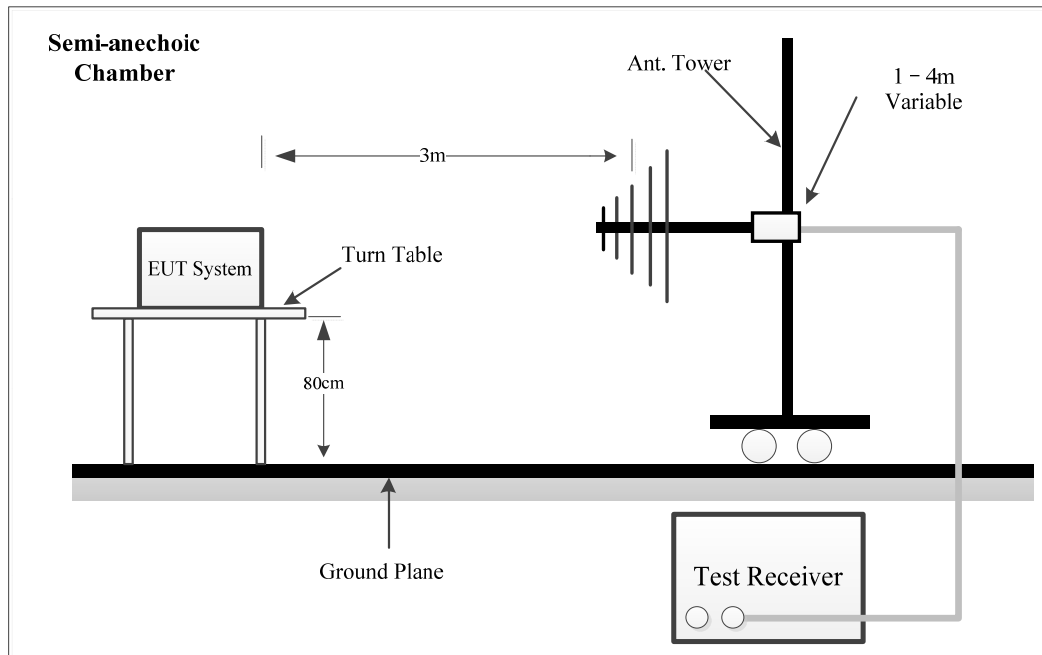
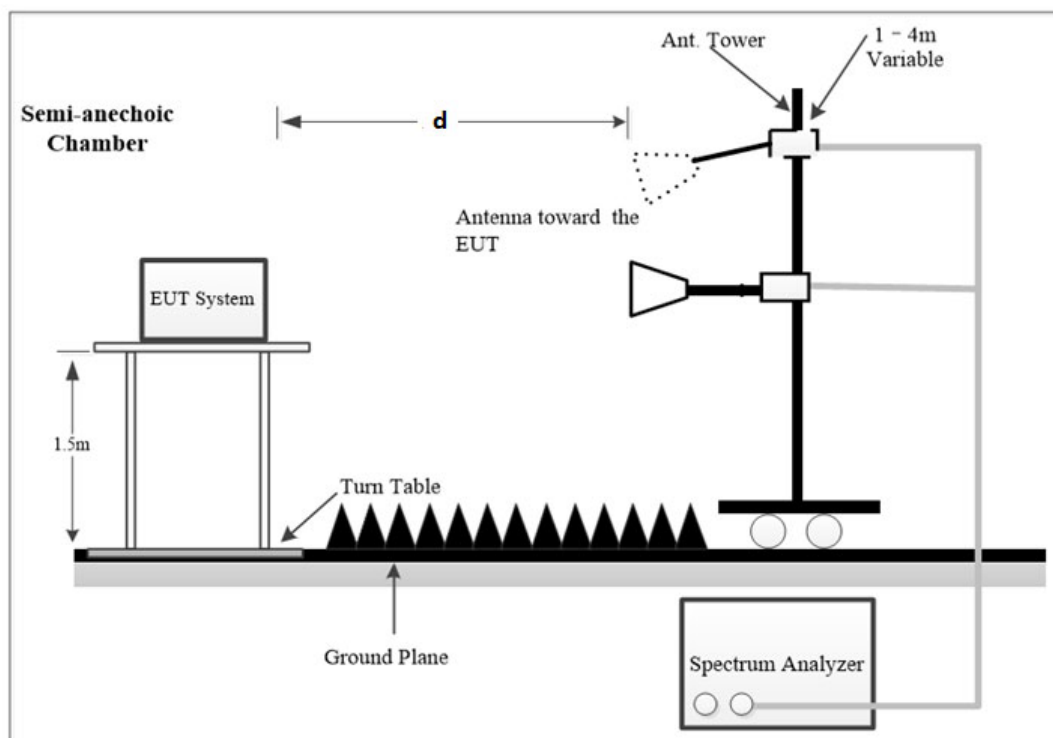
FCC §15.247 (d); §15.209; §15.205;

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

EUT Setup

9 kHz-30MHz:



30MHz -1 GHz:**Above 1GHz:**

The radiated emission tests using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, and FCC 15.247 limits.

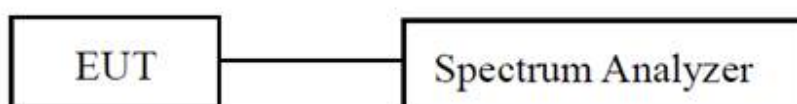
NOTE: d is testing distance;

For Radiated Emission test (1GHz-18GHz) and Bandedge Emission test, which was performed at 3 m distance.

For Radiated Emission test (18GHz-25GHz), which was performed at 1.5 m distance, according to ANSI C63.10-2020, the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m.

Distance extrapolation Factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1.5m]})$ dB = 6.0 dB

Antenna-port conducted emission:



Note: A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable was TDF into the setting of test equipment:

TDF = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Below 1GHz:

Frequency Range	RBW	VBW	Measurement
9 kHz – 150 kHz	300Hz	1 kHz	PK
	200Hz	/	QP
150 kHz – 30 MHz	10 kHz	30 kHz	PK
	9kHz	/	QP
30 MHz – 1000 MHz	100 kHz	300 kHz	PK
	120kHz	/	QP

Above 1GHz:

Pre-scan:

Measurement	Duty Cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3MHz	PK
Ave.	>98%	1MHz	5kHz	PK
	<98%	1MHz	1/T, not less than 5kHz	PK

Final measurement for emission identified during the pre-scan:

Measurement	Duty Cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3MHz	PK
Ave.	>98%	1MHz	10Hz	PK
	<98%	1MHz	1/T	PK

Note: T is minimum transmission duration

Test Procedure

Radiated Emissions:

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable. The report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground parallel) unless the margin is greater than 20 dB, then the following statement shall be made: "all emissions were greater than 20 dB below the limit."

Below 1GHz, if the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

Above 1GHz, if the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is below the AV emission limit, there's no need to record the measured AV level of the emissions in the report.

Antenna-port conducted emission:

Typical regulatory requirements specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated by an amount specified by the regulator.

- a) Set the RBW = 100 kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Sweep time = No faster than coupled (auto) time.
- e) Trace mode = max-hold.
- f) Allow trace to fully stabilize.
- g) Use the peak marker function to determine the maximum amplitude level.

Result & Margin Calculation

The Result is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

For 9 kHz to 18GHz Radiated emission test and Bandedge emissions test
Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

For 18GHz to 25GHz Radiated emission test
Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB) - Extrapolation factor (dB)

Extrapolation factor = 6dB (distance = 1.5m)

Result (dBμV/m) = Reading (dBμV) + Factor (dB/m)

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dBμV/m) - Result (dBμV/m)

Test Data

Please refer to the below table and plots.

Frequency Range:	Below 1 GHz	Above 1 GHz	Antenna-port emission conducted
Temperature:	24.5°C	24.5°C	25.6°C
Relative Humidity:	61%	61%	57%
ATM Pressure:	100.1kPa	100.1kPa	100.1kPa
Test Date:	2026-05-30	2026-05-30	2026-05-07
Test Engineer:	Wlif Wu	Wlif Wu	Spike Gao

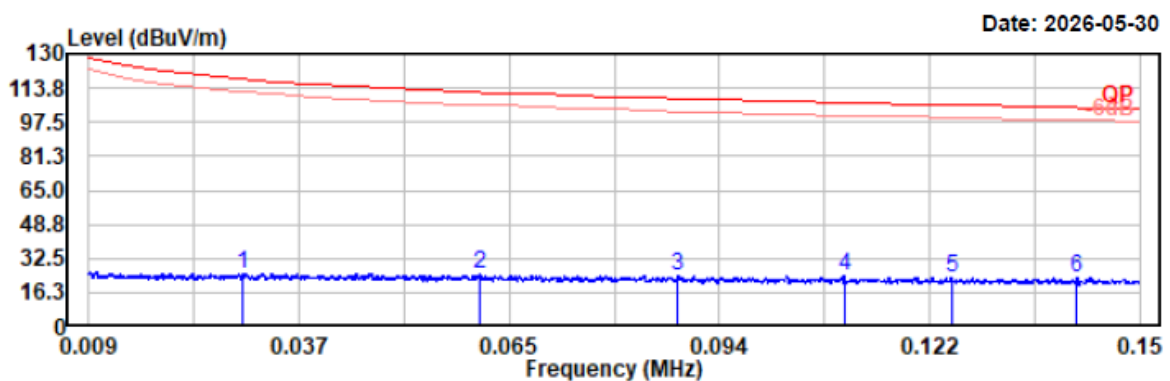
1) 9 kHz~30MHz

Pre-scan in parallel, ground-parallel and perpendicular of orientation of loop antenna, parallel is worst case.

Note: The maximum output power mode: BLE 1Mbps low channel was tested.

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: JBL DEE 8.2
Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

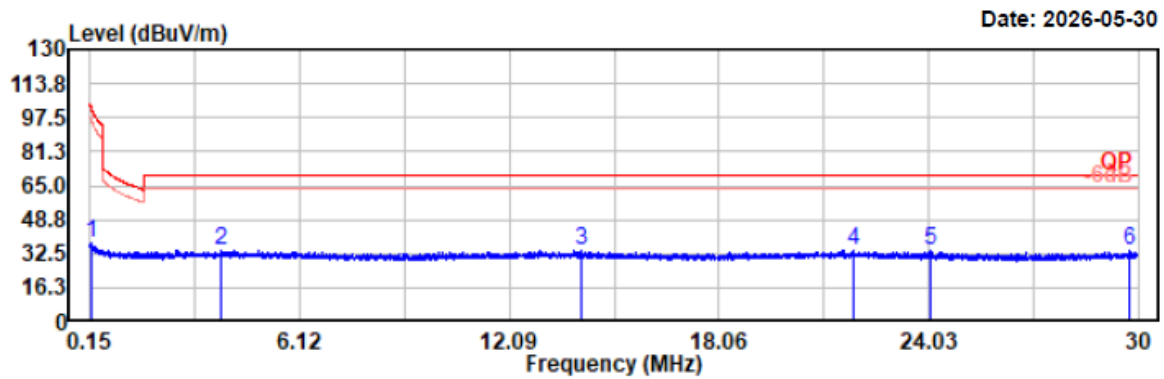


Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.030	5.61	19.91	25.52	118.16	92.64	Peak
0.061	5.22	19.90	25.12	111.84	86.72	Peak
0.088	4.60	19.79	24.39	108.71	84.32	Peak
0.110	4.50	19.73	24.23	106.75	82.52	Peak
0.125	3.68	19.73	23.41	105.69	82.28	Peak
0.142	3.64	19.73	23.37	104.59	81.22	Peak

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: JBL DEE 8.2
Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Condition: PK RBW:10kHz VBW:30kHz SWT:auto

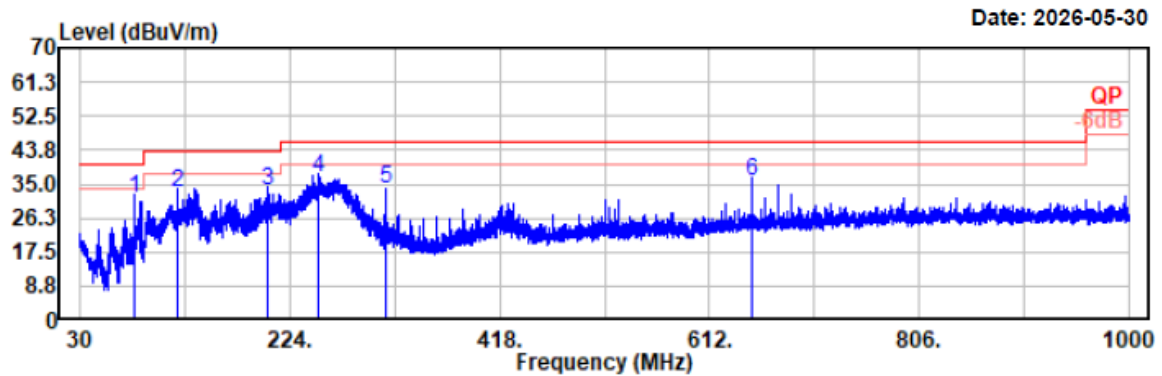
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.180	18.29	19.72	38.01	102.51	64.50	Peak
3.866	14.47	19.77	34.24	69.54	35.30	Peak
14.129	14.23	19.75	33.98	69.54	35.56	Peak
21.911	14.04	20.14	34.18	69.54	35.36	Peak
24.105	13.55	20.19	33.74	69.54	35.80	Peak
29.764	13.81	19.97	33.78	69.54	35.76	Peak

2) 30MHz-1GHz

Note: The maximum output power mode: BLE 1Mbps low channel was tested.

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: JBL DEE 8.2
Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

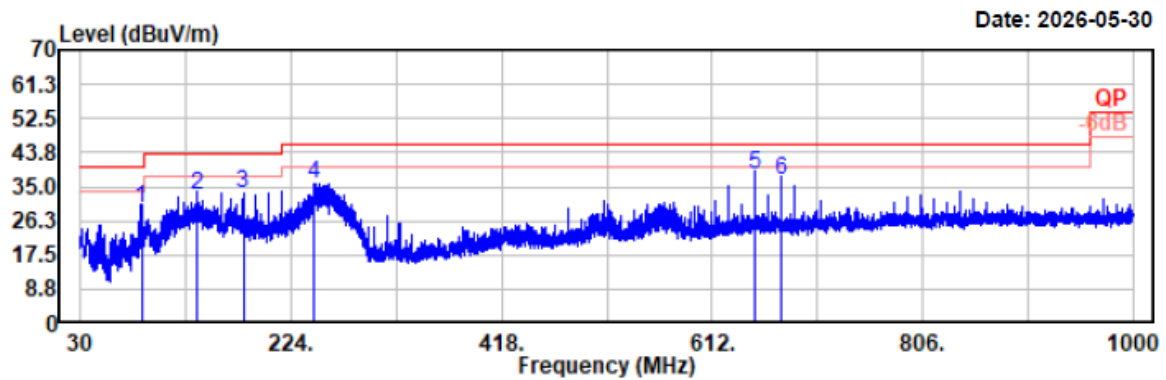


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
79.96	47.97	-16.76	31.21	40.00	8.79	Horizontal	QP
119.92	42.97	-10.08	32.89	43.50	10.61	Horizontal	QP
203.92	44.99	-11.89	33.10	43.50	10.40	Horizontal	QP
250.48	47.62	-11.08	36.54	46.00	9.46	Horizontal	QP
311.98	42.54	-8.65	33.89	46.00	12.11	Horizontal	Peak
651.29	36.00	-0.48	35.52	46.00	10.48	Horizontal	QP

Project No.: 2607S19952E-RF
 Test Mode: BLE 1M 2402MHz
 EUT Model: JBL DEE 8.2
 Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz



Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
86.16	46.53	-16.97	29.56	40.00	10.44	Vertical	QP
136.99	43.32	-10.39	32.93	43.50	10.57	Vertical	QP
179.96	45.49	-12.05	33.44	43.50	10.06	Vertical	Peak
245.73	46.95	-11.26	35.69	46.00	10.31	Vertical	Peak
651.29	38.54	-0.48	38.06	46.00	7.94	Vertical	QP
675.83	37.33	-0.51	36.82	46.00	9.18	Vertical	QP

3) 1GHz~3GHz

Project No.: 2607S19952E-RF

Test Mode: BLE 1M 2402MHz

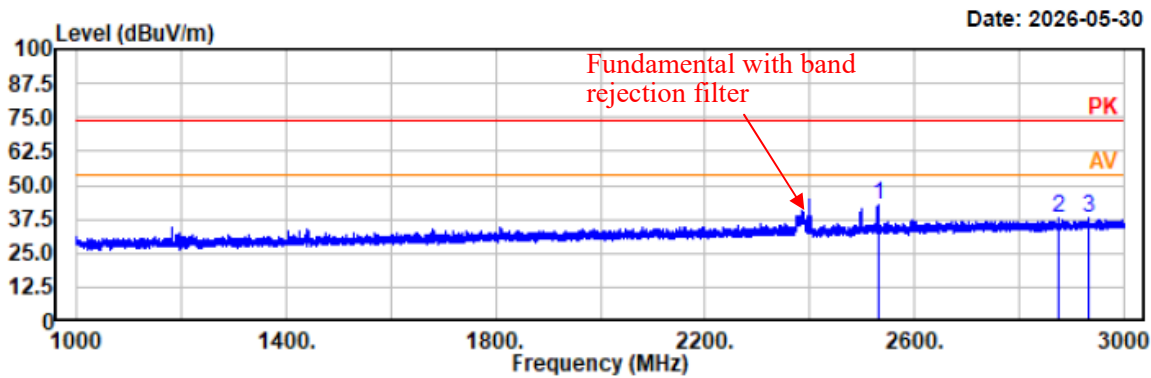
EUT Model: JBL DEE 8.2

Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz

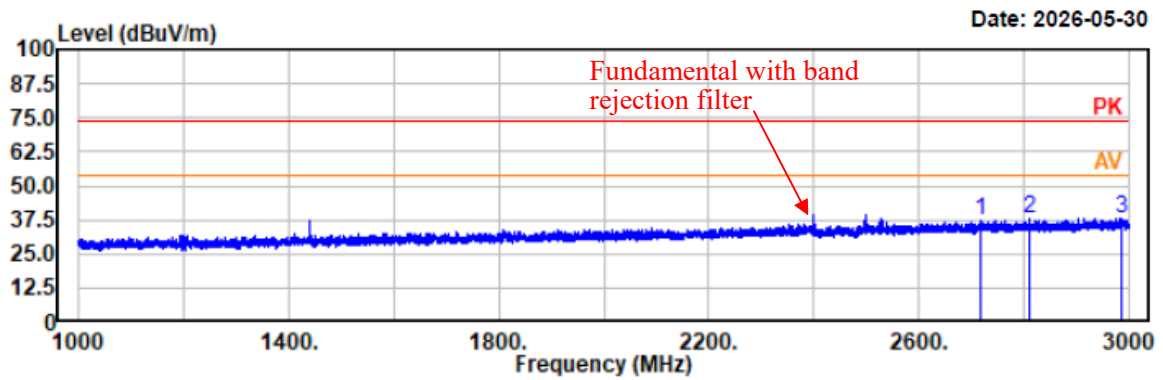


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2530.60	53.44	-10.64	42.80	74.00	31.20	horizontal	Peak
2874.20	47.48	-9.59	37.89	74.00	36.11	horizontal	Peak
2933.40	47.15	-9.32	37.83	74.00	36.17	horizontal	Peak

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: JBL DEE 8.2
Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

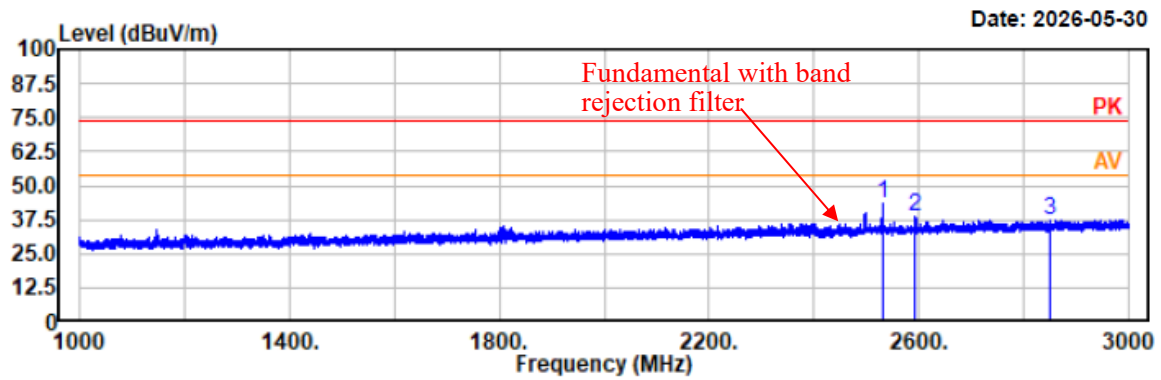


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2718.20	47.09	-9.98	37.11	74.00	36.89	vertical	Peak
2810.20	47.85	-9.76	38.09	74.00	35.91	vertical	Peak
2986.20	47.02	-9.02	38.00	74.00	36.00	vertical	Peak

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: JBL DEE 8.2
Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

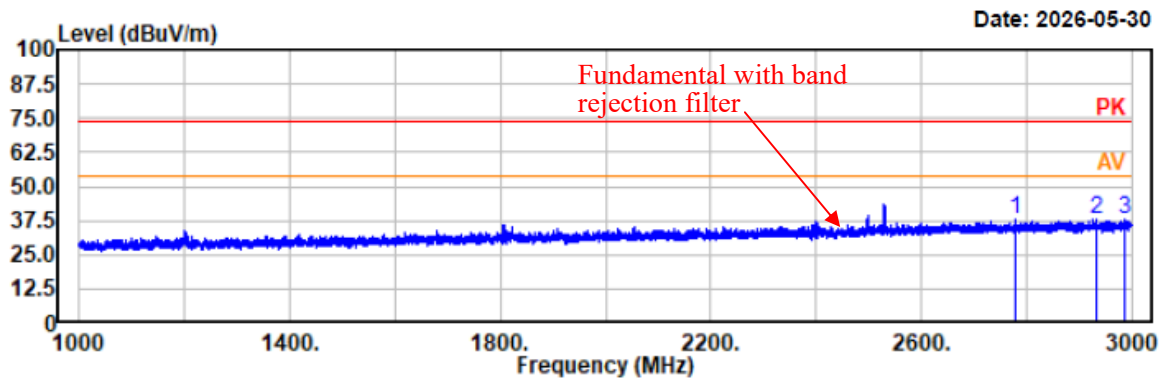


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2530.20	53.97	-10.64	43.33	74.00	30.67	horizontal	Peak
2594.20	49.32	-10.42	38.90	74.00	35.10	horizontal	Peak
2849.80	46.86	-9.62	37.24	74.00	36.76	horizontal	Peak

Project No.: 2607S19952E-RF
 Test Mode: BLE 1M 2440MHz
 EUT Model: JBL DEE 8.2
 Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz

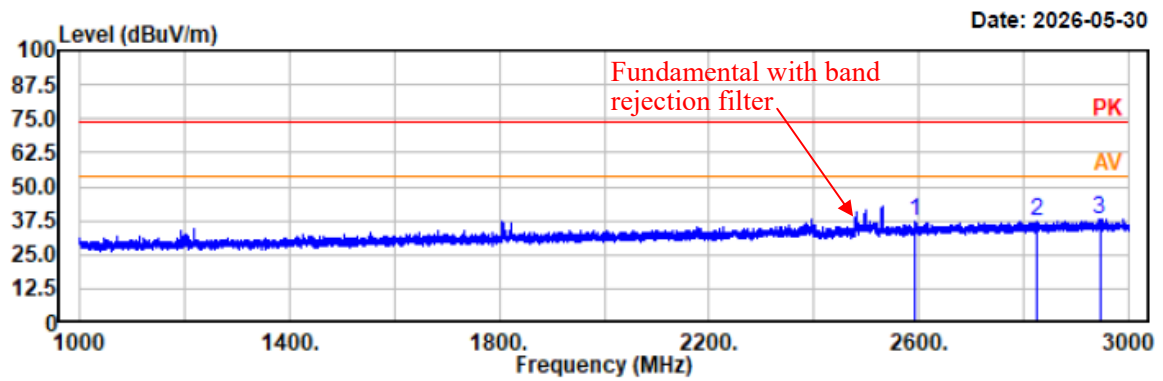


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2779.40	48.00	-9.85	38.15	74.00	35.85	vertical	Peak
2932.00	47.07	-9.33	37.74	74.00	36.26	vertical	Peak
2987.40	46.81	-9.01	37.80	74.00	36.20	vertical	Peak

Project No.: 2607S19952E-RF
 Test Mode: BLE 1M 2480MHz
 EUT Model: JBL DEE 8.2
 Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz

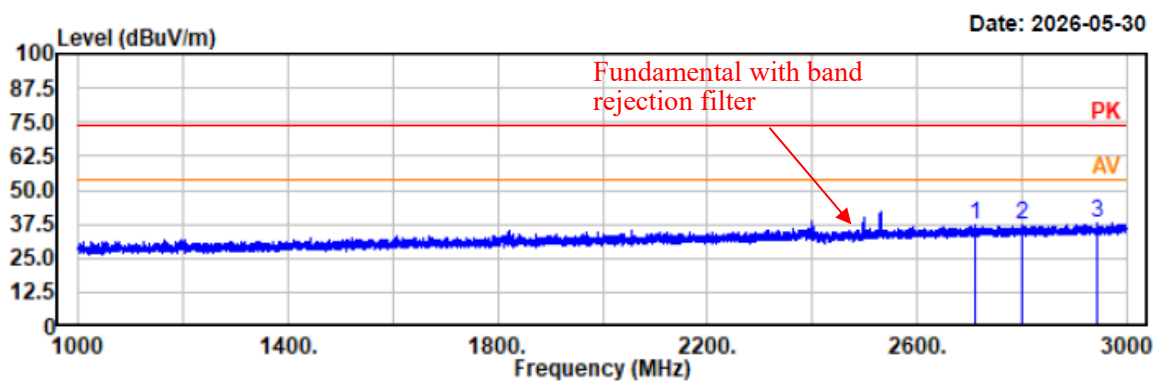


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2593.80	47.55	-10.42	37.13	74.00	36.87	horizontal	Peak
2825.40	46.79	-9.70	37.09	74.00	36.91	horizontal	Peak
2945.20	47.50	-9.24	38.26	74.00	35.74	horizontal	Peak

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: JBL DEE 8.2
Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



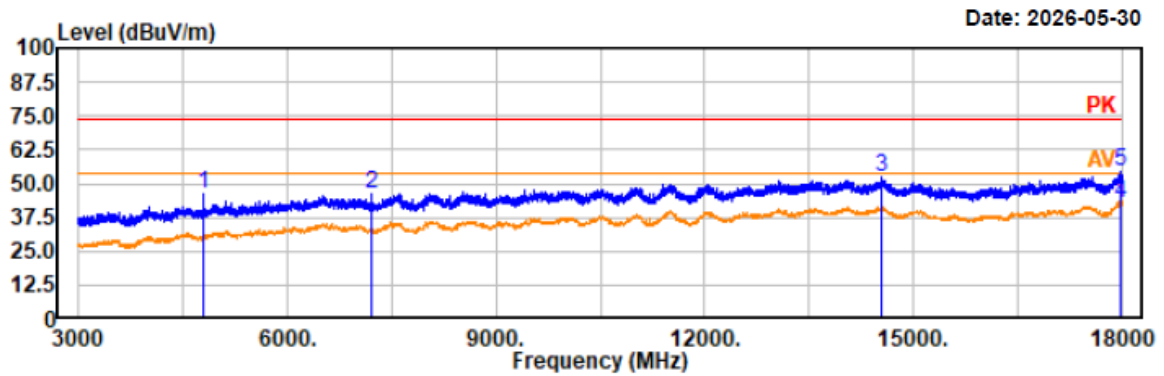
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2712.20	47.00	-9.99	37.01	74.00	36.99	vertical	Peak
2799.00	46.97	-9.79	37.18	74.00	36.82	vertical	Peak
2944.40	47.34	-9.24	38.10	74.00	35.90	vertical	Peak

4) 3 GHz ~18 GHz

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: JBL DEE 8.2
Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

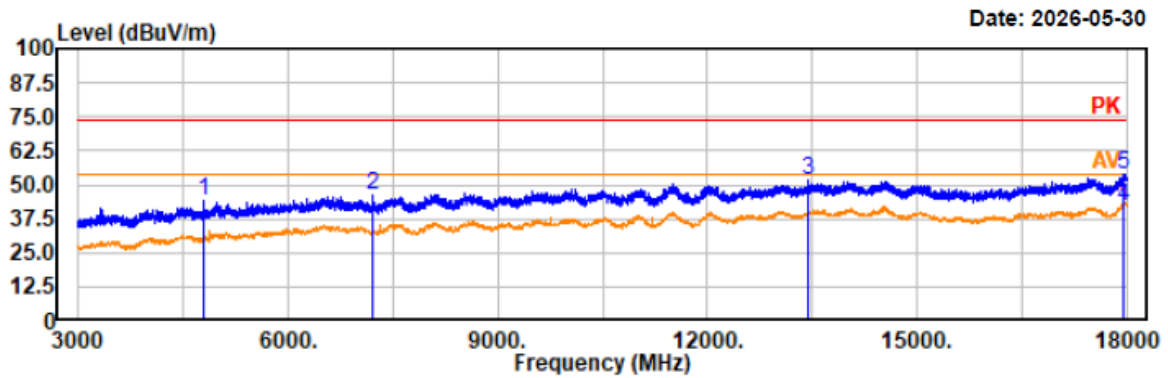
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4803.00	51.75	-5.24	46.51	74.00	27.49	horizontal	Peak
7206.00	48.65	-2.55	46.10	74.00	27.90	horizontal	Peak
14548.50	47.13	5.04	52.17	74.00	21.83	horizontal	Peak
17976.00	36.07	6.89	42.96	54.00	11.04	horizontal	Average
17976.00	47.57	6.89	54.46	74.00	19.54	horizontal	Peak

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: JBL DEE 8.2
Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

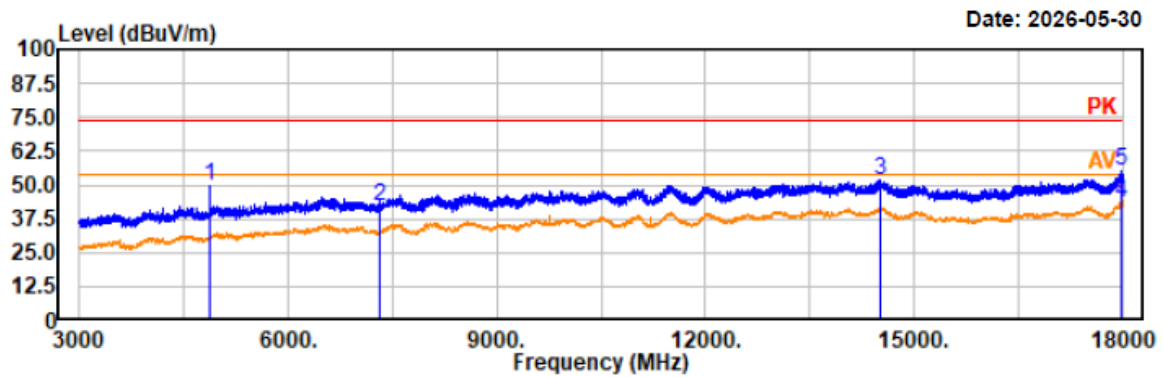
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4803.00	49.67	-5.24	44.43	74.00	29.57	vertical	Peak
7206.00	48.69	-2.55	46.14	74.00	27.86	vertical	Peak
13450.50	46.96	4.60	51.56	74.00	22.44	vertical	Peak
17949.00	35.55	6.86	42.41	54.00	11.59	vertical	Average
17949.00	46.89	6.86	53.75	74.00	20.25	vertical	Peak

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: JBL DEE 8.2
Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

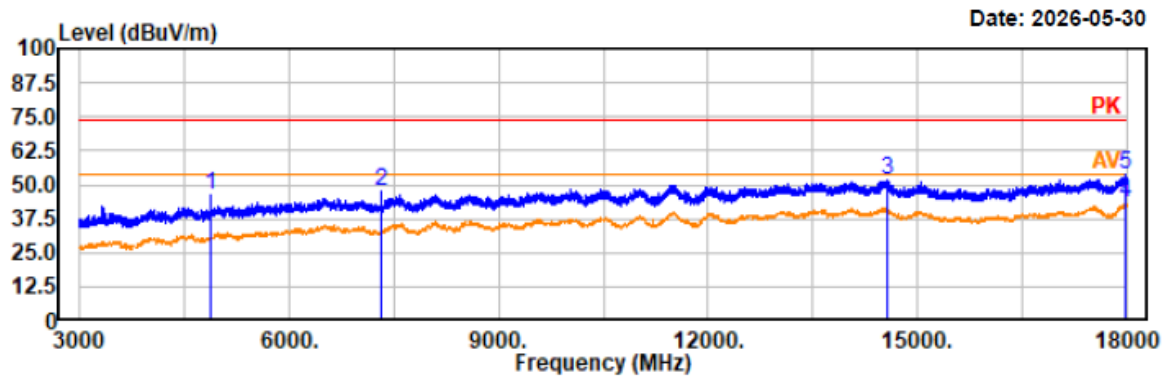
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4881.00	55.19	-5.31	49.88	74.00	24.12	horizontal	Peak
7323.00	44.43	-2.24	42.19	74.00	31.81	horizontal	Peak
14517.00	46.41	5.06	51.47	74.00	22.53	horizontal	Peak
17974.50	36.44	6.88	43.32	54.00	10.68	horizontal	Average
17974.50	48.28	6.88	55.16	74.00	18.84	horizontal	Peak

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: JBL DEE 8.2
Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

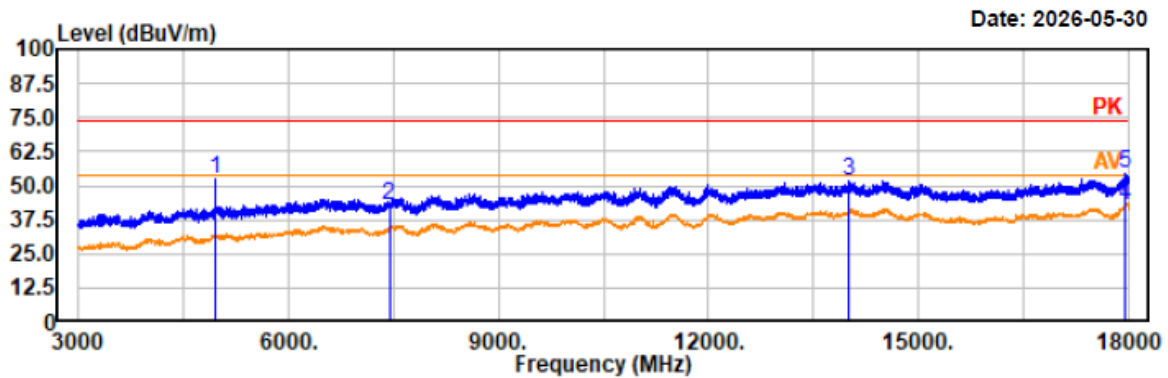
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4879.50	51.32	-5.30	46.02	74.00	27.98	vertical	Peak
7321.50	49.60	-2.25	47.35	74.00	26.65	vertical	Peak
14556.00	46.93	5.03	51.96	74.00	22.04	vertical	Peak
17986.50	36.46	6.89	43.35	54.00	10.65	vertical	Average
17986.50	47.20	6.89	54.09	74.00	19.91	vertical	Peak

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: JBL DEE 8.2
Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



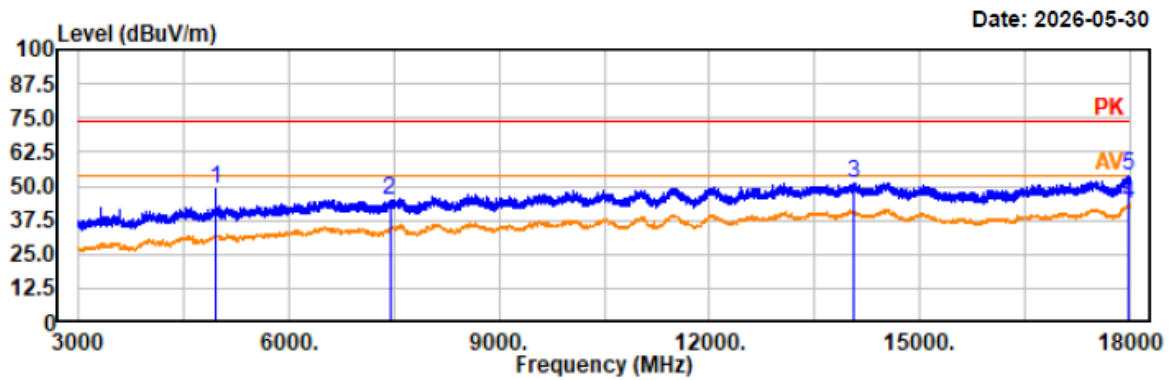
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4959.00	57.32	-5.11	52.21	74.00	21.79	horizontal	Peak
7440.00	44.92	-2.03	42.89	74.00	31.11	horizontal	Peak
14010.00	46.29	5.22	51.51	74.00	22.49	horizontal	Peak
17961.00	35.92	6.86	42.78	54.00	11.22	horizontal	Average
17961.00	47.63	6.86	54.49	74.00	19.51	horizontal	Peak

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: JBL DEE 8.2
Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

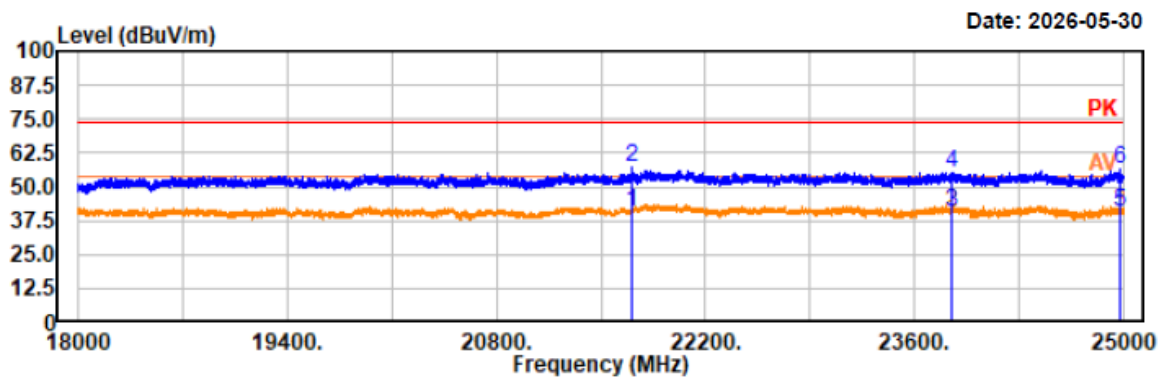
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.50	54.18	-5.11	49.07	74.00	24.93	vertical	Peak
7440.00	46.59	-2.03	44.56	74.00	29.44	vertical	Peak
14070.00	45.87	5.29	51.16	74.00	22.84	vertical	Peak
17991.00	36.25	6.90	43.15	54.00	10.85	vertical	Average
17991.00	47.15	6.90	54.05	74.00	19.95	vertical	Peak

5) 18 GHz ~25 GHz

Note: The maximum output power mode: BLE 1Mbps low channel was tested.

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: JBL DEE 8.2
Test distance: 1.5m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



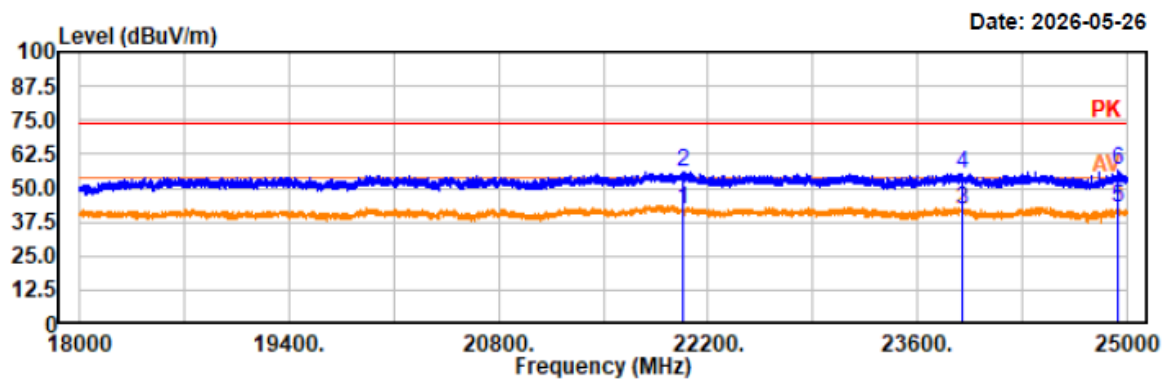
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
21705.10	36.34	4.67	41.01	54.00	12.99	horizontal	Average
21705.10	52.25	4.67	56.92	74.00	17.08	horizontal	Peak
23849.90	35.57	5.28	40.85	54.00	13.15	horizontal	Average
23849.90	50.04	5.28	55.32	74.00	18.68	horizontal	Peak
24981.80	34.55	6.32	40.87	54.00	13.13	horizontal	Average
24981.80	50.48	6.32	56.80	74.00	17.20	horizontal	Peak

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: JBL DEE 8.2
Test distance: 1.5m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

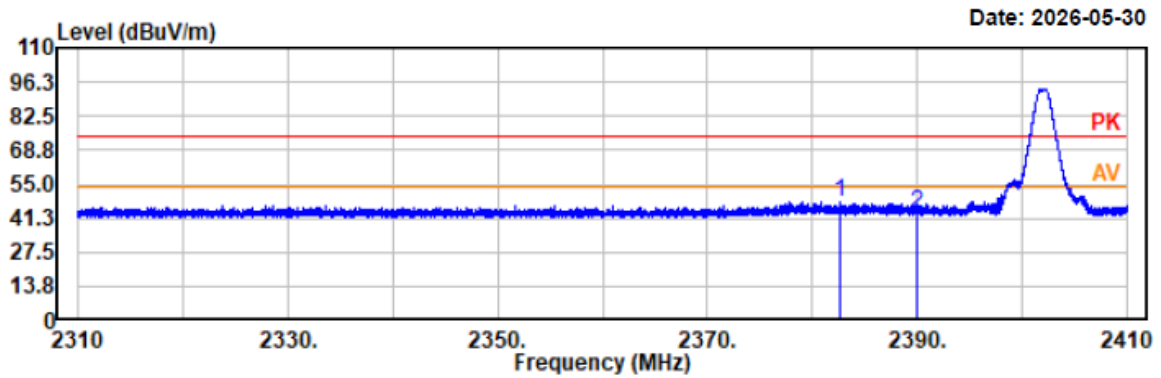
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
22028.50	36.72	5.19	41.91	54.00	12.09	vertical	Average
22028.50	50.93	5.19	56.12	74.00	17.88	vertical	Peak
23901.70	36.58	5.35	41.93	54.00	12.07	vertical	Average
23901.70	50.14	5.35	55.49	74.00	18.51	vertical	Peak
24940.50	36.54	6.31	42.85	54.00	11.15	vertical	Average
24940.50	50.03	6.31	56.34	74.00	17.66	vertical	Peak

Restricted Bands Emissions:

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: JBL DEE 8.2
Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

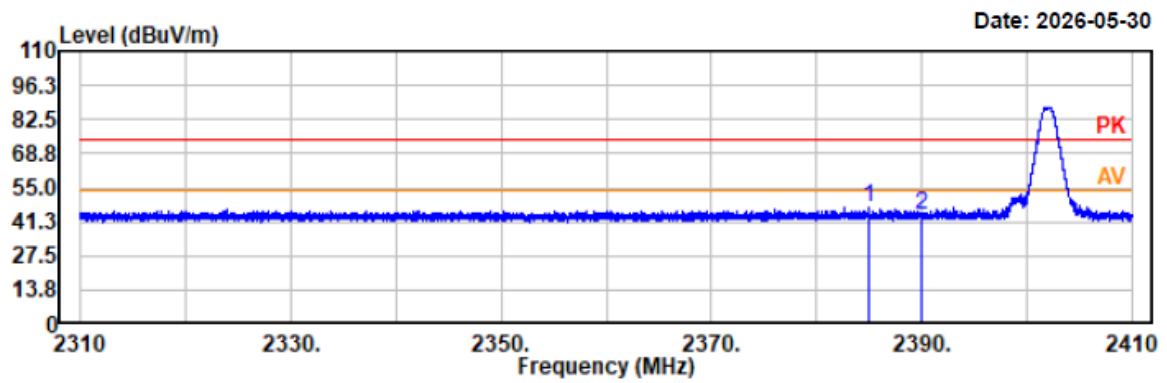


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2382.62	48.78	-1.19	47.59	74.00	26.41	horizontal	Peak
2390.00	44.44	-1.15	43.29	74.00	30.71	horizontal	Peak

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: JBL DEE 8.2
Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

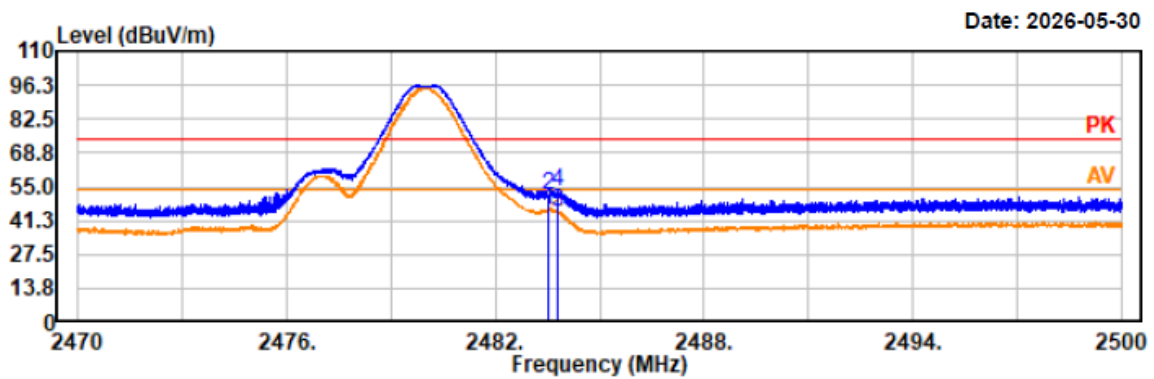


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2384.98	48.15	-1.17	46.98	74.00	27.02	vertical	Peak
2390.00	45.06	-1.15	43.91	74.00	30.09	vertical	Peak

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: JBL DEE 8.2
Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

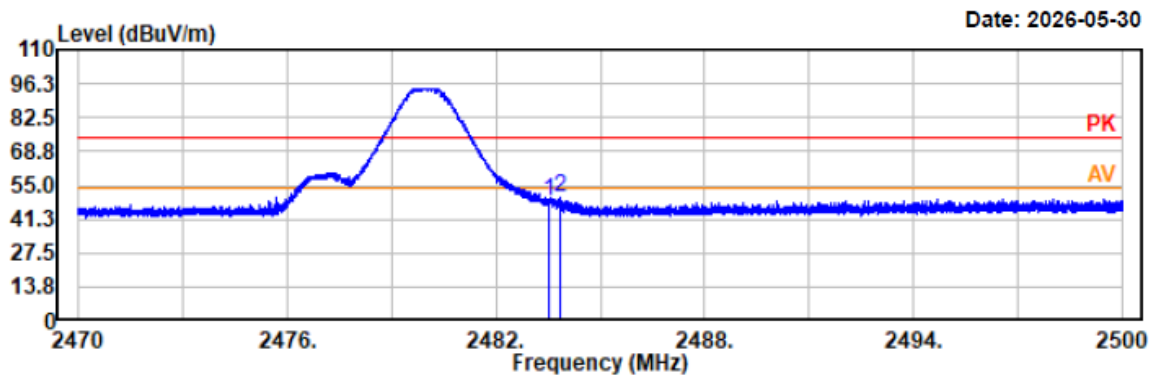
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	46.20	-0.77	45.43	54.00	8.57	horizontal	Average
2483.50	52.12	-0.77	51.35	74.00	22.65	horizontal	Peak
2483.81	45.23	-0.76	44.47	54.00	9.53	horizontal	Average
2483.81	53.82	-0.76	53.06	74.00	20.94	horizontal	Peak

Project No.: 2607S19952E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: JBL DEE 8.2
Test distance: 3m

Temp/Humi/ATM: 24.5°C/61%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



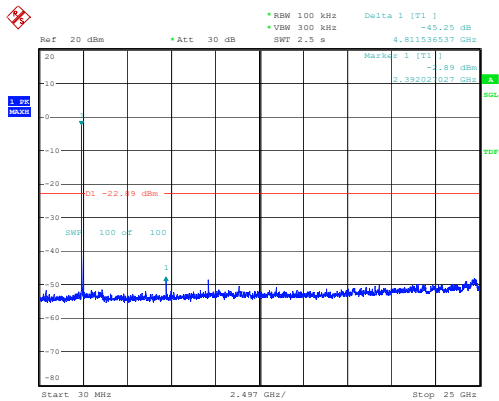
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	49.32	-0.77	48.55	74.00	25.45	vertical	Peak
2483.85	50.52	-0.76	49.76	74.00	24.24	vertical	Peak

Antenna-port conducted emission

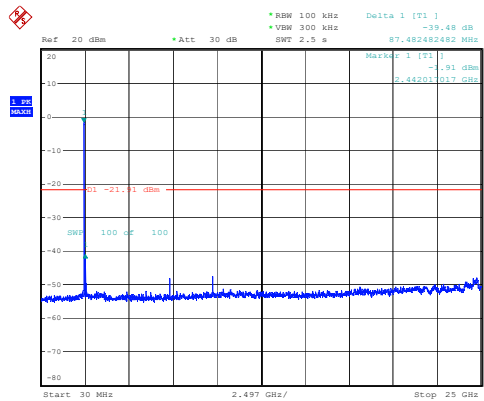
BLE 1M

BLE_1M_Low_Channel



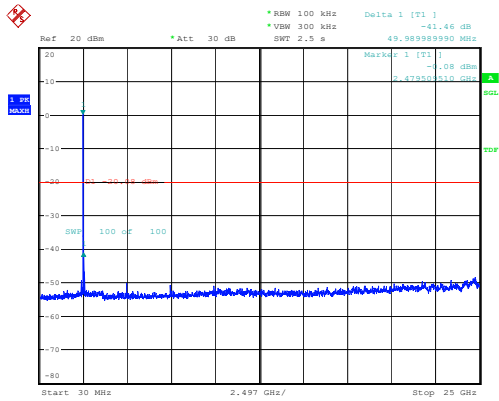
ProjectNo.:2607S19952E-RF Tester:Spike Gao
Date: 7.MAY.2026 16:30:55

BLE_1M_Middle_Channel



ProjectNo.:2607S19952E-RF Tester:Spike Gao
Date: 7.MAY.2026 16:42:46

BLE_1M_High_Channel



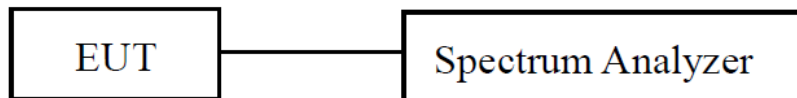
ProjectNo.:2607S19952E-RF Tester:Spike Gao
Date: 7.MAY.2026 16:52:52

FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

EUT Setup



Note: A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable was offset into the setting of test equipment:

Offset = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

Test Procedure

According to ANSI C63.10-2020 Section 11.8

- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “–6 dB down amplitude”. If a marker is below this “–6 dB down amplitude” value, then it shall be as close as possible to this value.

Test Data

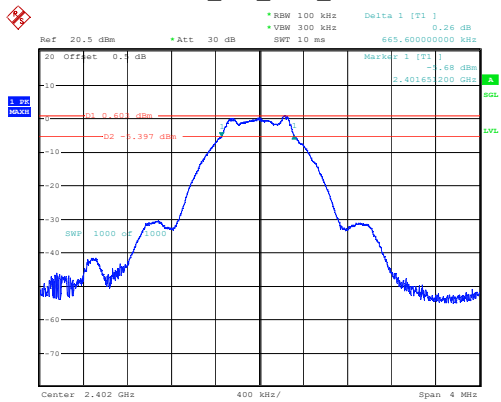
Test Mode:	Transmitting	Test Engineer:	Spike Gao
Test Date:	2026-04-30~2026-05-07	Environment:	Temp.: 25.6°C Humi.: 50~57% Atm :100.1 kPa

Test Result: Compliant

Test Modes	Test Channel	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
BLE 1Mbps	Lowest	2402	0.666	≥ 0.5
	Middle	2440	0.669	≥ 0.5
	Highest	2480	0.666	≥ 0.5

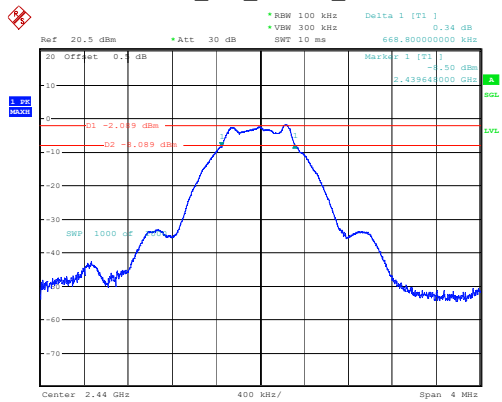
BLE 1M

BLE_1M_Low_Channel



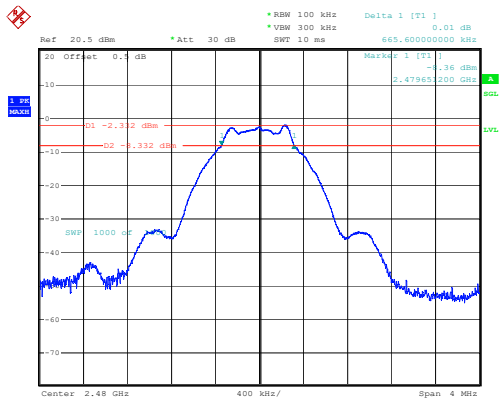
ProjectNo.:2607S19952E-RF Tester:Spike Gao
Date: 7.MAY.2026 09:22:31

BLE_1M_Middle_Channel



ProjectNo.:2607S19952E-RF Tester:Spike Gao
Date: 30.APR.2026 09:55:29

BLE_1M_High_Channel

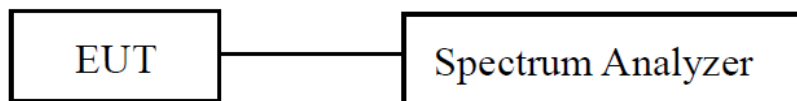


ProjectNo.:2607S19952E-RF Tester:Spike Gao
Date: 30.APR.2026 09:58:13

FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

EUT Setup

Note: A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable was offset into the setting of test equipment:

Offset = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

Test Procedure

According to ANSI C63.10-2020 Section 11.9.1.1

the DTS bandwidth is available to perform the measurement:

- a) Set the RBW $\geq$ DTS bandwidth.
- b) Set VBW $\geq [3 \times \text{RBW}]$.
- c) Set span $\geq [3 \times \text{RBW}]$.
- d) Sweep time = No faster than coupled (auto) time.
- e) Detector = peak.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

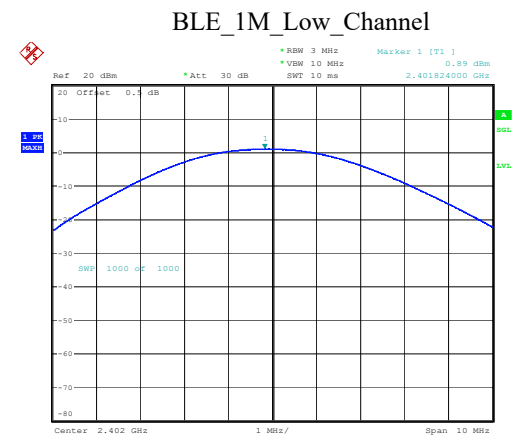
Test Data

Test Mode:	Transmitting	Test Engineer:	Spike Gao
Test Date:	2026-04-30~2026-05-07	Environment:	Temp.: 25.6°C Humi.: 50~57% Atm :100.1 kPa

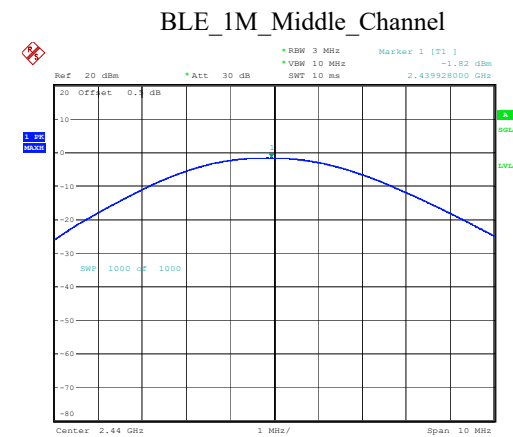
Test Result: Compliant

Test Modes	Test Channel	Test Frequency (MHz)	Maximum Conducted Peak Output Power(dBm)	Limit (dBm)
BLE 1Mbps	Lowest	2402	0.89	≤30
	Middle	2440	-1.82	≤30
	Highest	2480	-2.07	≤30

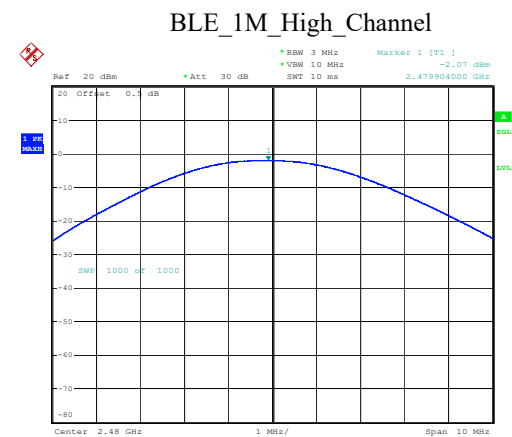
BLE 1M



ProjectNo.:2607S19952E-RF Tester:Spike Gao
Date: 7.MAY.2026 09:23:35



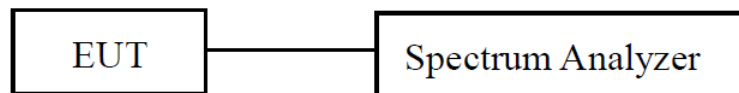
ProjectNo.:2607S19952E-RF Tester:Spike Gao
Date: 30.APR.2026 09:56:18



ProjectNo.:2607S19952E-RF Tester:Spike Gao
Date: 30.APR.2026 09:59:03

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE**Applicable Standard**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

EUT Setup

Note: A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable was offset into the setting of test equipment:

Offset = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

Test Procedure

According to ANSI C63.10-2020 Section 11.11

a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution

b) Set the RBW = 100 kHz.

c) Set the VBW $\geq [3 \times \text{RBW}]$.

d) Detector = peak.

e) Sweep time = No faster than coupled (auto) time.

f) Trace mode = max-hold.

g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level.

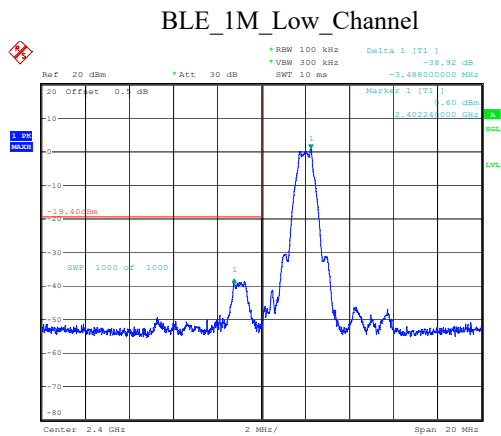
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

Test Data

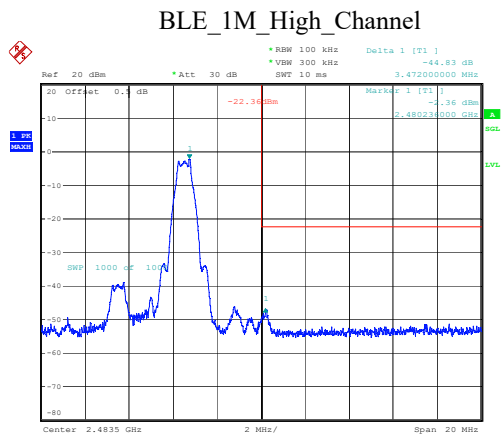
Test Mode:	Transmitting	Test Engineer:	Spike Gao
Test Date:	2026-04-30~2026-05-07	Environment:	Temp.: 25.6°C Humi.: 50~57% Atm :100.1 kPa

Test Result: Compliant

BLE 1M



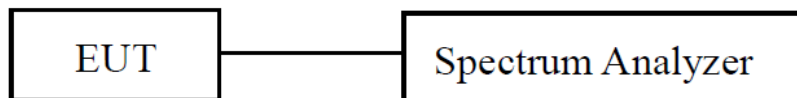
ProjectNo.:2607S19952E-RF Tester:Spike Gao
Date: 7.MAY.2026 09:24:39



ProjectNo.:2607S19952E-RF Tester:Spike Gao
Date: 30.APR.2026 10:00:08

FCC §15.247(e) - POWER SPECTRAL DENSITY**Applicable Standard**

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

EUT Setup

Note: A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable was offset into the setting of test equipment:

Offset = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

Test Procedure

According to ANSI C63.10-2020 Section 11.10.2

- Set analyzer center frequency to DTS channel center frequency.
- Set the span >1.5 times the DTS bandwidth.
- Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

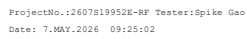
Test Data

Test Mode:	Transmitting	Test Engineer:	Spike Gao
Test Date:	2026-04-30~2026-05-07	Environment:	Temp.: 25.6°C Humi.: 50~57% Atm :100.1 kPa

Test Result: Compliant

Test Modes	Test Channel	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
BLE 1Mbps	Lowest	2402	-15.45	≤8.00
	Middle	2440	-18.18	≤8.00
	Highest	2480	-18.38	≤8.00

BLE_1M_Low_Channel



ProjectNo.:2607S19952E-RF Tester:Spike Gao
Date: 30.APR.2026 09:56:41

ProjectNo.:2607S19952E-RF Tester:Spike Gao
Date: 30.APR.2026 10:00:31

FCC §1.1307(b)(1) & §2.1091 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to FCC §1.1307(b)(1) & §2.1091, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Limits for Maximum Permissible Exposure (MPE)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;
According to §1.1307(b)(1) & §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

$$\sum_i \frac{S_i}{S_{\text{Limit},i}} \leq 1$$

Calculated Data:

Mode	Frequency (MHz)	Antenna Gain		★Tune-up Output Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
BLE	2402-2480	2.05	1.60	1.0	1.26	20	0.0004	1

Note: 1. The Tune-up output power was declared by the Manufacturer.

Result: The device meets MPE at distance 20cm.

EUT PHOTOGRAPHS

Please refer to the attachment 2607S19952E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2607S19952E-RF-INP EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2607S19952E-RF-TSP TEST SETUP PHOTOGRAPHS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor k with the 95% confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

******* END OF REPORT *******