

FCC RADIO TEST REPORT FCC ID: 2ABM6BFT-6

Product: The remote control transmitter

Trade Name: N/A

Model Name: BFT-6

Serial Model: BF-6, BFT-4

Report No.: NTEK-2013NT10101089F

Prepared for

Blue Fly Electronic Limited Company
Sanzhou Xinda Industrial Zone, Lunjiao Town Shunde District,
Foshan City, Guangdong Province, China

Prepared by

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Applicant's name: Blue Fly Electronic Limited Company



TEST RESULT CERTIFICATION

	Constant Vinda Industrial Zana Luniiga Taura Chunda District
Address:	Sanzhou Xinda Industrial Zone,Lunjiao Town Shunde District, Foshan City,Guangdong Province, China
Manufacture's Name:	Blue Fly Electronic Limited Company
Address:	Sanzhou Xinda Industrial Zone,Lunjiao Town Shunde District, Foshan City,Guangdong Province
Product description	
Product name:	The remote control transmitter
Model and/or type reference :	BFT-6
Serial Model:	BF-6, BFT-4
Standards:	FCC Part15.249
Test procedure	ANSI C63.4-2003
	s been tested by NTEK, and the test results show that the compliance with the FCC requirements. And it is applicable only the report.
This report shall not be reproduc	ced except in full, without the written approval of NTEK, this
document may be altered or rev	rised by NTEK, personal only, and shall be noted in the revision of
the document.	
Date of Test	:
Date (s) of performance of tests	: 10 Oct. 2013 ~29 Oct. 2013
Date of Issue	: 29 Oct. 2013
Test Result	Pass
Testing Engine	eer: Jolocha
	(Polo Cha)
	Ω
Technical Man	ager: $y_{n}y_{n}y_{n}$
	(Brown Lu)
Authorized Sig	unatory -
Authorized Sig	Borey lung
	(Bovey Yang)



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.249)					
Standard Section	Judgment	Remark			
15.207	Conducted Emission	N/A			
15.203	Pass				
15.249	Radiated Spurious Emission	Pass			
15.205	Band Edge Emission	Pass			
15.249	Occupied Bandwidth	Pass			

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	The remote control trans	smitter			
Trade Name	N/A				
Model Name	BFT-6				
Serial Model	BF-6, BFT-4				
Model Difference	All the models are the same circuit and RF module, except the model names				
Product Description	except the model names The EUT is a The remote control transmitter Operation Frequency: 2402~2440MHz Modulation Type: GFSK Antenna Designation: Built-in Antenna Antenna Gain(Peak) 1.5 dBi EIRP 94.63dbuv/m@3m Based on the application, features, or specification exhibited in User's Manual, the EUT is considered ITE/Computing Device. More details of EUT techn specification, please refer to the User's Manual.				
Channel List	Please refer to the Note 2.				
Adapter	N/A				
Battery	1.5V*4cell "AA" alkaline	battery			

Note:

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





2.

Channel	Frequency (MHz)
01	2402
02	2403
18	2420
19	2421
37	2439
38	2440

Table for Filed Antenna

iabi	Table 1011 fied / titlefind						
Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE	
1	N/A	N/A	Built-in Antenna	N/A	1.5	Antenna	



2.2 DESCRIPTION OF TEST MODES

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 above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX CH01
Mode 2	TX CH19
Mode 3	TX CH38

For Radiated Emission				
Final Test Mode Description				
Mode 1 TX CH01				
Mode 2	TX CH19			
Mode 3	TX CH38			

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT use new battery.



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2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

E-1 EUT



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	The remote control transmitter	N/A	BFT-6	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2013.07.06	2014.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2013.06.07	2014.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2013.07.06	2014.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2013.06.07	2014.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2013.06.07	2014.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2013.07.06	2014.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2013.07.06	2014.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2013.12.22	2013.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2013.06.08	2014.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2013.07.06	2014.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2013.07.06	2014.07.05	1 year

Conduction Test equipment

CONC	Conduction rest equipment							
Item	Kind of	Manufactu	Type No.	Serial No.	Last	Calibrated	Calibratio	
	Equipment	rer			calibration	until	n period	
1	Test Receiver	R&S	ESCI	101160	2013.06.06	2014.06.05	1 year	
2	LISN	R&S	ENV216	101313	2013.08.24	2014.08.23	1 year	
3	LISN	EMCO	3816/2	00042990	2013.08.24	2014.08.23	1 year	
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2013.06.07	2014.06.06	1 year	
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2013.06.07	2014.06.06	1 year	
6	Absorbing clamp	R&S	MOS-21	100423	2013.06.08	2014.06.07	1 year	



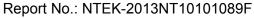
3. ANTENNA REQUIREMENT

3.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

3.2 EUT ANTENNA

The	Εl	JT a	antenna	is l	Built-ir	า An	tenna.	Ιt	comp	lv wit	h the	e stanc	darc	l regu	ıiremer	nt.





3.3 CONDUCTED EMISSION MEASUREMENT

3.3.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard
FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
0.15 -0.5			66 - 56 *	56 - 46 *	CISPR
0.50 -5.0			56.00	46.00	CISPR
5.0 -30.0			60.00	50.00	CISPR

0.15 -0.5		66 - 56 *	56 - 46 *	LP002.
0.50 -5.0		56.00	46.00	LP002.
5.0 -30.0		60.00	50.00	LP002.

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



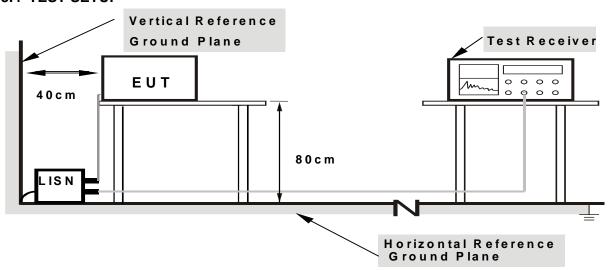
3.3.2 TEST PROCEDURE

- a. The EUT was placed 0.4 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.
- b. 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.
- c. 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.
- d LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes



3.2.5 TEST RESULT

EUT:	The remote control transmitter	Model Name. :	BFT-6
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	N/A
Test Mode :	N/A	Phase :	N/A

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3.4 RADIATED EMISSION MEASUREMENT

3.4.1 Radiated Emission Limits (FCC 15.209)

Frequencies (MHz)	Field Strength (micorvolts/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

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.249)

Frequency of Emission (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)
2400 - 2483.5	50	500

Notes:

(1) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



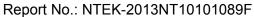
3.4.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m.
- d. 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.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.4.3 DEVIATION FROM TEST STANDARD

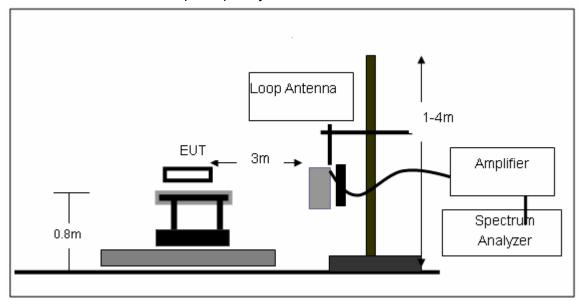
No deviation



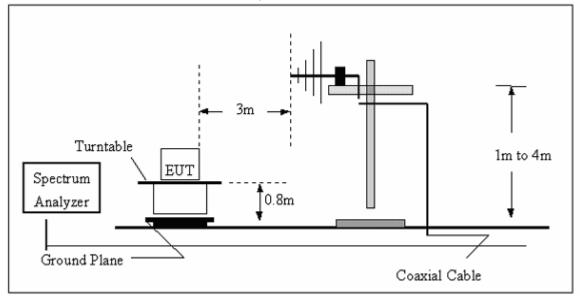


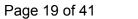
3.4.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



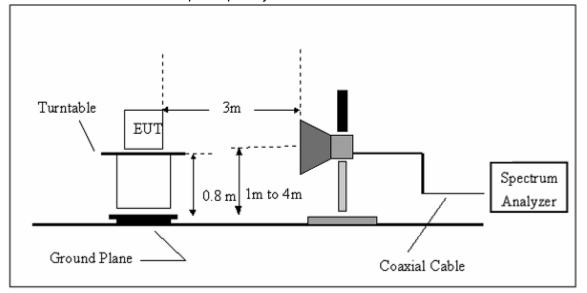
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz







(C) Radiated Emission Test-Up Frequency Above 1GHz



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3.4.5 TEST RESULTS (BLOW 30MHz)

EUT:	The remote control transmitter	Model Name. :	BFT-6
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 6V from battery
Test Mode :	TX	Polarization :	

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Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =20 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.



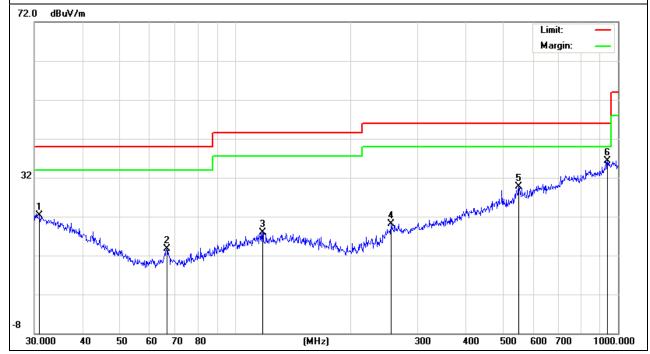
3.4.6 TEST RESULTS (BETWEEN 30 - 1000 MHZ)

EUT:	The remote control transmitter	Model Name :	BFT-6
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 6 V from battery
Test Mode :	TX	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
30.9618	4.33	17.91	22.24	40.00	-17.76	QP
66.4989	8.16	5.59	13.75	40.00	-26.25	QP
118.1861	5.89	12.04	17.93	43.50	-25.57	QP
255.623	5.84	14.35	20.19	46.00	-25.81	QP
550.9479	6.05	23.68	29.73	46.00	-16.27	QP
938.8325	6.82	29.56	36.38	46.00	-9.62	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



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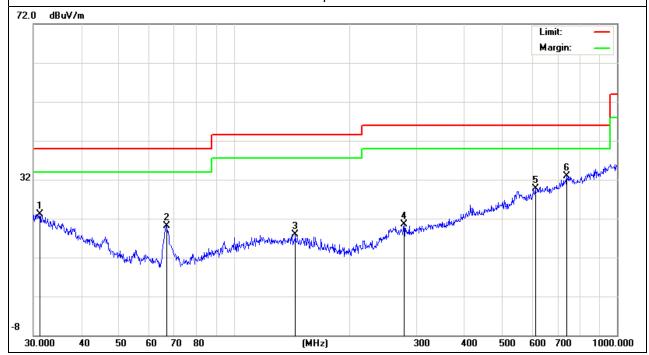


EUT:	The remote control transmitter	Model Name :	BFT-6
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 6 V from battery
Test Mode :	TX	Polarization :	Vertical

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
31.1798	5.35	17.81	23.16	40.00	-16.84	QP
66.9668	14.48	5.64	20.12	40.00	-19.88	QP
144.8418	5.92	12.03	17.95	43.50	-25.55	QP
278.0668	6.41	14.05	20.46	46.00	-25.54	QP
612.0642	6.32	23.41	29.73	46.00	-16.27	QP
739.6604	6.37	26.47	32.84	46.00	-13.16	QP

Remark



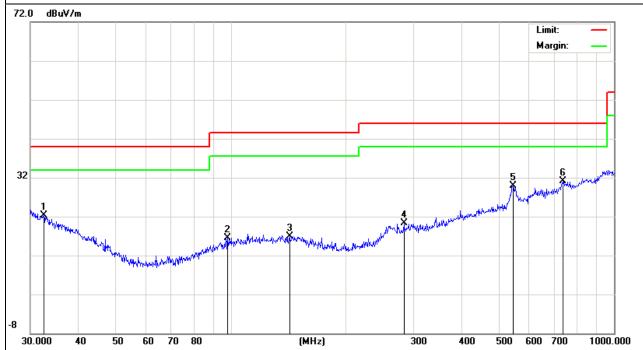


EUT:	The remote control transmitter	Model Name :	BF-6
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 6 V from battery
Test Mode :	TX	Polarization :	Horizontal

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
32.5197	5.32	17.05	22.37	40.00	-17.63	QP
98.1419	6.28	10.31	16.59	43.50	-26.91	QP
142.3240	4.95	11.93	16.88	43.50	-26.62	QP
282.9852	6.77	13.50	20.27	46.00	-25.73	QP
545.1825	6.53	23.47	30.00	46.00	-16.00	QP
734.4913	7.06	24.08	31.14	46.00	-14.86	QP

Remark:



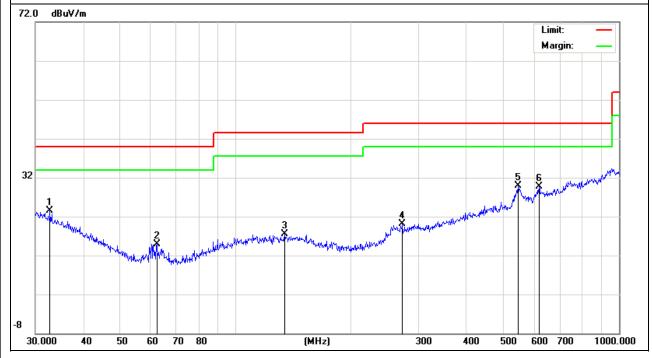


EUT:	The remote control transmitter	Model Name :	BF-6
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 6 V from battery
Test Mode :	TX	Polarization :	Vertical

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
32.7486	6.62	16.93	23.55	40.00	-16.45	QP
62.2128	9.70	5.20	14.90	40.00	-25.10	QP
134.0882	5.60	11.97	17.57	43.50	-25.93	QP
272.2776	6.65	13.42	20.07	46.00	-25.93	QP
545.1825	6.44	23.47	29.91	46.00	-16.09	QP
618.5366	7.61	22.00	29.61	46.00	-16.39	QP

Remark:



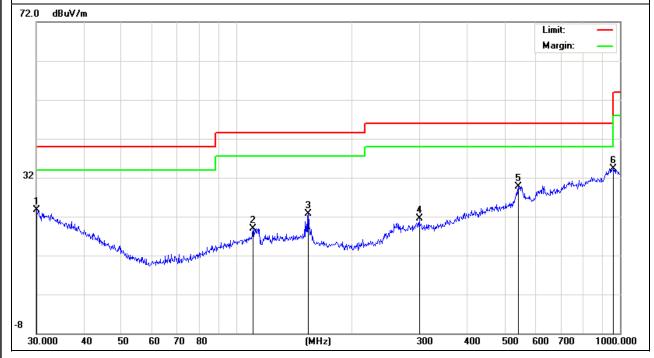


EUT:	The remote control transmitter	Model Name :	BFT-4
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 6 V from battery
Test Mode :	TX	Polarization :	Horizontal

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
30.0179	5.33	18.33	23.66	40.00	-16.34	QP
110.1816	7.58	11.42	19.00	43.50	-24.50	QP
153.7384	11.27	11.43	22.70	43.50	-20.80	QP
299.3158	6.87	14.54	21.41	46.00	-24.59	QP
543.2740	6.34	23.46	29.80	46.00	-16.20	QP
958.7943	6.69	27.65	34.34	46.00	-11.66	QP

Remark:



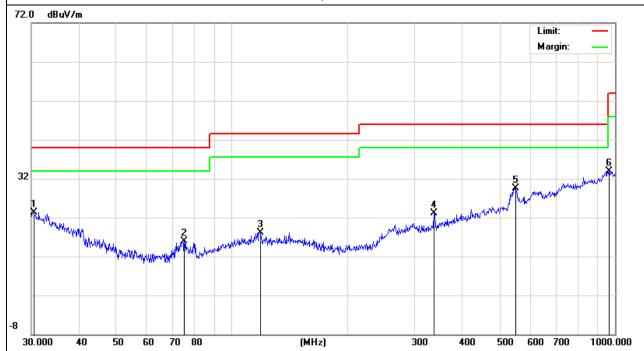


EUT:	The remote control transmitter	Model Name :	BFT-4
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 6 V from battery
Test Mode :	TX	Polarization :	Vertical

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
30.4237	5.19	18.13	23.32	40.00	-16.68	QP
75.1821	9.22	6.78	16.00	40.00	-24.00	QP
118.6012	6.45	11.75	18.20	43.50	-25.30	QP
337.2155	8.05	15.05	23.10	46.00	-22.90	QP
550.9479	6.27	23.27	29.54	46.00	-16.46	QP
965.5421	6.19	27.76	33.95	54.00	-20.05	QP

Remark:





3.4.7 TEST RESULTS (ABOVE 1000 MHZ)

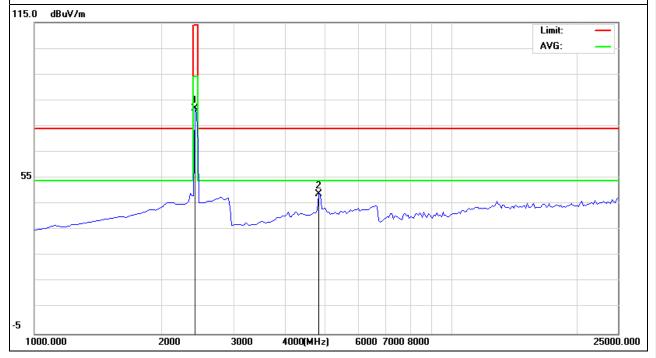
EUT:	The remote control transmitter	Model Name :	BFT-6
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 6 V from battery
Test Mode :	TX /2402MHz	Polarization :	Horizontal

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	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
Ī	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
	2402.000	94.72	-12.94	81.78	114	-32.22	peak
	2402.000	86.54	-12.94	73.6	94	-20.4	Av
	4807.624	52.27	-3.54	48.73	74	-25.27	peak
	4807.624	44.97	-3.54	41.43	54	-12.57	Av

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





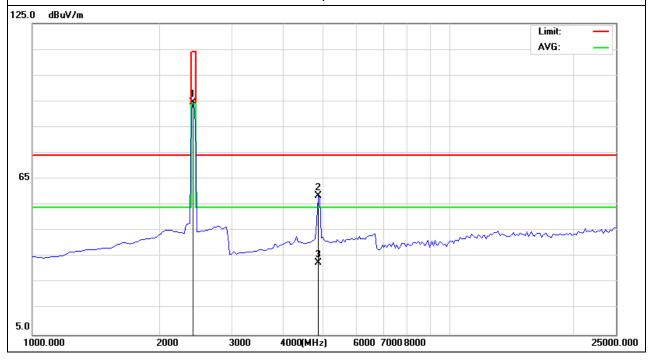
EUT:	The remote control transmitter	Model Name :	BFT-6
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 6V from battery
Test Mode :	TX /2402MHz	Polarization :	Vertical

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2402.000	107.57	-12.94	94.63	114	-19.37	peak
2402.000	96.86	-12.94	83.92	94	-10.08	Av
4805.619	62.14	-3.54	58.60	74	-15.4	peak
4805.619	36.25	-3.54	32.71	54	-21.29	Av

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





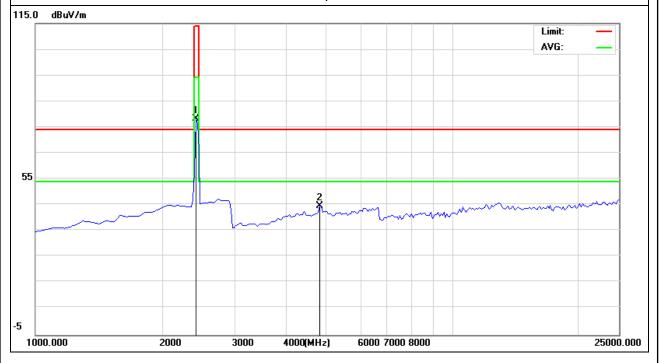
EUT:	The remote control transmitter	Model Name :	BFT-6
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 6V from battery
Test Mode :	TX /2421MHz	Polarization :	Horizontal

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2421.000	91.06	-12.94	78.12	114	-35.88	peak
2421.000	83.75	-12.94	70.81	94	-23.19	Av
4842.349	48.22	-3.54	44.68	74	-29.32	peak
4842.349	40.75	-3.54	37.21	54	-16.79	Av

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





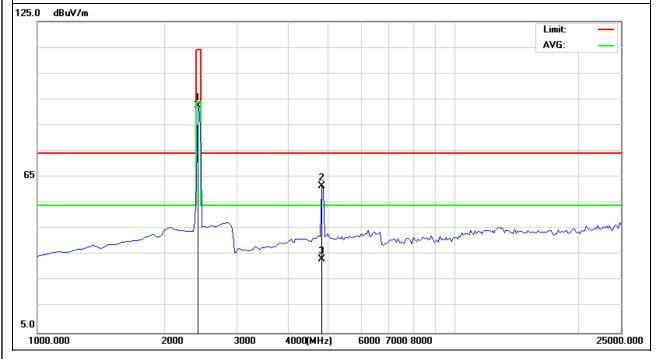
EUT:	The remote control transmitter	Model Name :	BFT-6
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 6V
Test Mode :	TX /2421MHz	Polarization :	Vertical

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Ī	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Tuna
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
	2421.000	105.39	-12.94	92.45	114	-21.55	peak
	2421.000	97.75	-12.94	84.81	94	-9.19	Av
	4843.082	65.14	-3.54	61.60	74	-12.40	peak
Ī	4843.082	36.92	-3.54	33.38	54	-20.62	Av

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





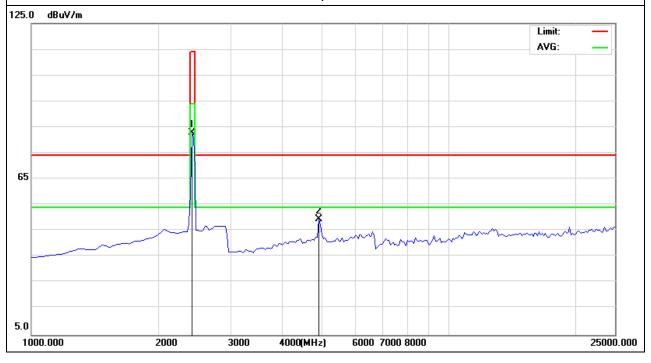
EUT:	The remote control transmitter	Model Name :	BFT-6
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 6V from battery
Test Mode :	TX /2440MHz	Polarization :	Horizontal

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2440.000	95.80	-12.94	82.86	114	-31.14	peak
2440.000	88.57	-12.94	75.63	94	-18.37	Av
4880.265	53.34	-3.77	49.57	74	-24.43	peak
4880.265	47.65	-3.77	43.88	54	-10.12	Av

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



.



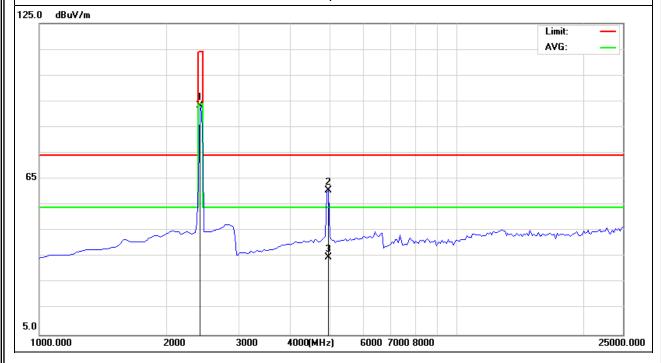
EUT:	The remote control transmitter	Model Name :	BFT-6
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 6V from battery
Test Mode :	TX /2440MHz	Polarization :	Vertical

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2440.000	106.37	-12.94	93.43	114	-20.57	peak
2440.000	98.64	-12.94	85.7	94	-8.3	Av
4880.172	64.42	-3.67	60.75	74	-13.25	peak
4880.172	38.46	-3.67	34.79	54	-19.21	Av

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





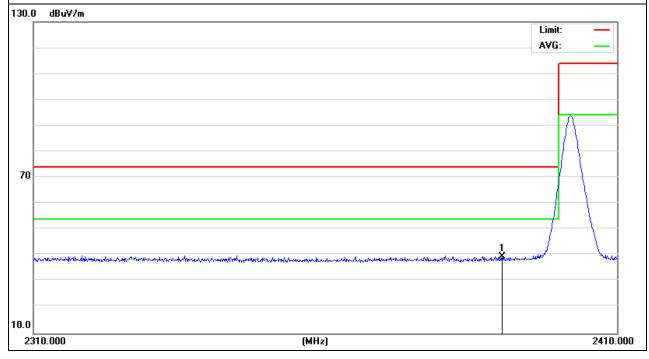
3.4.8 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

EUT:	The remote control transmitter	Model Name :	BFT-6
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 6V from battery
Test Mode :	TX /2402MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2390.000	52.64	-13.06	39.58	74	-34.42	peak
2390.000	47.86	-13.06	34.8	54	-19.2	Av

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



.



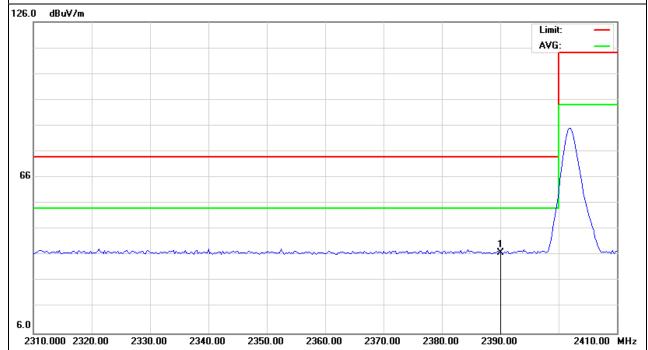
EUT:	The remote control transmitter	Model Name :	BFT-6
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 6V from battery
Test Mode :	TX /2402MHz	Polarization :	Horizontal

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2390.000	50.25	-13.06	37.19	74	-36.81	peak
2390.000	45.85	-13.06	32.79	54	-21.21	Av

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





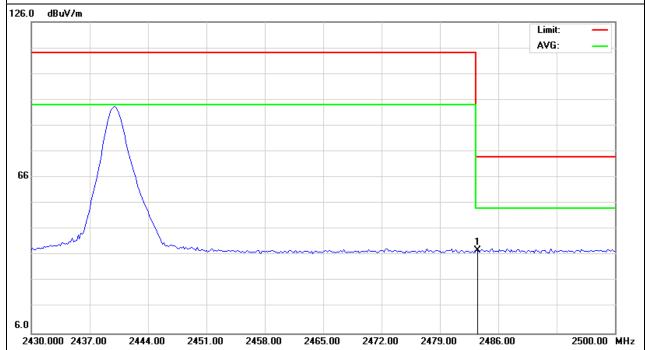
EUT:	The remote control transmitter	Model Name :	BFT-6
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 6V from battery
Test Mode :	TX /2440MHz	Polarization :	Vertical

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Frequenc	y Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	50.80	-12.78	38.02	74	-35.98	peak
2483.50	46.75	-12.78	33.97	54	-20.03	Av

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





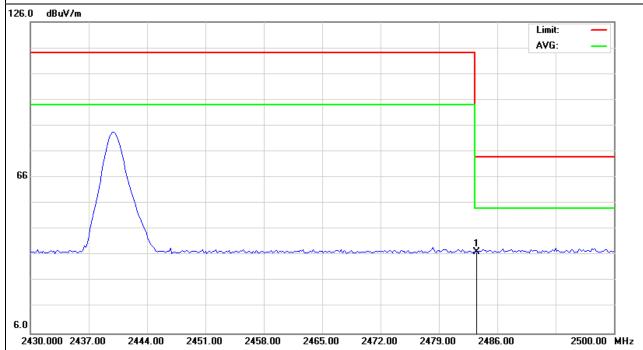
EUT:	The remote control transmitter	Model Name :	BFT-6
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 6V from battery
Test Mode :	TX /2440MHz	Polarization :	Horizontal

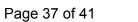
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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5000	49.98	-12.78	37.20	74	-36.80	peak
2483.5000	44.53	-12.78	31.75	54	-22.25	Av

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.







4. BANDWIDTH TEST

4.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW≧RBW, Sweep time = Auto.

4.2 DEVIATION FROM STANDARD

No deviation.

4.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER



4.4 TEST RESULTS

EUT:	The remote control transmitter	Model Name :	BFT-6
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1020 hPa	Test Power :	DC 6V from battery
Test Mode :	TX CH 1/19/38		

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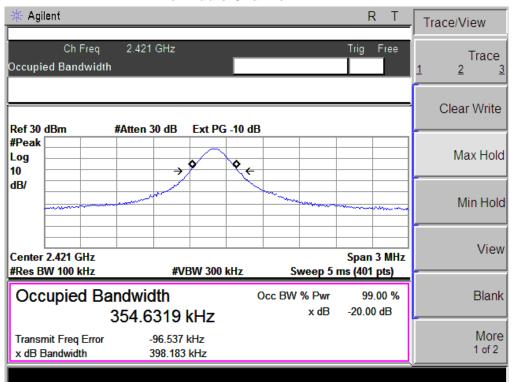
Test Channel	Frequency (MHz)	20 dBc Bandwidth (MHz)	99% Bandwidth (MHz)
CH01	2402	0.391	0.344
CH19	2421	0.398	0.355
CH38	2440	0.387	0.345

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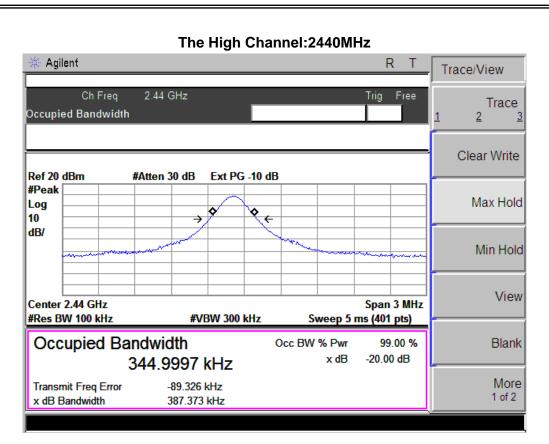


The Lowest Channel:2402MHz Agilent R T Trace/View Ch Freq 2.402 GHz Trig Free Trace Occupied Bandwidth Clear Write Ref 30 dBm #Atten 30 dB Ext PG -10 dB #Peak Max Hold Log 10 dB/ Min Hold View Center 2.402 GHz Span 3 MHz #Res BW 100 kHz **#VBW 300 kHz** Sweep 5 ms (401 pts) Occupied Bandwidth Occ BW % Pwr 99.00 % Blank x dB -20.00 dB 343.5598 kHz More -85.545 kHz Transmit Freq Error 1 of 2 x dB Bandwidth 391.818 kHz

The Middle Channel: 2421MHz







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4.5. EUT TEST PHOTO



