

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

The Art of Utility AB

Bluetooth Headset

Model Number: Defunc TRUE LITE

Additional Model: D4261, D4262, D4263, D4264, D4265, D4266

FCC ID: 2AKFED42L

Applicant :	The Art of Utility AB
Address:	Hollandargatan 22, 113 59 Stockholm, Sweden
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
Tel: 86-769-83081888-808	

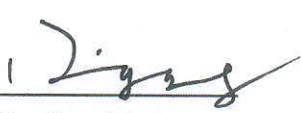
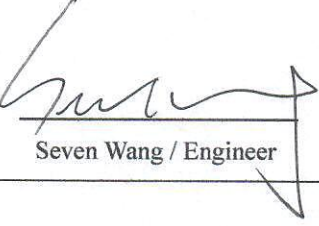
Report Number:	ESTE-R2311006
Date of Test:	Oct. 20~30, 2023
Date of Report:	Nov. 01. 2023

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EST Technology Co., Ltd.

Applicant:	The Art of Utility AB		
Address:	Hollandargatan 22, 113 59 Stockholm, Sweden		
Manufacturer:	Topalong Intelligent Technology (Dongguan) Co., Ltd		
Address:	3rd Floor, No. 2 Building, Shijing Stech park, Dongcheng district, Dongguan city, Guangdong province, PRC		
Factory:	Topalong Intelligent Technology (Dongguan) Co., Ltd		
Address:	3rd Floor, No.2 Building, Shijing Stech park, Dongcheng district, Dongguan city, Guangdong province, PRC		
E.U.T:	Bluetooth Headset		
Model Number:	Defunc TRUE LITE		
Additional Model:	D4261, D4262, D4263, D4264, D4265, D4266 Note: They are identical except model name and appearance of color.		
Power Supply:	Charging Case Input: DC 5V/0.3A, Battery Inside: DC 3.7V ; Earbuds: DC 3.7V From Battery		
Trade Name:	defunc	Serial No.:	-----
Date of Receipt:	Oct. 20, 2023	Date of Test:	Oct. 20~30, 2023
Test Specification:	FCC Part 15 Subpart C (15.247) ANSI C63.10:2013 FCC KDB 558074 D01 15.247 Meas Guidance v05r02		
Test Result:	The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.		
Prepared by:		Reviewed by:	
 Ring Yang / Assistant		 Seven Wang / Engineer	
		Date: Nov. 01, 2023 Approved by:  Iceman Hu / Manager	
Other Aspects:	None.		
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.			



1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	Bluetooth Headset
Model Number	:	Defunc TRUE LITE
Software Version	:	V2
Hardware Version	:	V2
Operation frequency	:	2402MHz~2480MHz
Number of channel	:	40
Max Output Power (PEAK)	:	Left earbud: -8.26dBm Right earbud: -8.23dBm
Modulation Type	:	GFSK 1Mbps; GFSK 2Mbps
Sample Type	:	Prototype production

Note: For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

1.2. Antenna Information

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1. Left earbud	-	-	Internal	-	1.95
2. Right earbud	-	-	Internal	-	1.95

Note: This information is provided by the applicant.

1.3. Information of RF Cable

Cable Loss(dB)	Provided by
1.0	The Art of Utility AB
Note: 1.The customer declared the loss value of the RF Cable, and the test results of this report only apply to the sample as received. 2. This information is provided by the applicant.	

2. SUMMARY OF TEST

2.1. Summary of test result

No.	Description of Test Item	FCC Standard Section	Results
1	6dB Bandwidth	15.247(a)(2)	PASS
2	Maximum Peak Output Power	15.247(b)(3)	PASS
3	Power Spectral Density	15.247(e)	PASS
4	Conducted Band Edge	15.247(d)	PASS
5	Conducted Spurious Emissions	15.247(d)	PASS
6	Radiated Spurious Emissions and Band Edge	15.205 15.209 15.247(d)	PASS
7	AC Power Line Conducted Emissions	15.207	PASS
8	Antenna Requirement	15.203	PASS

Note:“N/A” denotes test is not applicable in this test report.

2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA
Registration No.: L5288
This Certificate is valid until: November 12, 2023

Certificated by FCC, USA
Designation Number: CN1215
This Certificate is valid until: January 31, 2024

Certificated by A2LA, USA
Registration No.: 4366.01
This Certificate is valid until: January 31, 2024

Certificated by Industry Canada
CAB identifier No.: CN0035
This Certificate is valid until: January 31, 2024

Certificated by VCCI, Japan
Registration No.:C-14103; T-20073; R-13663;
R-20103; G-20097
Date of registration: Apr. 20, 2020
This Certificate is valid until: Apr. 19, 2026

Certificated by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Certificated by Intertek
Registration No.: 2011-RTL-L2-64
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
Guangdong, China

2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	$\pm 3.48\text{dB}$
Uncertainty for spurious emissions test (Below 30MHz)	$\pm 1.62\text{ dB}$
Uncertainty for spurious emissions test (30MHz-1GHz)	$\pm 4.60\text{ dB(Polarize: H)}$
	$\pm 4.68\text{ dB(Polarize: V)}$
Uncertainty for spurious emissions test (1GHz to 25GHz)	$\pm 4.96\text{dB}$
Uncertainty for radio frequency	7×10^{-8}
Uncertainty for conducted RF Power	1.08dB
Uncertainty for Power density test	0.26dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

2.4. Assistant equipment used for test

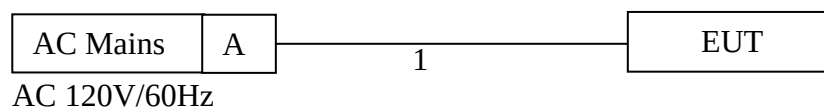
Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
A	Adapter	-	HKC0105020-4H	-	-

Note: Don't configuration adapter when it sales on the market,
The adapter provided by the laboratory.

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	0.5m	DC Cable

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground. EUT was beset into BLE test mode by software before test.



(EUT: Bluetooth Headset)

2.6. Test Mode

The test mode was selected for the final test as listed below.

Test Item	Modulation Type	Test Channel
6dB Bandwidth	GFSK	Low/Middle/High
Maximum Peak Output Power	GFSK	Low/Middle/High
Power Spectral Density	GFSK	Low/Middle/High
Conducted Band Edge	GFSK	Low/ High
Conducted Spurious Emissions	GFSK	Low/Middle/High
Radiated Spurious Emissions(Below 1GHz)	GFSK	Low/Middle/High
Radiated Spurious Emissions(Above 1GHz)	GFSK	Low/Middle/High
Radiated Band Edge	GFSK	Low/High
AC Power Line Conducted Emissions	GFSK	Low/Middle/High

Note:In radiated measurement,the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.

2.7. Power Setting of Test Software

Software Name	FCC Assist 1.0.2.2		
Frequency(MHz)	2402	2440	2480
GFSK 1MbpsSetting	Default	Default	Default
GFSK 2MbpsSetting	Default	Default	Default

Note: This information is provided by the applicant.

2.8. Duty Cycle

Refer to section 11: Appendix H

Note:

1. If duty cycle $< 98\%$, the conducted average output power and average power spectral density should be add duty factor.
2. If duty cycle $\geq 98\%$, the EUT is consider to be transmitting continuously, the conducted average output power and average power spectral density no need to add duty factor (consider to be zero).
3. The conducted peak output power and peak power spectral density no need to consider duty factor.
4. The on-time time is transmission duration (T).

2.9. Channel List

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	1	2404
2	2406	3	2408
4	2410	5	2412
6	2414	7	2416
8	2418	9	2420
10	2422	11	2424
12	2426	13	2428
14	2430	15	2432
16	2434	17	2436
18	2438	19	2440
20	2442	21	2444
22	2446	23	2448
24	2450	25	2452
26	2454	27	2456
28	2458	29	2460
30	2462	31	2464
32	2466	33	2468
34	2470	35	2472
36	2474	37	2476
38	2478	39	2480

2.10. Test Equipment List

For conducted emission test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	LISAI	June 12,23	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 12,23	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For radiated emission test(9kHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 12,23	1 Year
Active Loop Antenna	SCHWARZB ECK	FMZB 1519B	EST-E054	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

For radiated emissions test (30MHz-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 12,23	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

For radiated emission test(Above 1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZB ECK	BBHA9120D	EST-E144	LISAI	June 12,23	1 Year
Horn Antenna	Com-Power	AHA-840	EST-E133	LISAI	June 12,23	1 Year
Low Noise Amplifier	RF	TRLA-01018 0G45N	EST-E142	LISAI	June 12,23	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	EST-E069	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
Above 1GHz Cable	N/A	EST-003	N/A	N/A	N/A	N/A

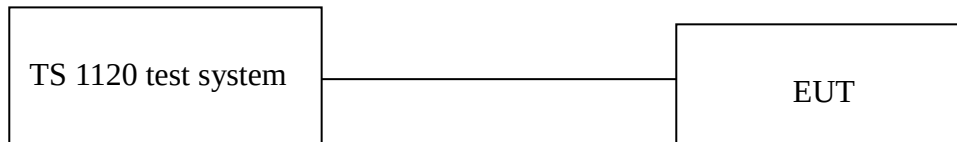
For connect EUT antenna terminal test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
TS 1120	Tonscend	/	/	/	/	/
Test Software	Tonscend	TS1120-3	3.3.38	/	/	/
RF Control Unit	Tonscend	JS0806-2	EST-E134	LISAI	June 12,23	1 Year
Signal and Spectrum Analyzer	Keysight	N9010B	EST-E141	LISAI	June 12,23	1 Year

3. 6dB BANDWIDTH

3.1. Limit

Systems using digital modulation techniques operate in the 2400-2483.5 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz.

3.2. Test Setup



3.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Span	3MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

3.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the ndB down function to measure 6dB Bandwidth.
- Repeat above procedures until all channels were measured.
- Record the results in the test report.

3.5. Test Result

Refer to section 11: Appendix A

4. MAXIMUM PEAK OUTPUT POWER

4.1. Limit

For systems using digital modulation in 2400-2483.5 MHz, the maximum peak output power is 1 Watt(30dBm).

4.2. Test Setup



4.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	$\geq$ DTS Bandwidth
VBW	3*RBW
Span	$\geq$ 3*DTS Bandwidth
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

4.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 4.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission.
- Repeat above procedures until all channels were measured.
- Record the results in the test report.

4.5. Test Result

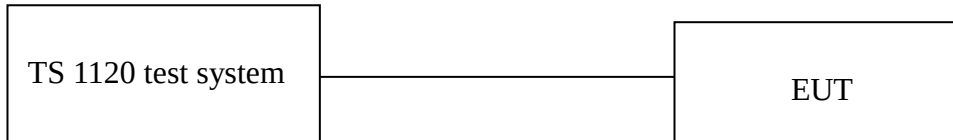
Refer to section 11: Appendix C

5. POWER SPECTRAL DENSITY

5.1. Limit

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.

5.2. Test Setup



5.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	3KHz
VBW	10KHz
Span	2MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

5.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 5.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission.
- Repeat above procedures until all channels were measured.
- Record the results in the test report.

5.5. Test Result

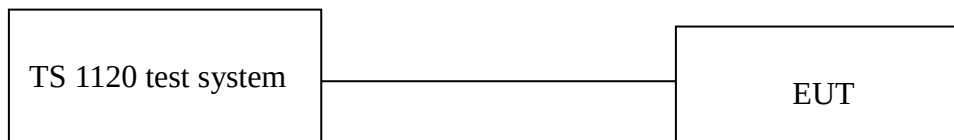
Refer to section 11: Appendix D

6. CONDUCTED BAND EDGE

6.1. Limit

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)).

6.2. Test Setup



6.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Span	100MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

6.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 6.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the marker function to mark the highest emission level outside the authorized band.
- Repeat above procedures until all channels were measured.
- Record the results in the test report.

6.5. Test Result

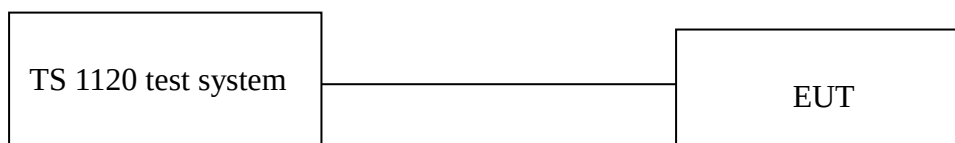
Refer to section 11: Appendix F & E

7. CONDUCTED SPURIOUS EMISSIONS

7.1. Limit

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)).

7.2. Test Setup



7.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	26.5GHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

7.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 7.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the marker function to mark the highest emission level outside the authorized band.
- Repeat above procedures until all channels were measured.
- Record the results in the test report.

7.5. Test Result

Refer to section 11: Appendix G & E

8. RADIATED SPURIOUS EMISSIONS AND BAND EDGE

8.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

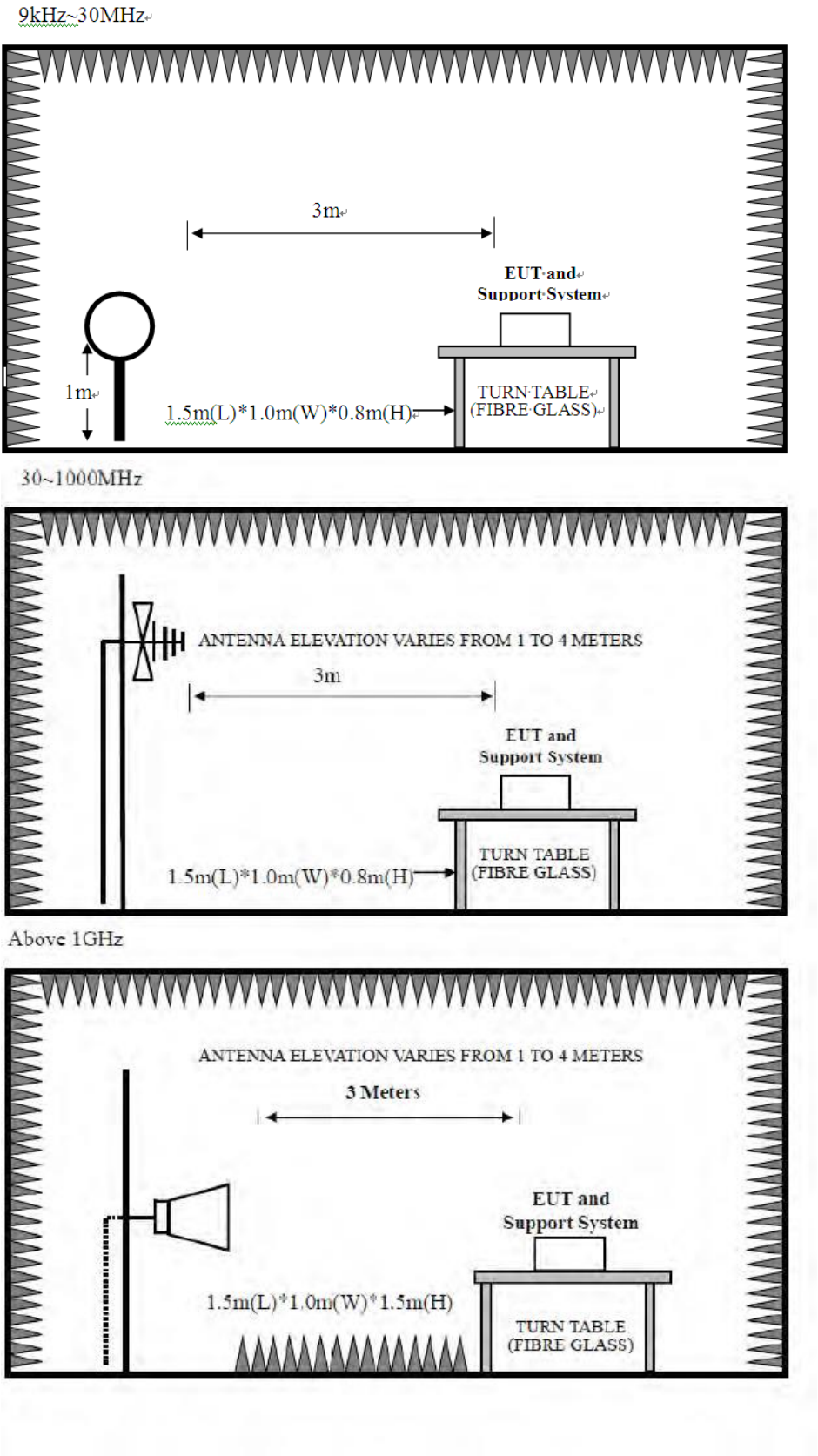
15.209 Limit

Frequency (MHz)	Field Strength(μ V/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

- (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$.
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

8.2. Test Setup



8.3. Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle $\geq 98\%$, VBW=10Hz
		Duty cycle $< 98\%$, VBW $\geq 1/T$
Start frequency	1GHz	
Stop frequency	25GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

Note :T is the on-time time of the duty cycle,when EUT transmit continuously with maximum output power,unit is seconds. reference section 2.8 for the on-time time.

8.4. Test Procedure

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- f. Spectrum analyzer setting parameters in accordance with section 8.3.
- g. Repeat above procedures until all channels were measured.
- h. Record the results in the test report.

Note:

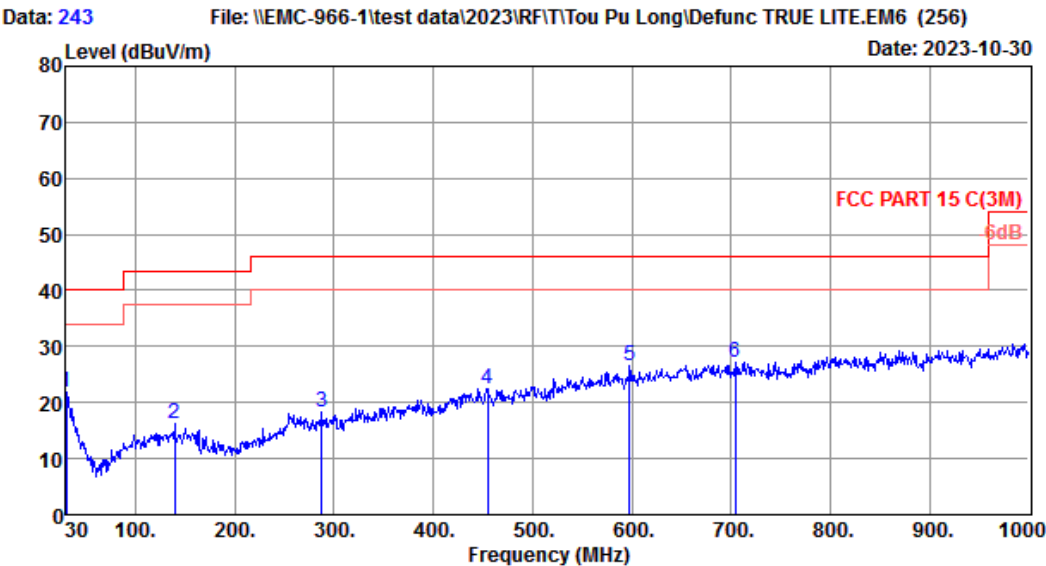
1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
2. The frequency 2402MHz ,2440MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.
3. Both 1Mbps and 2Mbps modes were tested, report a worse case for 1Mbps mode.

8.5. Test Result

Radiated Emissions Below 1GHz

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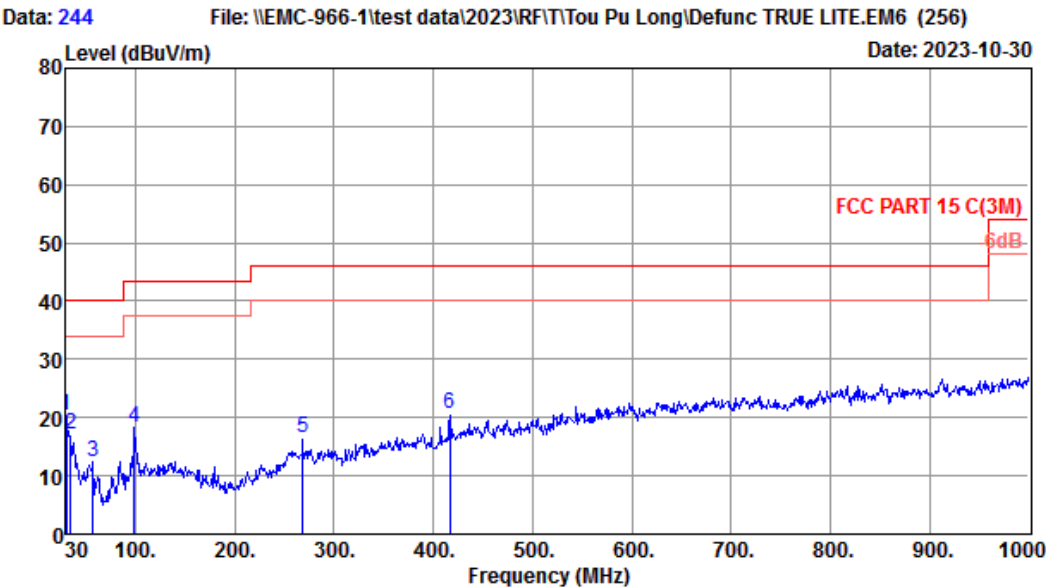
Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878



Site no. : 1# 966 Chamber Data no. : 243
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C(3M)
Env. / Ins. : Temp:23.9°C,Humi:52.3%;Press:101.82KPa
Engineer : DCY
EUT : Bluetooth Headset
Power : DC 3.7V From Battery
M/N : Defunc TRUE LITE
Test Mode : TX Mode
L

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	19.00	0.70	2.13	21.83	40.00	18.17	QP
2	139.61	12.80	1.69	1.88	16.37	43.50	27.13	QP
3	288.02	13.68	2.56	1.96	18.20	46.00	27.80	QP
4	454.86	18.50	3.26	0.73	22.49	46.00	23.51	QP
5	597.45	20.85	3.83	1.75	26.43	46.00	19.57	QP
6	704.15	21.50	4.21	1.47	27.18	46.00	18.82	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

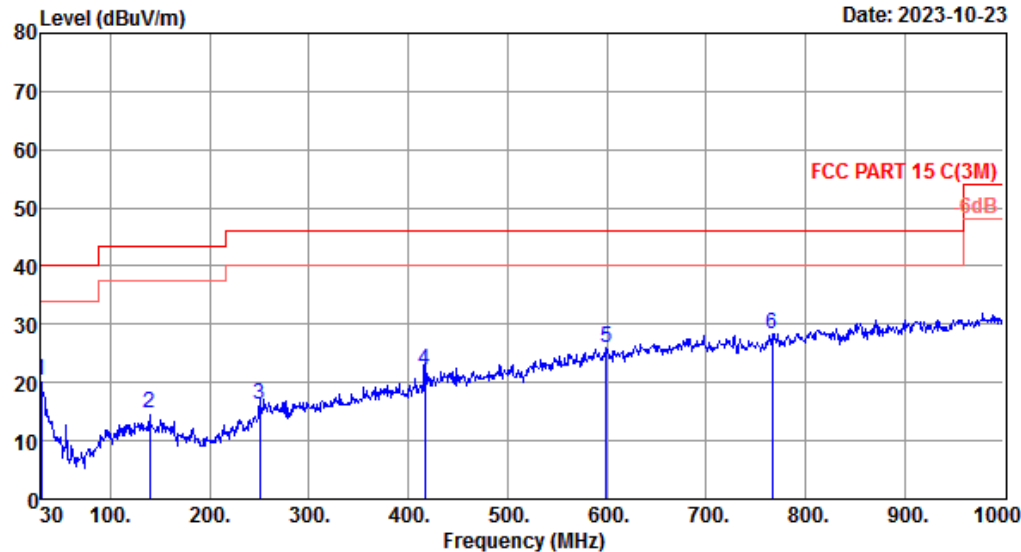


Site no. : 1# 966 Chamber Data no. : 244
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 C(3M)
Env. / Ins. : Temp:23.9℃,Humi:52.3%;Press:101.82KPa
Engineer : DCY
EUT : Bluetooth Headset
Power : DC 3.7V From Battery
M/N : Defunc TRUE LITE
Test Mode : TX Mode
L

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	19.00	0.70	0.72	20.42	40.00	19.58	QP
2	34.85	15.80	0.76	0.51	17.07	40.00	22.93	QP
3	57.16	6.40	1.07	5.00	12.47	40.00	27.53	QP
4	98.87	10.20	1.40	6.76	18.36	43.50	25.14	QP
5	268.62	13.74	2.44	0.44	16.62	46.00	29.38	QP
6	417.03	16.74	3.12	0.85	20.71	46.00	25.29	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Data: 245 File: \\EMC-966-1\\test data\\2023\\RF\\T\\Tou Pu Long\\Defunc TRUE LITE.EM6 (256) Date: 2023-10-23



Site no. : 1# 966 Chamber Data no. : 245
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 C(3M)
Env. / Ins. : Temp:24.5°C;Humi:46.3%;Press:101.47kPa
Engineer : DCY
EUT : Bluetooth Headset
Power : DC 3.7V From Battery
M/N : Defunc TRUE LITE
Test Mode : TX Mode
R

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	19.00	0.70	0.67	20.37	40.00	19.63	QP
2	139.61	12.80	1.69	0.21	14.70	43.50	28.80	QP
3	250.19	12.30	2.32	1.76	16.38	46.00	29.62	QP
4	417.03	16.74	3.12	2.41	22.27	46.00	23.73	QP
5	599.39	20.95	3.84	1.14	25.93	46.00	20.07	QP
6	766.23	22.74	4.40	1.31	28.45	46.00	17.55	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

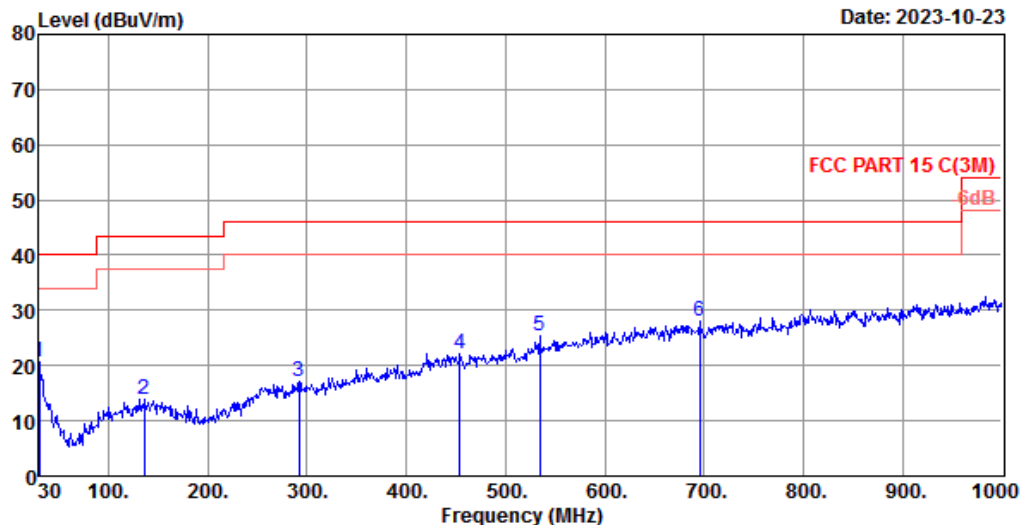
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 246

File: \\EMC-966-1\\test data\\2023\\RF\\T\\Tou Pu Long\\Defunc TRUE LITE.EM6 (256)

Date: 2023-10-23



Site no. : 1# 966 Chamber Data no. : 246
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C(3M)
 Env. / Ins. : Temp: 24.5°C; Humi: 46.3%; Press: 101.47kPa
 Engineer : DCY
 EUT : Bluetooth Headset
 Power : DC 3.7V From Battery
 M/N : Defunc TRUE LITE
 Test Mode : TX Mode
 R

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	19.00	0.70	0.83	20.53	40.00	19.47	QP
2	135.73	12.10	1.66	0.13	13.89	43.50	29.61	QP
3	291.90	13.60	2.58	0.81	16.99	46.00	29.01	QP
4	453.89	18.28	3.25	0.70	22.23	46.00	23.77	QP
5	534.40	19.37	3.56	2.34	25.27	46.00	20.73	QP
6	695.42	22.30	4.18	1.57	28.05	46.00	17.95	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All channels had been pre-test, only the worst case was reported.



Radiated Emissions Above 1G

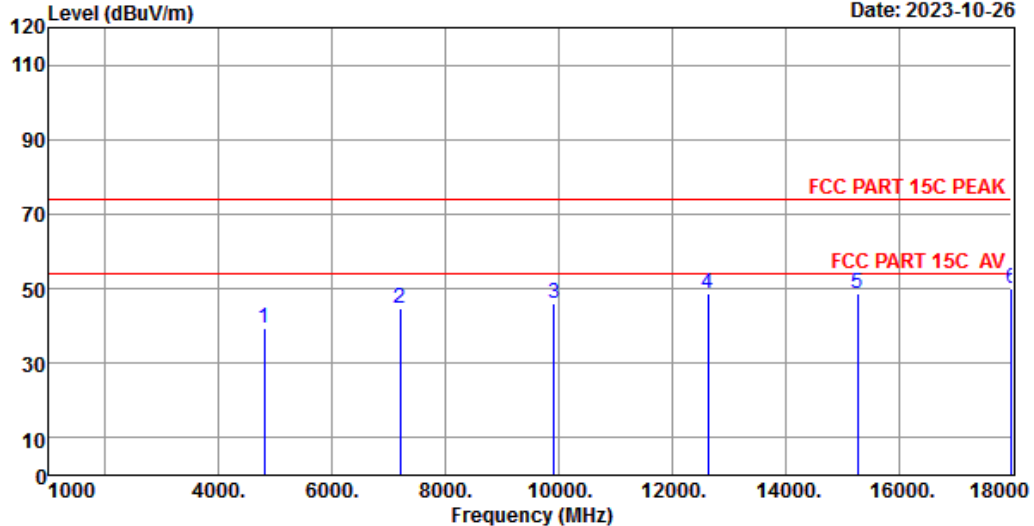
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Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 173

File: \\Emc-966-1\\test data\\2023\\RFIT\\Tou Pu Long\\Defunc TRUE LITE.EM6 (226)

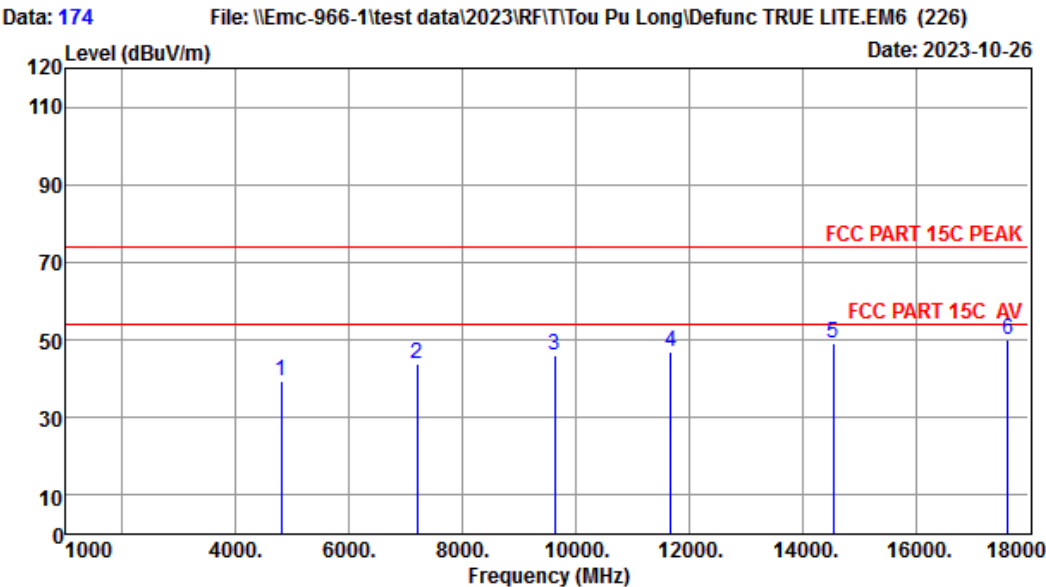
Date: 2023-10-26



Site no. : 1# 966 Chamber Data no. : 173
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:21.5°C;Humi:50%;Press:101.52kPa
 Engineer : JBR
 EUT : Bluetooth Headset
 Power : DC 3.7V From Battery
 M/N : Defunc TRUE LITE
 Test Mode : GFSK 1Mbps TX 2402MHz
 L

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.00	32.39	5.20	44.49	46.44	39.54	74.00	34.46	Peak
2	7206.00	36.16	6.67	44.08	45.96	44.71	74.00	29.29	Peak
3	9925.00	38.19	7.77	43.77	43.84	46.03	74.00	27.97	Peak
4	12628.00	39.37	9.10	41.32	41.55	48.70	74.00	25.30	Peak
5	15280.00	39.02	10.36	43.52	42.74	48.60	74.00	25.40	Peak
6	18000.00	41.60	12.45	42.70	38.48	49.83	74.00	24.17	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 174
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:21.5℃;Humi:50%;Press:101.52kPa
Engineer : JBR
EUT : Bluetooth Headset
Power : DC 3.7V From Battery
M/N : Defunc TRUE LITE
Test Mode : GFSK 1Mbps TX 2402MHz
L

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.00	32.39	5.20	44.49	46.49	39.59	74.00	34.41	Peak
2	7206.00	36.16	6.67	44.08	45.24	43.99	74.00	30.01	Peak
3	9636.00	38.13	7.77	43.66	43.99	46.23	74.00	27.77	Peak
4	11676.00	38.83	8.65	42.46	41.93	46.95	74.00	27.05	Peak
5	14549.00	39.73	10.03	42.16	41.42	49.02	74.00	24.98	Peak
6	17626.00	40.37	12.12	43.26	40.84	50.07	74.00	23.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

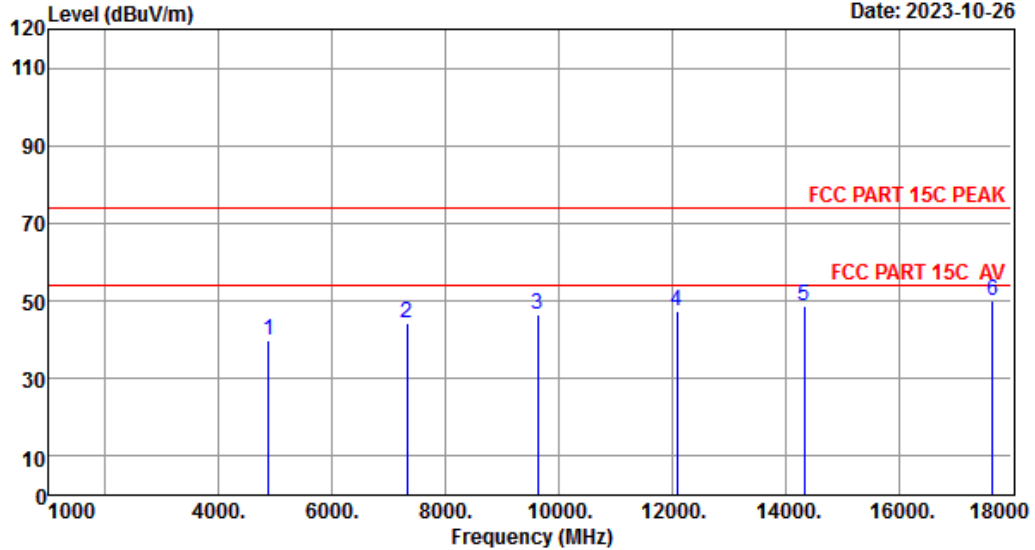
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 177

File: \\Emc-966-1\\test data\\2023\\RF\\T\\Tou Pu Long\\Defunc TRUE LITE.EM6 (226)

Date: 2023-10-26



Site no. : 1# 966 Chamber Data no. : 177
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:21.5℃;Humi:50%;Press:101.52kPa
 Engineer : JBR
 EUT : Bluetooth Headset
 Power : DC 3.7V From Battery
 M/N : Defunc TRUE LITE
 Test Mode : GFSK 1Mbps TX 2440MHz
 L

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4880.00	32.55	5.28	44.42	46.65	40.06	74.00	33.94	Peak
2	7320.00	36.26	6.70	44.07	45.47	44.36	74.00	29.64	Peak
3	9636.00	38.13	7.77	43.66	44.11	46.35	74.00	27.65	Peak
4	12084.00	38.88	8.87	42.08	41.70	47.37	74.00	26.63	Peak
5	14328.00	39.84	9.92	41.61	40.53	48.68	74.00	25.32	Peak
6	17660.00	40.48	12.15	43.21	40.59	50.01	74.00	23.99	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

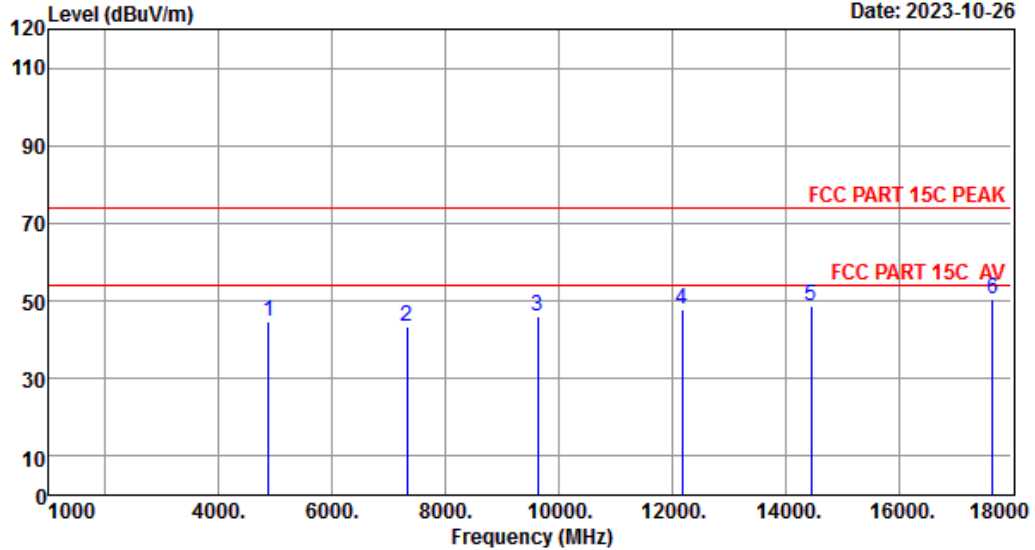
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 178

File: \\Emc-966-1\\test data\\2023\\RF\\T\\Tou Pu Long\\Defunc TRUE LITE.EM6 (226)

Date: 2023-10-26



Site no. : 1# 966 Chamber Data no. : 178
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:21.5°C;Humi:50%;Press:101.52kPa
 Engineer : JBR
 EUT : Bluetooth Headset
 Power : DC 3.7V From Battery
 M/N : Defunc TRUE LITE
 Test Mode : GFSK 1Mbps TX 2440MHz
 L

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4880.00	32.55	5.28	44.42	51.31	44.72	74.00	29.28	Peak
2	7320.00	36.26	6.70	44.07	44.67	43.56	74.00	30.44	Peak
3	9636.00	38.13	7.77	43.66	43.95	46.19	74.00	27.81	Peak
4	12186.00	38.97	8.91	41.94	41.77	47.71	74.00	26.29	Peak
5	14464.00	39.77	9.99	41.94	40.97	48.79	74.00	25.21	Peak
6	17660.00	40.48	12.15	43.21	41.28	50.70	74.00	23.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

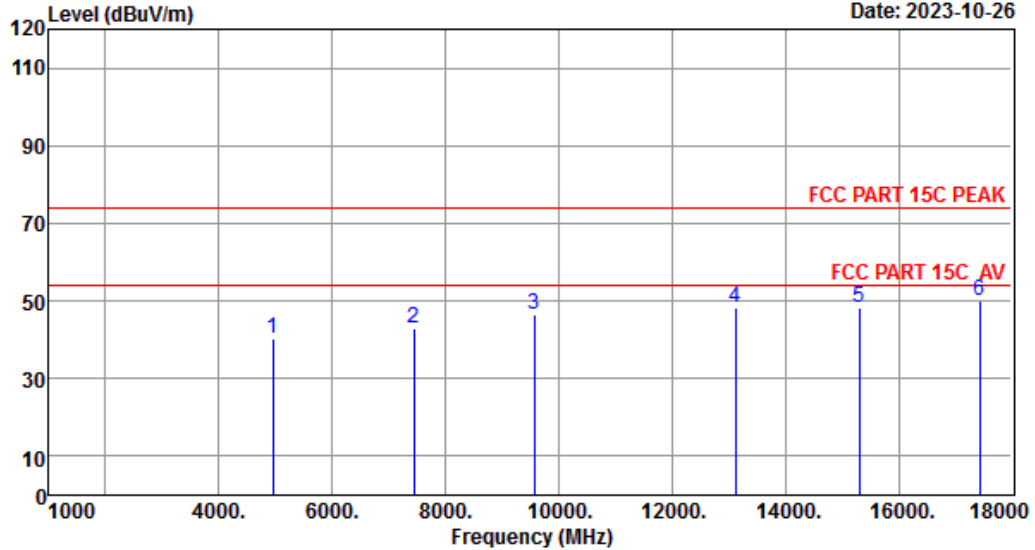
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 179

File: \\Emc-966-1\\test data\\2023\\RF\\T\\Tou Pu Long\\Defunc TRUE LITE.EM6 (226)

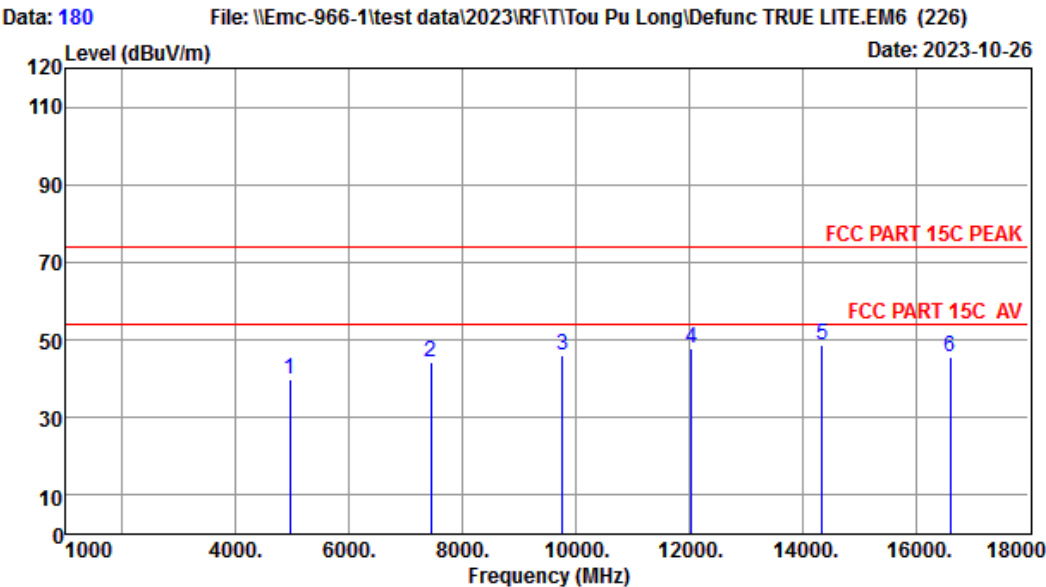
Date: 2023-10-26



Site no. : 1# 966 Chamber Data no. : 179
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:21.5℃;Humi:50%;Press:101.52kPa
 Engineer : JBR
 EUT : Bluetooth Headset
 Power : DC 3.7V From Battery
 M/N : Defunc TRUE LITE
 Test Mode : GFSK 1Mbps TX 2480MHz
 L

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	32.72	5.37	44.33	46.38	40.14	74.00	33.86	Peak
2	7440.00	36.35	6.74	44.06	44.04	43.07	74.00	30.93	Peak
3	9568.00	38.11	7.77	43.63	44.31	46.56	74.00	27.44	Peak
4	13121.00	39.74	9.32	40.80	39.83	48.09	74.00	25.91	Peak
5	15314.00	38.97	10.37	43.55	42.39	48.18	74.00	25.82	Peak
6	17439.00	39.75	11.96	43.54	41.76	49.93	74.00	24.07	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 180
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:21.5℃;Humi:50%;Press:101.52kPa
Engineer : JBR
EUT : Bluetooth Headset
Power : DC 3.7V From Battery
M/N : Defunc TRUE LITE
Test Mode : GFSK 1Mbps TX 2480MHz
L

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	32.72	5.37	44.33	45.99	39.75	74.00	34.25	Peak
2	7440.00	36.35	6.74	44.06	45.11	44.14	74.00	29.86	Peak
3	9772.00	38.15	7.77	43.71	43.84	46.05	74.00	27.95	Peak
4	12050.00	38.85	8.85	42.13	42.44	48.01	74.00	25.99	Peak
5	14345.00	39.83	9.93	41.65	40.60	48.71	74.00	25.29	Peak
6	16606.00	38.10	11.21	44.16	40.27	45.42	74.00	28.58	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

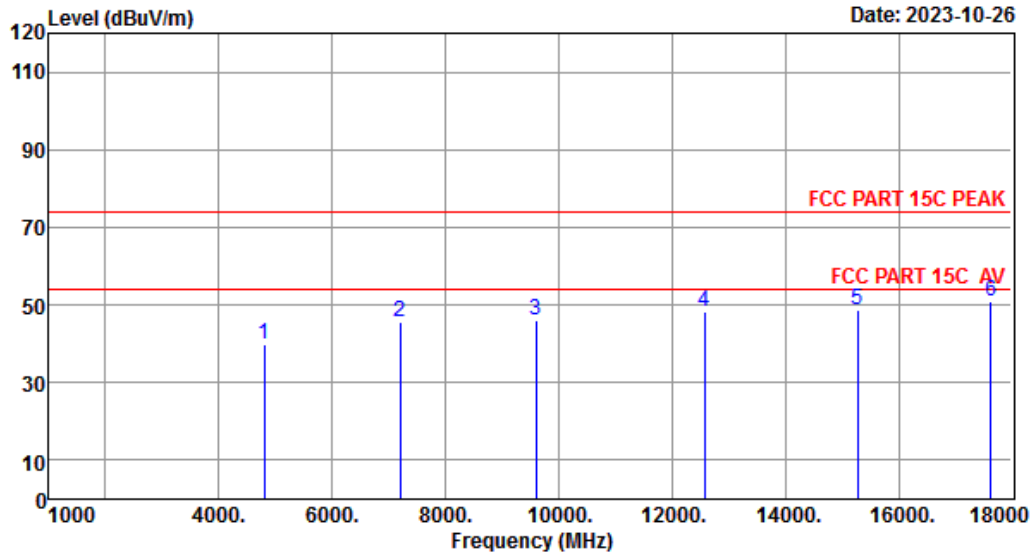
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 217

File: \\Emc-966-1\\test data\\2023\\RF\\T\\Tou Pu Long\\Defunc TRUE LITE.EM6 (226)

Date: 2023-10-26



Site no. : 1# 966 Chamber Data no. : 217
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:21.5°C;Humi:50%;Press:101.52kPa
 Engineer : JBR
 EUT : Bluetooth Headset
 Power : DC 3.7V From Battery
 M/N : Defunc TRUE LITE
 Test Mode : GFSK 1Mbps TX 2402MHz
 R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.00	32.39	5.20	44.49	46.58	39.68	74.00	34.32	Peak
2	7206.00	36.16	6.67	44.08	46.97	45.72	74.00	28.28	Peak
3	9602.00	38.12	7.77	43.64	43.75	46.00	74.00	28.00	Peak
4	12577.00	39.32	9.08	41.39	41.13	48.14	74.00	25.86	Peak
5	15280.00	39.02	10.36	43.52	42.74	48.60	74.00	25.40	Peak
6	17626.00	40.37	12.12	43.26	41.58	50.81	74.00	23.19	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

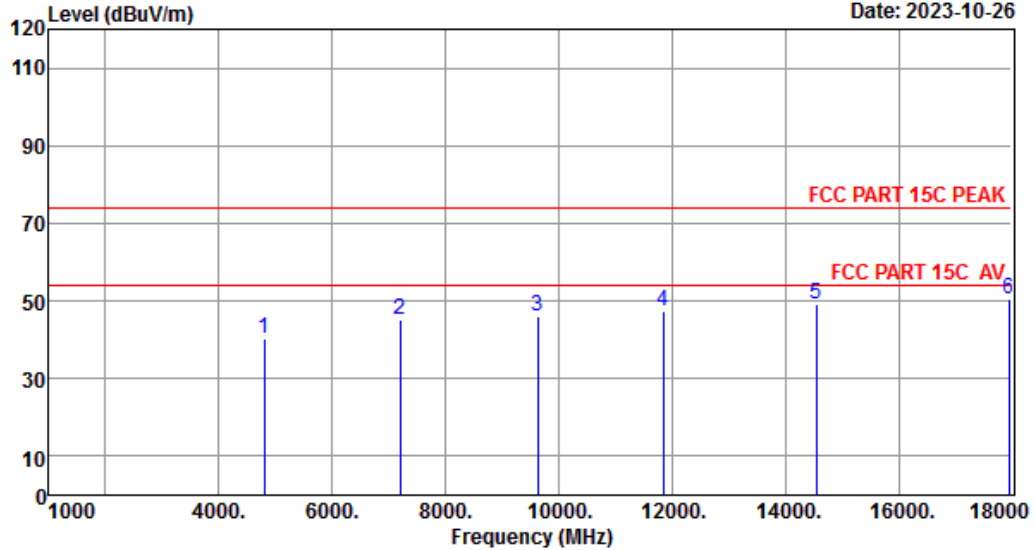
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 218

File: \\Emc-966-1\\test data\\2023\\RF\\T\\Tou Pu Long\\Defunc TRUE LITE.EM6 (226)

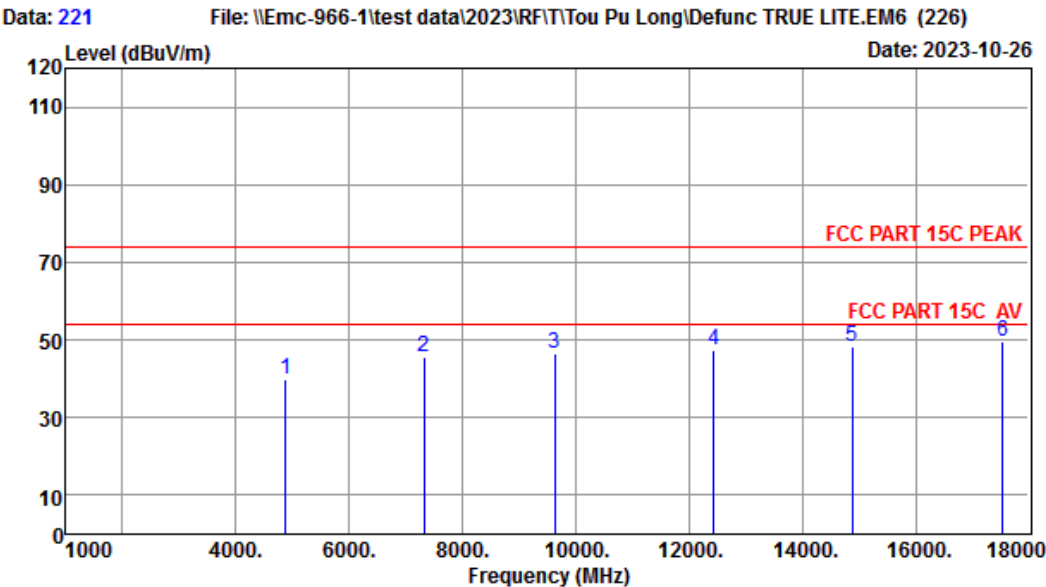
Date: 2023-10-26



Site no. : 1# 966 Chamber Data no. : 218
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:21.5°C;Humi:50%;Press:101.52kPa
 Engineer : JBR
 EUT : Bluetooth Headset
 Power : DC 3.7V From Battery
 M/N : Defunc TRUE LITE
 Test Mode : GFSK 1Mbps TX 2402MHz
 R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.00	32.39	5.20	44.49	46.98	40.08	74.00	33.92	Peak
2	7206.00	36.16	6.67	44.08	46.28	45.03	74.00	28.97	Peak
3	9636.00	38.13	7.77	43.66	43.99	46.23	74.00	27.77	Peak
4	11846.00	38.82	8.74	42.32	41.93	47.17	74.00	26.83	Peak
5	14549.00	39.73	10.03	42.16	41.42	49.02	74.00	24.98	Peak
6	17949.00	41.43	12.41	42.78	39.22	50.28	74.00	23.72	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 221
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:21.5℃;Humi:50%;Press:101.52kPa
Engineer : JBR
EUT : Bluetooth Headset
Power : DC 3.7V From Battery
M/N : Defunc TRUE LITE
Test Mode : GFSK 1Mbps TX 2440MHz
R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4880.00	32.55	5.28	44.42	46.58	39.99	74.00	34.01	Peak
2	7320.00	36.26	6.70	44.07	46.90	45.79	74.00	28.21	Peak
3	9636.00	38.13	7.77	43.66	44.11	46.35	74.00	27.65	Peak
4	12441.00	39.20	9.02	41.58	40.94	47.58	74.00	26.42	Peak
5	14889.00	39.56	10.19	43.00	41.52	48.27	74.00	25.73	Peak
6	17541.00	40.09	12.05	43.39	40.80	49.55	74.00	24.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

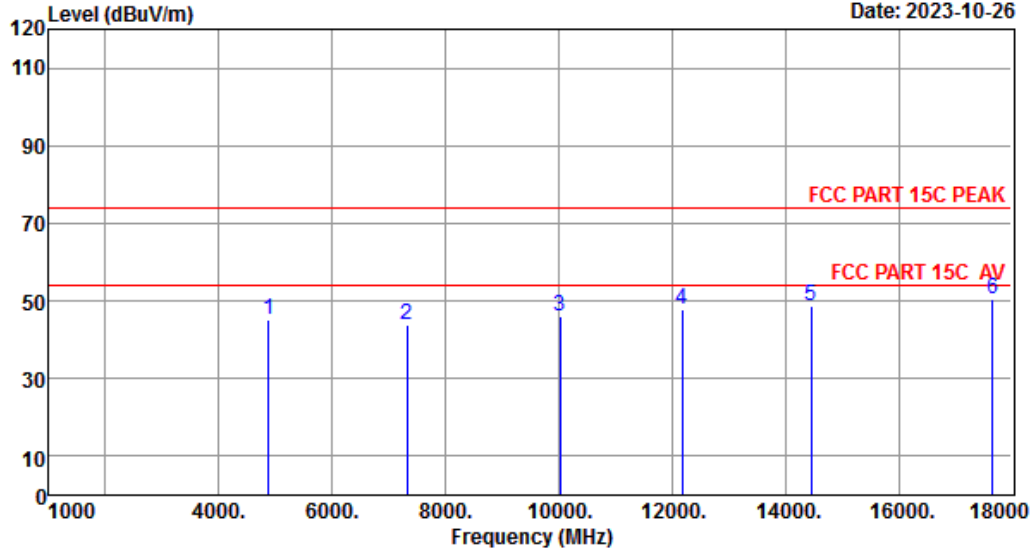
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 222

File: \\Emc-966-1\\test data\\2023\\RF\\T\\Tou Pu Long\\Defunc TRUE LITE.EM6 (226)

Date: 2023-10-26



Site no. : 1# 966 Chamber Data no. : 222
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:21.5°C;Humi:50%;Press:101.52kPa
 Engineer : JBR
 EUT : Bluetooth Headset
 Power : DC 3.7V From Battery
 M/N : Defunc TRUE LITE
 Test Mode : GFSK 1Mbps TX 2440MHz
 R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4880.00	32.55	5.28	44.42	51.69	45.10	74.00	28.90	Peak
2	7320.00	36.26	6.70	44.07	44.98	43.87	74.00	30.13	Peak
3	10027.00	38.22	7.79	43.77	44.03	46.27	74.00	27.73	Peak
4	12186.00	38.97	8.91	41.94	41.77	47.71	74.00	26.29	Peak
5	14464.00	39.77	9.99	41.94	40.97	48.79	74.00	25.21	Peak
6	17660.00	40.48	12.15	43.21	41.28	50.70	74.00	23.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

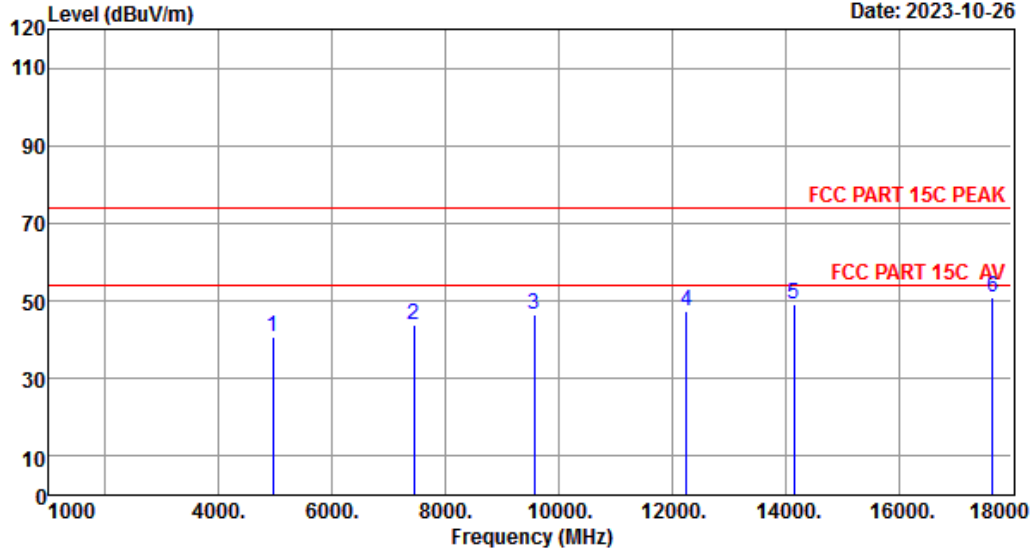
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 223

File: \\Emc-966-1\\test data\\2023\\RF\\T\\Tou Pu Long\\Defunc TRUE LITE.EM6 (226)

Date: 2023-10-26



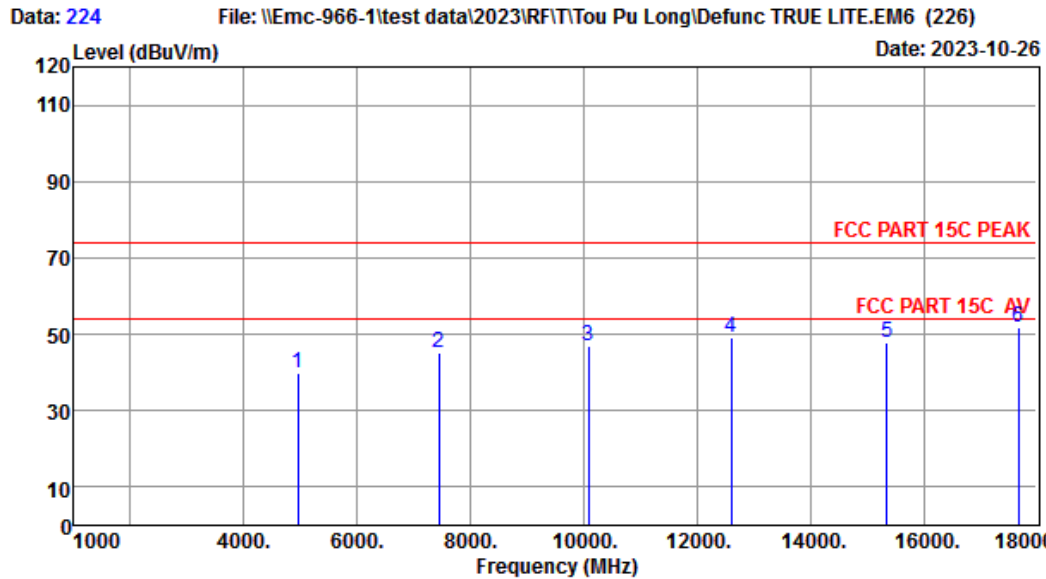
Site no. : 1# 966 Chamber Data no. : 223
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:21.5°C;Humi:50%;Press:101.52kPa
 Engineer : JBR
 EUT : Bluetooth Headset
 Power : DC 3.7V From Battery
 M/N : Defunc TRUE LITE
 Test Mode : GFSK 1Mbps TX 2480MHz
 R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	32.72	5.37	44.33	46.97	40.73	74.00	33.27	Peak
2	7440.00	36.35	6.74	44.06	44.66	43.69	74.00	30.31	Peak
3	9568.00	38.11	7.77	43.63	44.31	46.56	74.00	27.44	Peak
4	12254.00	39.03	8.94	41.84	41.24	47.37	74.00	26.63	Peak
5	14158.00	39.92	9.84	41.18	40.65	49.23	74.00	24.77	Peak
6	17660.00	40.48	12.15	43.21	41.55	50.97	74.00	23.03	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878



Site no. : 1# 966 Chamber Data no. : 224
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:21.5°C;Humi:50%;Press:101.52kPa
Engineer : JBR
EUT : Bluetooth Headset
Power : DC 3.7V From Battery
M/N : Defunc TRUE LITE
Test Mode : GFSK 1Mbps TX 2480MHz
R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	32.72	5.37	44.33	45.94	39.70	74.00	34.30	Peak
2	7440.00	36.35	6.74	44.06	45.98	45.01	74.00	28.99	Peak
3	10078.00	38.25	7.81	43.73	44.55	46.88	74.00	27.12	Peak
4	12611.00	39.35	9.09	41.35	41.96	49.05	74.00	24.95	Peak
5	15348.00	38.91	10.38	43.58	42.09	47.80	74.00	26.20	Peak
6	17677.00	40.53	12.17	43.18	42.21	51.73	74.00	22.27	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note: The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

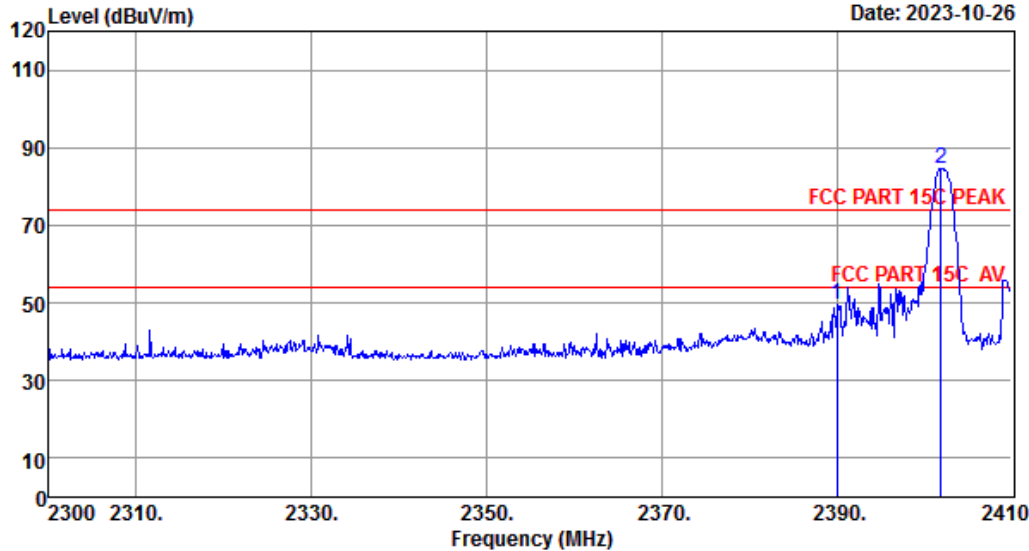


Radiated Band Edge

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 175 File: \\Emc-966-1\\test data\\2023\\RF\\T\\Tou Pu Long\\Defunc TRUE LITE.EM6 (226) Date: 2023-10-26



Site no. : 1# 966 Chamber Data no. : 175
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:21.5°C;Humi:50%;Press:101.52kPa
Engineer : JBR
EUT : Bluetooth Headset
Power : DC 3.7V From Battery
M/N : Defunc TRUE LITE
Test Mode : GFSK 1Mbps TX 2402MHz
L

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.43	3.55	45.01	63.46	49.43	74.00	24.57	Peak
2	2401.86	27.47	3.55	45.01	98.50	84.51	74.00	-10.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

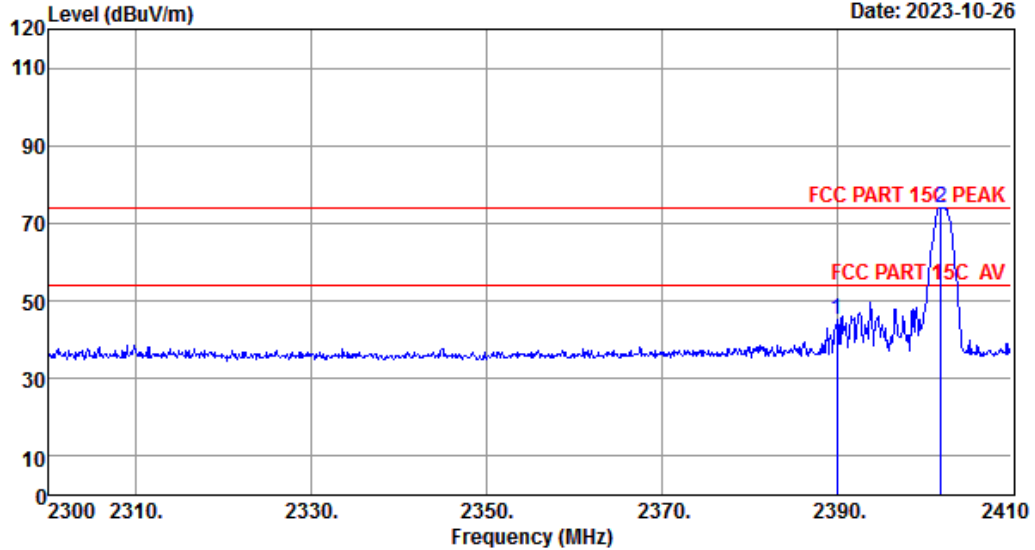
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 176

File: \\Emc-966-1\\test data\\2023\\RF\\T\\Tou Pu Long\\Defunc TRUE LITE.EM6 (226)

Date: 2023-10-26



Site no. : 1# 966 Chamber Data no. : 176
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:21.5°C;Humi:50%;Press:101.52kPa
 Engineer : JBR
 EUT : Bluetooth Headset
 Power : DC 3.7V From Battery
 M/N : Defunc TRUE LITE
 Test Mode : GFSK 1Mbps TX 2402MHz
 L

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.43	3.55	45.01	59.33	45.30	74.00	28.70	Peak
2	2401.86	27.47	3.55	45.01	88.10	74.11	74.00	-0.11	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

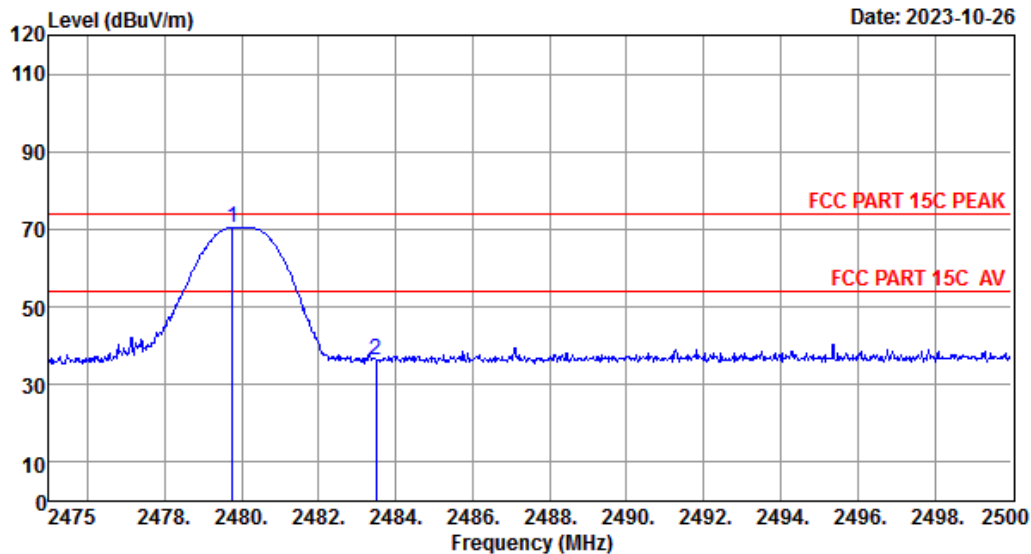
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 181

File: \\Emc-966-1\\test data\\2023\\RF\\T\\Tou Pu Long\\Defunc TRUE LITE.EM6 (226)

Date: 2023-10-26



Site no. : 1# 966 Chamber Data no. : 181
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:21.5°C;Humi:50%;Press:101.52kPa
 Engineer : JBR
 EUT : Bluetooth Headset
 Power : DC 3.7V From Battery
 M/N : Defunc TRUE LITE
 Test Mode : GFSK 1Mbps TX 2480MHz
 L

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.78	27.69	3.62	44.93	84.08	70.46	74.00	3.54	Peak
2	2483.50	27.70	3.62	44.93	49.95	36.34	74.00	37.66	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

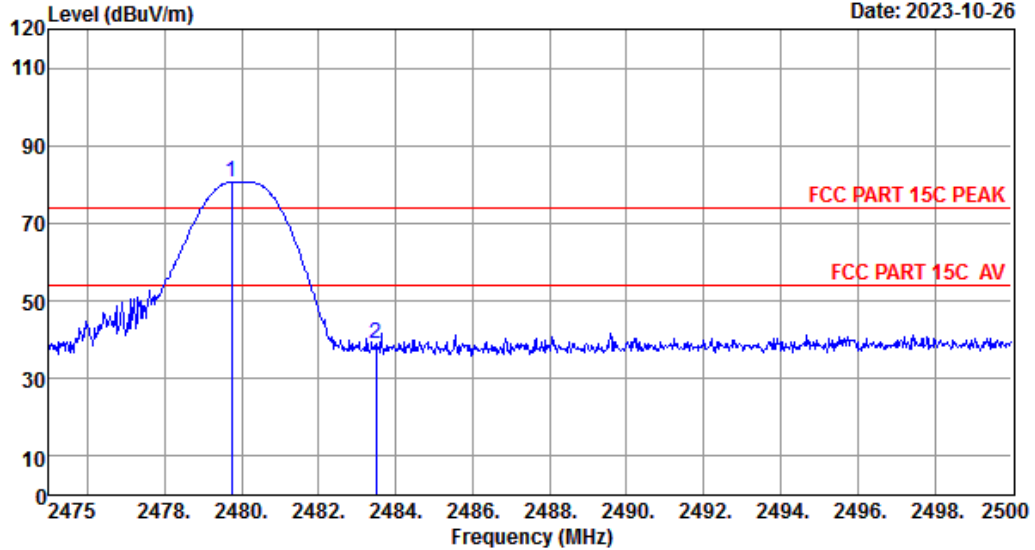
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 182

File: \\Emc-966-1\\test data\\2023\\RF\\T\\Tou Pu Long\\Defunc TRUE LITE.EM6 (226)

Date: 2023-10-26

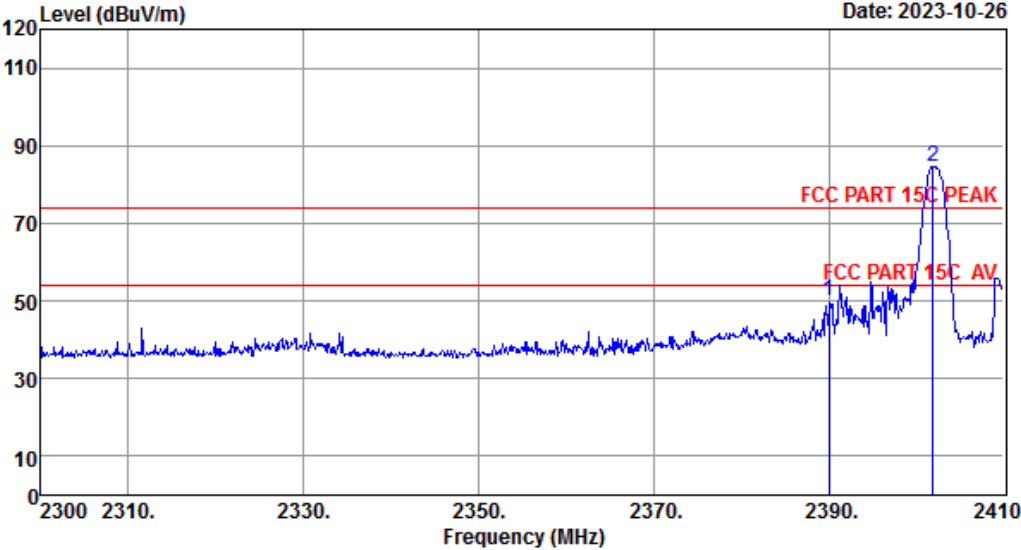


Site no. : 1# 966 Chamber Data no. : 182
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:21.5°C;Humi:50%;Press:101.52kPa
 Engineer : JBR
 EUT : Bluetooth Headset
 Power : DC 3.7V From Battery
 M/N : Defunc TRUE LITE
 Test Mode : GFSK 1Mbps TX 2480MHz
 L

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.75	27.69	3.62	44.93	94.27	80.65	74.00	-6.65	Peak
2	2483.50	27.70	3.62	44.93	52.56	38.95	74.00	35.05	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 219 File: \\Emc-966-1\\test data\\2023\\RF\\T\\Tou Pu Long\\Defunc TRUE LITE.EM6 (226)
Date: 2023-10-26



Site no. : 1# 966 Chamber Data no. : 219
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:21.5℃;Humi:50%;Press:101.52kPa
Engineer : JBR
EUT : Bluetooth Headset
Power : DC 3.7V From Battery
M/N : Defunc TRUE LITE
Test Mode : GFSK 1Mbps TX 2402MHz
R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.43	3.55	45.01	64.25	50.22	74.00	23.78	Peak
2	2401.86	27.47	3.55	45.01	98.69	84.70	74.00	-10.70	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.

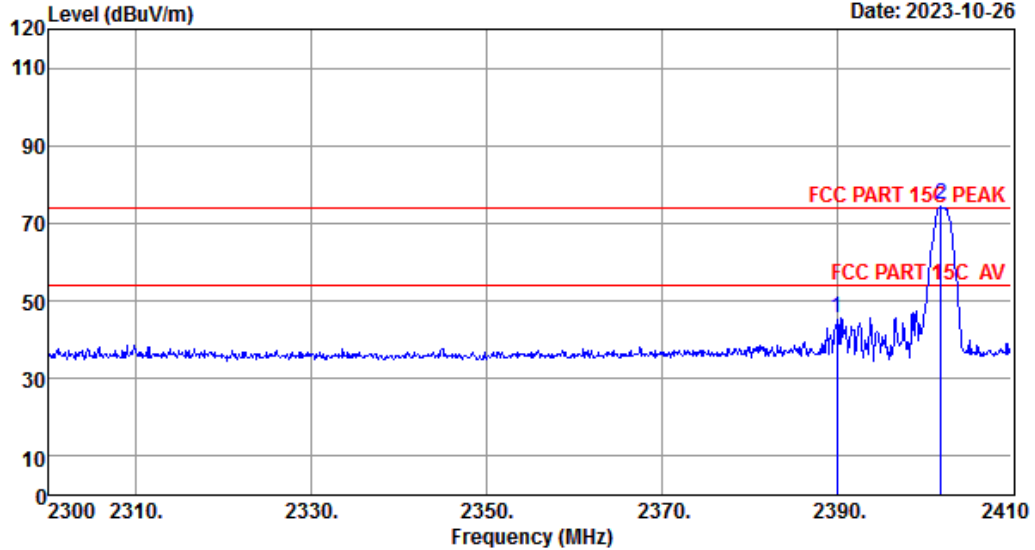
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 220

File: \\Emc-966-1\\test data\\2023\\RF\\T\\Tou Pu Long\\Defunc TRUE LITE.EM6 (226)

Date: 2023-10-26



Site no. : 1# 966 Chamber Data no. : 220
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:21.5°C;Humi:50%;Press:101.52kPa
 Engineer : JBR
 EUT : Bluetooth Headset
 Power : DC 3.7V From Battery
 M/N : Defunc TRUE LITE
 Test Mode : GFSK 1Mbps TX 2402MHz
 R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.43	3.55	45.01	59.68	45.65	74.00	28.35	Peak
2	2401.86	27.47	3.55	45.01	88.61	74.62	74.00	-0.62	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

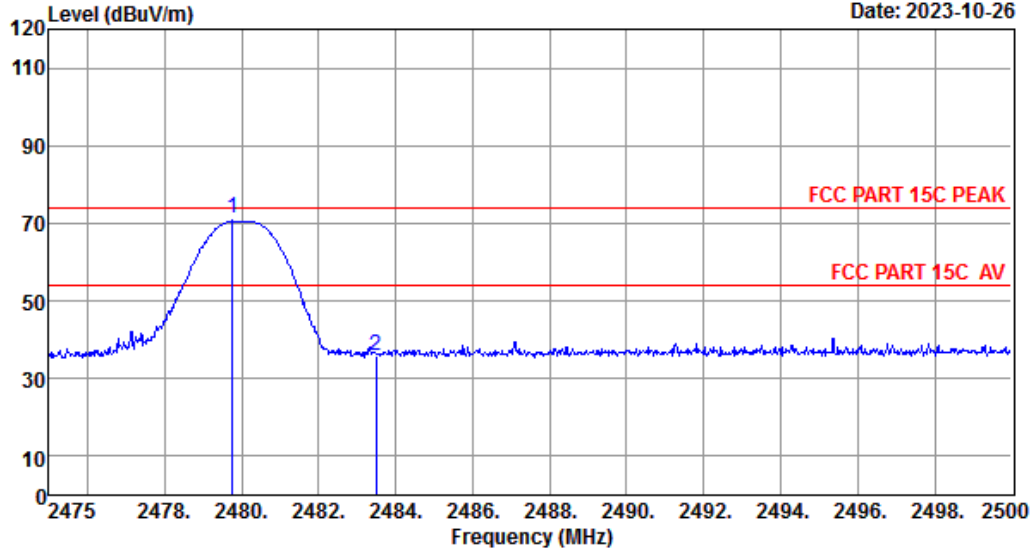
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 225

File: \\Emc-966-1\\test data\\2023\\RF\\T\\Tou Pu Long\\Defunc TRUE LITE.EM6 (226)

Date: 2023-10-26



Site no. : 1# 966 Chamber Data no. : 225
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:21.5°C;Humi:50%;Press:101.52kPa
 Engineer : JBR
 EUT : Bluetooth Headset
 Power : DC 3.7V From Battery
 M/N : Defunc TRUE LITE
 Test Mode : GFSK 1Mbps TX 2480MHz
 R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.78	27.69	3.62	44.93	84.69	71.07	74.00	2.93	Peak
2	2483.50	27.70	3.62	44.93	49.58	35.97	74.00	38.03	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

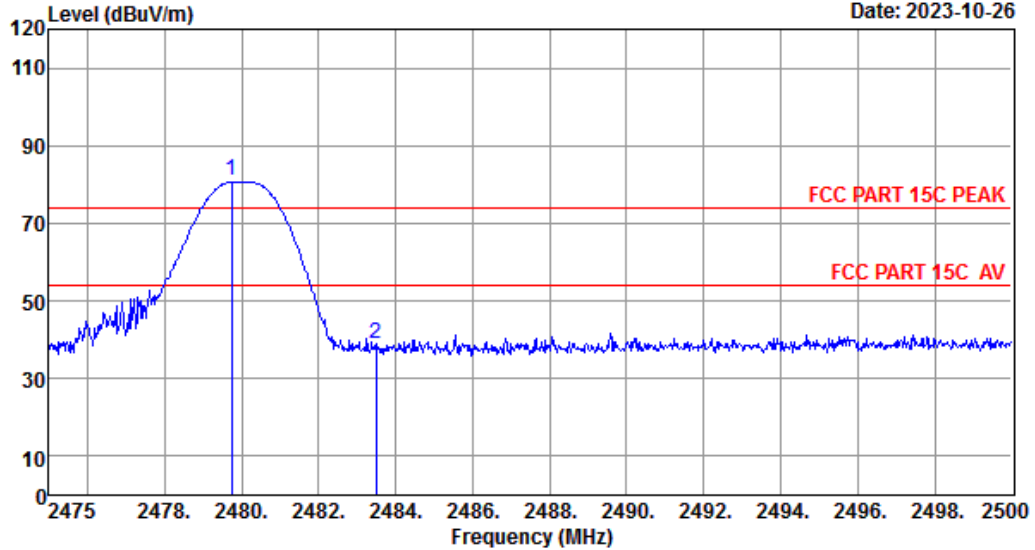
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 226

File: \\Emc-966-1\\test data\\2023\\RFIT\\Tou Pu Long\\Defunc TRUE LITE.EM6 (226)

Date: 2023-10-26



Site no. : 1# 966 Chamber Data no. : 226
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:21.5°C;Humi:50%;Press:101.52kPa
 Engineer : JBR
 EUT : Bluetooth Headset
 Power : DC 3.7V From Battery
 M/N : Defunc TRUE LITE
 Test Mode : GFSK 1Mbps TX 2480MHz
 R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.75	27.69	3.62	44.93	94.58	80.96	74.00	-6.96	Peak
2	2483.50	27.70	3.62	44.93	52.69	39.08	74.00	34.92	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Note: All channels had been pre-test, only of the worst case channels were reported.

9. AC POWER LINE CONDUCTED EMISSIONS

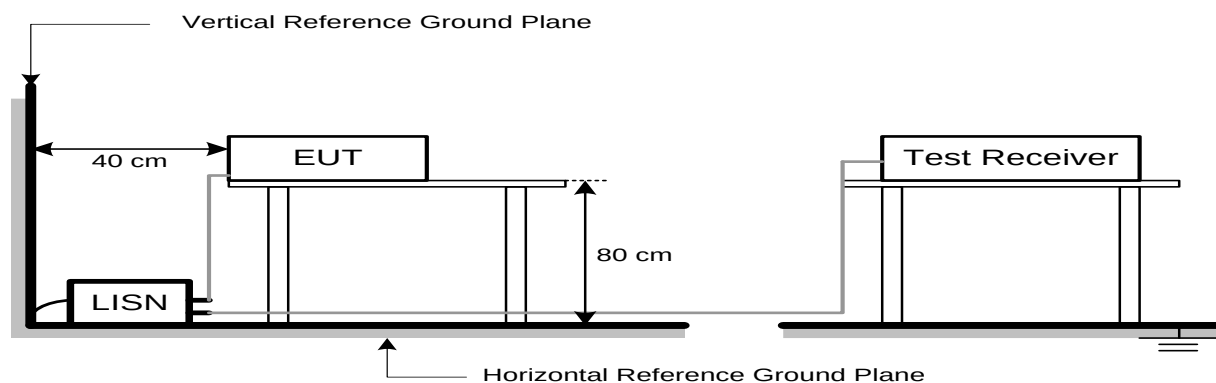
9.1. Limit

Frequency			Maximum RF Line Voltage	
			Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz	~	500kHz	66 ~ 56*	56 ~ 46*
500kHz	~	5MHz	56	46
5MHz	~	30MHz	60	50

Note:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

9.2. Test Setup



9.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

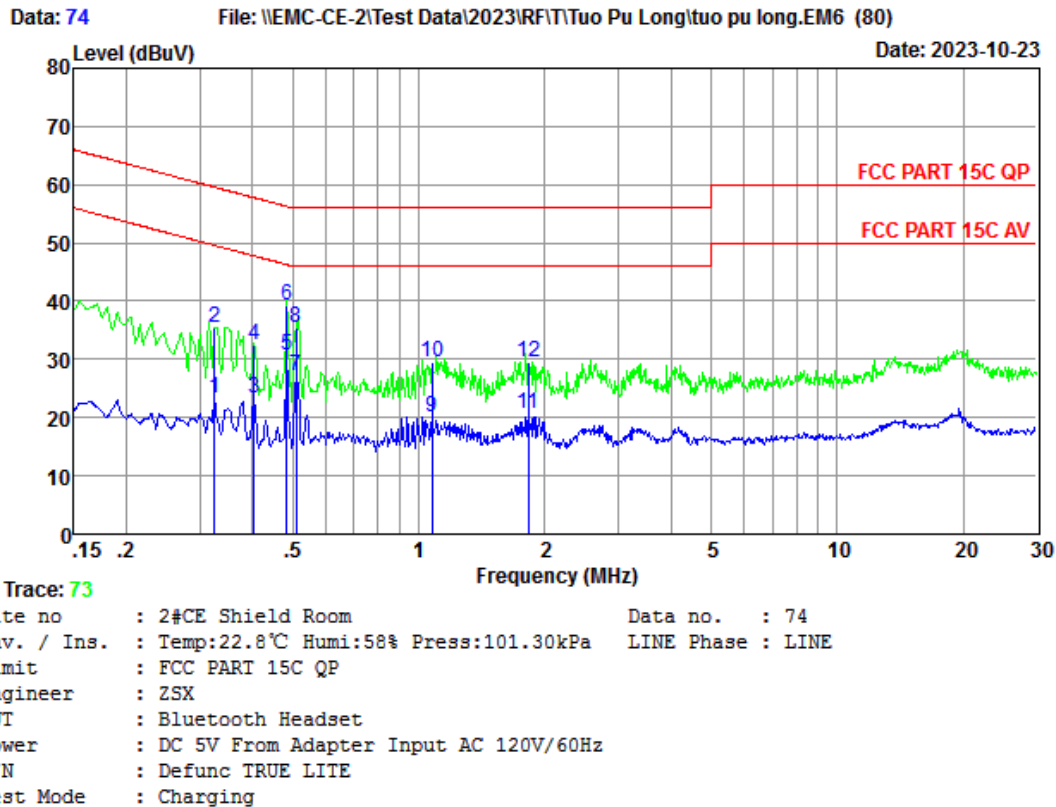
9.4. Test Procedure

- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 9.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

9.5. Test Result

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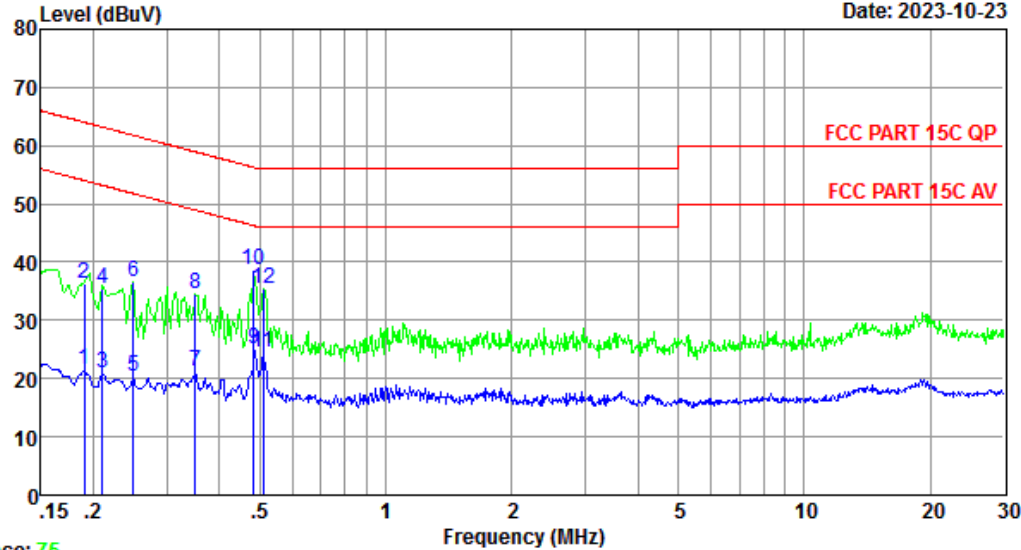
Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878



	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.33	10.13	9.88	3.33	23.34	49.57	26.23	Average
2	0.33	10.13	9.88	15.37	35.38	59.57	24.19	QP
3	0.40	10.10	9.90	3.33	23.33	47.77	24.44	Average
4	0.40	10.10	9.90	12.55	32.55	57.77	25.22	QP
5	0.48	10.08	9.94	10.63	30.65	46.27	15.62	Average
6	0.48	10.08	9.94	19.36	39.38	56.27	16.89	QP
7	0.51	10.07	9.95	7.23	27.25	46.00	18.75	Average
8	0.51	10.07	9.95	15.26	35.28	56.00	20.72	QP
9	1.08	9.97	10.05	0.09	20.11	46.00	25.89	Average
10	1.08	9.97	10.05	9.36	29.38	56.00	26.62	QP
11	1.83	9.98	10.01	0.74	20.73	46.00	25.27	Average
12	1.83	9.98	10.01	9.56	29.55	56.00	26.45	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Data: 76 File: \\EMC-CE-2\Test Data\2023\RF\T\Tuo Pu Long\tuo pu long.EM6 (80) Date: 2023-10-23



Trace: 75
Site no : 2#CE Shield Room Data no. : 76
Env. / Ins. : Temp:22.8℃ Humi:58% Press:101.30kPa LINE Phase : NEUTRAL
Limit : FCC PART 15C QP
Engineer : ZSX
EUT : Bluetooth Headset
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : Defunc TRUE LITE
Test Mode : Charging

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19	10.14	9.93	1.54	21.61	54.02	32.41	Average
2	0.19	10.14	9.93	16.38	36.45	64.02	27.57	QP
3	0.21	10.15	9.94	0.98	21.07	53.18	32.11	Average
4	0.21	10.15	9.94	15.36	35.45	63.18	27.73	QP
5	0.25	10.16	9.95	0.17	20.28	51.78	31.50	Average
6	0.25	10.16	9.95	16.58	36.69	61.78	25.09	QP
7	0.35	10.13	9.88	1.32	21.33	48.96	27.63	Average
8	0.35	10.13	9.88	14.66	34.67	58.96	24.29	QP
9	0.48	9.98	9.94	5.18	25.10	46.27	21.17	Average
10	0.48	9.98	9.94	18.64	38.56	56.27	17.71	QP
11	0.51	9.99	9.95	4.62	24.56	46.00	21.44	Average
12	0.51	9.99	9.95	15.35	35.29	56.00	20.71	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

10. ANTENNA REQUIREMENTS

10.1. Limit

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 use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

10.2. Test Result

The antennas used for this product is internal antenna, so compliance with antenna requirements. (Please refer to the EUT photo for details)

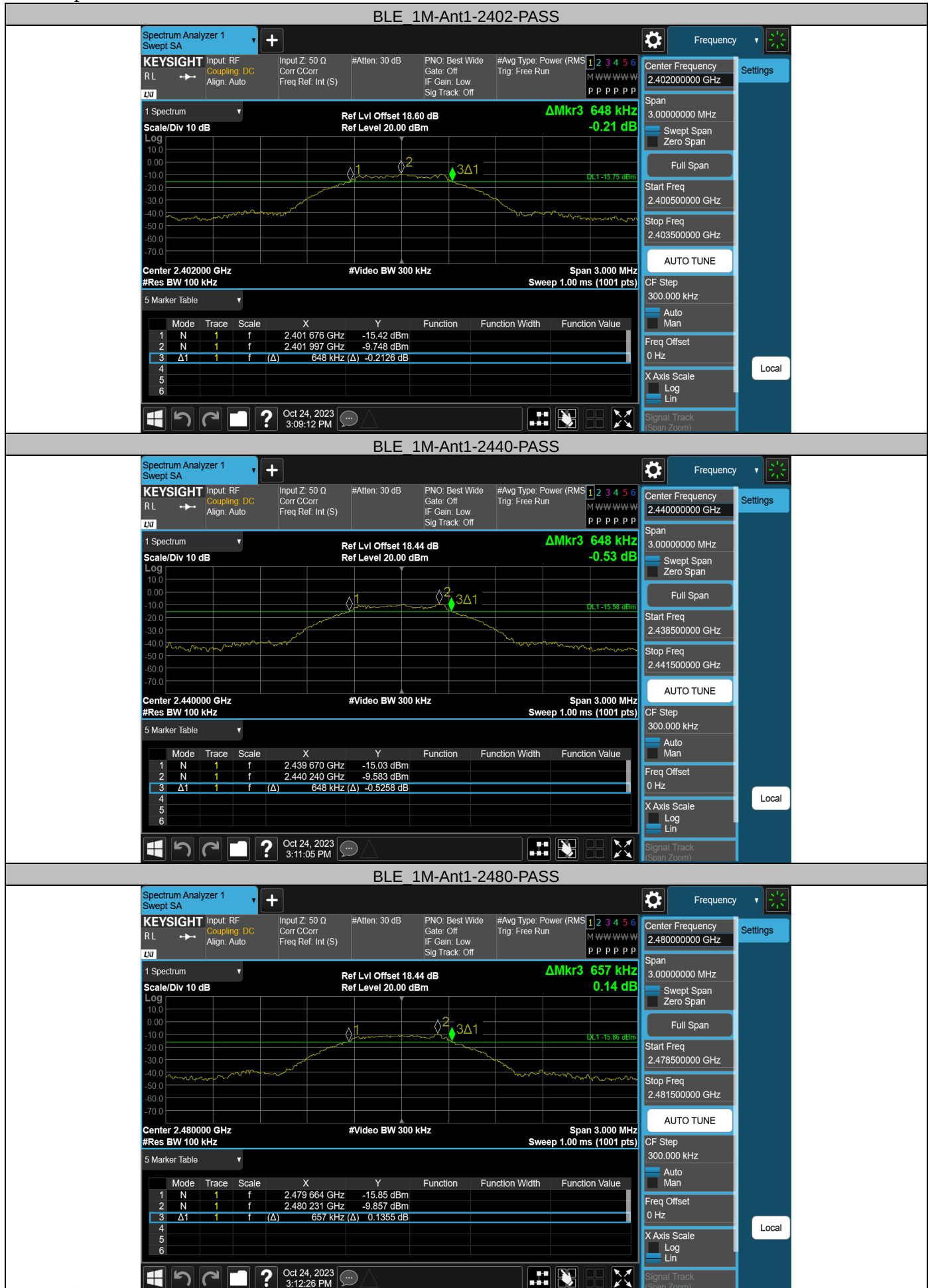
11.APPENDIX

Appendix A: DTS Bandwidth

Left earbud
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.648	2401.676	2402.324	0.5	PASS
BLE_1M	Ant1	2440	0.648	2439.670	2440.318	0.5	PASS
BLE_1M	Ant1	2480	0.657	2479.664	2480.321	0.5	PASS
BLE_2M	Ant1	2402	1.206	2401.358	2402.564	0.5	PASS
BLE_2M	Ant1	2440	1.152	2439.430	2440.582	0.5	PASS
BLE_2M	Ant1	2480	1.068	2479.484	2480.552	0.5	PASS

Test Graphs



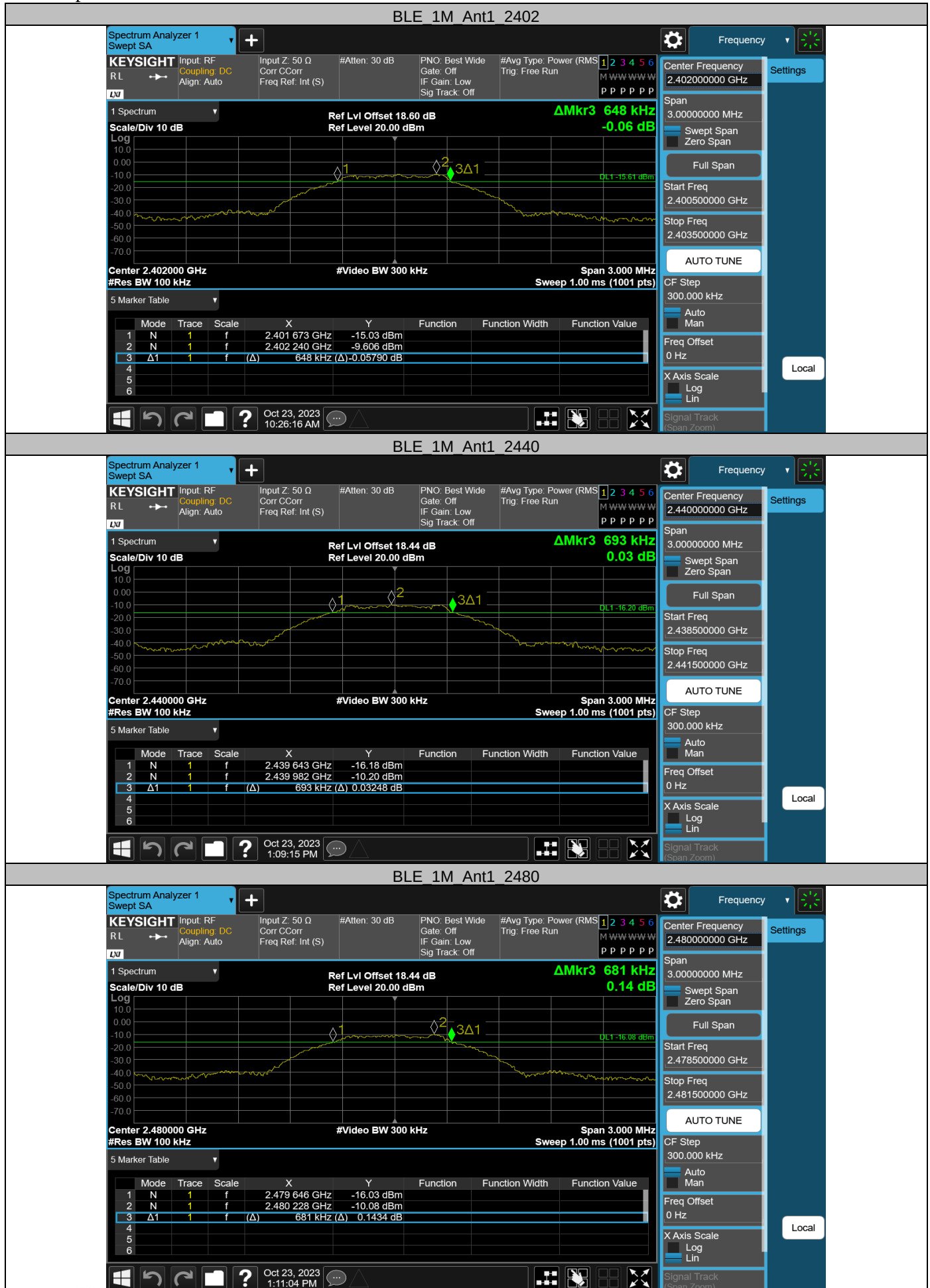


Right earbud

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.648	2401.673	2402.321	0.5	PASS
		2440	0.693	2439.643	2440.336	0.5	PASS
		2480	0.681	2479.646	2480.327	0.5	PASS
BLE_2M	Ant1	2402	1.002	2401.502	2402.504	0.5	PASS
		2440	1.302	2439.334	2440.636	0.5	PASS
		2480	1.146	2479.430	2480.576	0.5	PASS

Test Graphs





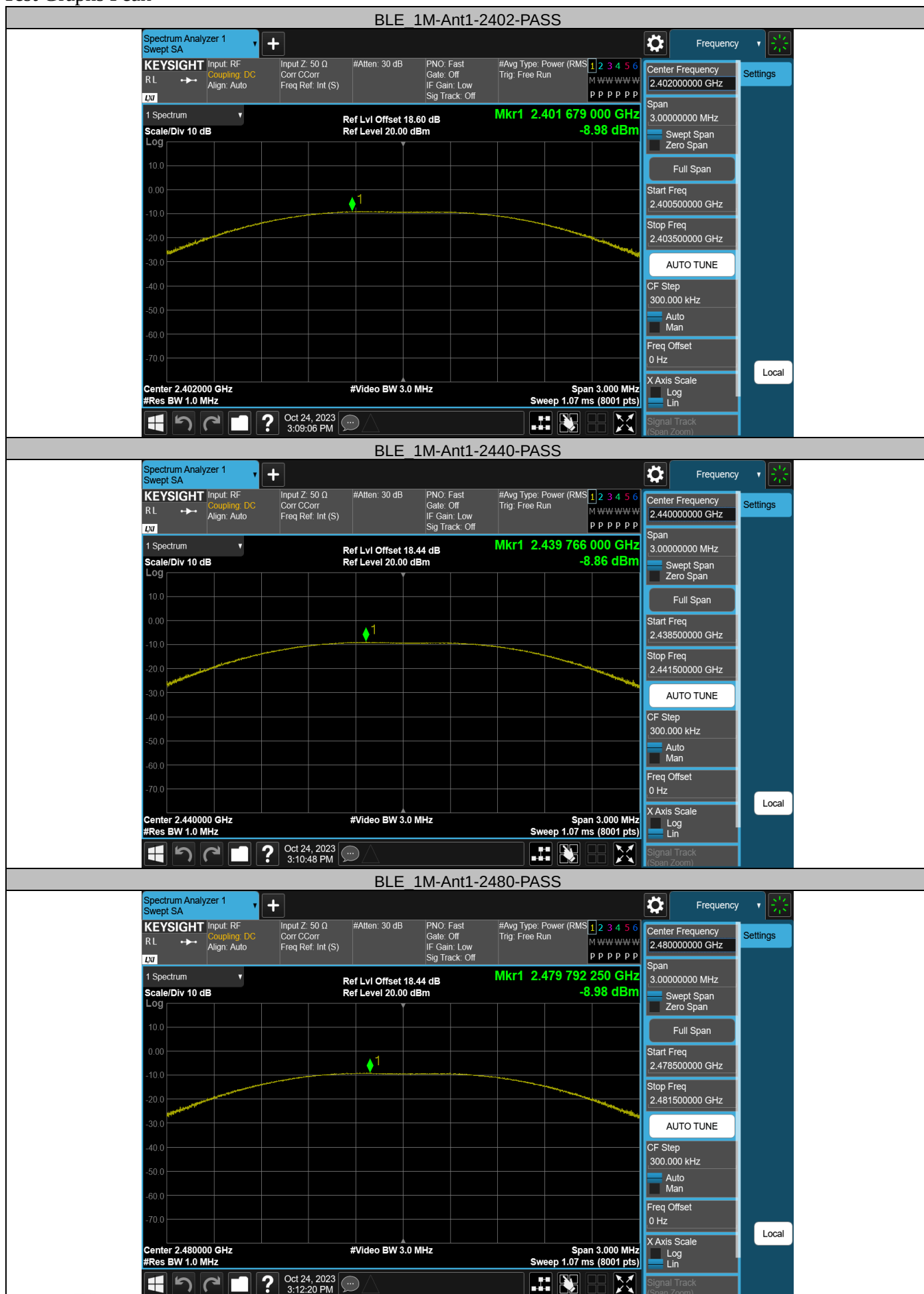
Appendix C: Maximum conducted output power

Left earbud

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-8.98	≤30	PASS
BLE_1M	Ant1	2440	-8.86	≤30	PASS
BLE_1M	Ant1	2480	-8.98	≤30	PASS
BLE_2M	Ant1	2402	-8.46	≤30	PASS
BLE_2M	Ant1	2440	-8.28	≤30	PASS
BLE_2M	Ant1	2480	-8.26	≤30	PASS

Test Graphs Peak



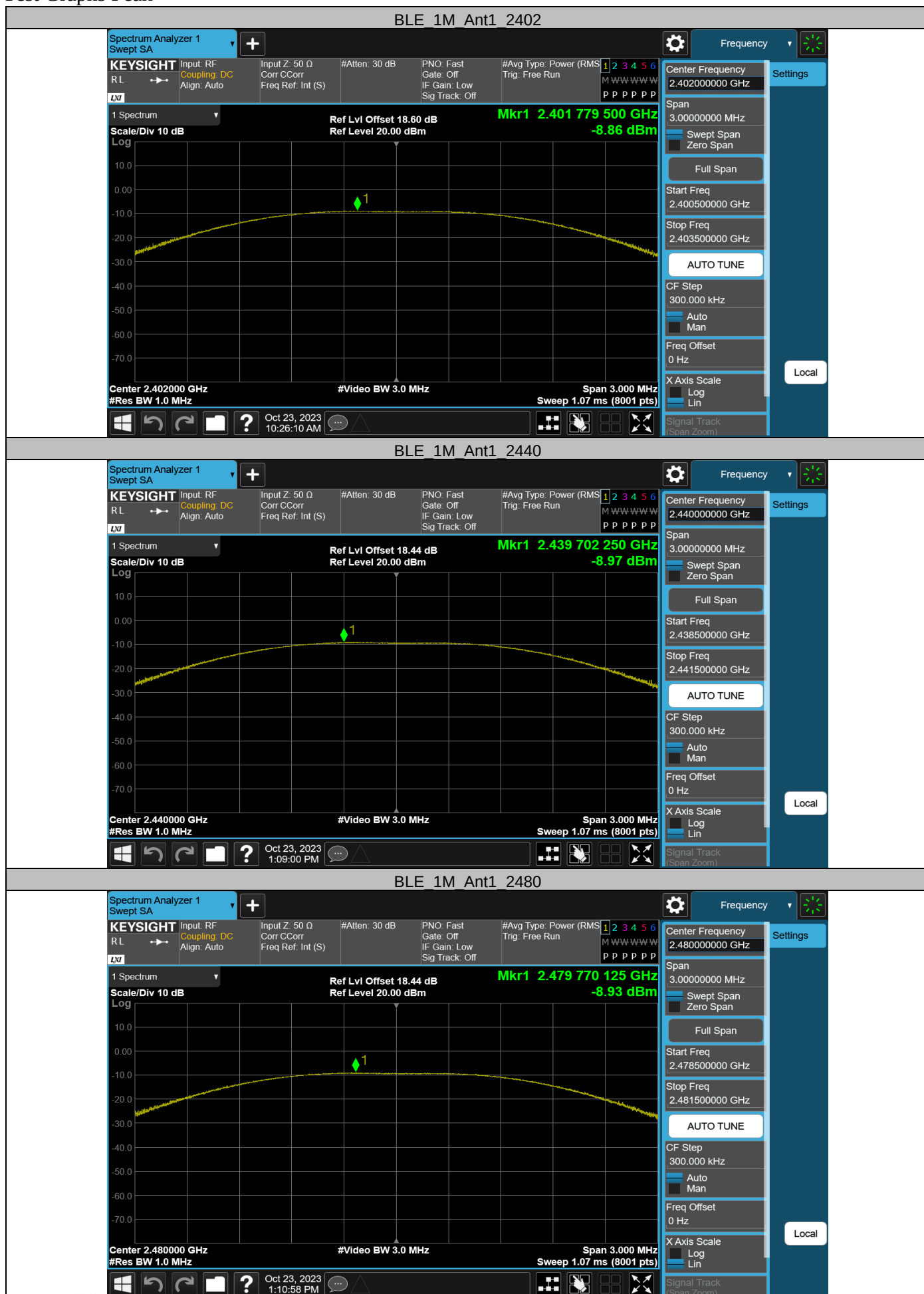


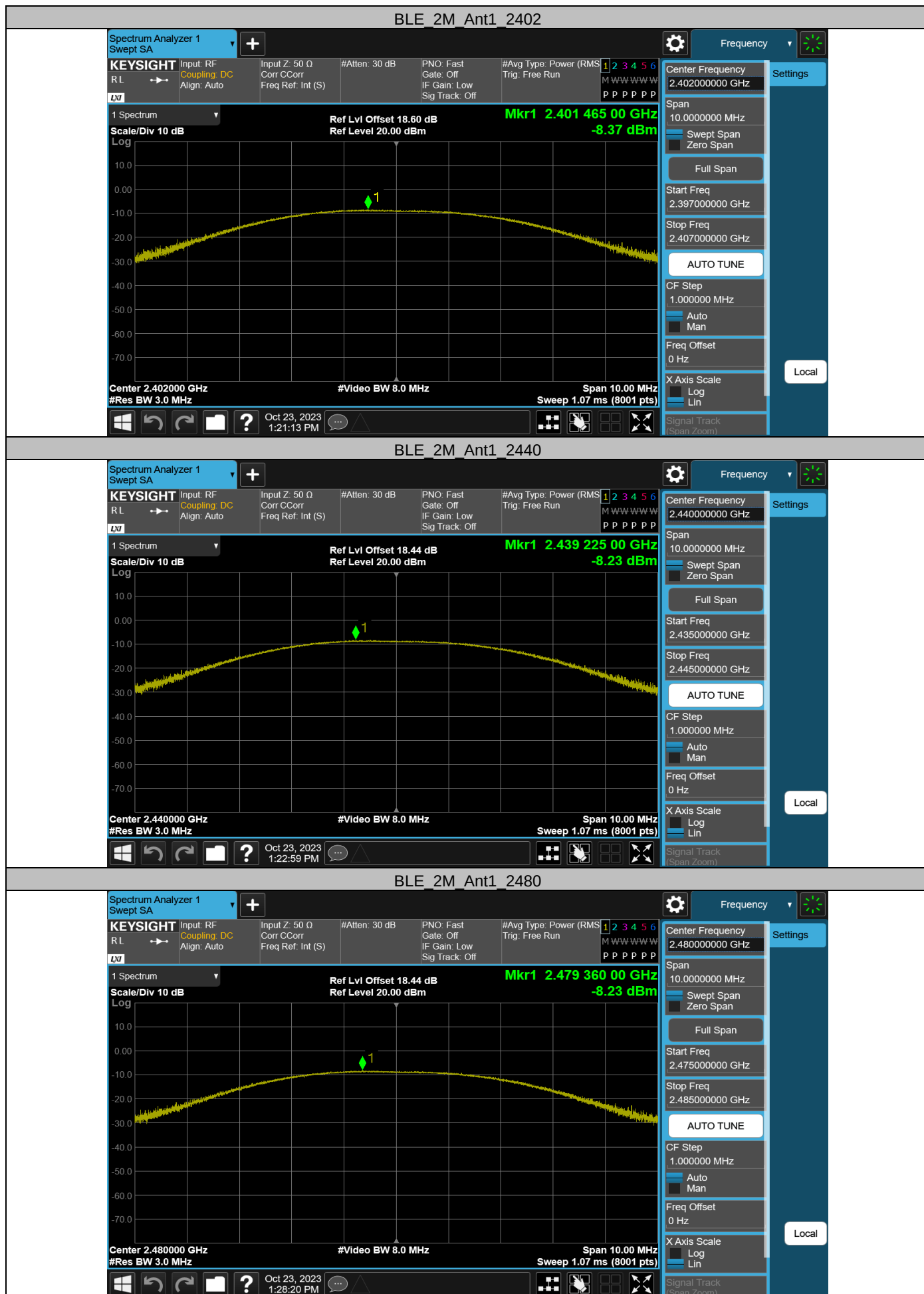
Right earbud

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-8.86	≤30	PASS
		2440	-8.97	≤30	PASS
		2480	-8.93	≤30	PASS
BLE_2M	Ant1	2402	-8.37	≤30	PASS
		2440	-8.23	≤30	PASS
		2480	-8.23	≤30	PASS

Test Graphs Peak





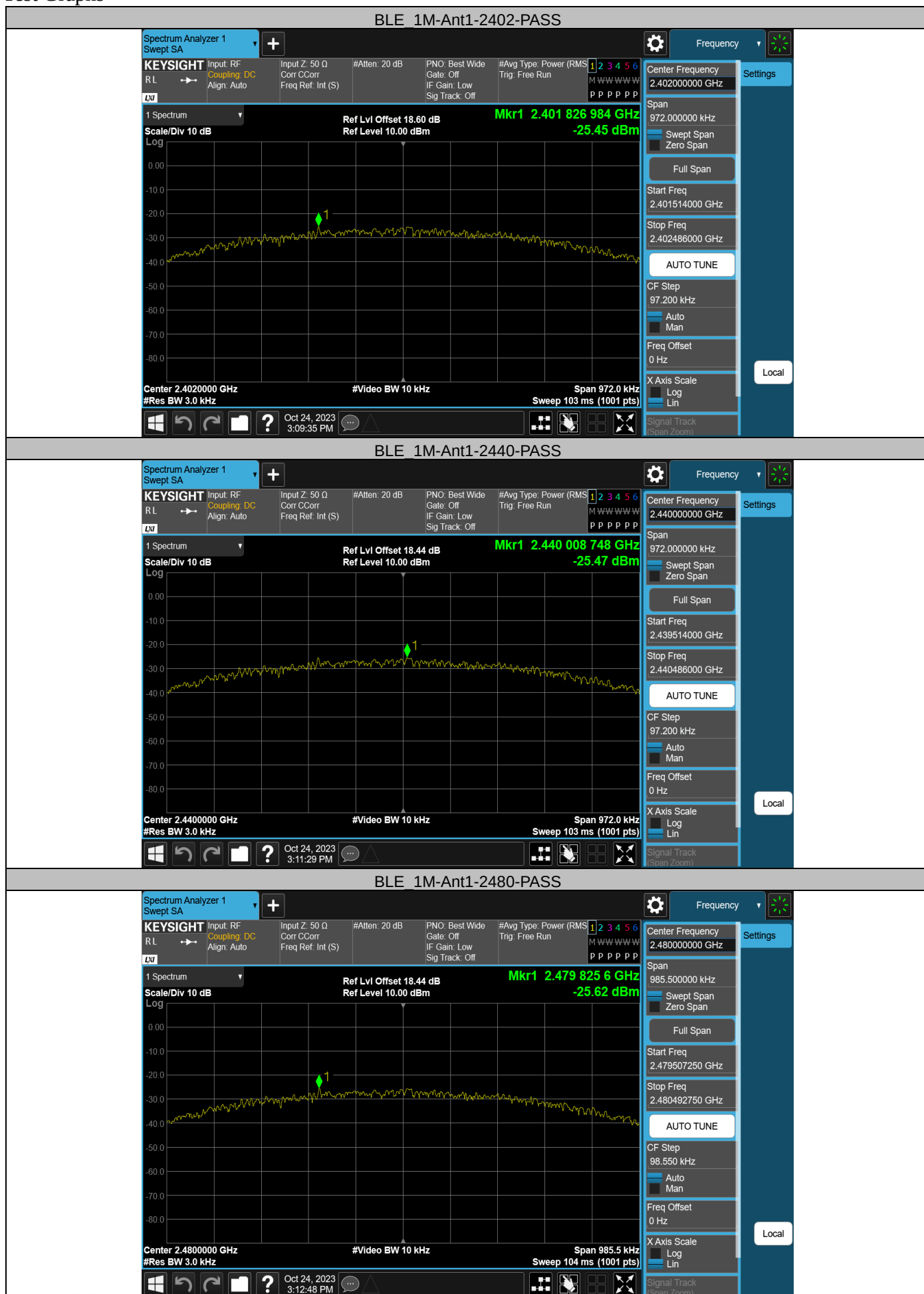
Appendix D: Maximum power spectral density

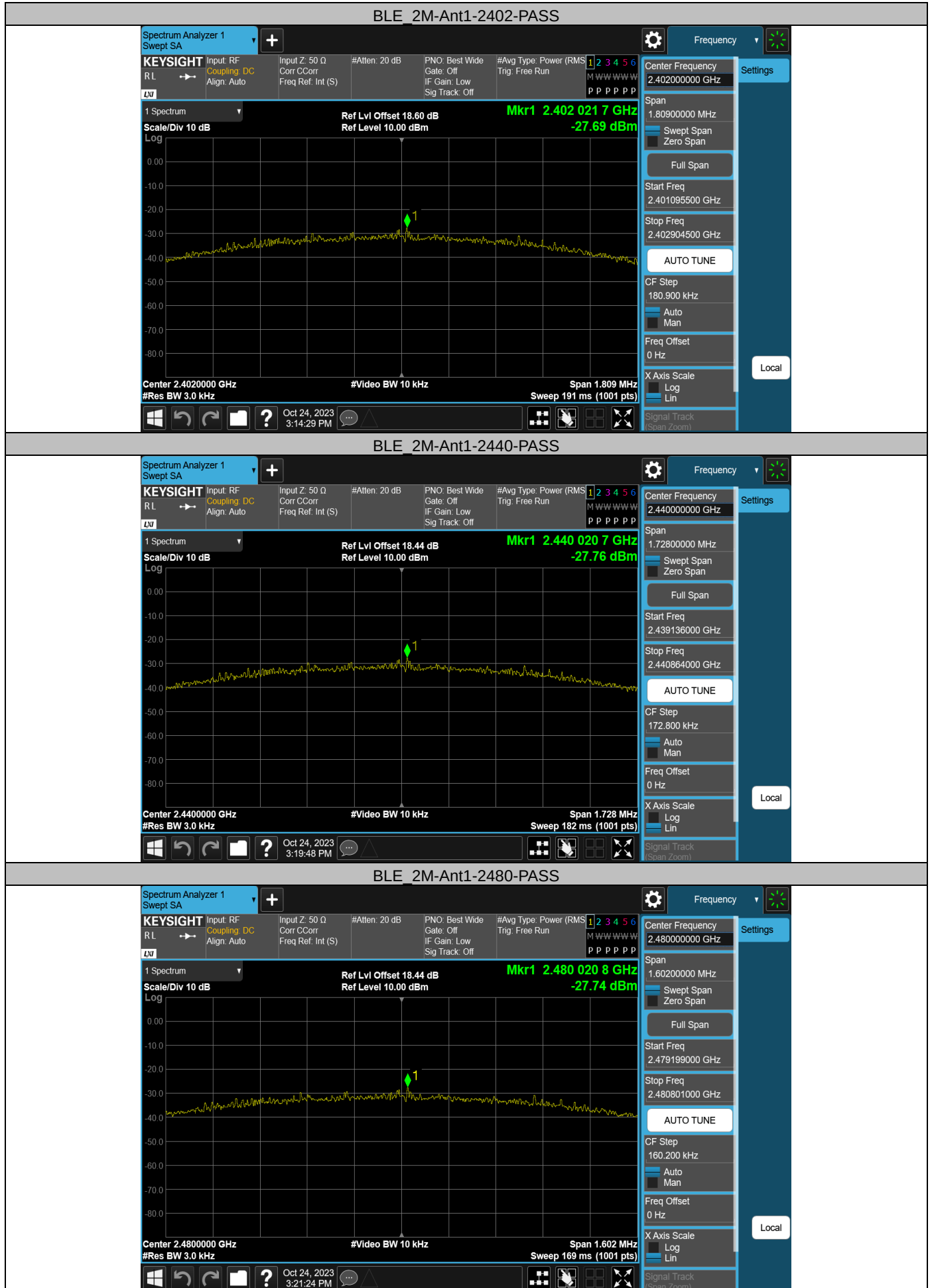
Left earbud

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-25.45	≤8.00	PASS
BLE_1M	Ant1	2440	-25.47	≤8.00	PASS
BLE_1M	Ant1	2480	-25.62	≤8.00	PASS
BLE_2M	Ant1	2402	-27.69	≤8.00	PASS
BLE_2M	Ant1	2440	-27.76	≤8.00	PASS
BLE_2M	Ant1	2480	-27.74	≤8.00	PASS

Test Graphs





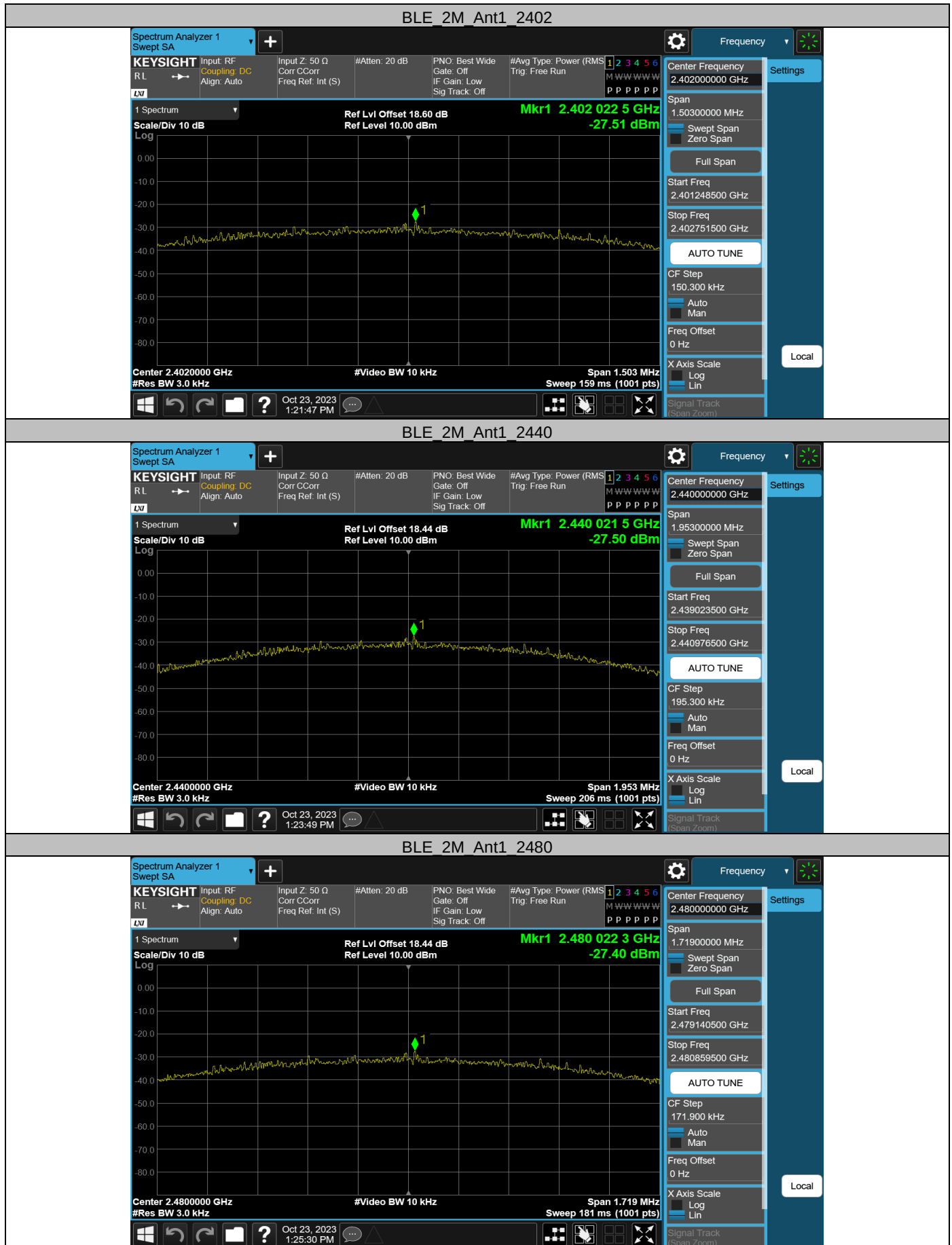
Right earbud

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-25.29	≤8.00	PASS
		2440	-25.51	≤8.00	PASS
		2480	-25.46	≤8.00	PASS
BLE_2M	Ant1	2402	-27.51	≤8.00	PASS
		2440	-27.50	≤8.00	PASS
		2480	-27.40	≤8.00	PASS

Test Graphs





Appendix E: Reference level measurement

Left earbud

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.25	-9.74
BLE_1M	Ant1	2440	2440.25	-9.60
BLE_1M	Ant1	2480	2480.01	-9.96
BLE_2M	Ant1	2402	2402.03	-10.43
BLE_2M	Ant1	2440	2440.00	-9.89
BLE_2M	Ant1	2480	2479.99	-9.99

Test Graphs





Right earbud

Test Result

Test Mode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.00	-9.62
		2440	2440.25	-9.66
		2480	2480.24	-9.60
BLE_2M	Ant1	2402	2402.01	-9.71
		2440	2439.99	-10.41
		2480	2479.99	-9.99

Test Graphs

