

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC164104 1 of 30 Page:

FCC Radio Test Report FCC ID: 2ASGY-VICE2

Report No. TB-FCC164104

Applicant High Island Health, LLC.

Equipment Under Test (EUT)

EUT Name VICE 2

Model No. VICE 2

Serial Model No. N/A

Brand Name ANEROS

Receipt Date 2019-01-17

Test Date 2019-01-18 to 2019-02-14

Issue Date 2019-02-15

Standards FCC Part 15, Subpart C (15.231(a):2018)

Test Method ANSI C63.10:2013

Conclusions **PASS**

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC requirements

Test/Witness Engineer

Engineer Supervisor

Engineer Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0

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Page: 2 of 30

Contents

COI	NIENIS	2
1.	GENERAL INFORMATION ABOUT EUT	5
	1.1 Client Information	5
	1.2 General Description of EUT (Equipment Under Test)	5
	1.3 Block Diagram Showing the Configuration of System Tested	6
	1.4 Description of Support Units	6
	1.5 Description of Test Mode	6
	1.6 Description of Test Software Setting	7
	1.7 Measurement Uncertainty	7
	1.8 Test Facility	8
2.	TEST SUMMARY	9
3.	TEST EQUIPMENT	10
4.	CONDUCTED EMISSION TEST	11
	4.1 Test Standard and Limit	11
	4.2 Test Setup	
	4.3 Test Procedure	12
	4.4 Test Data	12
5.	RADIATED EMISSION TEST	13
	5.1 Test Standard and Limit	13
	5.2 Test Setup	14
	5.3 Test Procedure	15
	5.4 EUT Operating Condition	16
	5.5 Test Data	
6.	BANDWIDTH	17
	6.1 Test Standard and Limit	17
	6.2 Test Setup	17
	6.3 Test Procedure	
	6.4 EUT Operating Condition	
	6.5 Test Data	
7.	RELEASE TIME MEASUREMENT	18
	7.1 Test Standard and Limit	
	7.2 Test Setup	18
	7.3 Test Procedure	
	7.4 EUT Operating Condition	
	7.6 Test Data	
8.	DUTY CYCLE	19
	8.1 Test Standard and Limit	19
	8.2 Test Setup	
	8.3 Test Procedure	
	8.4 EUT Operating Condition	19



Page: 3 of 30

8.6 Test Data	19
9. ANTENNA REQUIREMENT	20
9.1 Standard Requirement	20
9.2 Antenna Connected Construction	
ATTACHMENT A RADIATED EMISSION TEST DATA	21
ATTACHMENT BBANDWIDTH DATA	27
ATTACHMENT C RELEASE TIME MEASUREMENT DATA	28
ATTACHMENT DDUTY CYCLE DATA	29



Page: 4 of 30

Revision History

Report No.	Version	Description	Issued Date
TB-FCC164104	Rev.01	Initial issue of report	2019-02-15
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Page: 5 of 30

1. General Information about EUT

1.1 Client Information

Applicant	•	High Island Health, LLC.
Address	:	1800 Silber Road, Houston, Texas 77055, Texas, U.S.A.
Manufacturer		Odeco Ltd.
Address		2F, Block 7th, YuSheng Industrial Zone, Xixiang, Baoan District, Shenzhen, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	VICE 2		
Models No.	:	VICE 2		
Model Difference		N/A		
	B	Operation Frequency:	433.92 MHz	
Product Description		Out Power:	77.97dBuV/m (PK Max.) 70.69dBuV/m (AV Max.)	
The state of the s		Antenna Gain:	PCB Antenna(0 dBi)	
	3	Modulation Type:	ASK	
Power Rating		DC 5V from USB Cable DC 3.7V by 100mAh Re	e. echargeable Li-ion Battery.	
Software Version	:	N/A		
Hardware Version	ð.	N/A		
Connecting I/O Port(S)	:	Please refer to the Use	r's Manual	

Note:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



Page: 6 of 30

1.3 Block Diagram Showing the Configuration of System Tested

TX Mode		
	EUT	

1.4 Description of Support Units

The EUT has been test as an independent unit.

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

Test Items	Note
Conducted Emission	N/A
Radiated Emission	Continuously transmitting
Bandwidth	Continuously transmitting
Duty Cycle	Continuously transmitting
Release Time	Normal Mode

Note:

- (1) During the testing procedure, the continuously transmitting mode was programmed by the customer.
- (2) The EUT is considered a portable unit, and it was pre-tested on the positioned of each 3 axis: X axis, Y axis and Z axis. The worst case was found positioned on Z-plane. There for only the test data of this Z-plane were used for radiated emission measurement test.



Page: 7 of 30

1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of transmitting mode.

RF Power Setting in Test SW:	DEF

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	±3.42 dB ±3.42 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB



Page: 8 of 30

1.8 Test Facility

The testing was performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at:1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China.

At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.



Page: 9 of 30

2. Test Summary

	FCC Part 15 Subpart (15.231(a))			
Standard Section	-			
FCC	Test Item	Judgment	Remark	
15.203	Antenna Requirement	PASS	N/A	
15.207	Conducted Emission	N/A _(note1)	N/A	
15.209&15.231	Radiation Emission	PASS	N/A	
0077	Release Time	PASS	N/A	
15.231	20 dB Bandwidth	PASS	N/A	
MRI	Duty Cycle	PASS	N/A	

N/A is an abbreviation for Not Applicable.

Note 1: when the EUT is charging, it cannot working, So the item of conducted emission not applicable.



Page: 10 of 30

3. Test Equipment

Conducted Emiss	onducted Emission Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul.18, 2018	Jul. 17, 2019
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul.18, 2018	Jul. 17, 2019
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul.18, 2018	Jul. 17, 2019
LISN	Rohde & Schwarz	ENV216	101131	Jul.18, 2018	Jul. 17, 2019
Radiation Emission	n Test	-			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul.18, 2018	Jul. 17, 2019
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul.18, 2018	Jul. 17, 2019
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.16, 2018	Mar. 15, 2019
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.16, 2018	Mar. 15, 2019
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.16, 2018	Mar. 15, 2019
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.16, 2018	Mar. 15, 2019
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 15, 2018	Jul. 14, 2019
Pre-amplifier	Sonoma	310N	185903	Mar.16, 2018	Mar. 15, 2019
Pre-amplifier	HP	8449B	3008A00849	Mar.16, 2018	Mar. 15, 2019
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.16, 2018	Mar. 15, 2019
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducte	ed Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul.18, 2018	Jul. 17, 2019
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul.18, 2018	Jul. 17, 2019
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 15, 2018	Sep. 14, 2019
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 15, 2018	Sep. 14, 2019
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 15, 2018	Sep. 14, 2019
33	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Sep. 15, 2018	Sep. 14, 2019
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Sep. 15, 2018	Sep. 14, 2019
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 15, 2018	Sep. 14, 2019
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Sep. 15, 2018	Sep. 14, 2019



Page: 11 of 30

4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC 15.207

4.1.2 Test Limit

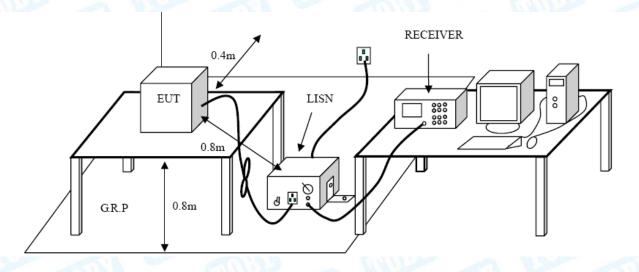
Conducted Emission Test Limit

Eroguanav	Maximum RF Line Voltage (dBμV)		
Frequency	Quasi-peak Level	Average Level	
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup





Page: 12 of 30

4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

The EUT must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

4.4 Test Data

When the EUT is charging, it cannot working, So this item not applicable.

Page: 13 of 30

5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard FCC 15.209&FCC 15.231

5.1.2 Test Limit

According to FCC 15.231(a) requirement:

In addition to the provisions of Section 15.205, the field strength of emissions from intentional radiators operated under this Section shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolt/meter) at 3m	Field Strength of Spurious Emissions (microvolt/meter) at 3m		
40.66~40.70	2250	225		
70~130	1250	125		
130~174	1250 to 3750(**)	125 to 375(**)		
174~260	3750	375		
260~470	3750 to 12500(**)	375 to 1250(**)		
Above 470	12500	1250		

^{**} Linear interpolations, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

- (1) for the band 130~174 MHz, uV/m at 3 meters= 56.81818(F)-6136.3636;
- (2) for the band 260~470 MHz, uV/m at 3 meter= 41.6667(F)-7083.3333.
- (3) The maximum permitted unwanted emissions level is 20 dB below the maximum permitted fundamental level. In addition field strength of any emissions which appear inside of the restriction band shall not exceed the general radiated emissions limits in FCC Part15.209.

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3



Page: 14 of 30

Note:

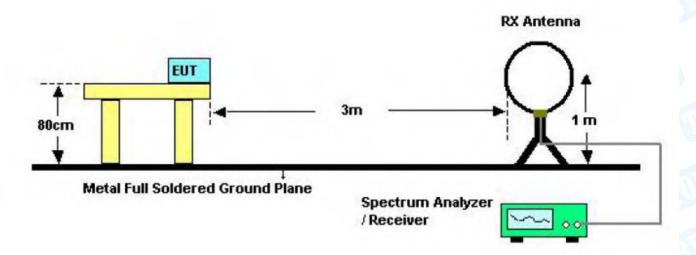
(1) The tighter limit applies at the band edges.

(2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

So the field strength of emission limits have been calculated in below table.

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolt/meter) at 3m
433.92 MHz	80.82 (Average)
433.92 MHz	100.82 (Peak)

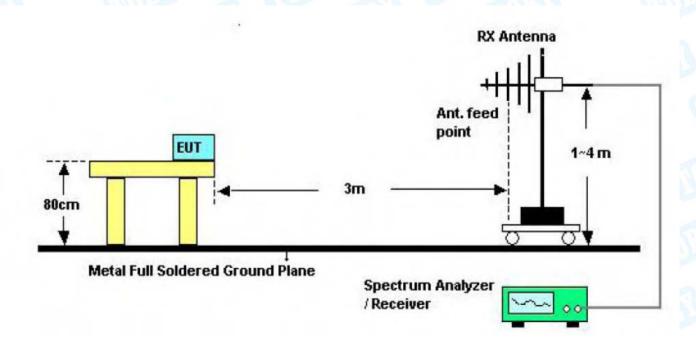
5.2 Test Setup



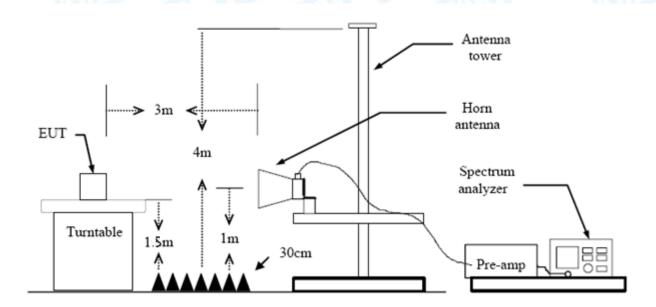
Below 30MHz Test Setup



Page: 15 of 30



Below 1000MHz Test Setup



Above 1GHz Test Setup

5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by



Report No.: TB-FCC164104 Page: 16 of 30

3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.

- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

5.5 Test Data

Please refer to the Attachment A.



Page: 17 of 30

6. Bandwidth

6.1 Test Standard and Limit

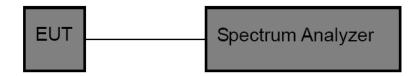
6.1.1 Test Standard FCC 15.231

6.1.2 Test Limit

The 99%bandwidth of the emissions shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. So the emission bandwidth limits have been calculated in below table.

Fundamental Frequency	20 dB Bandwidth Limits (MHz)
433.92 MHz	1.0848

6.2 Test Setup



6.3 Test Procedure

- (1) Set Spectrum Analyzer Center Frequency= Fundamental Frequency, RBW=10 kHz, VBW= 30 kHz, Span= 500KHz.
- (2) Measured the spectrum width with power higher than 20 dB below carrier.

6.4 EUT Operating Condition

The Equipment Under Test was Programmed to be in continuously transmitting mode.

6.5 Test Data

Please refer to the Attachment B.



Page: 18 of 30

7. Release Time Measurement

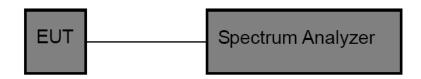
7.1 Test Standard and Limit

7.1.1 Test Standard FCC 15.231

7.1.2 Test Limit

According to FCC 15.231a, A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

7.2 Test Setup



7.3 Test Procedure

- (1) Setup the EUT as show in the block diagram above.
- (2) Set Spectrum Analyzer Centre Frequency= Fundamental Frequency, RBW=100 kHz, VBW= 300 kHz, Span= 0 Hz. Sweep Time= 5 Seconds.
- (3) Setup the EUT as normal operation and press Transmitter button.
- (4) Set Spectrum Analyzer View, Delta Mark time.

7.4 EUT Operating Condition

The EUT was set to work in transmitting mode.

7.6 Test Data

Please refer to the Attachment C.



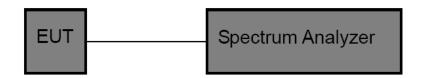
Page: 19 of 30

8. Duty Cycle

8.1 Test Standard and Limit

5.1.1 Test Standard FCC 15.231

8.2 Test Setup



8.3 Test Procedure

- (1) Set EUT operating in continuous transmitting mode.
- (2) Set the Spectrum Analyzer to the transmitter carrier frequency, and set the spectrum analyzer resolution bandwidth (RBW) to 100 kHz and video bandwidth (VBW) to 300 kHz, Span was set to 0 Hz.
- (3) The Duty Cycle was measured and recorded.

8.4 EUT Operating Condition

The EUT was programmed to be in transmitting mode.

8.6 Test Data

Please refer to the Attachment D.



Page: 20 of 30

9. Antenna Requirement

9.1 Standard Requirement

9.1.1 Standard FCC Part 15.203

9.1.2 Requirement

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.

9.2 Antenna Connected Construction

The gains of the antenna used for transmitting is 0 dBi, and the antenna connector is de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

Result

The EUT antenna is a PCB Antenna. It complies with the standard requirement.

	Antenna Type					
000	▼ Permanent attached antenna					
D m	□ Unique connector antenna					
000	□ Professional installation antenna					





Page: 21 of 30

Attachment A-- Radiated Emission Test Data

9 KHz to 30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB

below the permissible value has no need to be reported.

30MHz-1GHz

Tempera	ature:	25 °	C	CHIE	Rela	tive Humidi	ty: 55	%
Test Vol	tage:	DC :	3.7V		CALL PARTY		Mill	
Ant. Pol		Horiz	zontal		Lane		1823	67
Test Mo	de:	Stan	dby Mod	enlline		Millian		163
Remark:			eport for cribed lin	the emission v nit.	vhich more th	nan 10 dB be	elow the	
90.0 dBu	V/m							
-10 30.000	40 50	60 7	0 80	(MHz)	2 1 × × × 300	3	3M Radiatio Margin - {	
			Readir	g Correct	Measure-			
No. N	∕lk. Fr	req.	Level	Factor	ment	Limit	Over	
	M	lHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	216.	7828	30.58	-19.03	11.55	46.00	-34.45	peak
2	271.	3245	33.61	-16.76	16.85	46.00	-29.15	peak
3	325.	5957	33.80	-15.37	18.43	46.00	-27.57	peak
4	547.	0977	31.21	-9.21	22.00	46.00	-24.00	peak
5	709.	1823	31.50	-6.78	24.72	46.00	-21.28	peak
	833.		31.38	-5.52	25.86	46.00	-20.14	peak



Page: 22 of 30

Temperature:	25 ℃		Relat	ive Humidity:	55%				
Test Voltage:	DC 3.7V	a v		33	CILLO				
Ant. Pol.	Vertical	ertical							
Test Mode:	Standby Mode	Standby Mode							
Remark:	No report for the prescribed limit.	emission w	hich more th	an 10 dB belov	v the				
80.0 dBuV/m									
30	1 2 	mayaman	3 **	5	Radiation Margin 6 dB				
-20 30.000 40 50	60 70 80	(MHz)	300	400 500 60	00 700 1000.000				
No. Mk. Fre	Reading q. Level	Correct Factor	Measure- ment	Limit Ov	/er				
MH	z dBuV	dB/m	dBuV/m	dBuV/m d	B Detector				
1 67.67	51 30.13	-23.71	6.42	40.00 -33	3.58 peak				
2 112.13	304 29.52	-22.41	7.11	43.50 -36	6.39 peak				
3 277.09	935 29.65	-16.65	13.00	46.00 -33	3.00 peak				
4 325.59	957 30.57	-15.37	15.20	46.00 -30	0.80 peak				
5 434.06	30.23	-12.07	18.16	46.00 -27	7.84 peak				
6 * 638.36	30.78	-8.22	22.56	46.00 -23	3.44 peak				
Emission Level=	Read Level+ Cor	rect Factor							



Page: 23 of 30

Fundamental and Harmonics emissions

Below 1G

Temperature:			$^{\circ}$		Relative H	lumidity:	55%	
Test Voltage:		DC	3.7V		3		1350	1 N
Test Mode:		TX	Mode	A River		10		BY.
Freq.	Ant.Po	ol	Emission Level (dBuV/m)			it 3m ıV/m)	Marg	in(dB)
(MHz)	H/V		PK	AV	PK	AV	PK	AV
433.9200	Η		77.97	70.69	100.82	80.82	-22.85	-10.13
867.8400	Н		48.13	40.85	80.82	60.82	-32.69	-19.97
433.9200	>		61.66	54.38	100.82	80.82	-39.16	-26.44
867.8400 V			38.93	31.65	80.82	60.82	-41.89	-29.17
Average Valu	Average Value=Peak Value-7.28							
Margin=Emi	ssion Le	evel	l-Limit					

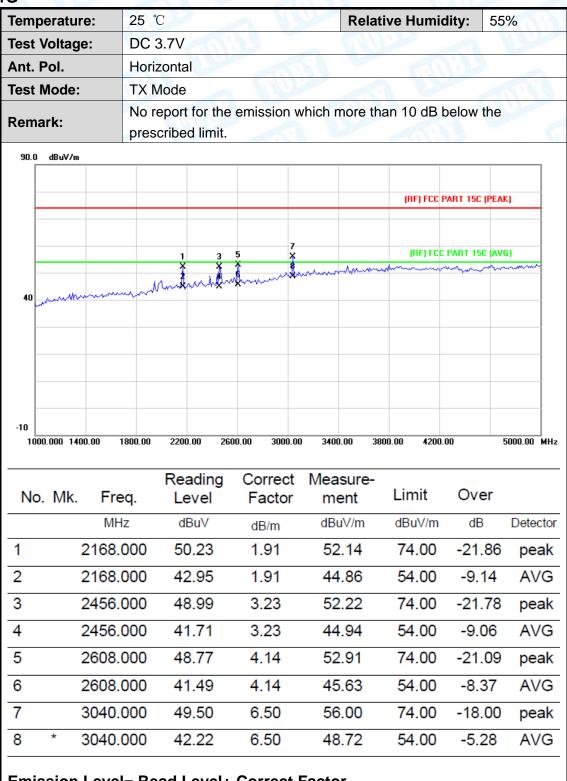
Note:

- (1) All Readings are Peak Value.
- (2) Emission Level= Reading Level+ Probe Factor +Cable Loss
- (3) The QP measurement was not performed when the peak measured data under the limit of QP detection.



Page: 24 of 30

Above 1G



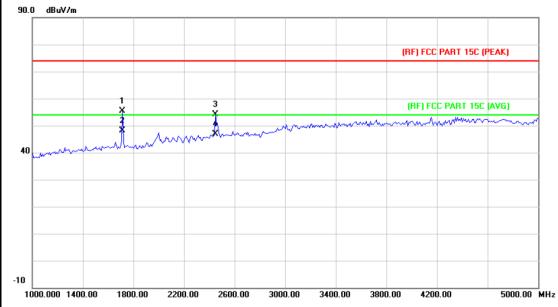
Emission Level= Read Level+ Correct Factor

Average Value=Peak Value-7.28



Page: 25 of 30

Temperature:	25 ℃ Relative Humidity: 55%
Test Voltage:	DC 3.7V
Ant. Pol.	Vertical
Test Mode:	TX Mode
Remark:	No report for the emission which more than 10 dB below the prescribed limit.
90.0 dBuV/m	



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		1712.000	56.97	-1.56	55.41	74.00	-18.59	peak
2	*	1712.000	49.69	-1.56	48.13	54.00	-5.87	AVG
3		2448.000	50.89	3.17	54.06	74.00	-19.94	peak
4		2448.000	43.61	3.17	46.78	54.00	-7.22	AVG

Emission Level= Read Level+ Correct Factor

Average Value=Peak Value-7.28



Page: 26 of 30

Other harmonics emissions are lower than 20dB below the allowable limit.

Note:

(1) All Readings are Peak Value and AV. And AV is calculated by the following: Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.

Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values.

Average Values=Peak Values+20log (Duty Cycle)

- (2) Emission Level= Reading Level + Probe Factor +Cable Loss
- (3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Pulse Desensitization Correction Factor

Note:

1)The Smallest Pulse Width (PW)= 0.4788ms

(2) 2/PW=2/0.4788(ms)= 4.18kHz<100 kHz

Because 2/PW<RBW, so the PDCF is not needed.

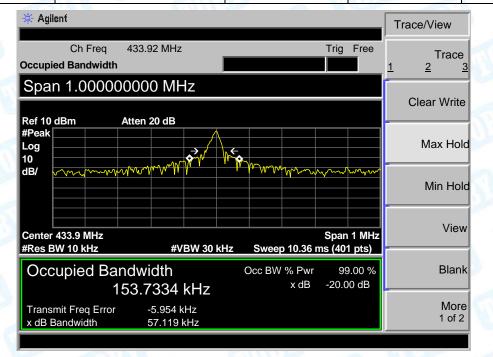


Page: 27 of 30

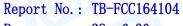
Attachment B--Bandwidth Data

Temperature	:	25 ℃
Relative Humidity		65 %
Pressure		1010 hPa
Test Power	100	DC 3.7V

Frequency (MHz)	20 dBc Bandwidth (kHz)	99% OBW (kHz)	Limit (kHz)	Result	
433.92	57.119	153.7334	1084.8	PASS	



Note: Limit=0.25%* center frequency=0.25%*433.92MHz=1.0848MHz



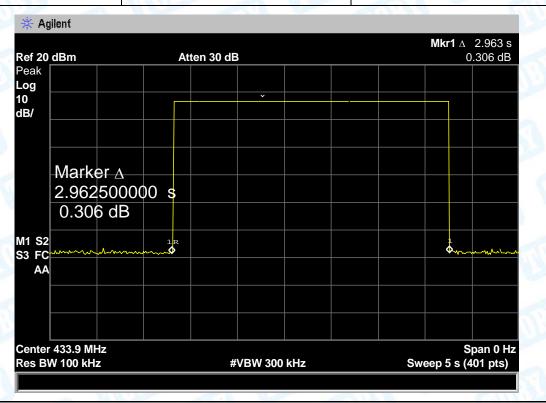


Page: 28 of 30

Attachment C-- Release Time Measurement Data

Temperature	:	25 ℃
Relative Humidity		65 %
Pressure		1010 hPa
Test Power	4	DC 3.7V

Release Time(s)	Limit (s)	Result
2.963	5	PASS





Page: 29 of 30

Attachment D--Duty Cycle Data

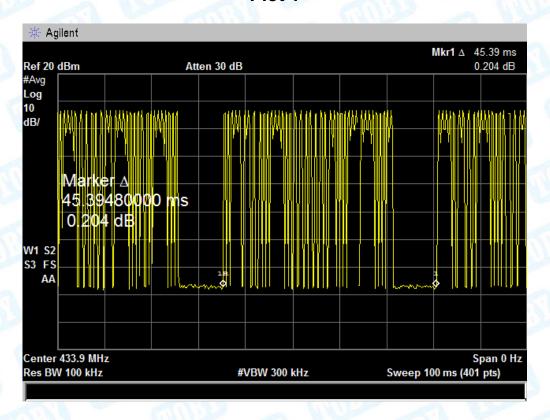
Please refer the following pages:

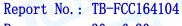
Plot 1/Plot 2: transmit once in 100ms, and each cycle is 45.39 ms there are one kind of pulse in each cycle, the pulses total 41.

Plot 3: the pulse in a time period of 0.4788ms

Duty Cycle=ON/Total=(41*0.4788)/45.39=19.6308/45.39=43.25% 20 log(Duty Cycle)=-7.28 Average=Peak Value+ 20log(Duty Cycle), AV=PK-7.28

Plot 1

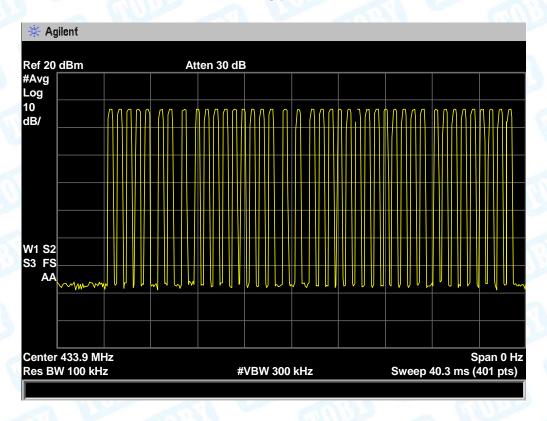




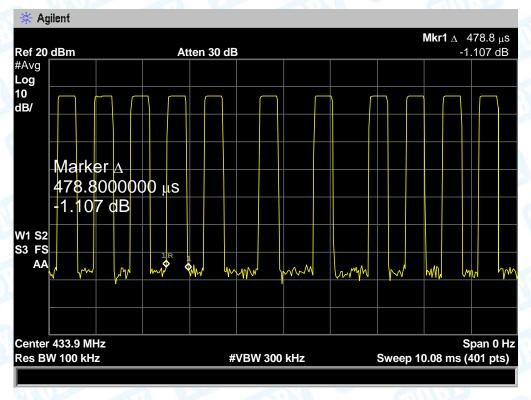


Page: 30 of 30

Plot 2



Plot 3



----END OF REPORT----