

Issued for

Applicant:	Shenzhen Dayunlinks Co.,ltd			
Address:	30th Park West Zhangbei Yuanhu Road Longcheng Street Longgang District Shenzhen City. GuangDong Province			
Product Name:	Baby monitor			
Brand Name:	VAVA, miroir, Teble			
Model Name:	MR-IH003			
Series Model:	TB-IH001, MR-IH004, VA-IH006, VA-IH009			
FCC ID:	2ATJW-MR-IH003			
Issued By: Flux Compliance Service Laboratory				

Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech

Industrial, Song shan lake Dongguan
Tel: 769-27280901 Fax:769-27280901 http://www.FCS-lab.com



TEST RESULT CERTIFICATION

Applicant's Name:	Shenzhen Dayunlinks Co.,ltd
Address:	30th Park West Zhangbei Yuanhu Road Longcheng Street Longgang District Shenzhen City. GuangDong Province
Manufacture's Name:	Shenzhen Danya Technology Co.,Ltd.
Address:	Room 2801,Building C,Galaxy World Phase II, Minle Community,Minzhin Street,Longhua District,Shenzhen
Product Description	
Product Name:	Baby monitor
Model Name:	VAVA, miroir, Teble
Brand Name:	MR-IH003
Series Model:	TB-IH001, MR-IH004, VA-IH006, VA-IH009
Test Standards:	FCC Part15.247
Test Procedure:	ANSI C63.10-2013

This device described above has been tested by Flux Compliance Service Laboratory, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test....:

Date (s) of performance of tests.: 11 Apr, 2022 ~ 27 May, 2022

Date of Issue...... 27 May, 2022

Test Result.....: Pass

Tested by : Scott Shen

(Scott Shen)

Reviewed by :

Duke Our

(Duke Qian)

Approved by

Jukin

(Jack Wang)



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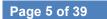


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Revision History

Rev.	Issue Date	Effect Page	Contents
00	27 May, 2022	N/A	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02

FCC Part 15.247,Subpart C					
Standard Section	I Act ItAm				
FCC 15.247 (a) (2)	6dB Bandwidth	PASS			
FCC 15.247 (b) (3)	Conducted Output Power	PASS			
FCC 15.247 (e)	Power Spectral Density	PASS			
FCC 15.247 (d)	Band-edge and Spurious Emissions (Conducted)	PASS			
FCC 15.247 (d)	Dadiated Spurious Emissions				
FCC 15.209	Radiated Spurious Emissions	PASS			
FCC 15.205					
FCC 15.247 (d)	Dadiated Dand Edge Compliance				
FCC 15.209	Radiated Band Edge Compliance	PASS			
FCC 15.205					
FCC 15.207	Power Line Conducted Emission	PASS			
FCC 15.203	Antenna requirement	PASS			
15.205	Restricted Band Edge Emission	PASS			

NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) All tests are according to ANSI C63.10-2013



1.1 TEST FACTORY

Company Name:	Flux Compliance Service Laboratory			
Address: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan				
Telephone: +86-769-27280901				
Fax:	ax: +86-769-27280901			
FOO TO LET DO	FOO To at Firm De victoration Number of 544000			

FCC Test Firm Registration Number: 514908

Designation number: CN0127

A2LA accreditation number: 5545.01

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 %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.71dB
2	Unwanted Emissions, conducted	±2.988 dB
3	Conducted Emission (9KHz-150KHz)	±4.13 dB
4	Conducted Emission (150KHz-30MHz)	±4.74 dB
5	All emissions radiated (9KHz -30MHz)	±3.1 dB
6	All emissions,radiated(<1G) 30MHz-1000MHz	± 5.2 dB
7	All emissions,radiated 1GHz -18GHz	±4.66 dB
8	All emissions,radiated 18GHz -40GHz	±4.31 dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Baby monitor		
Trade Name	VAVA, miroir, Teble		
Model Name	MR-IH003		
Series Model	TB-IH001, MR-IH004, VA-IH006, VA-IH009		
Model Difference	The above product with same circuit, PCB layout, electrical parts, materials and wiring structures, the materials of decorative accessories is same, only different appearance shape and different color.		
Channel List	20CH		
Operation frequency	2410-2477MHz		
Modulation:	☑ GFSK		
Power supply	DC 5V 1-1.5A		
Battery	DC 3.7V		
Hardware version number	V1.0		
Software version number	V1.0		
Number of samples FCS202204036			
S/N	N/A		
Connecting I/O Port(s)	Please refer to the User's Manual		

Note:

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



2.

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2410	08	2431	15	2455.5
02	2413.5	09	2434.5	16	2459
03	2417	10	2438	17	2466
04	2420	11	2441.5	18	2469.5
05	2420.5	12	2445	19	2473
06	2424	13	2448.5	20	2477
07	2427.5	14	2452		

3. Table for Filed Antenna

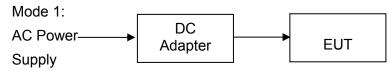
	Ant.	Brand	Model Name	Model Name Antenna Type		Gain (dBi)	NOTE
•	1	N/A	N/A	Integral Antenna	N/A	1.0 dBi	Antenna



2.2 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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.

Block diagram of EUT configuration for test



2.3 RF TEST: There is no software for testing with a fixed-frequency prototype

The test softeware was used to control EUT work in continuous TX mode, and select test channel, Wireless mode as below table

Thested mode char	nnel,and data rate information					
Mode Chanenl Frequency						
mode	31.3.1.	(MHZ)				
GFSK	CH01	2410				
GFSK	CH11	2441.5				
GFSK	CH20	2477				

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) Fully-charged battery is used during the test



2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
1	Adapter	N/A	SAN-05015	N/A	Test use only

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
1	N/A	N/A	N/A	N/A	N/A

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.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.4 EQUIPMENTS LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP 3	FCS-E001	2022. 02.10	2023. 02.09
Signal Analyzer	R&S	FSV40-N	FCS-E012	2022. 02.10	2023. 02.09
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2022. 02.10	2023. 02.09
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2022. 02.10	2023. 02.09
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2022. 02.10	2023. 02.09
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2022. 02.10	2023. 02.09
Pre-Amplifier(0.1M-3G Hz)	EMCI	EM330N	FCS-E004	2022. 02.10	2023. 02.09
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2022. 02.10	2023. 02.09
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2022. 02.10	2023. 02.09
Temperature & Humidity	HTC-1	victor	FCS-E005	2022. 02.10	2023. 02.09

Conduction Test equipment

	aipinioni				
Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	FCS-E020	2022. 02.10	2023. 02.09
LISN	R&S	ENV216	FCS-E007	2022. 02.10	2023. 02.09
LISN	ETS	3810/2NM	FCS-E009	2022. 02.10	2023. 02.09
Temperature & Humidity	HTC-1	victor	FCS-E008	2022. 02.10	2023. 02.09

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
MXA SIGNAL Analyzer	Keysight	N9020A	FCS-E015	2022. 02.10	2023. 02.09
Spectrum Analyzer	Agilent	E4447A	MY50180039	2022. 02.10	2023. 02.09
Spectrum Analyzer	R&S	FSV-40	101499	2022. 02.10	2023. 02.09
Power Sensor	Agilent	UX2021XA	FCS-E021	2022. 02.10	2023. 02.09



3. 6DB BANDWIDTH

3.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz

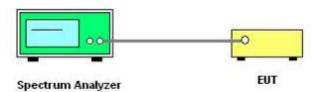
3.2 Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Set the spectrum analyzer as follows

RBW: 100kHz
VBW: 300kHz
Detector Mode: Peak
Sweep time: auto
Trace mode Max hold

(3) Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

3.3 Test setup





3.4 Test results

TestMode	Channel (MHz)	6dB Bandwidth (MHz)	Limit [MHz]	Verdict
GFSK	2410MHz	2.697	0.5	Pass
GFSK	2441.5MHz	4.027	0.5	Pass
GFSK	2477MHz	4.042	0.5	Pass

Report No.: FCS202204036W01

3.5 Original Test Data

GFSK-CH01 2410MHZ





GFSK-CH11 2441.5MHZ



GFSK-CH20 2477MHZ





4 CONDUCTED OUTPUT POWER

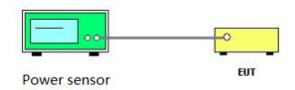
4.1 limit

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.2 test procedure

- a. Connect each EUT's antenna output to power sensor by RF cable and attenuator
- b. Measure the PK output power of each antenna port by power sensor.

4.3 TEST SETUP



4.5 test results

TestMode	Channel (MHz)	Result (dBm)	Limit (dBm)	Verdict
GFSK	2410MHz	8.23	30	Pass
GFSK	2441.5MHz	8.28	30	Pass
GFSK	2477MHz	8.31	30	Pass



5. POWER SPECTRAL DENSITY

5.1 LIMIT

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

5.2 TEST PROCEDURE

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Set the spectrum analyzer as follows:

Center frequency DTS Channel center frequency

RBW: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$

VBW: ≥ 3RBW

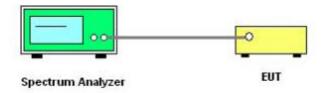
Span 1.5 times the DTS bandwidth

Detector Mode: Peak
Sweep time: auto

Trace mode Max hold

- (3) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude level within the RBW
- (4) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 TEST SETUP





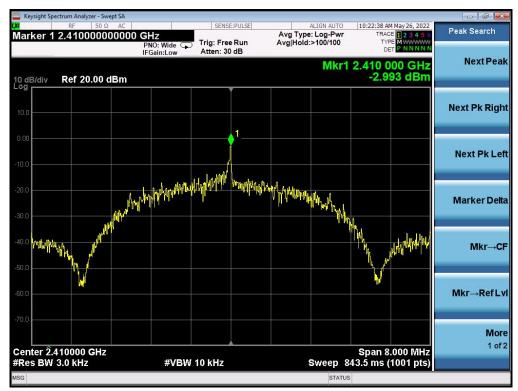
5.4 TEST RESULTS

TestMode	Channel (MHz)	Result (dBm/3KHz)	Limit (dBm/3KHz)	Verdict
GFSK	2410MHz	-2.993	8	Pass
GFSK	2441.5MHz	-2.223	8	Pass
GFSK	2477MHz	-1.156	8	Pass

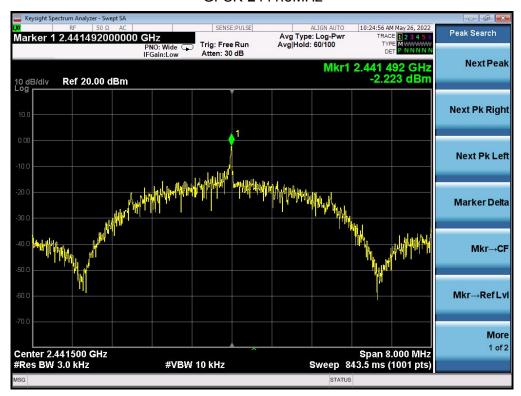
Report No.: FCS202204036W01

5.5 original test data

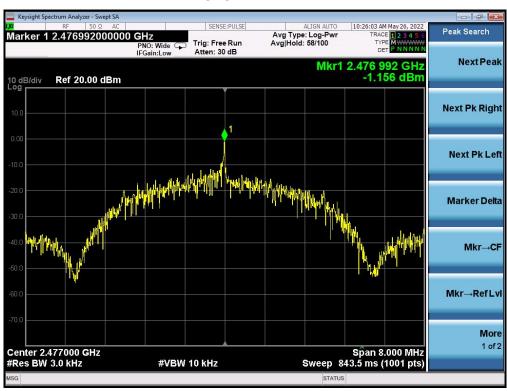
GFSK-2410MHz



GFSK-2441.5MHz



GFSK-2477MHz





6. Band edge and spurious(conducted)

6.1 LIMIT

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 30dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

6.2 TEST PROCEDURE

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Establish a reference level by using the following procedure:

Center frequency DTS Channel center

frequency

RBW: 100kHz VBW: 300kHz

Span 1.5times the DTS bandwidth

Detector Mode: Avg Sweep time: auto

Trace mode Max hold

- (3) Establish Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
- (4) Set the spectrum analyzer as follows:

RBW: 100kHz VBW: 300kHz

Span Encompass frequency range to be

measured

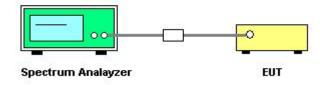
Number of measurement points ≥span/RBW

Detector Mode: Avg Sweep time: auto

Trace mode Max hold

(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

6.3 TEST SETUP







6.5 TEST RESULTS

Eut set mode	CH or Frequency	Result
GFSK	CH01	Pass
	CH20	Pass
GFSK	CH01	Pass
	CH11	Pass
	CH20	Pass

6.5 Original test data

GFSK: Band Edge, Low CH



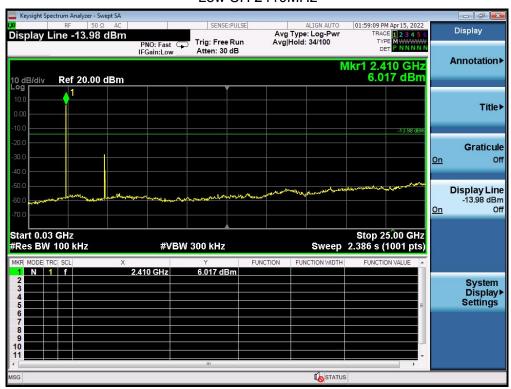




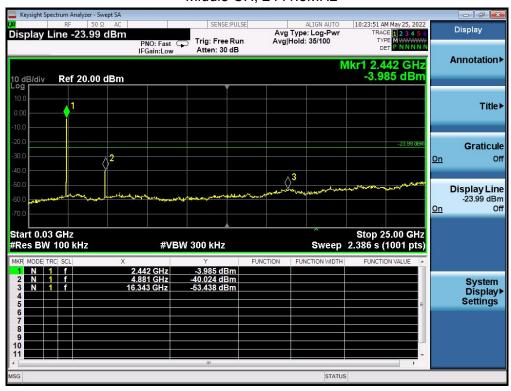


Spurious emissions (GFSK) 30MHz-25GHz

Low CH 2410MHz



Middle CH, 2441.5MHz





High CH, 2477MHz





7 RADIATED EMISSION MEASUREMENT

7.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

	Field Other a state	,
Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

	(dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

For Radiated Emission

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak/AV	
Start Frequency	1000 MHz(Peak/AV)	
Stop Frequency	10th carrier hamonic(Peak/AV)	
RB / VB (emission in restricted		
band)	PK=1MHz / 1MHz, AV=1 MHz /10 Hz	

For Band edge

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stan Fraguency	Lower Band Edge: 2310 to 2430 MHz
Start/Stop Frequency	Upper Band Edge: 2470 to 2500 MHz
RB / VB (emission in restricted band)	PK=1MHz / 1MHz, AV=1 MHz / 10 Hz



Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

7.2 TEST PROCEDURE

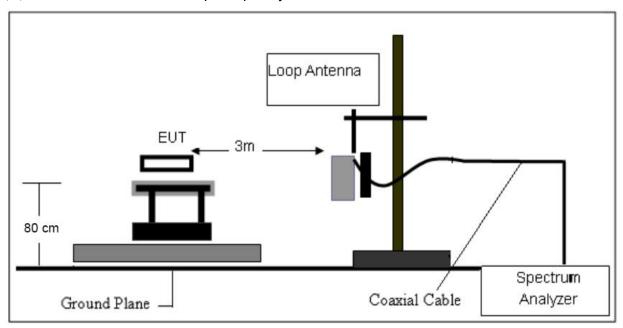
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz,and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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 QuasiPeak 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. Note:

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

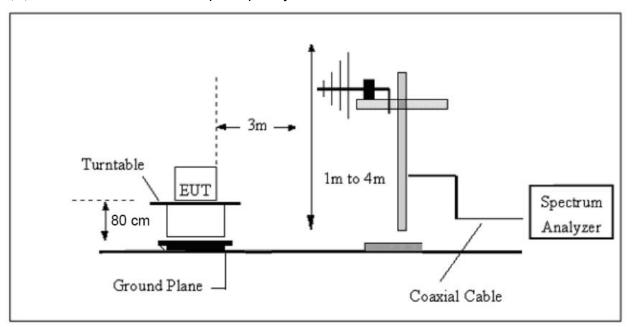


7.3 TESTSETUP

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

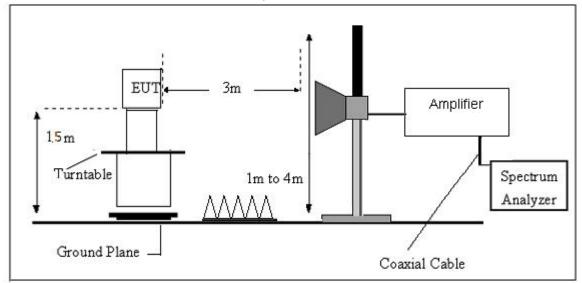


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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





7.4. TEST RESULTS

(9KHz-30MHz)

Temperature:	22.7℃	Relative Humidity:	61%
Test Voltage:	DC 3.7V	Test Mode:	GFSK

Report No.: FCS202204036W01

Freq.	Reading	Limit	Margin	State	Test Result
(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 =40 log (specific distance/test distance)(dB);

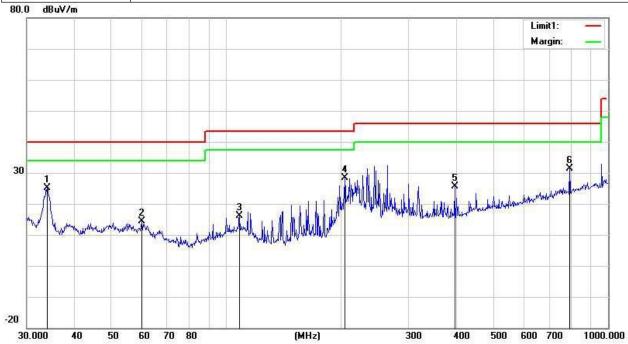
Limit line = specific limits (dBuv) + distance extrapolation factor.



7.5 (30MHZ-1000MHZ)

Temperature:	24.7°C	Relative Humidity:	61%
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	GFSK(worst)		

Report No.: FCS202204036W01



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/	(dBuV/m)	(dBuV/m)	(dB)	
			m)				
1	33.9174	40.59	-15.55	25.04	40.00	-14.96	QP
2	60.0691	31.25	-16.96	14.29	40.00	-25.71	QP
3	108.2667	33.20	-17.07	16.13	43.50	-27.37	QP
4	204.2377	43.85	-15.46	28.39	43.50	-15.11	QP
5	396.2415	38.51	-12.86	25.65	46.00	-20.35	QP
6	793.3960	36.34	-4.91	31.43	46.00	-14.57	QP

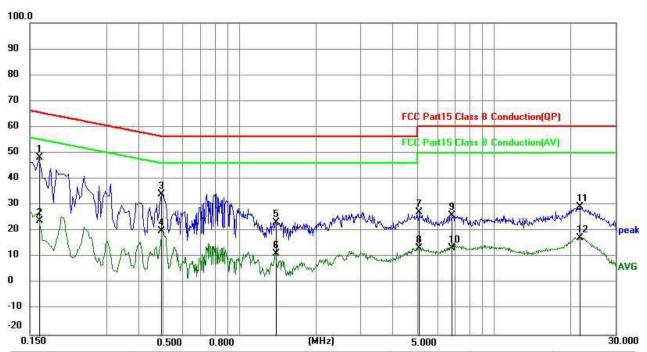
Note: 1. Margin = Result (Result = Reading + Factor)—Limit

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.



Temperature:	22.7℃	Relative Humidity:	61%
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	GFSK(worst)		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/	(dBuV/m)	(dBuV/m)	(dB)	
			m)				
1	34.1561	38.77	-15.71	23.06	40.00	-16.94	QP
2	60.0690	33.30	-16.96	16.34	40.00	-23.66	QP
3	113.7142	49.99	-17.94	32.05	43.50	-11.45	QP
4	244.2321	55.42	-15.30	40.12	46.00	-5.88	QP
5	400.4318	53.64	-12.85	40.79	46.00	-5.21	QP
6	793.3960	39.27	-4.91	34.36	46.00	-11.64	QP

Note: 1. Margin = Result (Result = Reading + Factor)—Limit

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.



7.6 (1GHZ~25GHZ) RESTRICTED BAND AND SPURIOUS EMISSION REQUIREMENTS

GFSK(Worst)-Low

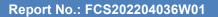
Report No.: FCS202204036W01

				Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol
4820.00	40.99	34.04	6.58	34.09	47.52	74.00	-26.48	٧
7230.00	34.27	37.11	7.73	34.50	44.61	74.00	-29.39	٧
9640.00	33.64	39.31	9.23	34.79	47.39	74.00	-26.61	٧
12050.00	*					74.00		٧
14460.00	*					74.00		٧
4820.00	46.02	34.04	6.58	34.09	52.55	74.00	-21.45	Н
7230.00	36.35	37.11	7.73	34.50	46.69	74.00	-27.31	Н
9640.00	33.41	39.31	9.23	34.79	47.16	74.00	-26.84	Н
12050.00	*					74.00		Н
14460.00	*					74.00		Н
			Av	erage Valu	е			,
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol
4820.00	29.10	34.04	6.58	34.09	35.63	54.00	-18.37	٧
7230.00	22.54	37.11	7.73	34.50	32.88	54.00	-21.12	٧
9640.00	21.39	39.31	9.23	34.79	35.14	54.00	-18.86	V
12050.00	*					54.00		٧
14460.00	*					54.00		٧
4820.00	33.74	34.04	6.58	34.09	40.27	54.00	-13.73	Н
7230.00	24.96	37.11	7.73	34.50	35.30	54.00	-18.70	Н
9640.00	21.42	39.31	9.23	34.79	35.17	54.00	-18.83	Н
	*			7		54.00	1	н
12050.00						34.00		



GFSK(Worst)-Middle

			F	Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBu∀/m)	Over Limit (dB)	Pol
4883.00	41.22	34.38	6.69	34.09	48.20	74.00	-25.80	V
7324.50	34.43	37.22	7.78	34.53	44.90	74.00	-29.10	٧
9766.00	33.78	39.46	9.35	34.80	47.79	74.00	-26.21	٧
12207.50	*		1 13			74.00		٧
14649.00	*					74.00		٧
4883.00	46.31	34.38	6.69	34.09	53.29	74.00	-20.71	Н
7324.50	36.53	37.22	7.78	34.53	47.00	74.00	-27.00	Н
9766.00	33.58	39.46	9.35	34.80	47.59	74.00	-26.41	Н
12207.50	*					74.00		Н
14649.00	*					74.00	1.5	Н
	: 3	*	Av	erage Valu	е		Ad the	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol
4883.00	29.33	34.38	6.69	34.09	36.31	54.00	-17.69	٧
7324.50	22.69	37.22	7.78	34.53	33.16	54.00	-20.84	٧
9766.00	21.52	39.46	9.35	34.80	35.53	54.00	-18.47	٧
12207.50	*					54.00		٧
14649.00	•					54.00		٧
4883.00	33.99	34.38	6.69	34.09	40.97	54.00	-13.03	Н
7324.50	25.13	37.22	7.78	34.53	35.60	54.00	-18.40	Н
9766.00	21.58	39.46	9.35	34.80	35.59	54.00	-18.41	Н
12207.50	*					54.00		Н
14649.00	*		S S		1	54.00	10 10	Н





GFSK(Worst)-High

			F	Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol
4954.00	40.62	34.72	6.79	34.09	48.04	74.00	-25.96	٧
7431.00	34.03	37.34	7.82	34.57	44.62	74.00	-29.38	٧
9908.00	33.42	39.62	9.46	34.81	47.69	74.00	-26.31	٧
12385.00	*					74.00	8	٧
14862.00	*					74.00		٧
4954.00	45.58	34.72	6.79	34.09	53.00	74.00	-21.00	Н
7431.00	36.07	37.34	7.82	34.57	46.66	74.00	-27.34	Н
9908.00	33.16	39.62	9.46	34.81	47.43	74.00	-26.57	Н
12385.00	*					74.00		Н
14862.00	*					74.00		Н
			Av	erage Valu	e	*	(c) (c)	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol
4954.00	29.00	34.72	6.79	34.09	36.42	54.00	-17.58	٧
7431.00	22.47	37.34	7.82	34.57	33.06	54.00	-20.94	٧
9908.00	21.32	39.62	9.46	34.81	35.59	54.00	-18.41	٧
12385.00	*					54.00		٧
14862.00	*					54.00		٧
4954.00	33.62	34.72	6.79	34.09	41.04	54.00	-12.96	Н
7431.00	24.88	37.34	7.82	34.57	35.47	54.00	-18.53	Н
9908.00	21.35	39.62	9.46	34.81	35.62	54.00	-18.38	Н
12385.00						54.00		Н
14862.00	*			3 9		54.00		Н

^{1.}Notes: emissions are attenuated 20dB below the limits, so it does not record. Remark:

^{1.}Factor = Antenna Factor + Cable Loss – Pre-amplifier.

^{2.}The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise





7.7 TEST RESULT

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Preamplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission evel (dBuV/m) PK	Limits (d	IBuV/m)	Result
				Low	Channe	el		in an		
	Н	2390.00	60.80	38.06	7.42	20.15	50.31	74.00	54.00	PASS
	Н	2400.00	51.76	38.06	7.42	20.15	41.27	74.00	54.00	PASS
	V	2390.00	62.10	38.06	7.42	20.15	51.61	74.00	54.00	PASS
CECK	V	2400.00	51.45	38.06	7.42	20.15	40.96	74.00	54.00	PASS
GFSK			5)	High	Chann	el				
	Н	2483.50	59.14	38.17	7.45	20.54	48.96	74.00	54.00	PASS
	Н	2485.50	51.47	38.17	7.45	20.54	41.29	74.00	54.00	PASS
	V	2483.50	60.80	38.20	7.45	20.54	50.59	74.00	54.00	PASS
	V	2485.50	53.66	38.20	7.45	20.54	43.45	74.00	54.00	PASS



8. CONDUCTED EMISSION TEST

8.1.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emissionlimit (dBuV)		
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

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

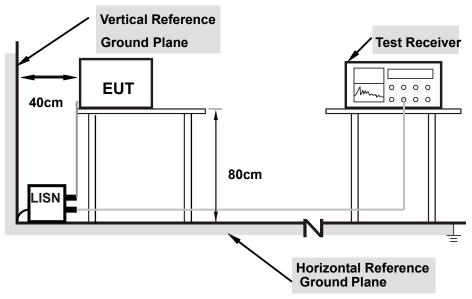
Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		



8.1.2 TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical 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.

8.1.3 TEST SETUP



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

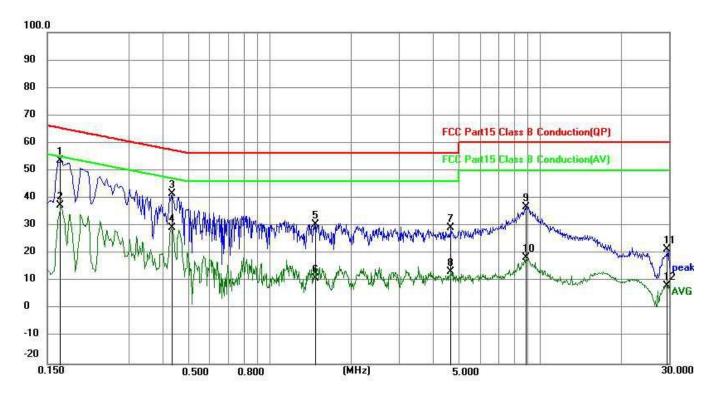
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80

from other units and other metal planes



8.1.4 TEST RESULT

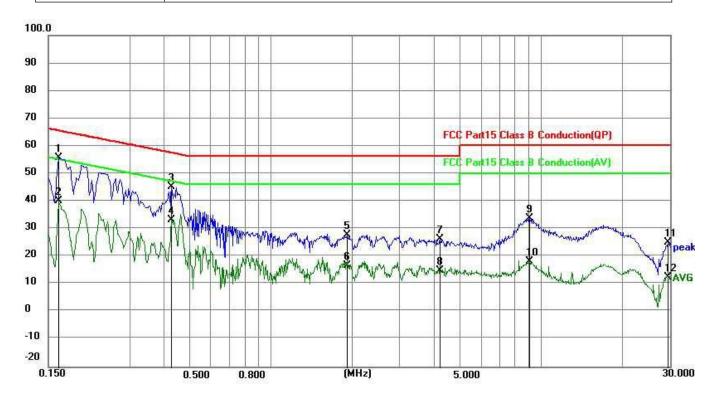
Temperature:	22.1 ℃	Relative Humidity:	56%
Test Voltage:	DC 5V by adapter	Phase:	L
Test Mode:	GFSK(worst)		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1680	44.21	9.52	53.73	65.06	11.33	QP
2	0.1680	27.82	9.52	37.34	55.06	17.72	AVG
3	0.4335	32.07	9.55	41.62	57.19	15.57	QP
4	0.4335	19.79	9.55	29.34	47.19	17.85	AVG
5	1.4685	21.11	9.57	30.68	56.00	25.32	QP
6	1.4685	1.61	9.57	11.18	46.00	34.82	AVG
7	4.6950	19.87	9.59	29.46	56.00	26.54	QP
8	4.6950	3.72	9.59	13.31	46.00	32.69	AVG
9	8.8710	27.23	9.62	36.85	60.00	23.15	QP
10	8.8710	9.00	9.62	18.62	50.00	31.38	AVG
11	29.6790	11.82	9.81	21.63	60.00	38.37	QP
12	29.6790	-1.46	9.81	8.35	50.00	41.65	AVG



Temperature:	22.1 ℃	Relative Humidity:	56%
Test Voltage:	DC 5V by adapter	Phase:	N
Test Mode:	GFSK(worst)		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1635	46.19	9.52	55.71	65.28	9.57	QP
2	0.1635	30.69	9.52	40.21	55.28	15.07	AVG
3	0.4290	35.67	9.55	45.22	57.27	12.05	QP
4	0.4290	23.79	9.55	33.34	47.27	13.93	AVG
5	1.9095	18.35	9.58	27.93	56.00	28.07	QP
6	1.9095	7.22	9.58	16.80	46.00	29.20	AVG
7	4.2315	16.78	9.63	26.41	56.00	29.59	QP
8	4.2315	5.23	9.63	14.86	46.00	31.14	AVG
9	9.0870	24.11	9.79	33.90	60.00	26.10	QP
10	9.0870	8.48	9.79	18.27	50.00	31.73	AVG
11	29.6745	15.30	9.85	25.15	60.00	34.85	QP
12	29.6745	2.82	9.85	12.67	50.00	37.33	AVG



9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

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9.2 RESULT

The antennas used for this product are Integral Antenna and other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 1.0dBi.

*****END OF THE REPORT***