

Test Report of FCC CFR 47 Part 15 Subpart C

On Behalf of

DEFA AS

Blingsmoveien 30, 3540 Nesbyen, Norway

Product Name: **PlotSync** Model/Type No.: 706585

FCC ID: 2AFR4-706585

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	DEFA AS
Address of Applicant:	Blingsmoveien 30, 3540 Nesbyen, Norway
Manufacturer:	DEFA TECHNOLOGY(WUXI) CO., LTD.
Address of Manufacturer:	No. 1 standard building , Xikun road 11#,xu feng industry park, No. 83-C block, Wuxi national hi-tech development Zone, Wuxi, Jiangsu Province

General Description of E.U.T

Items	Description
EUT Description:	PlotSync
Trade Name:	DEFA
Model No.:	706585
BT Version	BT4.0 BLE
Frequency Band:	2402MHz~2480MHz
Channel Spacing:	2MHz
Number of Channels:	40 Channels
Type of Modulation:	GFSK C C A L TESTING
Antenna Type:	Internal Antenna
Antenna Gain	2.5dBi
Power Supply:	DC 12V

Remark:* The test data gathered are from the production sample provided by the manufacturer.

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1.2 Test standards

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices

KDB558074 D01 V03r03: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247

RSS-GEN Issue 4: General Requirements for Compliance of Radio Apparatus

RSS-210 Issue 8: Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment

RSS 247 Issue 1: Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

1.3 Test Facility

All measurement required was performed at laboratory of Shenzhen CTL Testing Technology Co., Ltd. Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 22/EN 55022 requirements.

FCC - Registration No.: 970318

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 970318, December, 2013.

IC Registration No.: 9618B ONGCAL TESTING

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

2.3 General Test Procedures

Conducted Emissions: The EUT is placed on the turntable, which is 0.8 m above ground plane According to the requirements in ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode.

Radiated Emissions: The EUT is a placed on as turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in ANSI C63.10-2013.

2.4 Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty	
Transmitter power conducted	+/- 0.57 dB	
Transmitter power Radiated	+/- 2.20 dB	
Conducted spurious emission 9KHz-40 GHz	+/- 2.20 dB	
Occupied Bandwidth	+/- 0.01 dB	
Power Line Conducted Emission	+/- 3.20 dB	
Radiated Emission	+/- 4.32 dB	

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

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2.5 Measure Results Explanation Example

For all conducted test items:

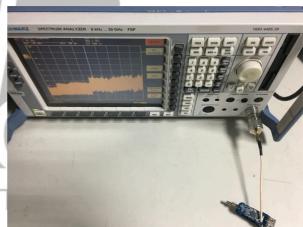
The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

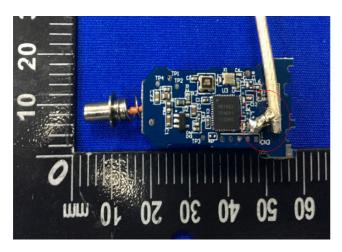
The spectrum analyzer offset is derived from RF cable less and attenuator factor. Offset= RF cable less+ attenuator factor.

Note: Using a temporary antenna connector for the EUT when the conducted measurements are performed.

Equipment	Manufacturer	Model No.	Frequency range(GHz)	Attenuation values(dBm)
Line	Zhenjiang south electronic	RG316	1-12	0.08
Connector	Zhenjiang south electronic	SMA-K/N-J	1-12	0.01







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2.6 List of Measuring Equipments Used

No.	Instrument no.	Equipment	Manufacturer	Model No.	S/N	Last Calibration	Due Calibration
1	BCT-EMC001	EMI Test Receiver	R&S	ESCI	100687	2016-8-25	2017-8-24
2	BCT-EMC002	EMI Test Receiver	R&S	ES PI	100097	2015-11-1	2016-10-31
3	BCT-EMC003	Amplifier	HP	8447D	1937A02492	2016-8-25	2017-8-24
4	BCT-EMC018	TRILOG Broadband Test- Antenna	SCHWARZBECK	VULB9163	9163-324	2016-8-25	2017-8-24
5	BCT-EMC021	Triple-Loop Antenna	EVERFINE	LLA-2	711002	2015-11-1	2016-10-31
6	BCT-EMC026	RF POWER AMPLIFIER	FRANKONIA	FLL-75	1020A1109	2016-8-25	2017-8-24
7	BCT-EMC029	6DB Attenuator	FRANKONIA	N/A	1001698	2016-8-25	2017-8-24
8	BCT-EMC032	10dB attenuator	ELECTRO- METRICS	EM-7600	836	2016-8-25	2017-8-24
9	BCT-EMC036	Spectrum Analyzer	R&S	FSP	100397	2015-11-1	2016-10-31
10	BCT-EMC037	Broadband preamplifier	SCH WARZBECK	BBV9718	9718-182	2016-8-25	2017-8-24
11	BCT-EMC039	Horn Antenna	SCHWARZBECK	BBHA 9120D	0437	2016-8-25	2017-8-24
12	BCT-EMC038	Horn Antenna	SCHWARZBECK	BBHA9170	0483	2016-8-25	2017-8-24
13	BCT-EMC050	Pulse power sensor	Anritsu	MA2411B	110553	2015-11-1	2016-10-31
14	BCT-EMC050	Power Meter	Anritsu	ML2487B	100345	2015-11-1	2016-10-31

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3. SUMMARY OF Test RESULTS

FCC/IC Rules	Description of Test	Result
FCC §15.207	AC Power Line Conducted Emission	N/A
IC RSS-GEN Clause 7.2.2	7.6 F SWEI EINE GONGGOLGG EINIGGIGH	14// (
FCC §15.247(b)	Output Power Measurement	Pass
IC RSS-247 Issue1 Clause 5.4 (4)	Output Power Measurement	F a 5 5
FCC §15.247(e)	Dower Spectral Density	Pass
IC RSS-247 Issue1 Clause 5.2 (2)	Power Spectral Density	
FCC §15.247(a)	6dBBandwidth	Pass
IC RSS-247 Issue1 Clause 5.2 (1)	99%Occupied Bandwidth	
FCC §15.247 (d)	Conducted Spurious Emission	Pass
IC RSS-247 Issue1 Clause 5.5	Conducted Spurious Emission	P d S S
FCC §15.205 and §15.209		
IC RSS-210 Clause 2.6 (Transmitter)	Radiated Spurious Emission	Pass
IC RSS-GEN Clause 6 (Receiver)		
FCC§15.247 (d) and §15.205 and §15.209	Linux atod Casinsians	Daga
IC RSS-247 Issue1 Clause 5.5	Unwanted Emissions	Pass
FCC §15.203/15.247(b)/(c)	Antonna Requirement	Pass
IC RSS-GEN Clause 7.1.4	Antenna Requirement	F a 5 5

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4. Test OF AC POWER LINE CONDUCTED EMISSION

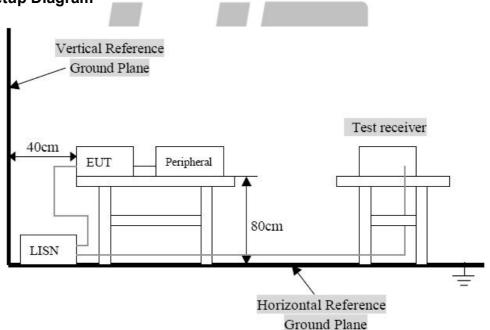
4.1 Applicable standard

Refer to FCC §15.207 and IC RSS-GEN Clause 7.2.2

For a Low-power Radio-frequency Device is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Eraguanay Banga (MHz)	Limits (dBuV)			
Frequency Range (MHz)	Quasi-Peak	Average		
0.150~0.500	66~56	56∼46		
0.500~5.000	56	46		
5.000~30.00	60	50		

4.2 Test Setup Diagram



Remark: The EUT was connected to a 120 VAC/ 60Hz power source.

4.3 Test Result

Temperature (°C) : 23~25	EUT: PlotSync	
Humidity (%RH): 45~58	M/N: 706585	
Barometric Pressure (mbar): 950~1000	Operation Condition: Tx Mode	

Note: The EUT is DC supply, Not applicable.

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5. Output Power Measurement

5.1 Applicable standard

Refer to FCC §15.247 (b) and IC RSS-247 Issue1 Clause 5.4 (4). KDB 558074 v03r03 – Section 9.1.2 PKPM1 Peak Power, Method KDB 558074 v03r03 – Section 9.2.3.2 Method AVGPM-G

The maximum permissible conducted output power is 1Watt.

5.2 EUT Setup



5.3 Test Equipment List and Details

See section 2.5.

5.4 Test Procedure

Method PKPM1 (Peak Power Measurement)

Peak power measurement were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor, The pulse senor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was than or equal to 50MHz.

Method AVGPM-G (Average Power Measurement)

Average power measurement were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor, The pulse mater implemented triggering and fating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter, The trace was averaged over 100 traces to obtain the final measured average power.

5.5 Test Result

Temperature (°C) : 22~23	EUT: PlotSync		
Humidity (%RH): 50~54	M/N: 706585		
Barometric Pressure (mbar): 950~1000	Operation Condition: Tx Mode		

GFSK mode

Channel	Channel Frequency (MHz)	Average Power (dBm)	Peak Power (dBm)	Peak Power Limit (dBm)	Pass / Fail
Low	2402	-9.33	-4.27	30	PASS
Middle	2440	-7.91	-3.68	30	PASS
High	2480	-7.62	-3.22	30	PASS

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6. Test of Peak Power Spectral Density

6.1 Applicable standard

Refer to FCC §15.247 (e) and IC RSS-247 Issue1 Clause 5.2 (2).

KDB 558074v03r03 - Section 10.2 Method PKPSD

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

6.2 EUT Setup



6.3 Test Equipment List and Details

See section 2.5.

6.4 Test Procedure

The transmitter output was connected to the spectrum analyzer and the parameter was set as below:

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW \geq 3 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

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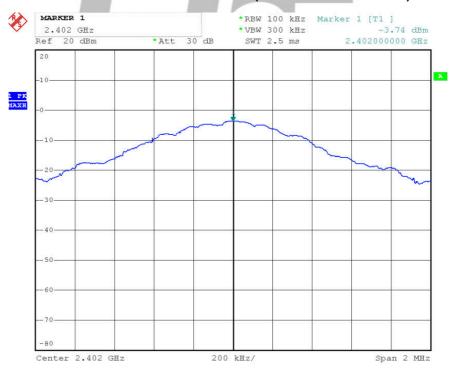
6.5 Test Result

Temperature ($^{\circ}$) : 22~23	EUT: PlotSync
Humidity (%RH): 50~54	M/N: 706585
Barometric Pressure (mbar): 950~1000	Operation Condition: Tx Mode

GFSK mode

Channel	Channel Frequency (MHz)	Frequency in 100KHz RBW 100K		Final RF Power Level in 3KHz RBW (dBm)	Maximum Limit (dBm)	Pass / Fail
Low	2402	-3.74	-15.22	-18.73	8	PASS
Middle	2440	-2.34	-15.22	-18.16	8	PASS
High	2480	-1.87	-15.22	-17.02	8	PASS

POWER SPECTRAL DENSITY (GFSK MODE CH Low)



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POWER SPECTRAL DENSITY (GFSK MODE CH Mid)



POWER SPECTRAL DENSITY (GFSK MODE CH High)



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7. Test of 6dB Bandwidth

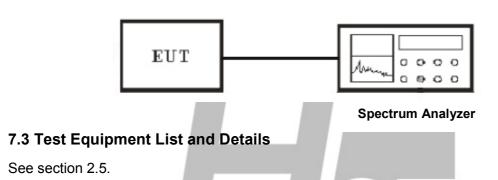
7.1 Applicable standard

Refer to FCC §15.247 (a) (2) and IC RSS-247 Issue1 Clause 5.2 (1).

KDB558074 v03r03 - Section 8.2 Option 2

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

7.2 EUT Setup



7.4 Test Procedure

The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB. The transmitter output was connected to a spectrum analyzer and the parameter was set as below:

- 1. Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

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7.5 Test Result

Temperature (°C): 22~23	EUT: PlotSync
Humidity (%RH): 50~54	M/N: 706585
Barometric Pressure (mbar): 950~1000	Operation Condition: Tx Mode

GFSK mode

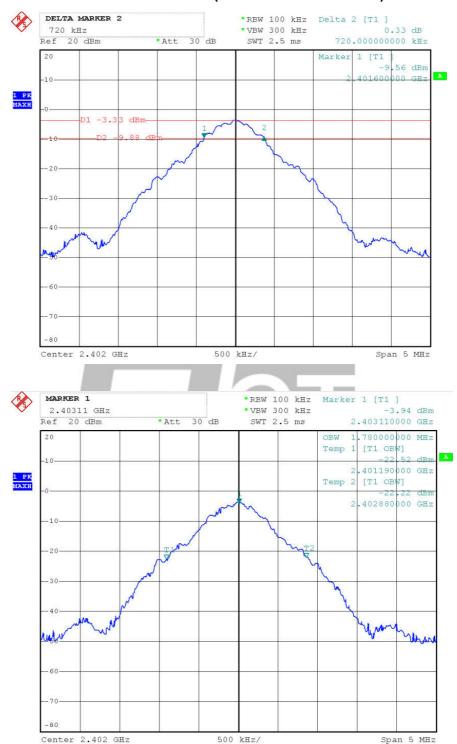
Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass / Fail
Low	2402	720	500	PASS
Middle	2440	720	500	PASS
High	2480	710	500	PASS

Channel	Channel Frequency (MHz)	99%Occupy Bandwidth (KHz)	Minimum Limit (kHz)	Pass / Fail
Low	2402	1780	N/A	N/A
Middle	2440	1770	N/A	N/A
High	2480	1780 TE	N/A	N/A

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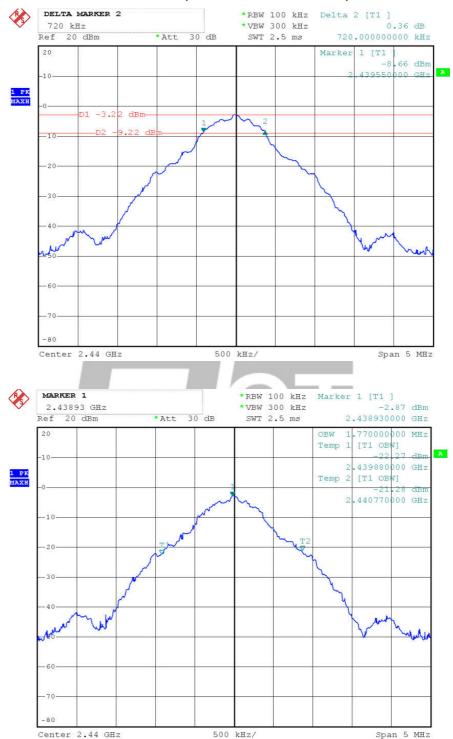
6dB BANDWIDTH (GFSK MODE CH Low)



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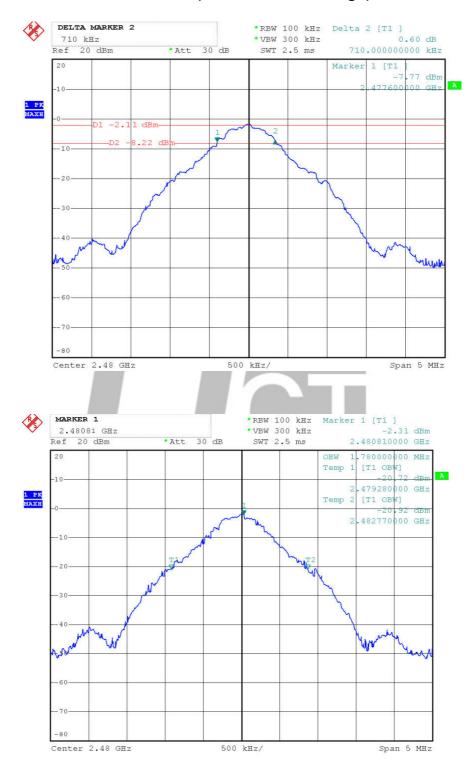
6dB BANDWIDTH (GFSK MODE CH Mid)



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6dB BANDWIDTH (GFSK MODE CH High)



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8. Test of Conducted Spurious Emission

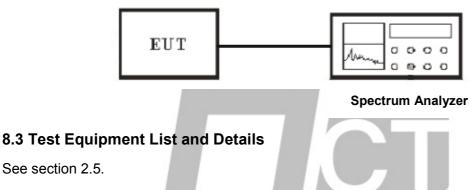
8.1 Applicable standard

Refer to FCC §15.247 (d) and IC RSS-247 Issue1 Clause 5.5.

KDB 558074 v03r03 - Section 11.3

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions that fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209.

8.2 EUT Setup



8.4 Test Procedure

The transmitter output was connected to a spectrum analyzer. The spectrum from 30 MHz to 26.5 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band. The parameter of the spectrum analyzer was set as below:

- 1. Set start frequency to DTS channel edge frequency.
- 2. Set stop frequency so as to encompass the spectrum to be examined.
- 3. Set RBW = 100 kHz.
- 4. Set VBW ≥ 300 kHz.
- 5. Detector = peak.
- 6. Trace Mode = max hold.
- 7. Sweep = auto couple.
- 8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
- 9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

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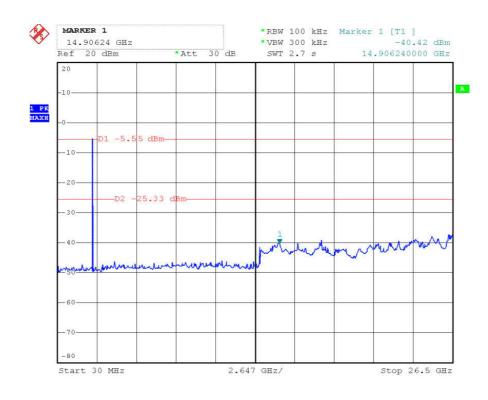
8.5 Test Result

Temperature (°C) : 22~23	EUT: PlotSync
Humidity (%RH): 50~54	M/N: 706585
Barometric Pressure (mbar): 950~1000	Operation Condition: TX Mode

PASS

GFSK mode

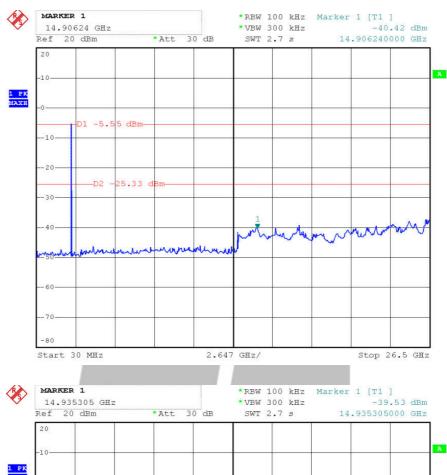
CH Low



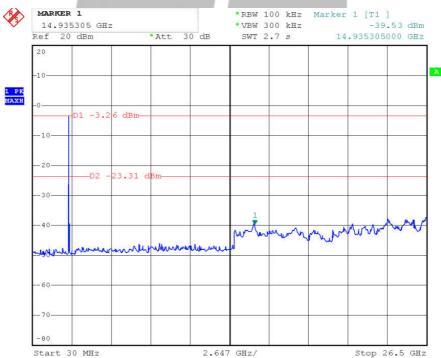
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CH High



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9. Test of Radiated Spurious Emission

9.1 Radiated Spurious Emission

Refer to FCC §15.205 and §15.209
IC RSS-210 Clause 2.6 (Transmitter) &IC RSS-GEN Clause 6 (Receiver)
KDB 558074 v03r03 – Section 12.1, 12.2.7

9.1.1 Limits

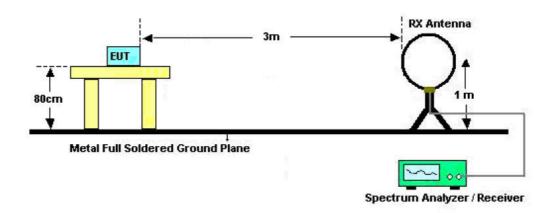
All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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

9.1.2 EUT Setup

HONGCAI TESTING

For radiated emission below 30MHz

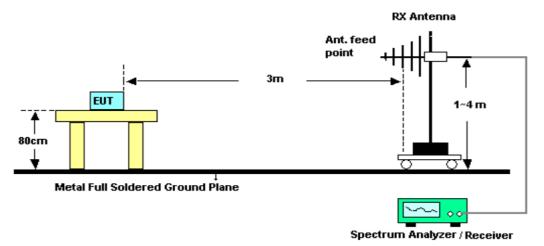


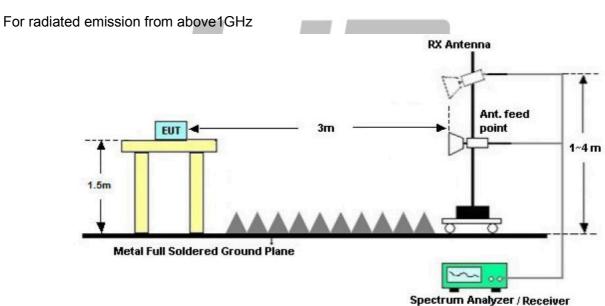
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Tel: +86 755 86337020(60Lines) Fax: +86 755 86337028 Web: www.hct-test.com



For radiated emission from 30MHz to1GHz





9.1.3 Test Procedure

KDB 558074 v03r03 - Section 12.1, 12.2.7

Quasi-Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Set RBW = 120kHz(for emissions from 30MHz-1GHz)
- 3. Detector = Quasi-Peak
- 4. Trace Mode = max hold.
- 5. Sweep = auto couple.
- 6. Trace was allowed to stabilize

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Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Set RBW = 1MHz
- 3. Set VBW = 3MHz
- 4. Detector = Peak
- 5. Trace Mode = max hold.
- 6. Sweep = auto couple.
- 7. Trace was allowed to stabilize

Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Set RBW = 1MHz
- 3. Set VBW = 3MHz
- 4. Detector = power average (RMS)
- 5. Number of measurement points=1001 (>= 2 x span/RBW)
- 6. Sweep = auto couple.
- 7. Trace (RMS) averaging was performed over at least 100 traces

NOTE:

- 1. Configure the EUT according to ANSI C63.10-2013
- 2. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization.
- 4. For band edge emission, the antenna tower was scan (from 1 M to 4 M) and then the turn table was rotated (from 0 degree to 360 degrees) to find the maximum reading.

9.1.4 Test Result

Temperature ($^{\circ}\!$	EUT: PlotSync
Humidity (%RH): 50~54	M/N: 706585
Barometric Pressure (mbar): 950~1000	Operation Condition: TX Mode

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WORST-CASE RADIATED EMISSION BELOW 30 MHz

GFSK TX (CH Low):

Frequency	Meter Reading	Antenna Factor	Cable Loss	Emission Levels	Limits	Margin	Detector Mode
(MHz)	(dBµV)	(dB/M)	(dB)	(dBµV/M)	(dB μ V/M)	(dB)	PK/QP
0.587	22.56	8.23	1.03	29.76	72.2	-42.44	QP
14.78	21.38	9.07	1.19	29.26	69.5	-40.24	QP
21.56	21.59	9.25	1.08	29.76	69.5	-39.74	QP
24.69	21.45	8.43	1.66	28.22	69.5	-41.28	QP

GFSK TX (CH Middle):

Frequency	Meter Reading	Antenna Factor	Cable Loss	Emission Levels	Limits	Margin	Detector Mode
(MHz)	(dBµV)	(dB/M)	(dB)	(dBµV/M)	(dB μ V/M)	(dB)	PK/QP
0.587	24.58	8.22	-1.01	31.79	72.2	-40.21	QP
18.43	24.74	8.17	-1.20	31.71	69.5	-37.79	QP
23.71	22.92	8.03	-1.05	29.90	69.5	-39.60	QP
24.88	24.28	7.48	-1.69	30.07	69.5	-39.43	QP

GFSK TX (CH High):

Frequency	Meter Reading	Antenna Factor	Cable Loss	Emission Levels	Limits	Margin	Detector Mode
(MHz)	(dBµV)	(dB/M)	(dB)	(dBµV/M)	(dB μ V/M)	(dB)	PK/QP
0.587	19.10	7.89	1.02	28.01	72.2	-44.19	QP
15.40	19.50	8.75	1.21	29.46	69.5	-40.04	QP
19.30	16.20	8.73	1.05	25.98	69.5	-43.52	QP
23.20	21.20	7.33	1.68	30.21	69.5	-39.29	QP

Note:

- 1. The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos. The worst case data is recorded in the report.
- 2. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB/m)
- 3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 4. The other emission levels were very low against the limit.
- 5. Margin value = Emission level.- Limit value

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WORST-CASE RADIATED EMISSION BELOW 1 GHz

GFSK TX (CH Low):

Horizontal

Ero auto nov	Motor Deading	Tansd	Limits	Marain	Detector
Frequency	Meter Reading	Talisu	Lillius	Margin	Mode
(MHz)	(dBµV)	(dB)	(dB μ V/M)	(dB)	PK/QP
36.76	27.80	13.6	40	-12.2	QP
86.26	25.60	13.8	40	-14.4	QP
101.78	27.80	16.1	43.5	-15.7	QP
187.14	25.60	13.7	43.5	-17.9	QP
549.92	32.70	20.9	46	-13.3	QP
873.90	39.00	25.4	46	-7.0	QP
N/A					

Vertical

Eroguanov	Meter Reading	Tansd	Limits	Margin	Detector
Frequency	Weter Reading	Talisu	Lillits	Wargin	Mode
(MHz)	(dBµV)	(dB)	(dB µ V/M)	(dB)	PK/QP
33.88	35.40	13.8	40	-4.6	QP
107.6	33.70	15.5	43.5	-9.8	QP
121.18	36.00	13.4	43.5	-7.5	QP
134.76	37.60	11.8	43.5	-5.9	QP
148.34	36.10	11.6	43.5	-7.4	QP
922.40	38.50	25.9	TF \$46 N (-7.5	QP
N/A		00/11			

GFSK TX (CH Middle):

Horizontal

Frequency	Motor Dooding	Tonad	Limits	Marain	Detector
Frequency	Meter Reading	Tansd	Limits	Margin	Mode
(MHz)	(dBµV)	(dB)	(dB µ V/M)	(dB)	PK/QP
36.78	27.82	13.62	40	-12.18	QP
86.28	25.62	13.82	40	-14.38	QP
101.8	27.82	16.12	43.5	-15.68	QP
187.16	25.62	13.72	43.5	-17.88	QP
549.94	32.72	20.92	46	-13.28	QP
873.92	39	25.4	46	-7	QP
N/A					

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Vertical

Eroguenov	Motor Pooding	Tonad	Tansd Limits Margin		Detector
Frequency	Meter Reading	Talisu	Lillits	Iviargiii	Mode
(MHz)	(dBµV)	(dB)	(dB µ V/M)	(dB)	PK/QP
33.84	35.36	13.76	40	-4.64	QP
107.56	33.66	15.46	43.5	-9.84	QP
121.14	35.96	13.36	43.5	-7.54	QP
134.72	37.56	11.76	43.5	-5.94	QP
148.3	36.06	11.56	43.5	-7.44	QP
922.36	38.46	25.86	46	-7.54	QP
N/A					

GFSK TX (CH High):

Horizontal

Horizontal					Detector
Frequency	Meter Reading	Tansd	Limits	Margin	Mode
(MHz)	(dBµV)	(dB)	(dB µ V/M)	(dB)	PK/QP
36.83	27.87	13.67	40	-12.13	QP
86.33	25.67	13.87	40	-14.33	QP
101.85	27.87	16.17	43.5	-15.63	QP
187.21	25.67	13.77	43.5	-17.83	QP
549.99	32.77	20.97	46	-13.23	QP
873.97	39.07	25.47	46	-6.93	QP
N/A				J	

Vertical

Vertical	LION	COAL -	TECTINI		
Eroguenov	Motor Pooding	Tansd	Limits	Morgin	Detector
Frequency	Meter Reading	ransu	Limits	Margin	Mode
(MHz)	(dBµV)	(dB)	(dB µ V/M)	(dB)	PK/QP
33.95	35.47	13.87	40	-4.53	QP
107.67	33.77	15.57	43.5	-9.73	QP
121.25	36.07	13.47	43.5	-7.43	QP
134.83	37.67	11.87	43.5	-5.83	QP
148.41	36.17	11.67	43.5	-7.33	QP
922.47	38.57	25.97	46	-7.43	QP
N/A					

Note:

- 1. The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos. The worst case data is recorded in the report.
- 2. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB/m)
- 3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 4. The other emission levels were very low against the limit.
- 5. Margin value = Emission level.- Limit value

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WORST-CASE RADIATED EMISSION ABOVE 1 GHz

GFSK TX (CH Low)

) X1 X10 10			Channe	l Low(2402	2MHz)			
Maximum Frequency (MHz)		Pol	arity and Le	vel	Result	Limit	Margin (dBµV/m)	
(WITIZ)	Polarity	Height (m)	dB _µ V	Transd	dBµV/m	(αΒμν/ιιι)	(αΒμν/ιιι)	Mark (P/Q/A)
			46.27	-7.97	38.30	74	-35.70	Р
1385.21	Н	1	33.36	-7.97	25.39	54	-28.61	Α
			46.36	-7.97	38.39	74	-35.61	Р
1368.33	V	1	32.74	-7.97	24.77	54	-29.23	Α
			86.24	-6.47	79.77			Р
2402	Н	1	79.54	-6.47	73.07			Α
		_	84.24	-6.47	77.77			Р
2402	V	1	78.25	-6.47	71.78			Α
			41.30	0.52	41.82	74	-32.18	Р
4804	Н	1	30.27	0.52	30.79	54	-23.21	Α
			42.71	0.52	43.23	74	-30.77	Р
4804	V	1	30.22	0.52	30.74	54	-23.26	Α
			40.15	7.41	47.56	74	-26.44	Р
7206	Н	1	30.63	7.41	38.04	54	-15.96	Α
			40.15	7.41	47.56	74	-26.44	Р
7206	V	1101	30.46	7.41	37.87	54	-16.13	Α
		HUI	VGC,	4111	:2TII/	J		
11145.34								
16327.65								
25376.32								

Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier
Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

- 2. 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.
- 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW=3MHz.
- 4. The test limit distance is 3m limit

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GFSK TX (CH Middle)

			Channel	Middle (244	IOMHz)			
Maximum Frequency (MHz)		Pol Height	arity and Le Reading	Result	Limit (dBµV/m)	Margin (dΒμV/m)	Mark	
	Polarity	(m)	dΒμV	Transd	dBµV/m			(P/Q/A)
			45.43	-8.23	37.20	74	-36.80	Р
1311.67	Н	1	34.04	-8.23	25.81	54	-28.19	Α
			46.01	-8.23	37.78	74	-36.22	Р
1311.67	V	1	34.74	-8.23	26.51	54	-27.49	Α
			86.21	-6.37	79.84			Р
2440	Н	1	78.12	-6.37	71.75			Α
			85.23	-6.37	78.86			Р
2440	V	1	77.27	-6.37	70.9	-		Α
			40.77	0.75	41.52	74	-32.48	Р
4880	Н	1	30.64	0.75	31.39	54	-22.61	Α
			42.25	0.75	43.00	74	-31.00	Р
4880	V	1	31.64	0.75	32.39	54	-21.61	Α
			39.41	7.48	46.89	74	-27.11	Р
7320	Н	1	30.84	7.48	38.32	54	-15.68	Α
			40.08	7.48	47.56	74	-26.44	Р
7320	V	1	30.73	7.48	38.21	54	-15.79	Α
		НОІ	Jec	۸ ΙΤ ۵	(IT)	C		
11238.52			100	7	5	2		
16327.71								
25376.58								

Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier
Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

- 2. 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.
- 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW=3MHz.
- 4. The test limit distance is 3m limit

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GFSK TX (CH High)

			Channe	High (2480)MHz)			
Maximum Frequency (MHz)		Height	arity and Le	Result	Limit (dBµV/m)	Margin (dBµV/m)	Mark	
	Polarity	(m)	dΒμV	Transd	dBμV/m			(P/Q/A)
			45.77	-8.23	37.54	74	-36.46	Р
1321.44	Н	1	33.67	-8.23	25.44	54	-28.56	Α
			46.27	-8.23	38.04	74	-35.96	Р
1321.44	V	1	33.78	-8.23	25.55	54	-28.45	Α
			85.74	-6.28	79.46			Р
2480	Н	1	76.74	-6.28	70.46			Α
			84.27	-6.28	77.99			Р
2480	V	1	72.48	-6.28	66.20			Α
			41.07	0.97	42.04	74	-31.96	Р
4960	Н	1	30.74	0.97	31.71	54	-22.29	Α
			44.59	0.97	45.56	74	-28.44	Р
4960	V	1	31.73	0.97	32.70	54	-21.30	Α
			40.48	7.56	48.04	74	-25.96	Р
7440	Н	1	30.24	7.56	37.80	54	-16.20	Α
			39.84	7.56	47.40	74	-26.60	Р
7440	V	1	29.75	7.56	37.31	54	-16.69	Α
		HOI	VC-C	ΛΙΤΩ	ALT 2	C		
11243.58				/II_	-5111	7		
16327.45								
25376.26								

Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier
Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

- 2. 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.
- 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW=3MHz.
- 4. The test limit distance is 3m limit

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10.Test of Band Edges Emission

10.1 Applicable standard

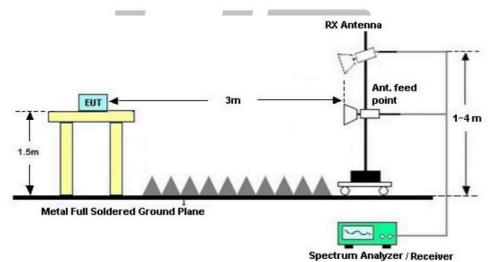
Refer to FCC §15.247 (d), IC RSS-247 Issue1 Clause 5.5

KDB558074 v03r03 - Section 11.3

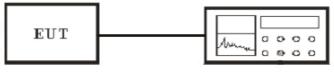
Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions that fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209.

10.2 EUT Setup

Radiated Measurement Setup



Conducted Measurement Setup



Spectrum Analyzer

10.3 Test Equipment List and Details

See section 2.5.

10.4 Test Procedure

Conducted Measurement

KDB558074 v03r03 - Section 11.3

1.Set the center frequency and span to encompass frequency range to be measured.

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- 2.Set the RBW = 100 kHz.
- 3.Set the VBW \geq 3 x RBW.
- 4.Detector = peak.
- 5.Sweep time = auto couple.
- 6.Trace mode = max hold.
- 7. Allow trace to fully stabilize.
- 8. Use the peak marker function to determine the maximum amplitude level.

Radiated Measurement

KDB 558074 v03r03 - Section 12.1, 12.2.7

Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Set RBW = 1MHz
- 3. Set VBW = 3MHz
- 4. Detector = Peak
- 5. Trace Mode = max hold.
- 6. Sweep = auto couple.
- 7. Trace was allowed to stabilize

Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Set RBW = 1MHz
- 3. Set VBW = 3MHz
- 4. Detector = power average (RMS)
- 5. Sweep = auto couple.
- 6. Trace (RMS) averaging was performed over at least 100 traces

NOTE:

- 1. Configure the EUT according to ANSI C63.10-2013
- 2. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization.
- 4. For band edge emission, the antenna tower was scan (from 1 M to 4 M) and then the turn table was rotated (from 0 degree to 360 degrees) to find the maximum reading.

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10.5 Test Result

Temperature (°C): 22~23	EUT: PlotSync
Humidity (%RH): 50~54	M/N: 706585
Barometric Pressure (mbar): 950~1000	Operation Condition: Tx Mode

PASS Radiated Test Result GFSK mode

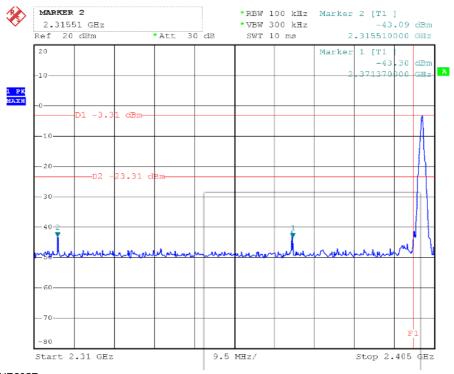
Channel	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Margin(dB)	Detector
	2408	48.72	74	-25.28	Peak
LOW	2408	36.53	54	-17.47	Average
	2480	47.76	74	-26.24	Peak
HIGH	2480	36.33	54	-17.67	Average

Note: 1. Emission Level = Emission Read Value + Correction Factor

- 2. Correction Factor) = Antenna Factor + Cable Loss- amplifier gain
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value

Test of Conducted band edges

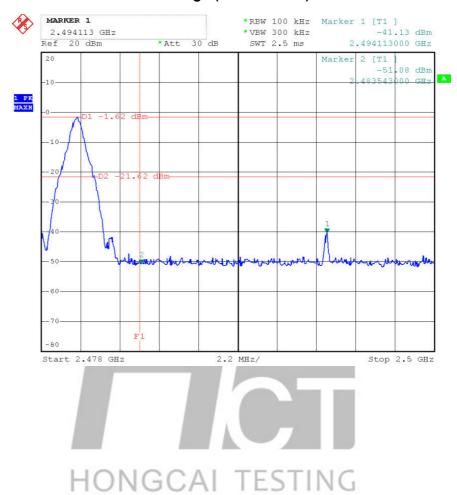
CH Low (GFSK MODE)



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CH High (GFSK MODE)



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11. ANTENNA REQUIREMENT

11.1 standard Applicable

Section 15.203 & IC RSS-GEN Clause 7.1.4

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.

Section 15.247(b)/(c) & IC RSS-GEN Clause 7.1.4

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

If the intentional radiator is used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected Construction

The antenna is designed with permanent attachment and no consideration of replacement. The antenna used in this product is complied with standard. The maximum Gain of the antenna lower than 6.0dBi and have the definite antenna Specification.

HONGCAI TESTING

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12 .Radio Frequency Exposure

12.1 Applicable Standard

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

According to §RSS-102, Devices that have a radiating element normally operating at separation distances greater than 20 cm between the user and the device shall undergo an RF exposure evaluation. SAR evaluation may be performed in lieu of an RF exposure evaluation for devices operating below 6 GHz with a separation distance of greater than 20 cm between the user and the device.

According to §1.1310, KDB447498 and §2.1093 RF exposure is required.

OET Bulletin 65 Supplement C [June 2001]: Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields

KDB447498 D01 General RF Exposure Guidance v06: RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices

12.2 Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied. These test exclusion conditions are based on source-based timeaveraged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.28 The minimum test separation distance defined in 4.1 f) is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander. To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified, typically in the SAR measurement or SAR analysis report, by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting are required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops and tablets, etc.29 '

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR,30 where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation31
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion. According to KDB447498 D01 General RF Exposure Guidance v06 Appendix A: SAR Test Exclusion Thresholds for 100 MHz-6 GHz and \leq 50 mm, Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

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MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	~
1500	12	24	37	49	61	SAR Test Exclusion
1900	11	22	33	44	54	Threshold (mW)
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
MHz	30	35	40	45	50	
111112	30	33	40	43	50	mm
150	232	271	310	349	387	mm
						nm
150	232	271	310	349	387	mm
150 300	232 164	271 192	310 219	349 246	387 274	mm
150 300 450	232 164 134	271 192 157	310 219 179	349 246 201	387 274 224	
150 300 450 835	232 164 134 98	271 192 157 115	310 219 179 131	349 246 201 148	387 274 224 164	SAR Test
150 300 450 835 900	232 164 134 98 95	271 192 157 115 111	310 219 179 131 126	349 246 201 148 142	387 274 224 164 158	SAR Test Exclusion
150 300 450 835 900 1500	232 164 134 98 95 73	271 192 157 115 111 86	310 219 179 131 126 98	349 246 201 148 142 110	387 274 224 164 158 122	SAR Test
150 300 450 835 900 1500 1900	232 164 134 98 95 73 65	271 192 157 115 111 86 76	310 219 179 131 126 98 87	349 246 201 148 142 110 98	387 274 224 164 158 122 109	SAR Test Exclusion
150 300 450 835 900 1500 1900 2450	232 164 134 98 95 73 65 57	271 192 157 115 111 86 76 67	310 219 179 131 126 98 87 77	349 246 201 148 142 110 98 86	387 274 224 164 158 122 109 96	SAR Test Exclusion
150 300 450 835 900 1500 1900 2450 3600	232 164 134 98 95 73 65 57 47	271 192 157 115 111 86 76 67 55	310 219 179 131 126 98 87 77 63	349 246 201 148 142 110 98 86 71	387 274 224 164 158 122 109 96 79	SAR Test Exclusion

12.3 RF Exposure

TEST RESULTS

Test Frequency (MHz)	Output Power (dBm)	Output Power including Power Drift (dBm)	Output Power including Power Drift (mW)	Separation Distance (mm)	Evaluated SAR test exclusion	SAR test exclusion thresholds	Verdict
2402	-4.27	-3.77	0.42	5	0.130	3	PASS
2440	-3.68	-3.18	0.48	5	0.150	3	PASS
2480	-3.22	-2.72	0.53	5	0.167	3	PASS

12.4 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB447498 D01 General RF Exposure Guidance v06.

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