

Prüfbericht-Nr.: Test report no.:	CN228D5M 001	Auftrags-Nr.: Order no.:	168345209	Seite 1 von 18 Page 1 of 18
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2021-11-26	
Auftraggeber: Client:	Hangzhou Zhiyuan Electronic Co., Ltd No.10, Naxian Street, Dalu Industrial Park, 311113 Hangzhou City, Zhejiang, P.R. China			
Prüfgegenstand: Test item:	TBOX			
Bezeichnung / Typ-Nr.: Identification / Type no.:	EV2-G			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 2 February 2017			
Wareneingangsdatum: Date of sample receipt:	2021-12-02	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no.:	A003172784-001			
Prüfzeitraum: Testing period:	2021-12-08 - 2021-12-30			
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:	 Jonath an Li		genehmigt von: authorized by:	 Winnie Hou
Datum: Date:	2022-01-20		Ausstellungsdatum: Issue date:	2022-01-20
Stellung / Position:	Sachverständige(r) / Expert		Stellung / Position:	Sachverständige(r) / Expert
Sonstiges / Other:	FCC ID: 2A3ZB-EV2G Contains FCC ID: XMR201905AG35NA IC: 28083-EV2G Contains IC: 10224A-2019AG35NA HVIN: EV2-G			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

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

Appendix 1: BLE test result

Appendix 2: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

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

FCC Registration No.: 694916

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (TS8997)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2022-09-28
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2022-09-28
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2022-09-28
DC power supply	Keysight	E3642A	MY61276100	2022-09-28
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2022-09-28
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2022-09-28
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2022-08-10
Signal Analyzer	R&S	FSV 40	101439	2022-08-09
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2022-08-09
OSP	R&S	OSP 120	102040	N/A

Pre-amplifier	R&S	SCU08F1	08320031	2022-08-09
Amplifier	R&S	SCU-18F	180070	2022-08-09
Amplifier	R&S	SCU40A	100475	2022-08-09
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	170345	2022-11-16
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2022-08-08
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2022-08-08
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2022-08-08
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2022-09-13
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-06-22

Radiated Emission (3m chamber)

Equipment	Manufacturer	Model	Serial No.	Cal. until
3m SAC	ETS-Lindgren	SAC3	CT001632-Q1362	2024-04-26
EMI Test Receiver	R&S	ESR7	102111	2021-12-16
Horn Antenna	R&S	HF907	102706	2022-08-07
Preamplifier (1-18GHz)	FIT	SCU-18F	180077	2022-08-13
Active magnetic loop antenna	SCHWARZBECK	FMZB1519B	00080	2022-09-08
Trilog-Broadband antenna	SCHWARZBECK	VULB9168	0945	2022-12-12
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	170345	2022-11-16
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

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

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-7}$
RF Power (conducted)	± 2.5 dB

Radiated Emission of Transmitter, valid up to 26.5 GHz	±6 dB
Radiated Emission of Receiver, valid up to 26.5 GHz	±6 dB
Radiated Emission (3m SAC), 30MHz to 1000MHz	± 5.34 dB
Radiated Emission (3m SAC), above 1000MHz	± 4.56 dB
Temperature	±1 °C
Humidity	±5 %
Voltage (DC)	±1 %
Voltage (AC, <10kHz)	±2 %

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix 1 & 2 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

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

3 General Product Information

3.1 Product Function and Intended Use

EV2-G is a 4G version of intelligent central control terminal which is installed on the vehicles. It provides remote communication interface for the whole vehicle, and can provide services such as driving data acquisition, driving track recording, vehicle positioning (GPS, Beidou), vehicle fault monitoring, BLE communication.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT		Description
Kind of Equipment:		TBOX
Type Designation:		EV2-G
Trade Mark:		N/A
Operating Voltage:		DC 12V
Test Voltage:		DC 12V
Operating Temperature Range:		-40°C ~ +60°C
Technical Specification of Bluetooth LE		
Characteristic		Description
Frequency Range:		2400 MHz to 2483.5 MHz
Type of Modulation:		GFSK(BT_LE)
Channel Number:		40 channels
Data Rate:		1Mbps
Channel Separation:		2 MHz

Table 3: RF Channel and Frequency of Bluetooth (BLE)

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

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth Low Energy transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Bluetooth+GSM/WCDMA/LTE+GNSS Mode
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- ID Label and Location Info
- User Manual

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 & ANSI C63.4: 2014.

4.3 Special Accessories and Auxiliary Equipment

Table 4: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8
Mobile phone	HUAWEI	STK-AL00	7PRNW20721000279

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)

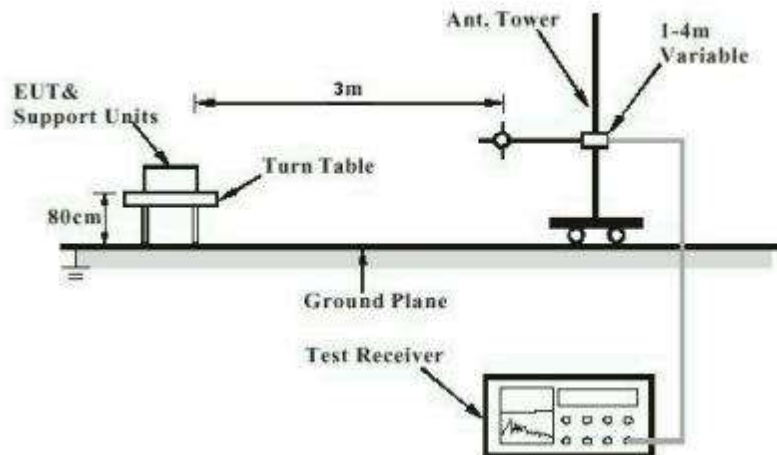


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

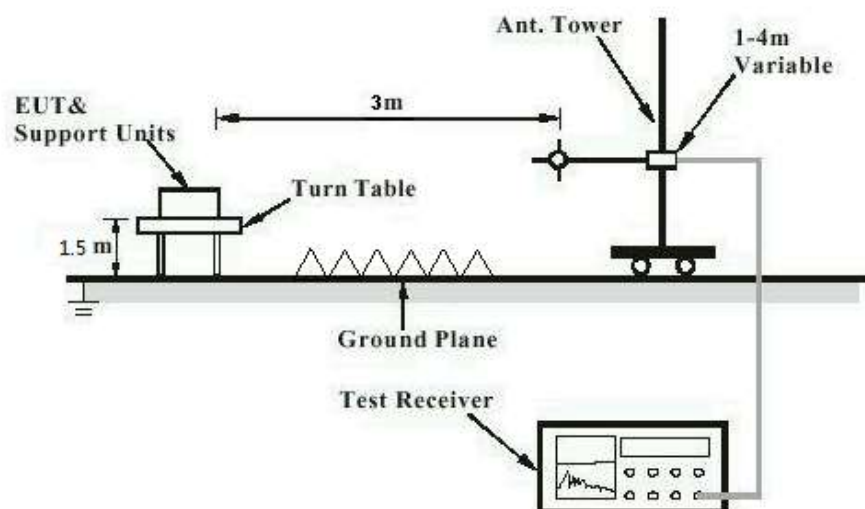
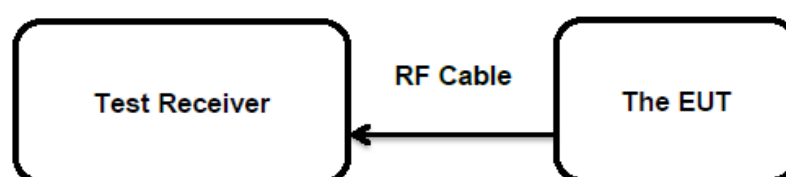


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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 PCB antenna, the directional gain of antenna is 0dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement.

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

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

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

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

Test Setup

Date of testing	: 2021-12-17
Input voltage	: DC 12V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25.6 °C
Relative humidity	: 52 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix 1.

5.1.3 Conducted Power Spectral Density

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

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

Test Setup

Date of testing	: 2021-12-17
Input voltage	: DC 12V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25.6 °C
Relative humidity	: 52 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix 1.

5.1.4 6dB Bandwidth

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

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

Test Setup

Date of testing	:	2021-12-17
Input voltage	:	DC 12V
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25.6 °C
Relative humidity	:	52 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix 1.

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5.1.5 99% Bandwidth

RESULT:

Pass

Test Specification

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

Test Setup

Date of testing : 2021-12-17
Input voltage : DC 12V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 25.6 °C
Relative humidity : 52 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix 1.

5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth**RESULT:****Pass****Test Specification**

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

Test Setup

Date of testing	: 2021-12-17
Input voltage	: DC 12V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25.6 °C
Relative humidity	: 52 %
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 1.

5.1.7 Radiated Spurious Emission

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

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3
Basic standard	: ANSI C63.10: 2013, KDB 996369 D04
Limits	: Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2021-12-17
Input voltage	: DC 12V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

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

Note1: The test plots of radiated spurious emissions beyond the limit are the fundamental radio frequency of BLE.

Note2: The host has BLE and 4G module, the Co-located radiated spurious emissions were performed.

For the measurement records, refer to the appendix 1.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix 2.

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Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	2401.696	2402.372	0.5	PASS
		2440	0.676	2439.696	2440.372	0.5	PASS
		2480	0.696	2479.688	2480.384	0.5	PASS

Test Graphs



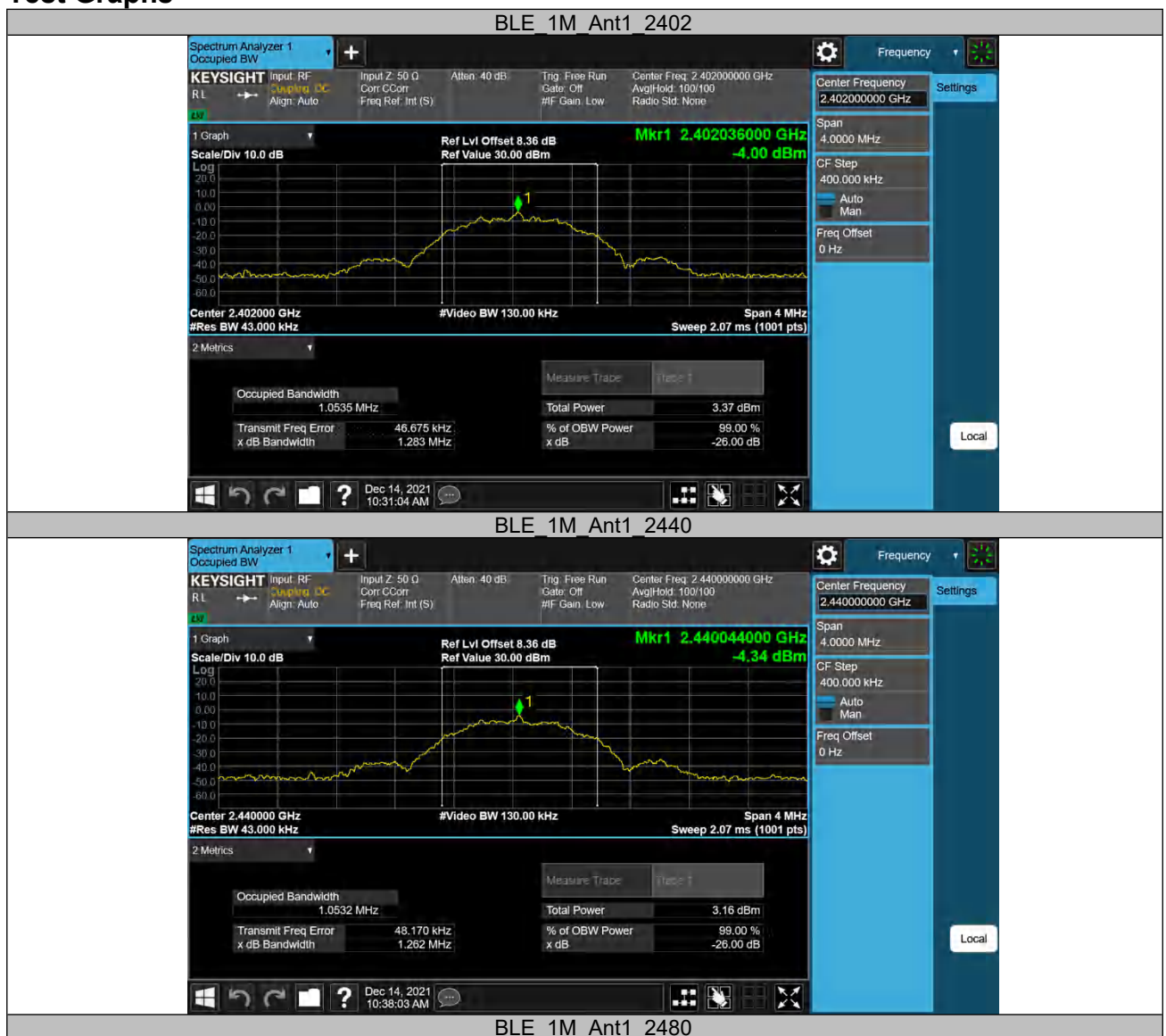


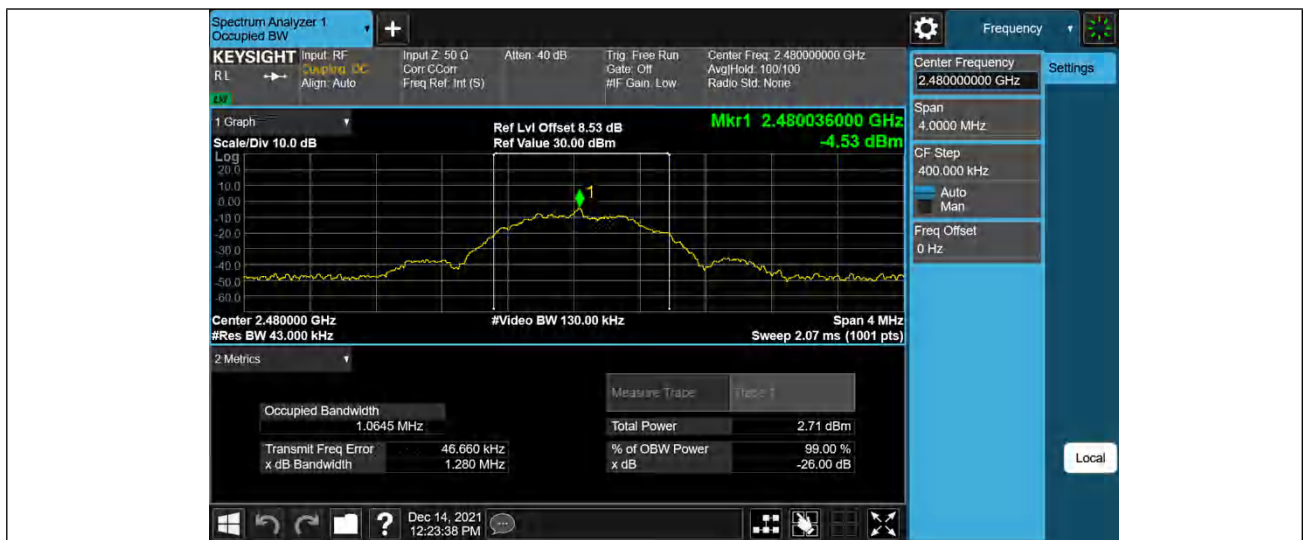
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0535	2401.520	2402.573	---	PASS
		2440	1.0532	2439.522	2440.575	---	PASS
		2480	1.0645	2479.514	2480.579	---	PASS

Test Graphs



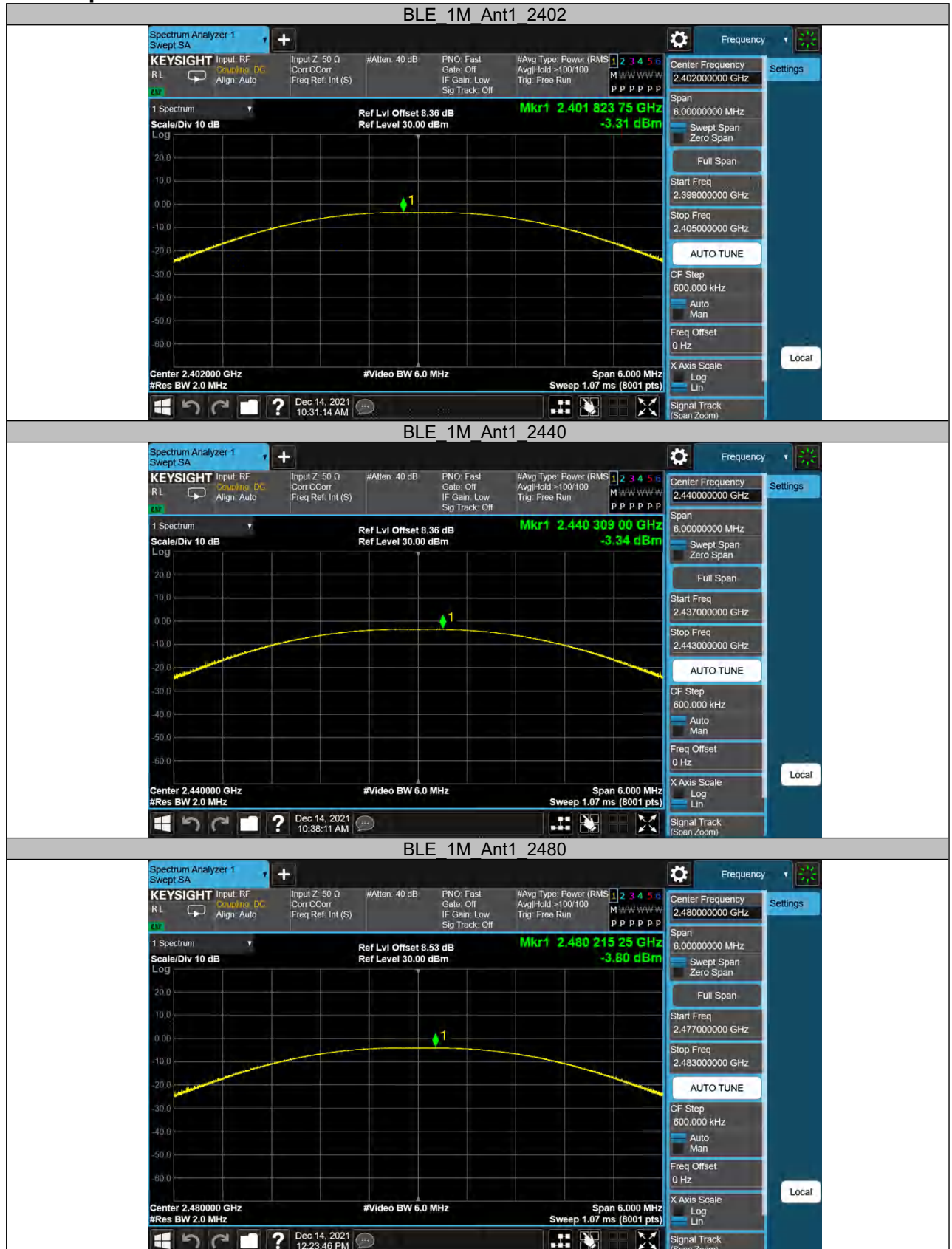


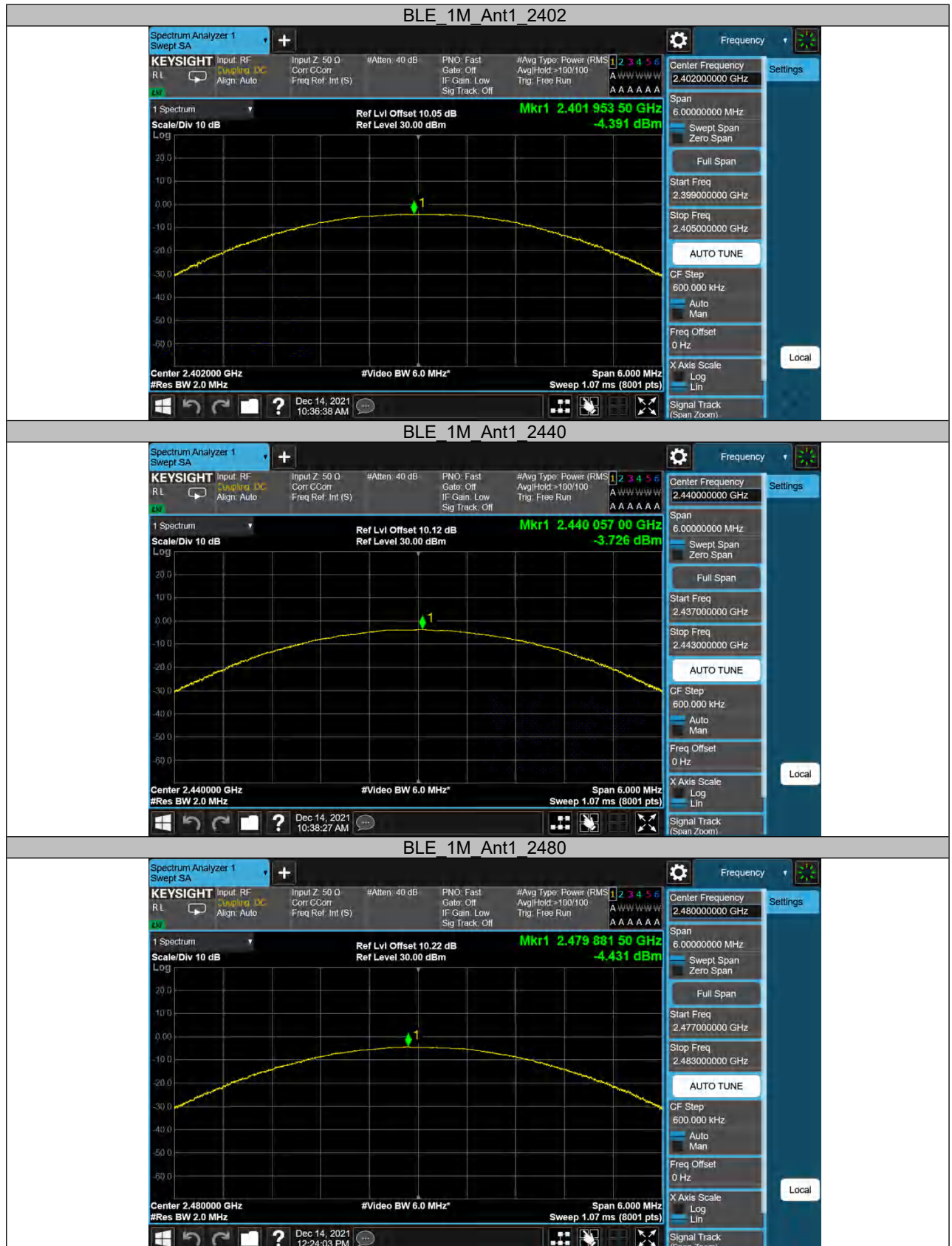
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	PK Result[dBm]	AV Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.31	-4.28	≤30	PASS
		2440	-3.34	-3.54	≤30	PASS
		2480	-3.80	-4.38	≤30	PASS

Test Graphs



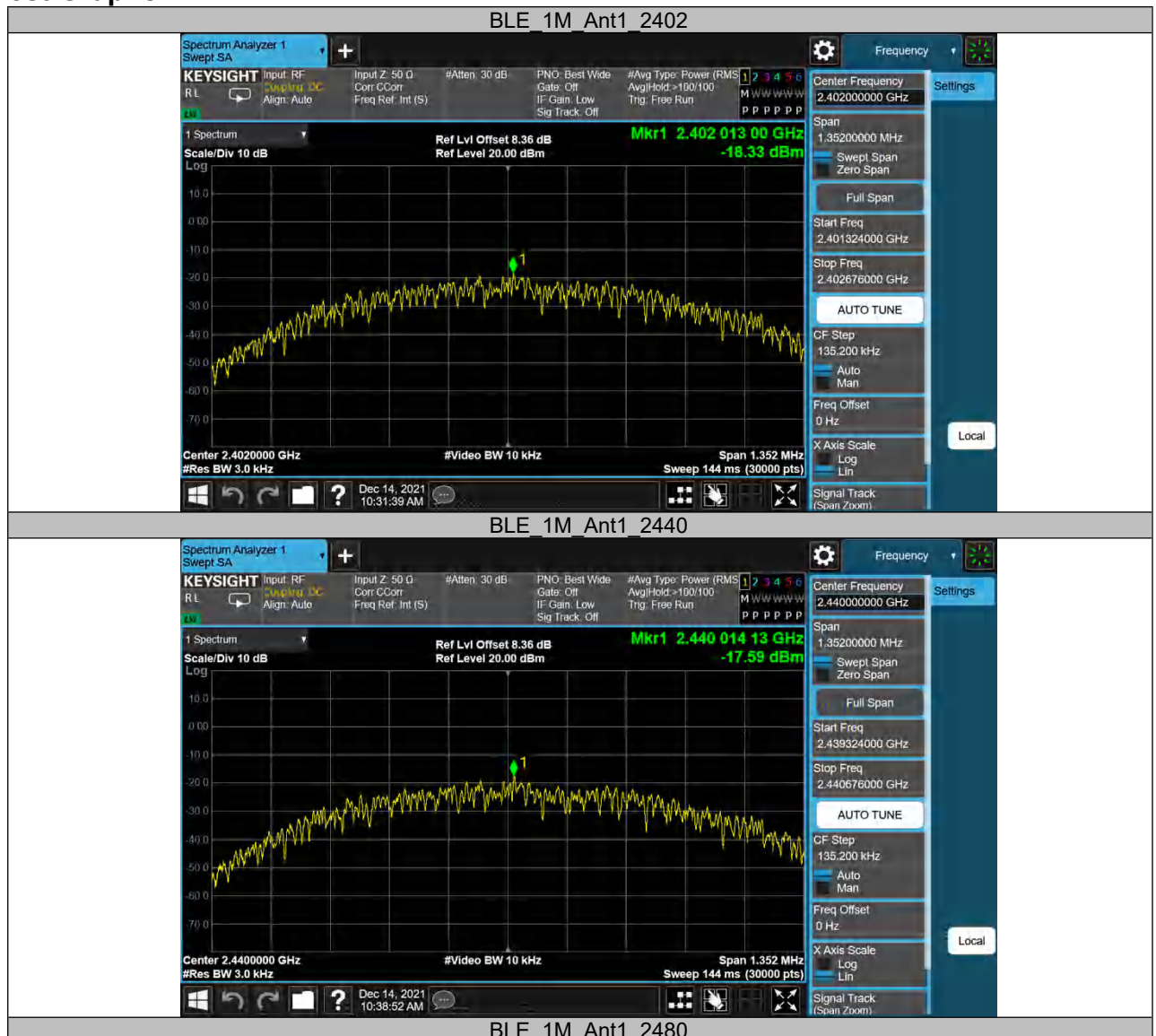


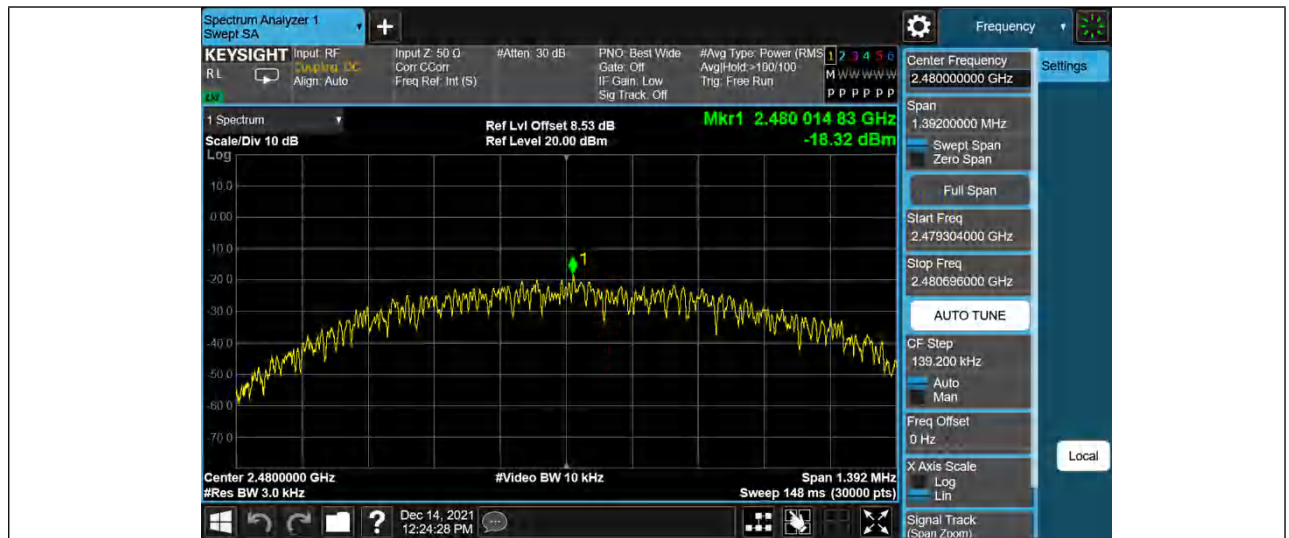
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.33	≤8	PASS
		2440	-17.59	≤8	PASS
		2480	-18.32	≤8	PASS

Test Graphs



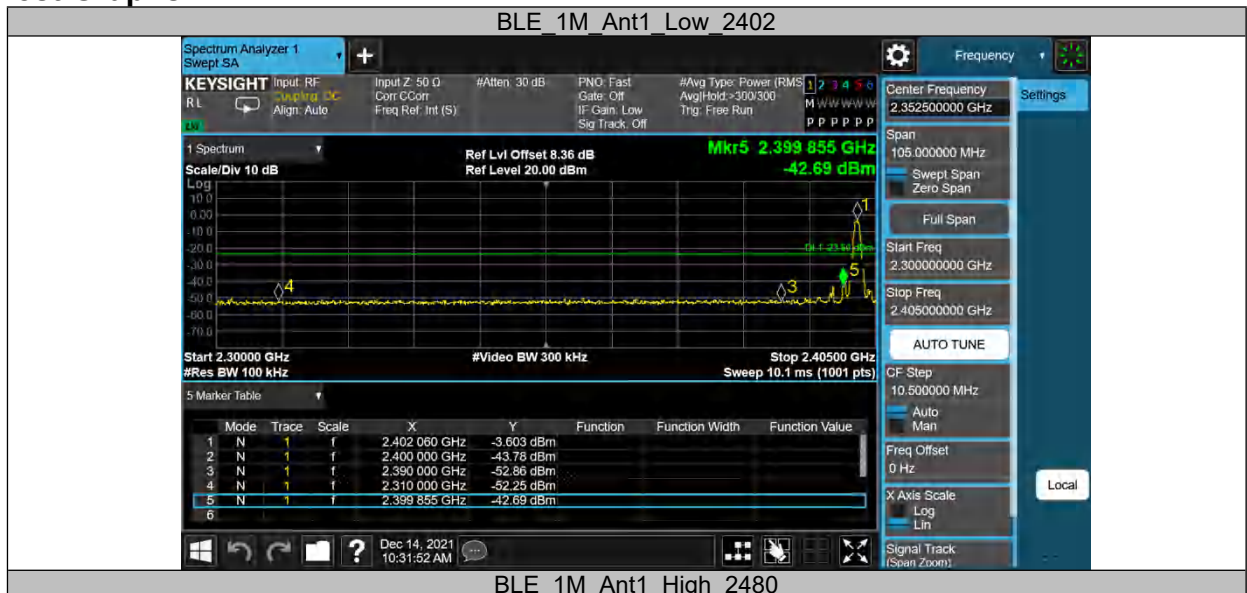


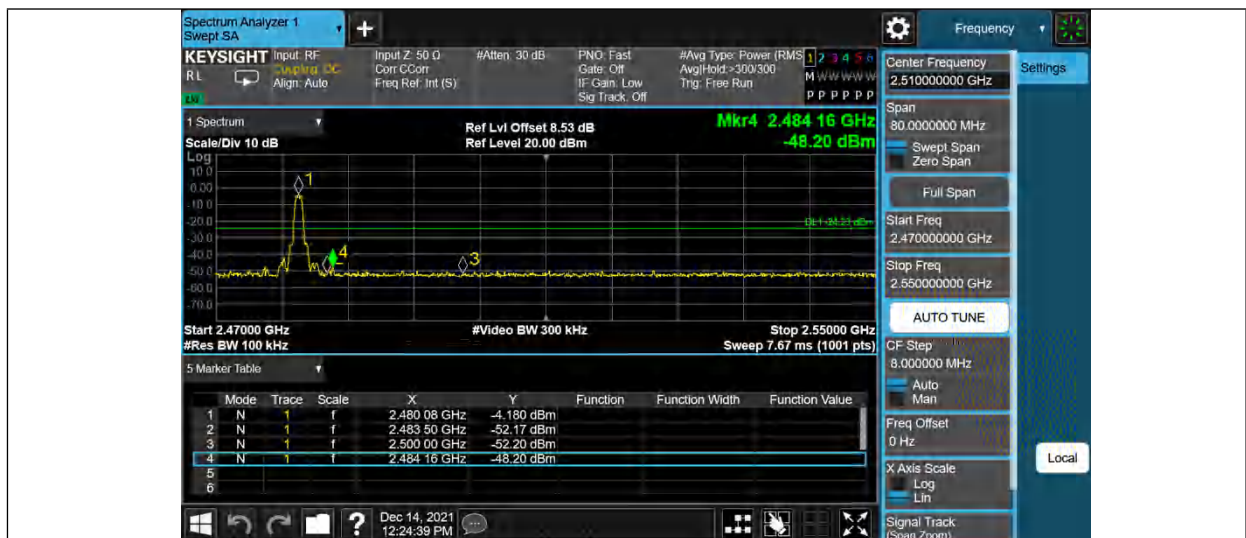
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.60	-42.7	≤ -23.6	PASS
		High	2480	-4.23	-48.2	≤ -24.23	PASS

Test Graphs





Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.80	-3.80	---	PASS
			30~1000	-3.80	-62.3	≤-23.8	PASS
			1000~26500	-3.80	-53.07	≤-23.8	PASS
		2440	Reference	-3.76	-3.76	---	PASS
			30~1000	-3.76	-61.75	≤-23.76	PASS
			1000~26500	-3.76	-52.66	≤-23.76	PASS
		2480	Reference	-4.30	-4.30	---	PASS
			30~1000	-4.30	-62.12	≤-24.3	PASS
			1000~26500	-4.30	-52.91	≤-24.3	PASS

Test Graphs

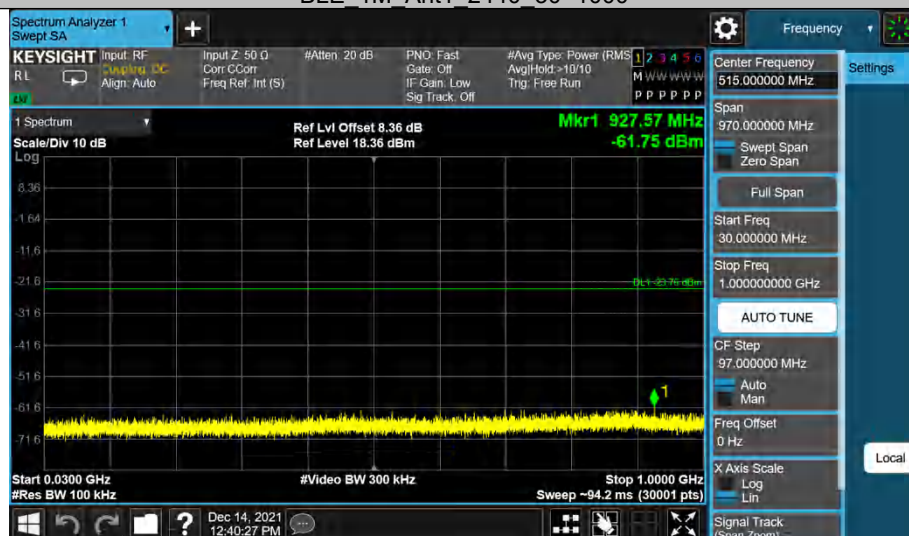




BLE 1M Ant1 2440 0~Reference



BLE 1M Ant1 2440 30~1000



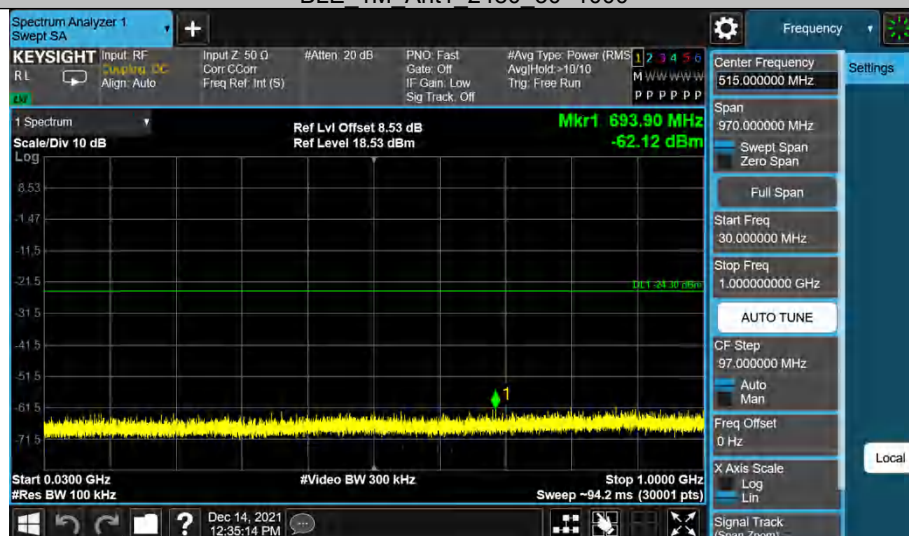
BLE 1M Ant1 2440 1000~26500



BLE 1M Ant1 2480 0~Reference



BLE 1M Ant1 2480 30~1000



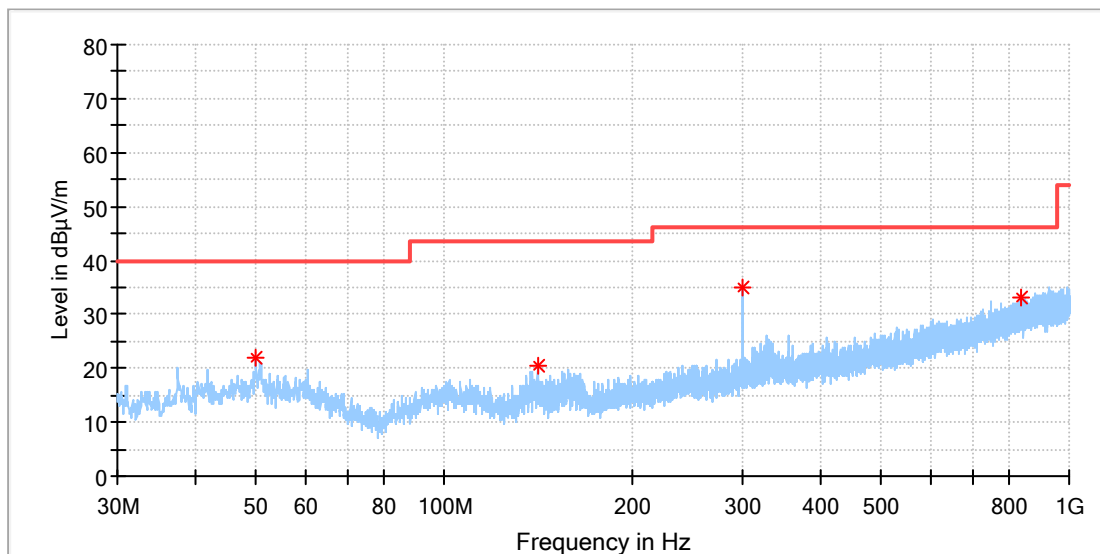
BLE 1M Ant1 2480 1000~26500



Appendix G: Radiated Spurious Emission Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_Low channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Limit (dBμV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
49.982000	21.95	40.00	18.05	100.	H	182.0	-18.3
140.919500	20.62	43.50	22.88	100.	H	81.0	-22.2
300.290500	34.87	46.00	11.13	100.	H	71.0	-16.3
838.737500	33.21	46.00	12.79	100.	H	0.0	-5.7

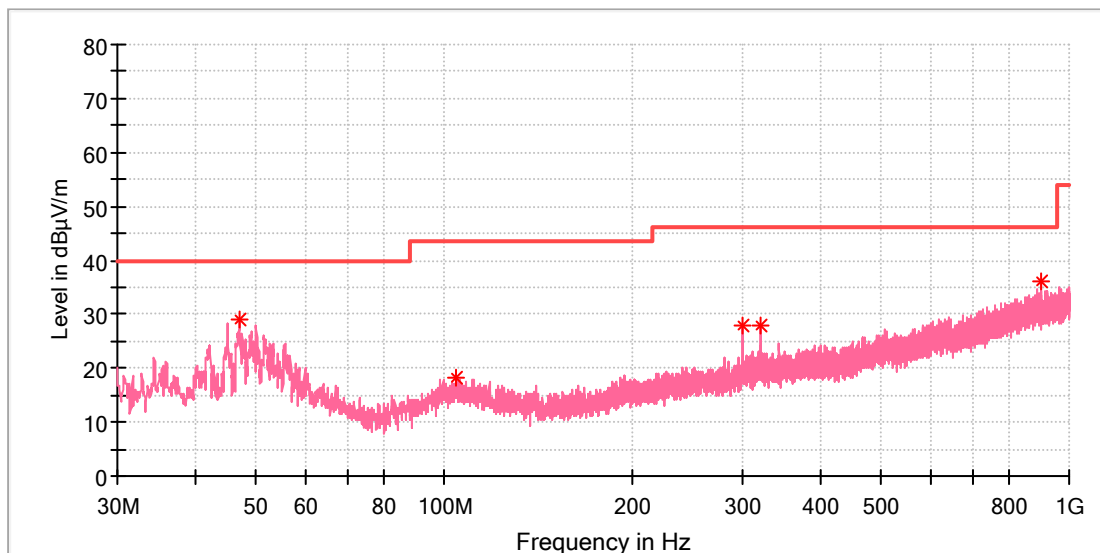
Final Result

Frequency (MHz)	QuasiPeak	Limit (dBμV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_Low channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
46.975000	29.14	40.00	10.86	100.	V	285.0	-18.5
104.253500	18.18	43.50	25.32	100.	V	136.0	-18.8
300.290500	27.97	46.00	18.03	100.	V	230.0	-16.3
320.030000	27.98	46.00	18.02	100.	V	223.0	-15.8
904.649000	36.05	46.00	9.95	100.	V	237.0	-5.0

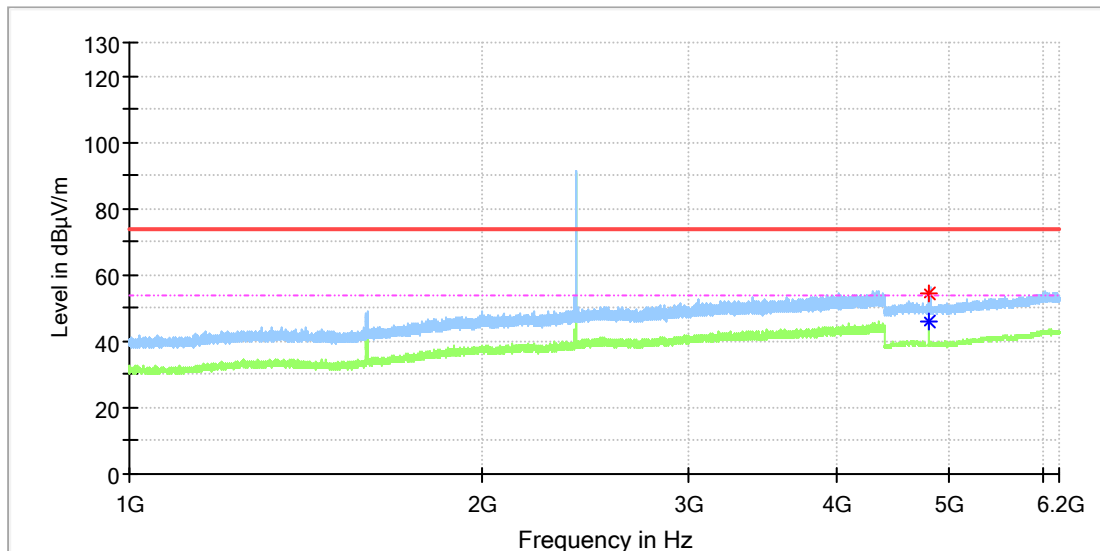
Final Result

Frequency (MHz)	QuasiPeak	Limit (dBµV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_Low channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Average	Limit (dBµV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
4801.500000	54.60	---	74.00	19.40	100.	H	15.0	11.8
4804.500000	---	45.74	54.00	8.26	100.	H	102.0	11.8

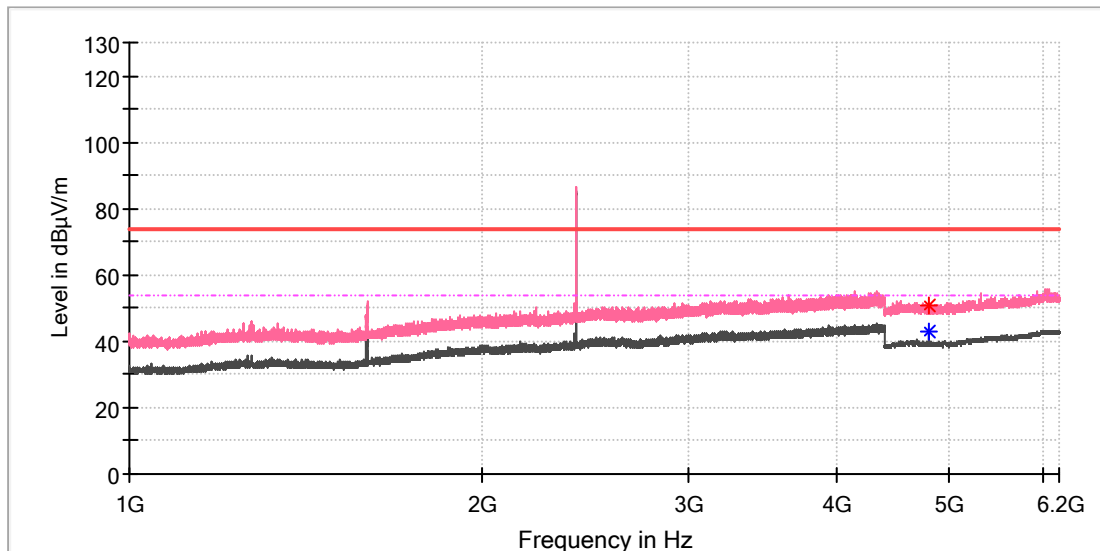
Final Result

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_Low channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Average	Limit (dBµV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
4804.000000	51.04	---	74.00	22.96	100.	V	224.0	11.8
4804.000000	---	43.16	54.00	10.84	100.	V	224.0	11.8

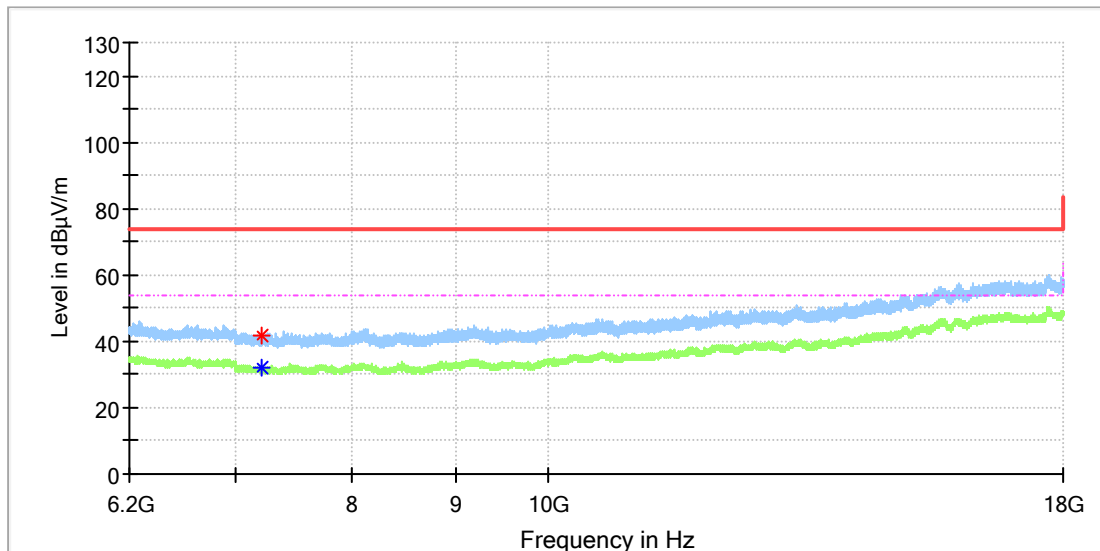
Final Result

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_Low channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Average	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
7206.933333	41.74	---	74.00	32.26	100.	H	52.0	8.8
7213.816667	---	32.30	54.00	21.70	100.	H	269.0	8.7

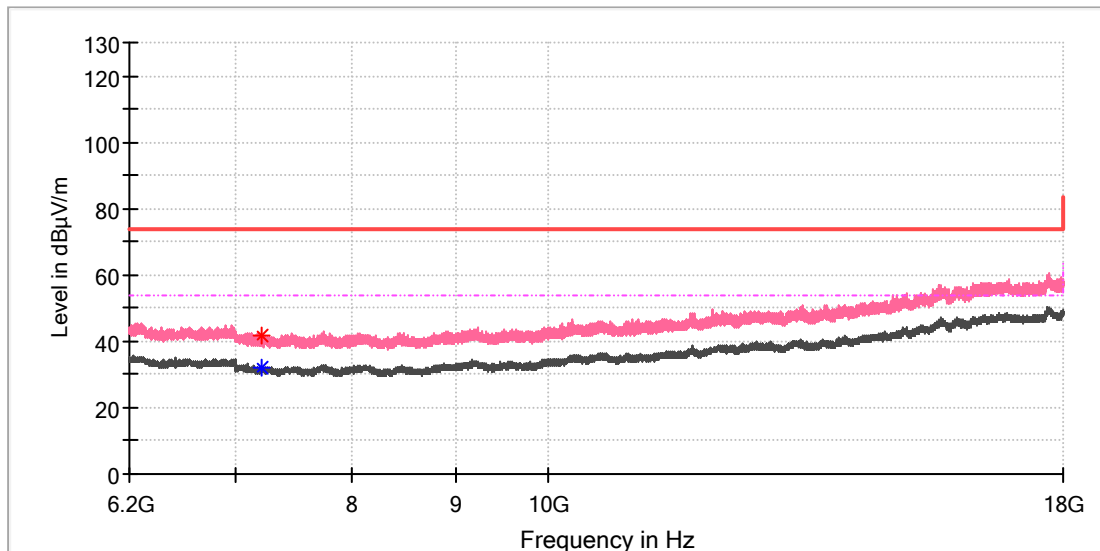
Final Result

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_Low channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Average	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
7206.441667	41.75	---	74.00	32.25	100.	V	306.0	8.8
7208.408333	---	32.05	54.00	21.95	100.	V	306.0	8.8

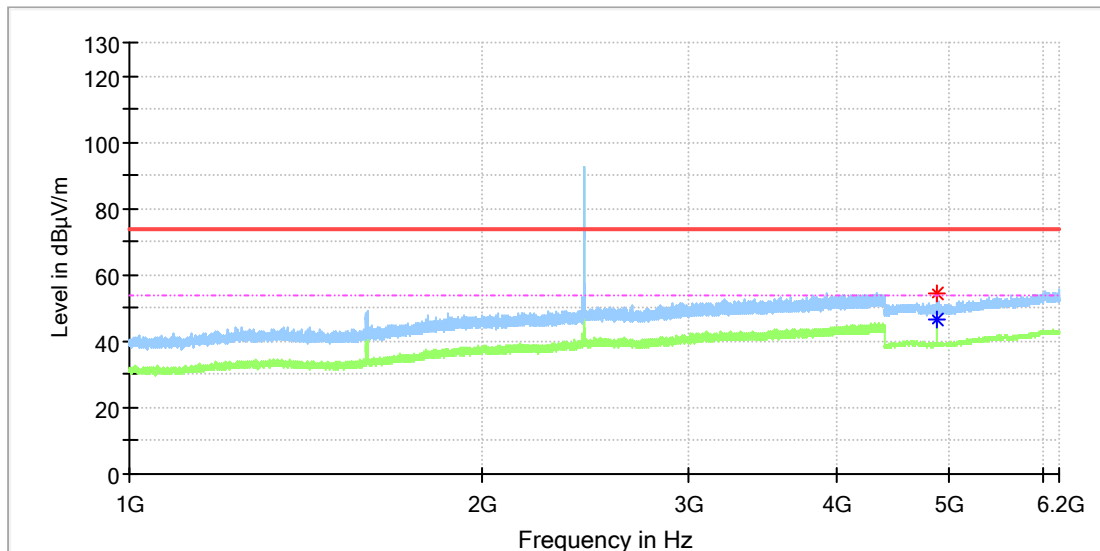
Final Result

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
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Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_Mid channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Average	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
4879.500000	54.28	---	74.00	19.72	100.	H	305.0	11.8
4879.500000	---	46.42	54.00	7.58	100.	H	305.0	11.8

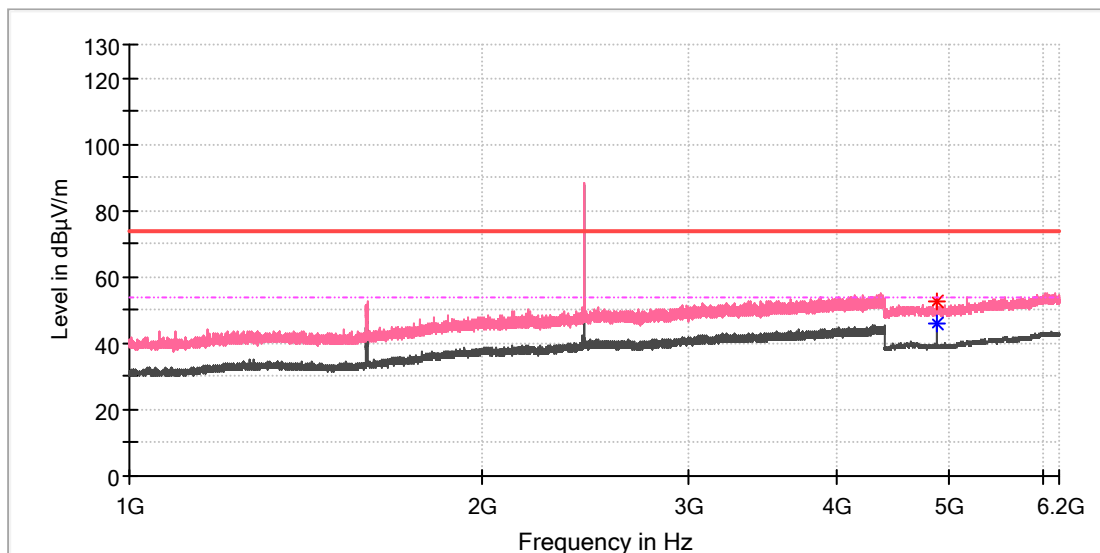
Final Result

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
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Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_Mid channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Average	Limit (dBµV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
4880.000000	---	45.92	54.00	8.08	100.	V	277.0	11.8
4880.500000	52.71	---	74.00	21.29	100.	V	277.0	11.8

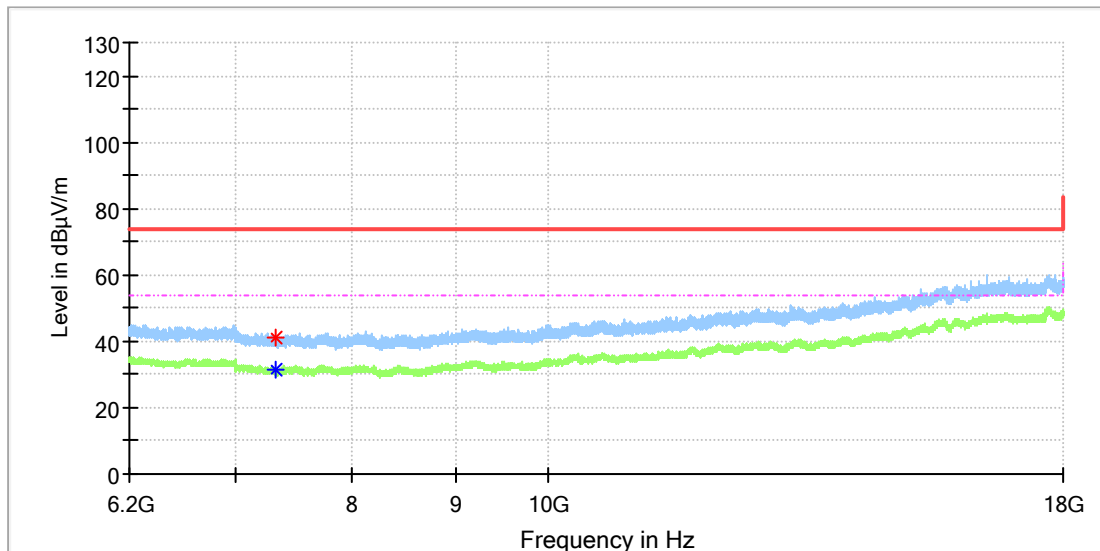
Final Result

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
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Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_Mid channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Average	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
7319.525000	41.13	---	74.00	32.87	100.	H	307.0	8.2
7330.341667	---	31.61	54.00	22.39	100.	H	0.0	8.1

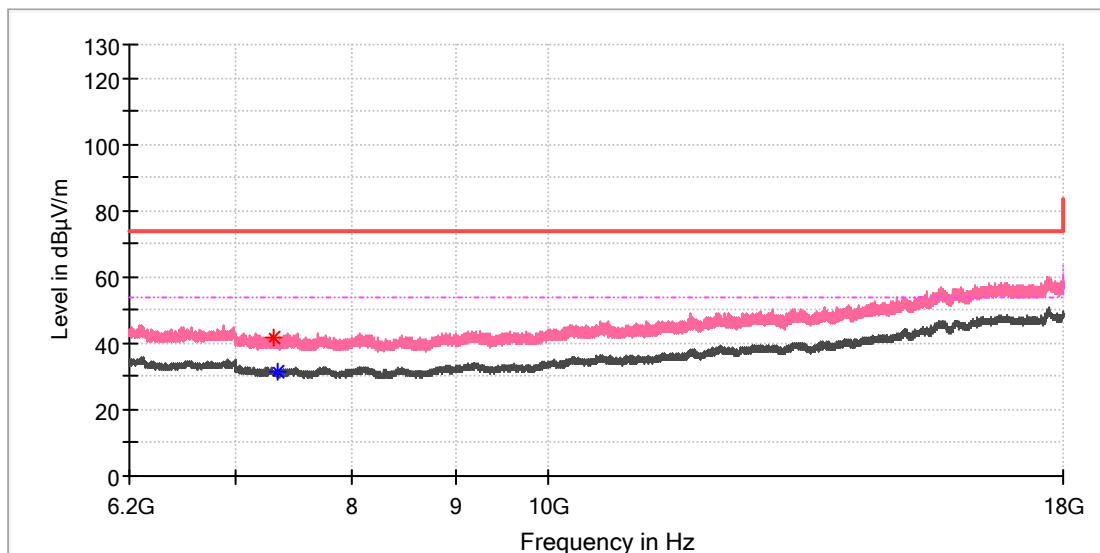
Final Result

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
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Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_Mid channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Average	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
7310.183333	41.84	---	74.00	32.16	100.	V	189.0	8.2
7345.583333	---	31.58	54.00	22.42	100.	V	257.0	8.1

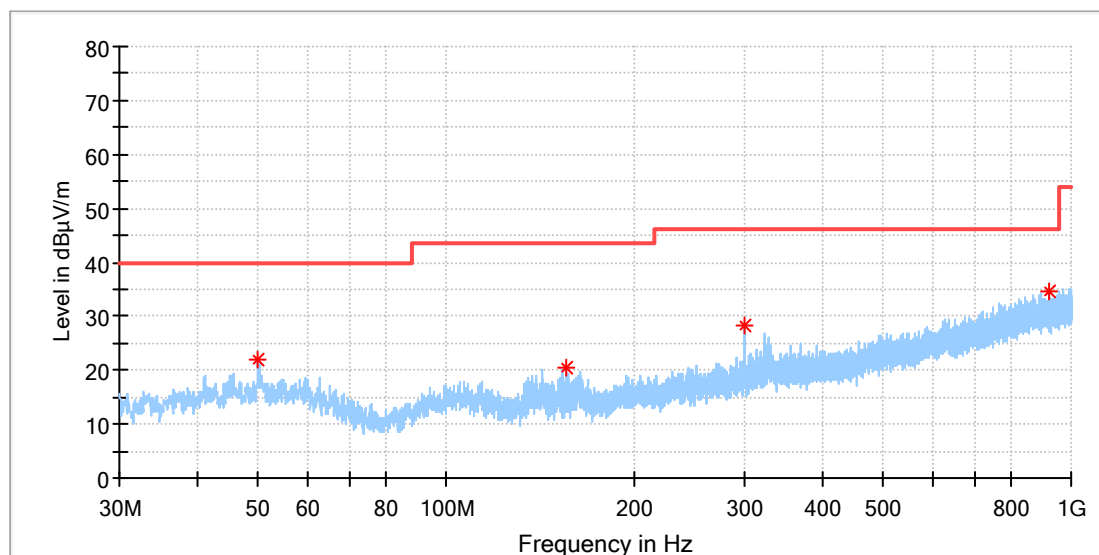
Final Result

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
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Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_High channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
50.030500	22.02	40.00	17.98	100.	H	0.0	-18.3
155.615000	20.57	43.50	22.93	100.	H	258.0	-22.0
300.290500	28.12	46.00	17.88	100.	H	286.0	-16.3
923.030500	34.58	46.00	11.42	100.	H	212.0	-4.8

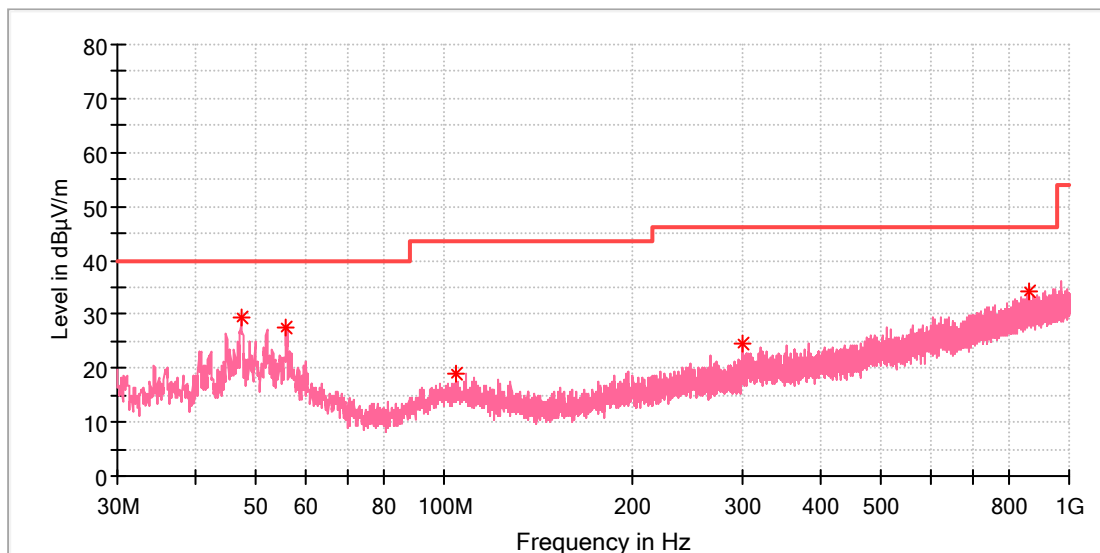
Final Result

Frequency (MHz)	QuasiPeak	Limit (dBµV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
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Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_High channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
47.363000	29.35	40.00	10.65	100.	V	0.0	-18.5
55.802000	27.68	40.00	12.32	100.	V	295.0	-18.5
104.253500	18.97	43.50	24.53	100.	V	102.0	-18.8
300.290500	24.67	46.00	21.33	100.	V	268.0	-16.3
864.151500	34.06	46.00	11.94	100.	V	329.0	-5.3

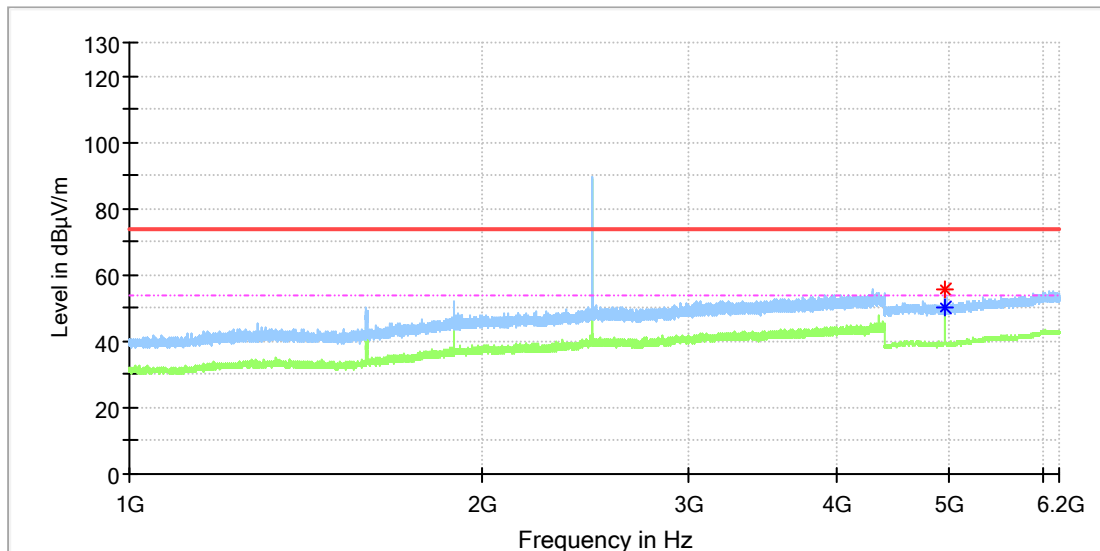
Final Result

Frequency (MHz)	QuasiPeak	Limit (dBµV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
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Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_High channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Average	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
4960.000000	---	50.02	54.00	3.98	100.	H	179.0	11.8
4960.500000	55.49	---	74.00	18.51	100.	H	205.0	11.8

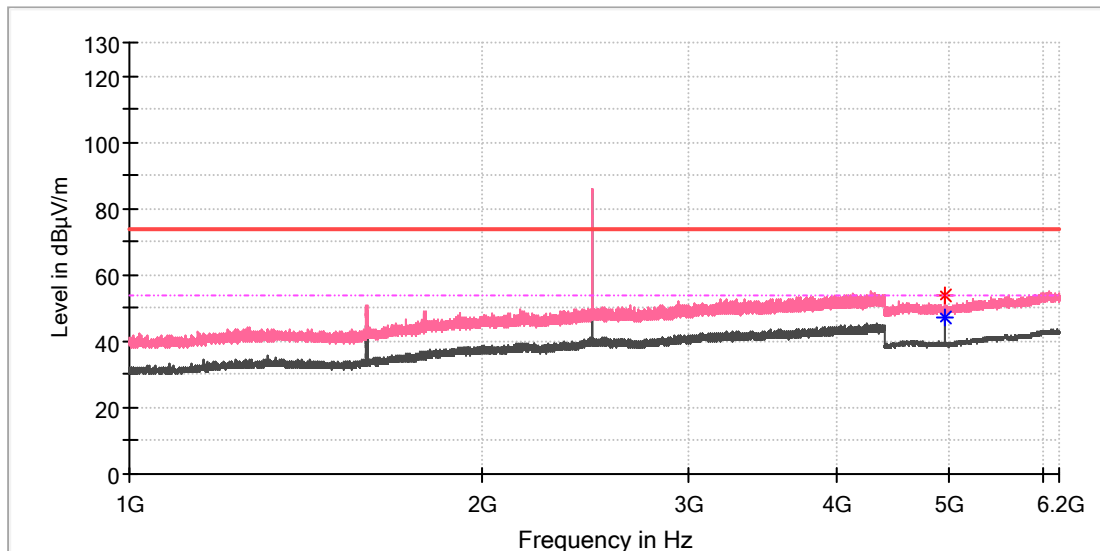
Final Result

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
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Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_High channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Average	Limit (dBµV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
4960.000000	53.96	---	74.00	20.04	100.	V	192.0	11.8
4960.500000	---	47.01	54.00	6.99	100.	V	192.0	11.8

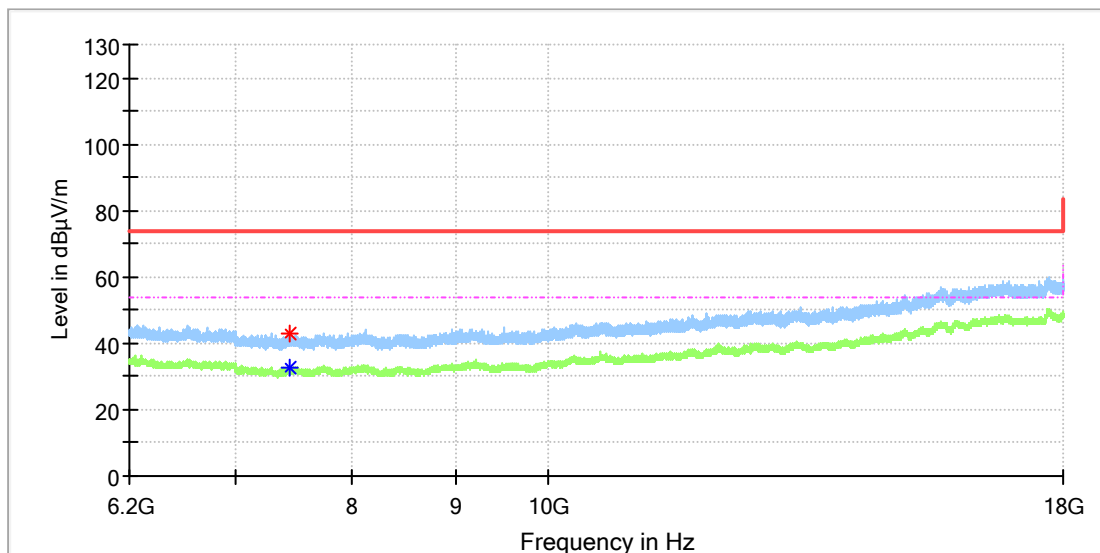
Final Result

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
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Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_High channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Average	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
7441.950000	---	32.86	54.00	21.14	100.	H	184.0	8.4
7451.291667	42.77	---	74.00	31.23	100.	H	282.0	8.5

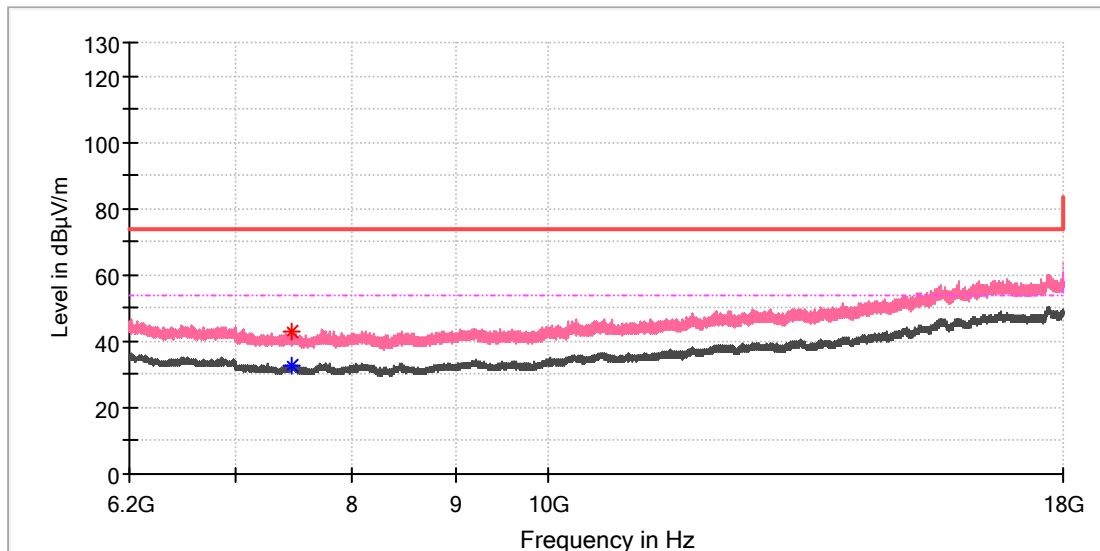
Final Result

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
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Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_High channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Average	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
7467.516667	---	32.89	54.00	21.11	100.	V	175.0	8.6
7469.483333	42.72	---	74.00	31.28	100.	V	38.0	8.6

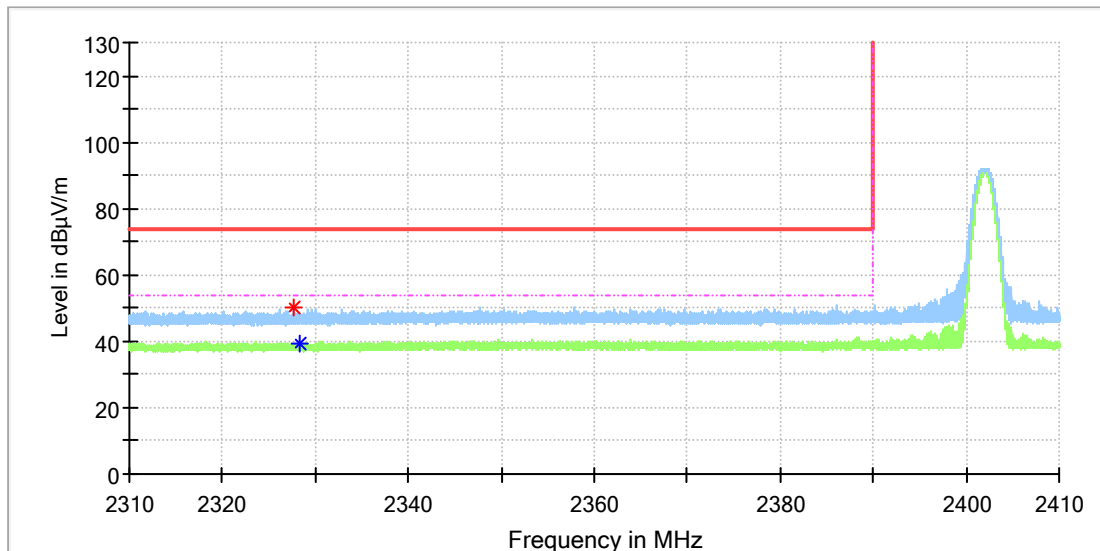
Final Result

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
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Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_Low channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Average	Limit (dBµV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
2327.655000	50.10	---	74.00	23.90	100.	H	158.0	6.7
2328.345000	---	39.58	54.00	14.42	100.	H	158.0	6.7

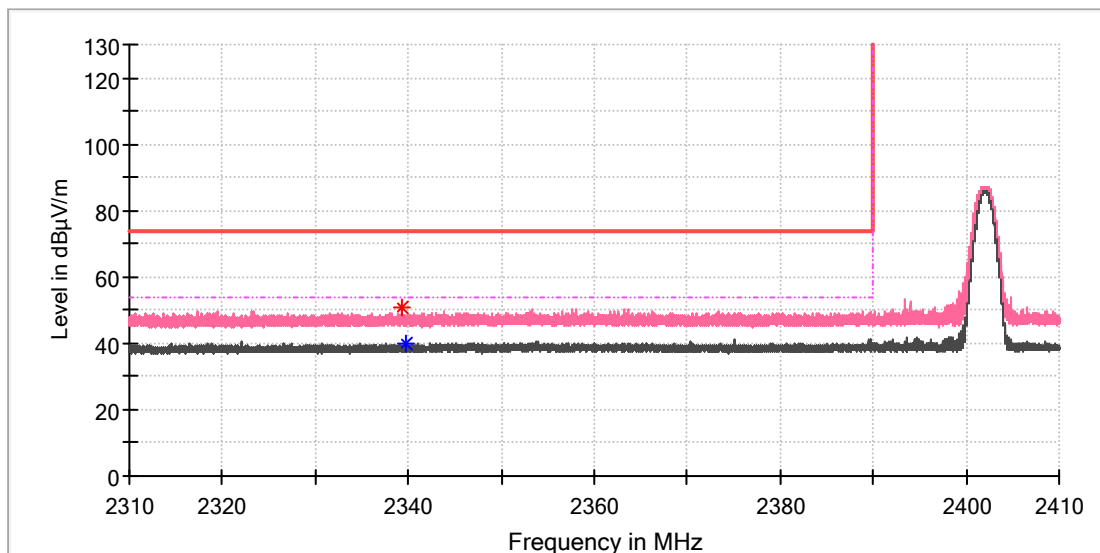
Final Result

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Polarization	Azimuth	Corr. (dB/)
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Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_Low channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Average	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
2339.240000	50.54	---	74.00	23.46	100.	V	0.0	6.8
2339.635000	---	40.15	54.00	13.85	100.	V	3.0	6.8

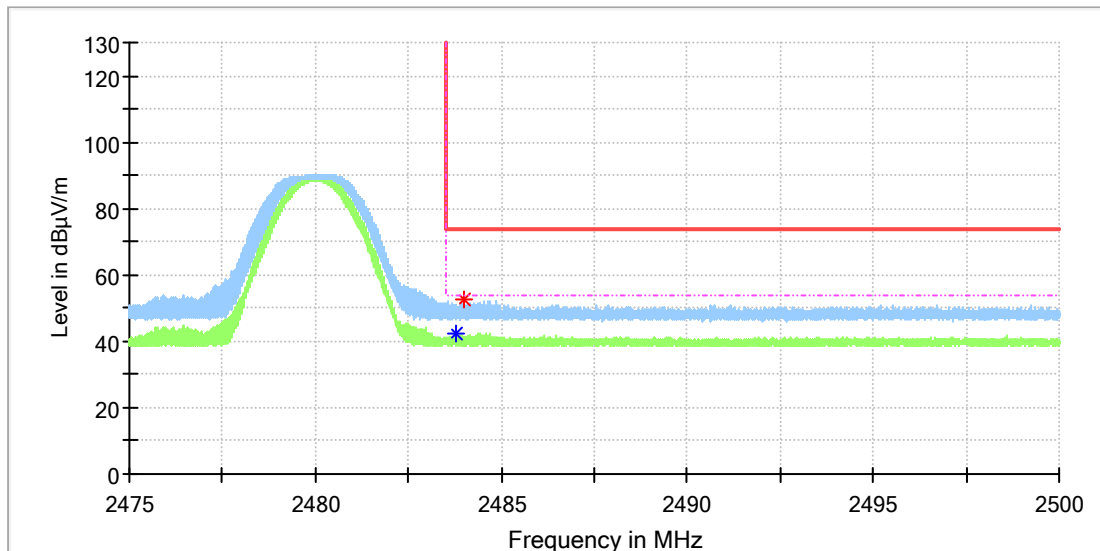
Final Result

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
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Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_High channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak	Average	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
2483.767500	---	42.61	54.00	11.39	100.	H	193.0	7.4
2484.020000	52.42	---	74.00	21.58	100.	H	55.0	7.4

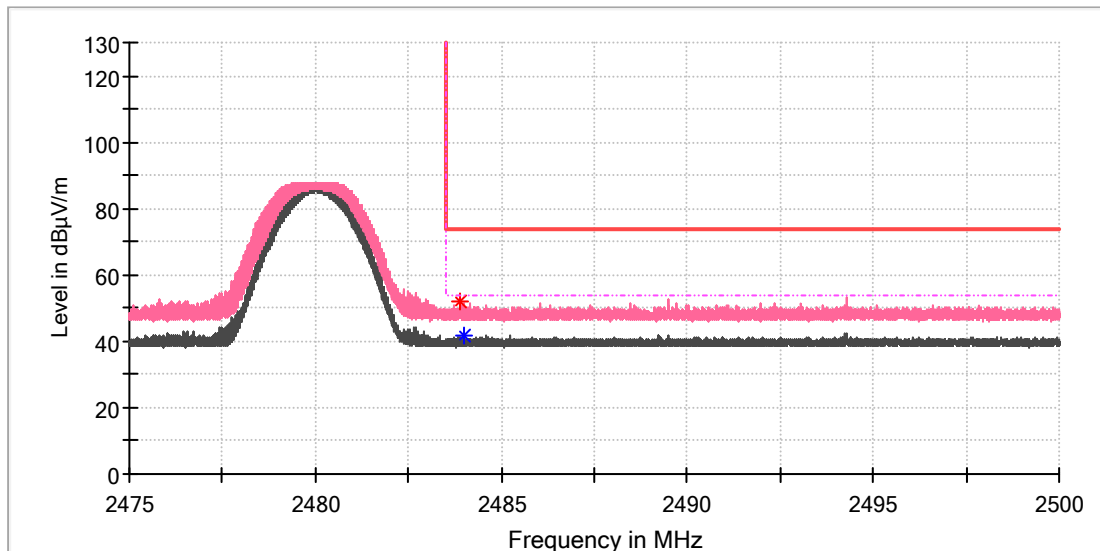
Final Result

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE_High channel
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak	Average	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
2483.906250	52.03	---	74.00	21.97	100.	V	217.0	7.4
2483.975000	---	41.50	54.00	12.50	100.	V	111.0	7.4

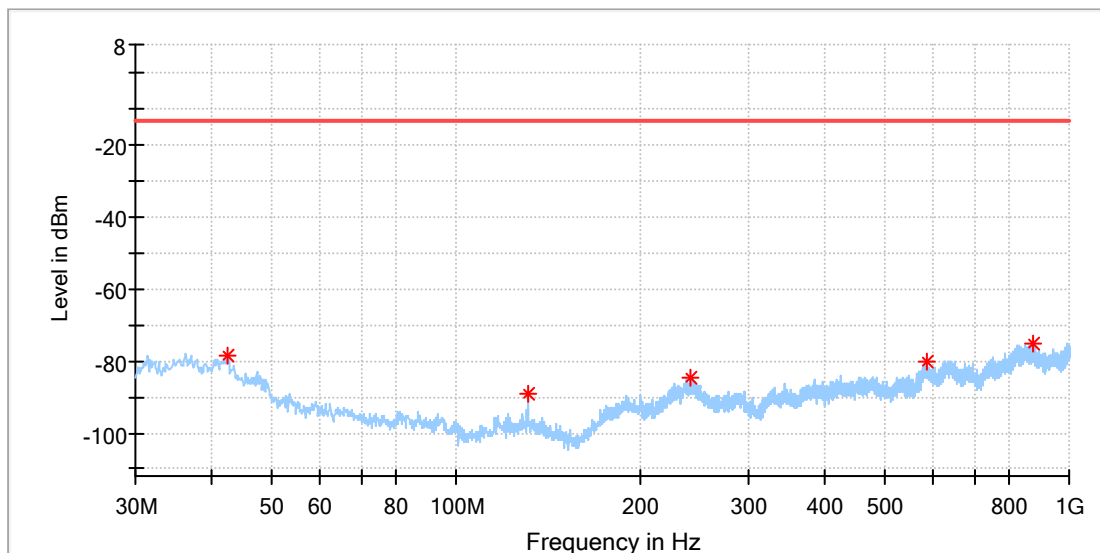
Final_Result

Frequency (MHz)	MaxPeak	Limit (dBµV/)	Margin	Height	Po l	Azimuth	Corr. (dB/)
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Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE+WCDMA Band 5
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



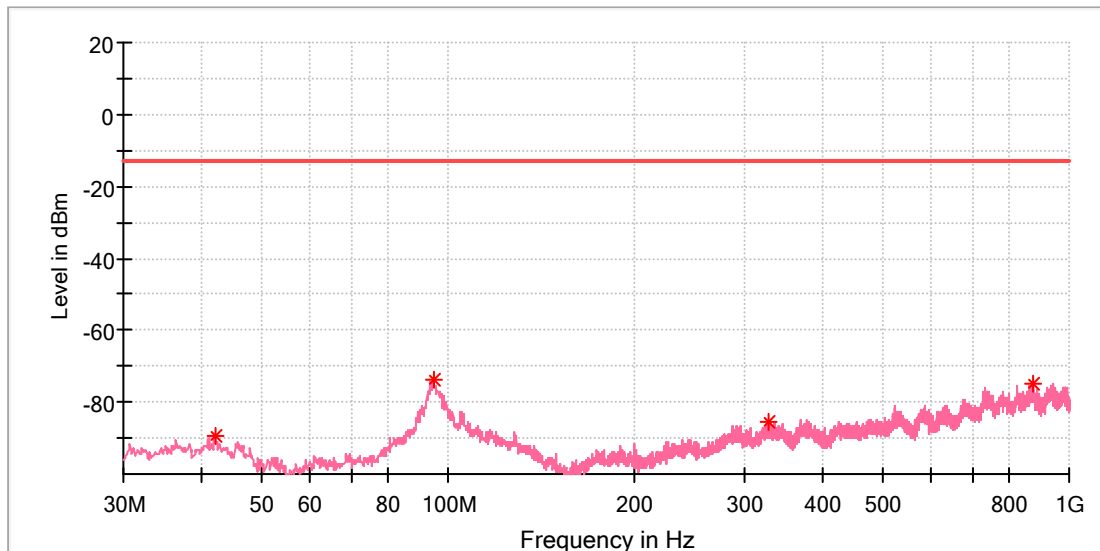
Critical Freqs

Frequency (MHz)	MaxPeak	Limit (dBm)	Margin	Height	Polarization	Azimuth	Corr. (dB)
42.488750	-78.39	-13.00	65.39	100.	H	328.0	-
131.001250	-89.07	-13.00	76.07	100.	H	187.0	-
241.217500	-84.47	-13.00	71.47	100.	H	250.0	-
585.446250	-80.08	-13.00	67.08	100.	H	149.0	-
875.355000	-75.03	-13.00	62.03	100.	H	44.0	-

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE+WCDMA Band 5
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



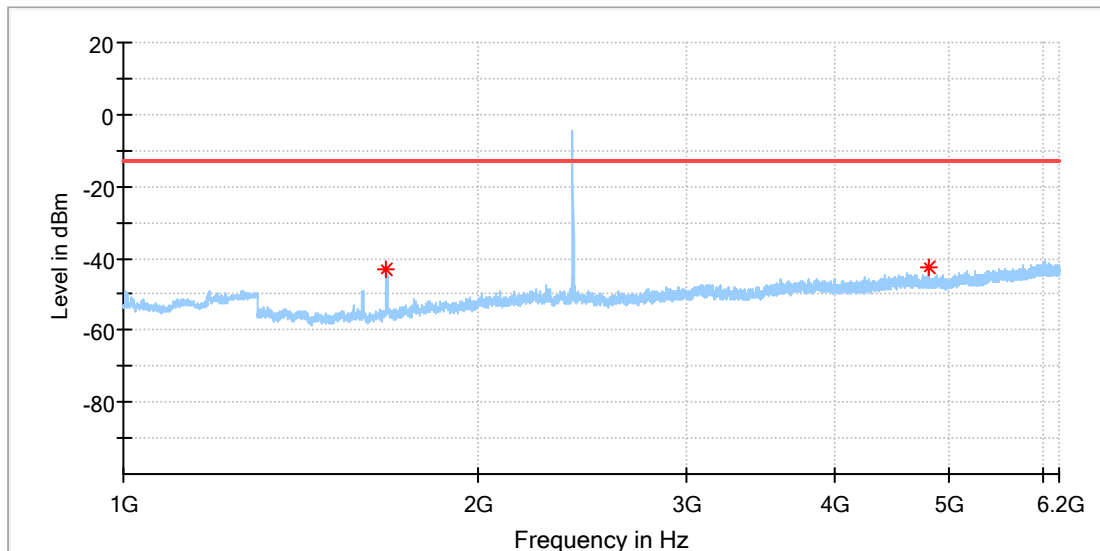
Critical Freqs

Frequency (MHz)	MaxPeak	Limit (dBm)	Margin	Height	Polarization	Azimuth	Corr. (dB)
42.125000	-89.15	-13.00	76.15	100.	V	296.0	-
94.990000	-73.61	-13.00	60.61	100.	V	241.0	-99.8
329.245000	-85.24	-13.00	72.24	100.	V	163.0	-
873.172500	-74.70	-13.00	61.70	100.	V	21.0	-

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE+WCDMA Band 5
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



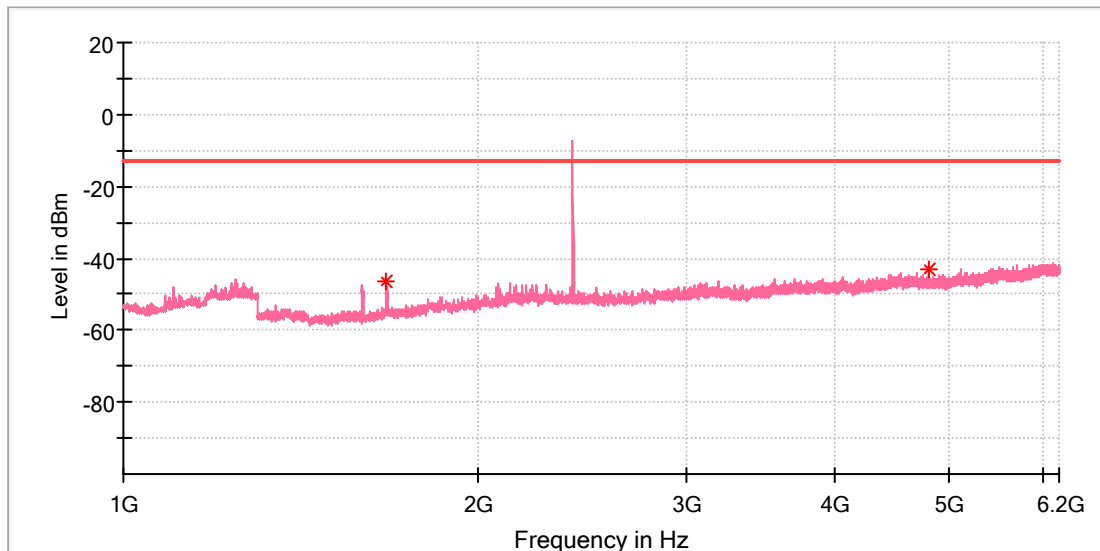
Critical Freqs

Frequency (MHz)	MaxPeak	Limit (dBm)	Margin	Height	Polarization	Azimuth	Corr. (dB)
1670.000000	-43.27	-13.00	30.27	100.	H	232.0	-92.6
4804.000000	-42.47	-13.00	29.47	100.	H	188.0	-83.9

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE+WCDMA Band 5
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



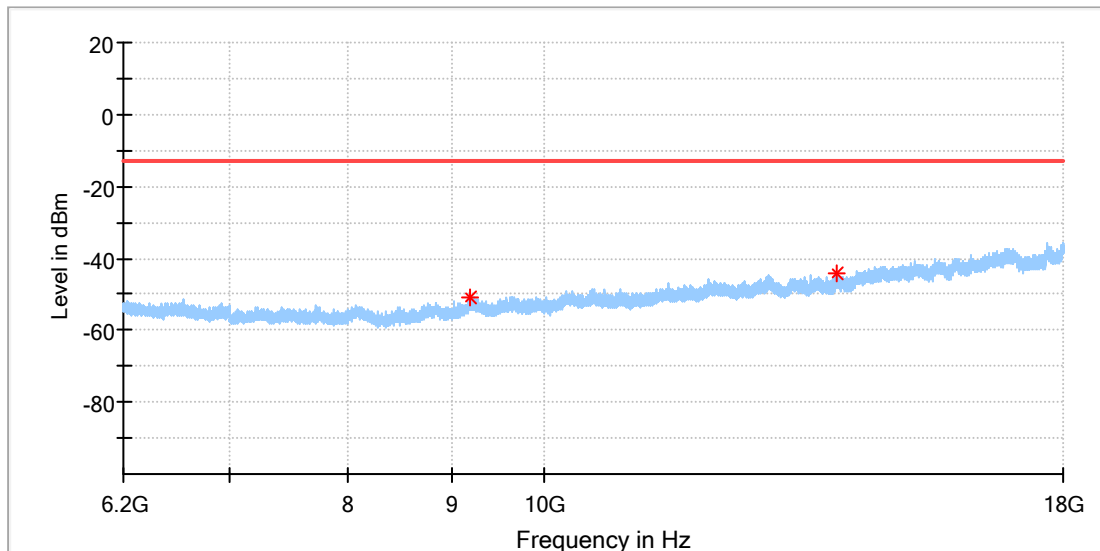
Critical Freqs

Frequency (MHz)	MaxPeak	Limit (dBm)	Margin	Height	Polarization	Azimuth	Corr. (dB)
1670.500000	-46.39	-13.00	33.39	100.	V	267.0	-92.2
4804.000000	-43.15	-13.00	30.15	100.	V	293.0	-84.0

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE+WCDMA Band 5
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



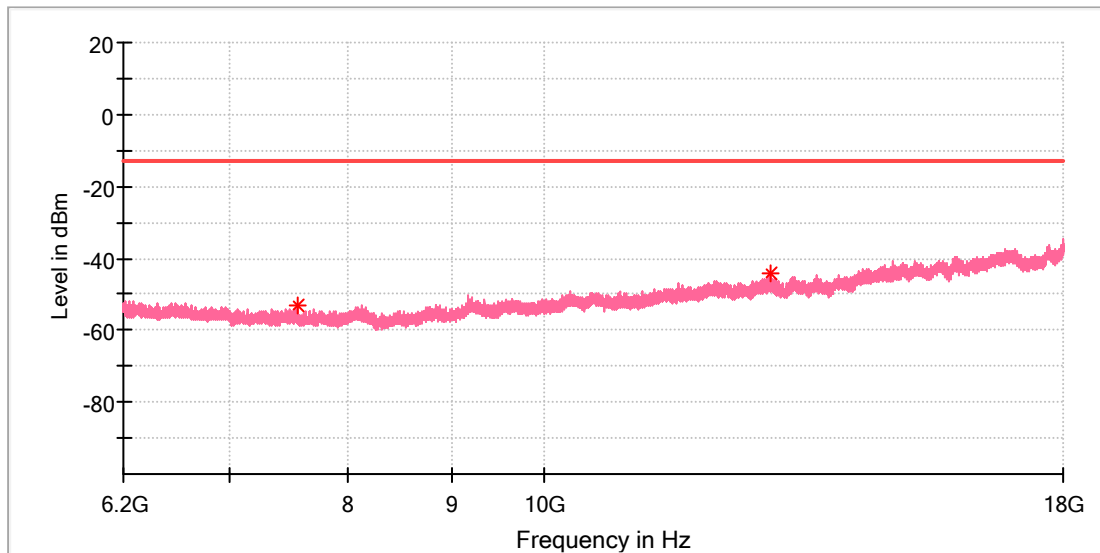
Critical Freqs

Frequency (MHz)	MaxPeak	Limit (dBm)	Margin	Height	Polarization	Azimuth	Corr. (dB)
9185.400000	-50.88	-13.00	37.88	100.	H	74.0	-84.4
13927.033333	-43.95	-13.00	30.95	100.	H	83.0	-79.1

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE+WCDMA Band 5
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



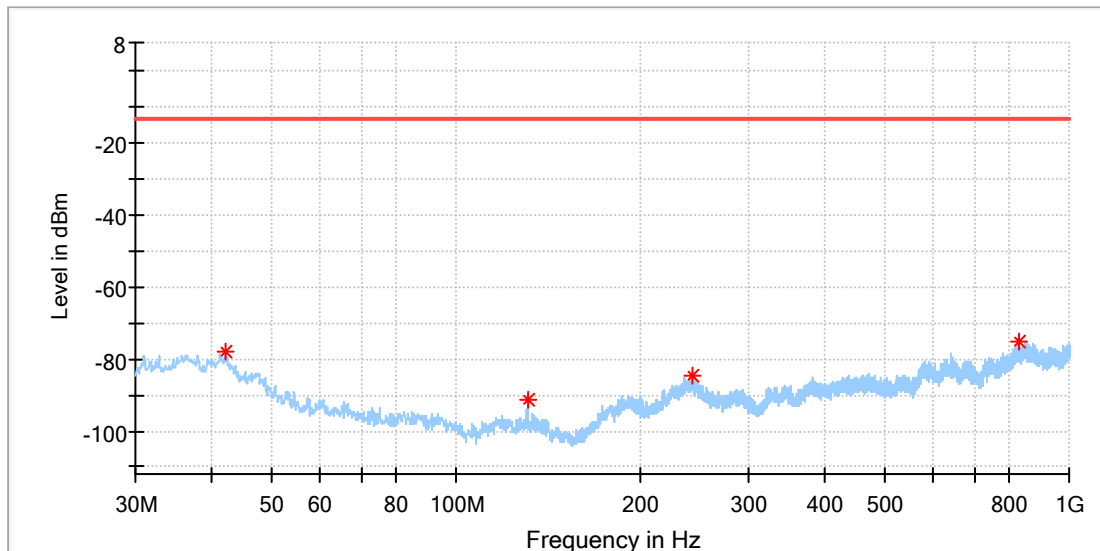
Critical Freqs

Frequency (MHz)	MaxPeak	Limit (dBm)	Margin	Height	Polarization	Azimuth	Corr. (dB)
7557.000000	-53.26	-13.00	40.26	100.	V	251.0	-87.4
12905.350000	-44.17	-13.00	31.17	100.	V	121.0	-78.3

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE+LTE Band 5
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



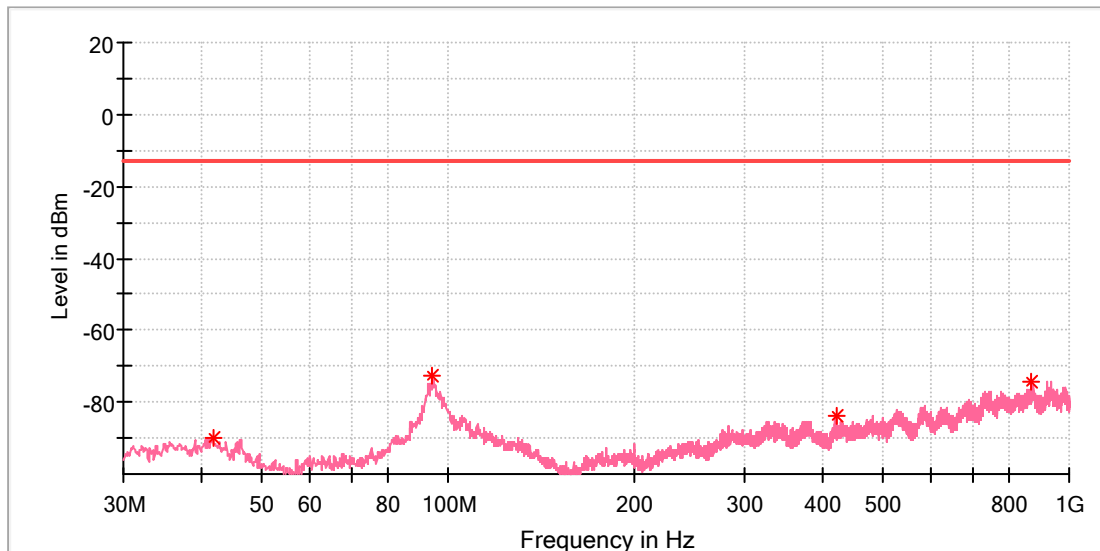
Critical Freqs

Frequency (MHz)	MaxPeak	Limit (dBm)	Margin	Height	Polarization	Azimuth	Corr. (dB)
42.125000	-77.70	-13.00	64.70	100.	H	39.0	-
130.880000	-91.46	-13.00	78.46	100.	H	193.0	-
243.521250	-84.45	-13.00	71.45	100.	H	256.0	-
826.491250	-75.41	-13.00	62.41	100.	H	295.0	-

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE+LTE Band 5
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



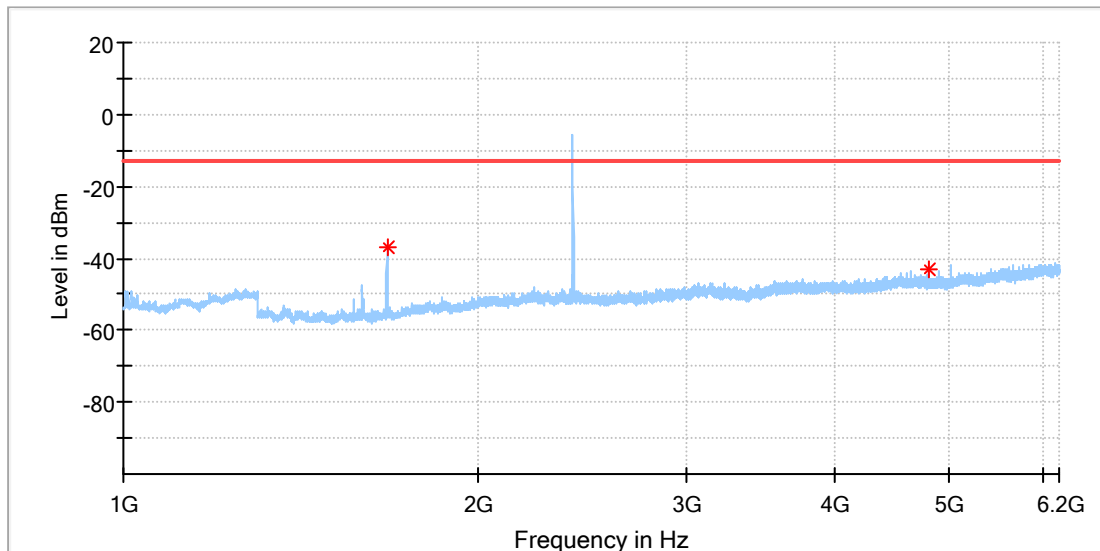
Critical Freqs

Frequency (MHz)	MaxPeak	Limit (dBm)	Margin	Height	Polarization	Azimuth	Corr. (dB)
41.882500	-89.77	-13.00	76.77	100.	V	61.0	-
94.262500	-72.77	-13.00	59.77	100.	V	271.0	-99.7
422.486250	-83.73	-13.00	70.73	100.	V	307.0	-
866.867500	-74.49	-13.00	61.49	100.	V	314.0	-99.5

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE+LTE Band 5
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



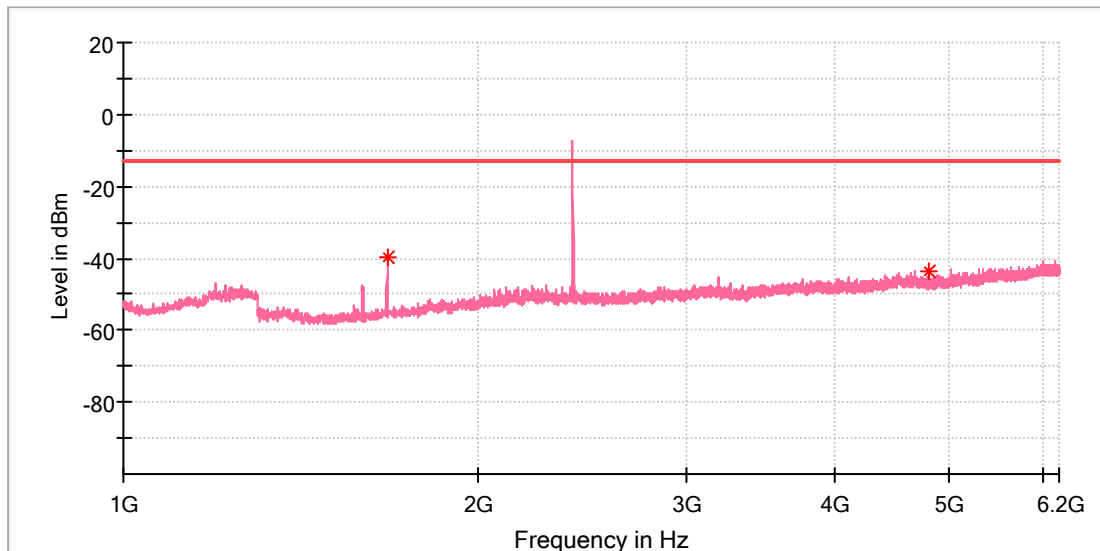
Critical Freqs

Frequency (MHz)	MaxPeak	Limit (dBm)	Margin	Height	Polarization	Azimuth	Corr. (dB)
1673.000000	-36.82	-13.00	23.82	100.	H	209.0	-92.5
4804.500000	-42.84	-13.00	29.84	100.	H	157.0	-83.9

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE+LTE Band 5
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



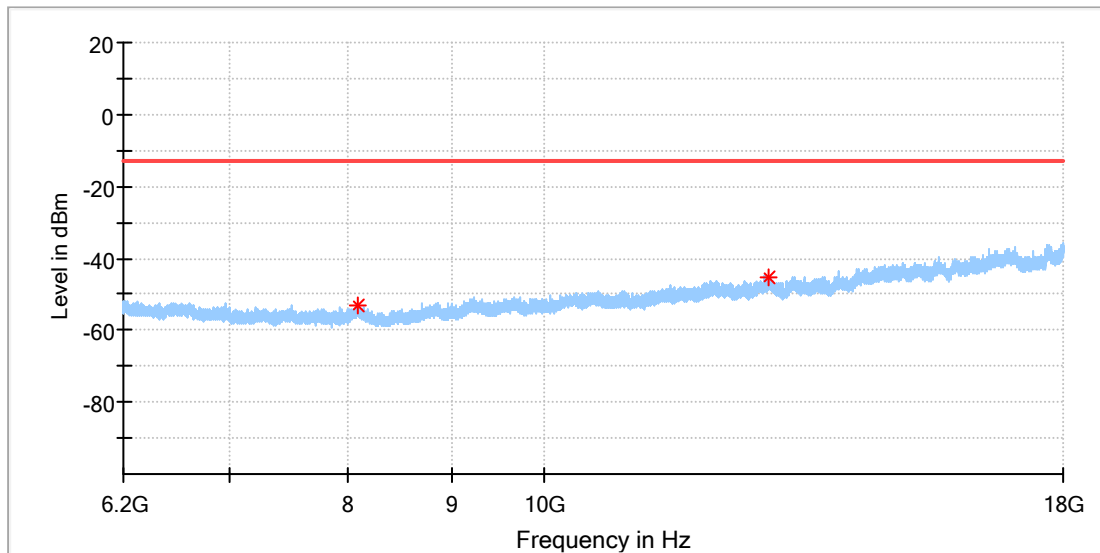
Critical Freqs

Frequency (MHz)	MaxPeak	Limit (dBm)	Margin	Height	Polarization	Azimuth	Corr. (dB)
1673.000000	-39.90	-13.00	26.90	100.	V	251.0	-92.2
4803.500000	-43.46	-13.00	30.46	100.	V	290.0	-84.0

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE+LTE Band 5
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



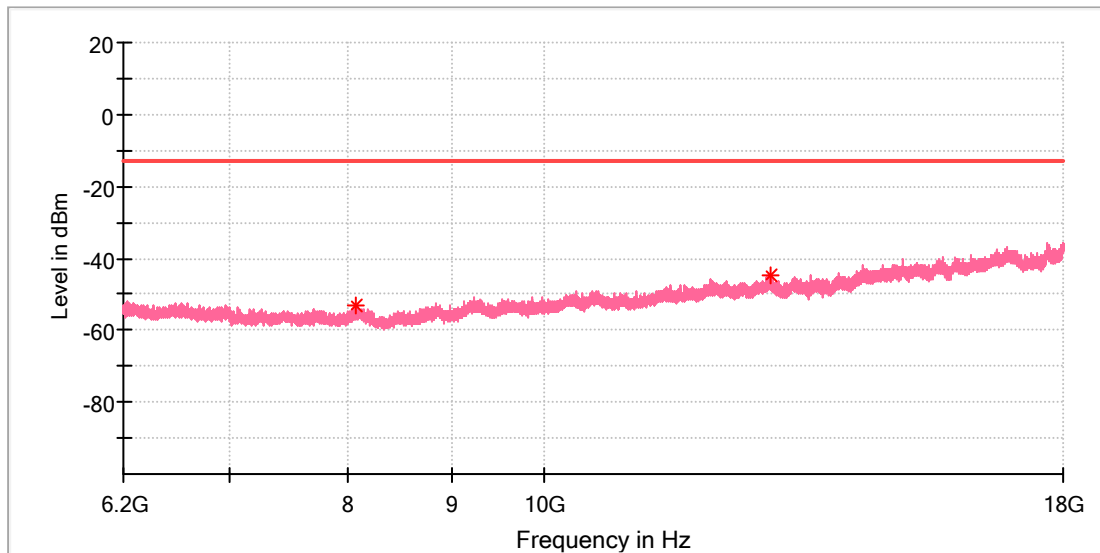
Critical Freqs

Frequency (MHz)	MaxPeak	Limit (dBm)	Margin	Height	Polarization	Azimuth	Corr. (dB)
8095.375000	-52.84	-13.00	39.84	100.	H	220.0	-86.7
12886.666667	-45.10	-13.00	32.10	100.	H	300.0	-78.6

Test Report

EUT Information

EUT Name:	Tbox
Model:	EV2-G
Test Mode:	BLE+LTE Band 5
Order No/Sample No:	168345209/A003170855-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 22
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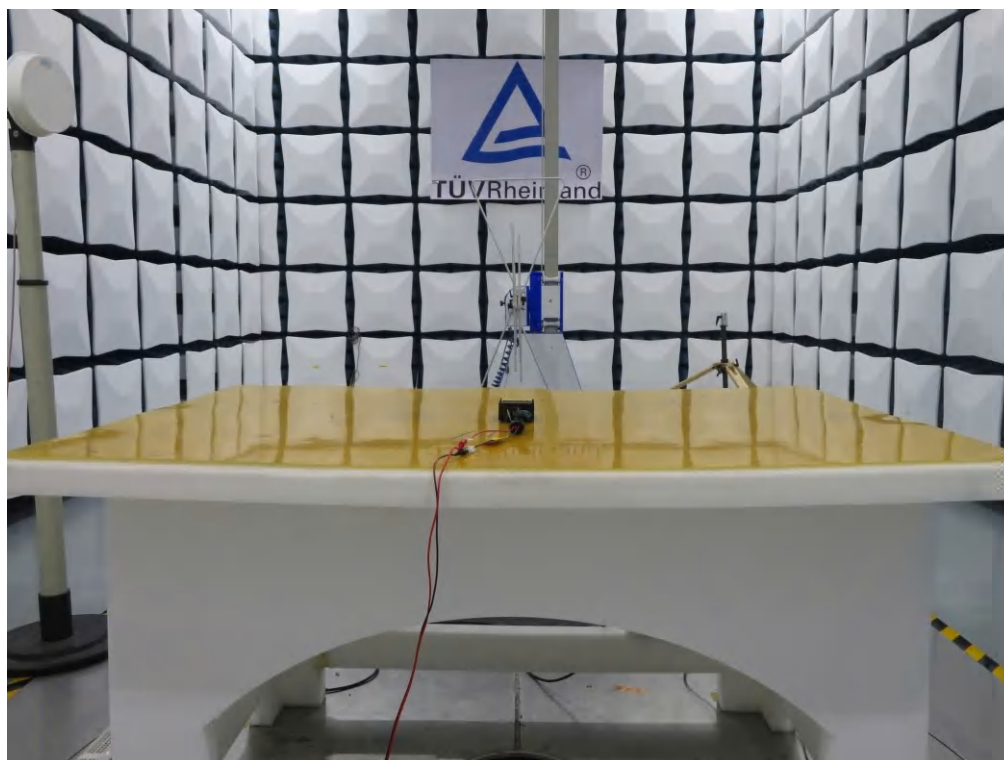
Critical Freqs

Frequency (MHz)	MaxPeak	Limit (dBm)	Margin	Height	Polarization	Azimuth	Corr. (dB)
8073.250000	-53.09	-13.00	40.09	100.	V	302.0	-86.7
12909.283333	-44.68	-13.00	31.68	100.	V	0.0	-78.4

Appendix 2: **Photographs of the Test Set-Up**

APPENDIX 2 : PHOTOGRAPHS OF THE TEST SET-UP.....1
PHOTOGRAPH 1: SET-UP PHOTO FOR RADIATED SPURIOUS EMISSION, UP TO 1GHz2
PHOTOGRAPH 2: SET-UP PHOTO FOR RADIATED SPURIOUS EMISSION, ABOVE 1GHz2

Photograph 1: Set-up photo for Radiated Spurious Emission, up to 1GHz



Photograph 2: Set-up photo for Radiated Spurious Emission, above 1GHz

