47 CFR Part 15 Subpart C

Section 15.247

Test Report

Product : Transmitter

Trade Name : N/A

Model Number: 171XPR

FCC ID : ELVATRA

Prepared for

Nutek Corporation

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Remark:

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Statement of Compliance

Applicant:	Nutek Corporation
Manufacturer:	Nutek Corporation
Product:	Transmitter
Model No.:	171XPR
Tested Power Voltage:	3Vdc battery
Date of Final Test:	Jul. 11, 2017
Revision of Report:	Rev. 03
Configuration of Massur	omonte and Standard

Configuration of Measurements and Standards Used :

FCC Rules and Regulations Part 15 Subpart C

I HEREBY CERTIFY THAT: The data shown in this report were made in accordance with the procedures given in ANSI C63.10, and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Note: 1. The result of the testing report relate only to the item tested.

2. The testing report shall not be reproduced expect in full, without the written approval of IETC

Report Issued: 2017/08/03

Bili Chang

Project Engineer:

Elli Chang

Approved:

Keny Lin

Jerry Liu

1 General Information

1.1 Description of Eq	1 Description of Equipment Under Test			
Product	: Transmitter			
Model Number	: 171XPR			
Applicant	: Nutek Corporation No.167, Lane 235, Bauchiau Rd., Xindian District, New Taipei City 23145, Taiwan			
Manufacturer	: Nutek Corporation No.167, Lane 235, Bauchiau Rd., Xindian District, New Taipei City 23145, Taiwan			
Power Supply	: 3Vdc battery			
Operating Frequency	: 909.6 MHz - 918 MHz			
Channel Number	: 25 channels			
Type of Modulation	: FSK			
Antenna Description: This device uses PCB printed antenna. Antenna gain 0dBi. The antenna is integral to the device, thereby meet requirement of FCC 15.203.				
Date of Test	: Jun. 08 ~ Jul. 11, 2017			
Additional Description	 1) The test model is "171XPR" and included in this report. 2) For more detail specification about EUT, please refer to the user's manual. 			

1.2 Table for Carrier Frequencies

	FC (MHz)		FC (MHz)		FC (MHz)
CH0	909.60	CH9	912.75	CH18	915.90
CH1	909.95	CH10	913.10	CH19	916.25
CH2	910.30	CH11	913.45	CH20	916.60
CH3	910.65	CH12	913.80	CH21	916.95
CH4	911.00	CH13	914.15	CH22	917.30
CH5	911.35	CH14	914.50	CH23	917.65
CH6	911.70	CH15	914.85	CH24	918.00
CH7	912.05	CH16	915.20		
CH8	912.40	CH17	915.55		

1.3 Hopping Sequence

12, 8, 6, 2, 0, 5, 1, 7, 3, 9, 4, 10, 15, 19, 13, 11, 16, 18, 14, 20, 22, 21, 24, 23, 17

1.4 Test Facility	
Site Description	: Chamber 3 RF Test Room
Name of Firm	: Interocean EMC Technology Corp.
Company web	: http://www.ietc.com.tw
Location	: No. 5-2, Lin 1, Tin-Fu, Lin-Kou Dist., New Taipei City, Taiwan 244, R.O.C.
Site Filing	 Federal Communication Commissions – USA Registration No.: 96399 Designation No.: TW1020 (Test Firm Registration #: 651092) Industry Canada (IC) OUR FILE: 46405-4437 Registration No. (OATS 1): Site# 4437A-1 Registration No. (OATS 3): Site# 4437A-3 Registration No. (OATS 3): Site# 4437A-5 Registration No. (Chamber 3): Site# 4437A-6 Voluntary Control Council for Interference by Information Technology Equipment (VCCI) – Japan Member No.: 1349 Registration No. (Conducted Room): C-1094 Registration No. (Conducted Room): T-1562 Registration No. (OATS 1): R-1040; G-10274
Site Accreditation	 Bureau of Standards and Metrology and Inspection (BSMI) – Taiwan, R.O.C. Accreditation No.: SL2-IN-E-0026 for CNS 13438 / CISPR 22 SL2-R1-E-0026 for CNS 13439 / CISPR 13 SL2-R2-E-0026 for CNS 13439 / CISPR 13 SL2-L1-E-0026 for CNS 14115 / CISPR 15 Taiwan Accreditation Foundation (TAF) Accreditation No.: 1113 Vehicle Safety Certification Center (VSCC) Approval No.: TW16-11 TüV NORD

Certificate No: TNTW0801R

1.5 Test Equipment

Instrument	Manufacturer	Model	Serial No.	Next Cal. Date
EMI Test Receiver	R&S	ESI7	830154/002	2017/09/07
Pre-Amplifier	Burgeon	BPA-530	100216	2017/09/11
Spectrum Analyzer	R&S	FSP40	100478	2018/06/19
Horn Antenna	Schwarzbeck	BBHA9120	9120D-1051	2017/10/27
Pre-Amplifier	EMCI	EMC 051845	980110	2017/10/19
RF Cable	Jye Bao	A30N30-5005	CBL51	2017/08/02
RF Cable	Jye Bao	N30N30-5006	CBL53	2017/08/02
RF Cable	HARBOUR	27478LL142	CBL65	2017/08/02
ATTENUATOR	Fairview Calibr	SA18S5W-10	10#2	2018/06/22
Biconical Antenna	Schwarzbeck	VHA 9103 & BBA 9106	VHA 9103-2418	2017/07/13
Log Antenna	Schwarzbeck	UHALP 9108-A	9108-A 0739	2017/07/13
Measurement Software		AUDIX-	e3	

Note: The above equipments are within the valid calibration period.

1.6 Measurement Uncertainty

Item	Expended Uncertainty (k=2)
Conduction 1:	
Conducted Emission (9 kHz to 30 MHz)	2.98 dB
Chamber 3:	
Radiated Emission Test (30 MHz to 1 GHz)	4.86 dB
Radiated Emission Test (above 1 GHz)	5.12 dB
RF test:	
RF conducted measurement (9 kHz to 40GHz)	2.92 dB

1.7 Summary of Measurement

Report Clause	lest Parameter	Reference Document CFR47 Part15	Results
3	20dB Bandwidth test	§15.247(a)(1)	Pass
4	Carrier Frequency Separation test	§15.247(a)(1)	Pass
5	Number of hopping frequencies test	§15.247(a)(1)	Pass
6	Time of Occupancy (dwell time) test	§15.247(a)(1)	Pass
7	Maximum Peak output power test	§15.247(b)	Pass
8	RF Conducted spurious emission	§15.247(c)	Pass
9	RF Radiated spurious emission test	§15.205, 15.209	Pass
	Emission on the Band Edge test	§15.247(d)	N/A
	AC Power Line Conducted Emission test	§15.207	N/A

1.8 Justification

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of the frequency band were all arrive limit requirement, thus we evaluate the EUT pass the specified test.

2 **Test specifications**

2.1 Test standard

The EUT was performed according to FCC Part 15 Subpart C Section 15.247 procedure and setup followed by ANSI C63.10, 2013 requirements.

2.2 **Operation mode**

By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, then the final test was executed the worst condition and test data were recorded in this report

The EUT was operated in continuous transmission mode during all of the tests.



X axis mode

Y axis mode



Z axis mode

2.3 Test Step of EUT

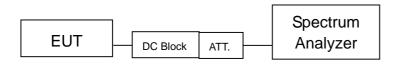
- Setup the fixture to EUT for power supplying. 2.3.1
- 2.3.2 Turn on the power of all equipment.
- 2.3.3 Let the EUT continuous transmission. Executed the test.

3 20dB Bandwidth test

3.1 Limit

For frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequencies and the average time of occupancy on any frequencies and the average time of the hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

3.2 Configuration of Measurement



3.3 Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

The 20dB bandwidth per FCC (15.247(a)(1) was measured using a 50 ohm spectrum analyzer with the resolutions bandwidth set at 10 kHz, the video bandwidth \ge RBW, and the SPAN may equal to approximately 2 to 3 time the 20dB bandwidth.

3.4 Test Result

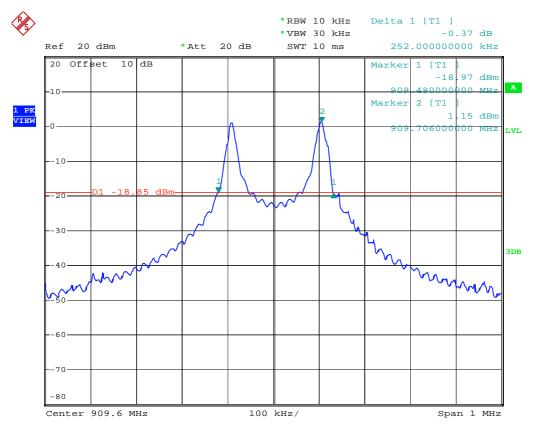
PASS.

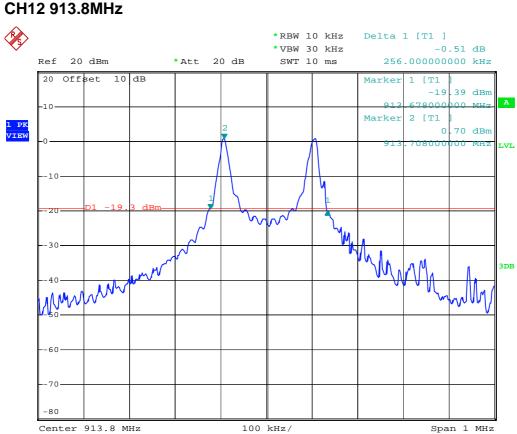
The final test data is shown as following pages.

20dB bandwidth

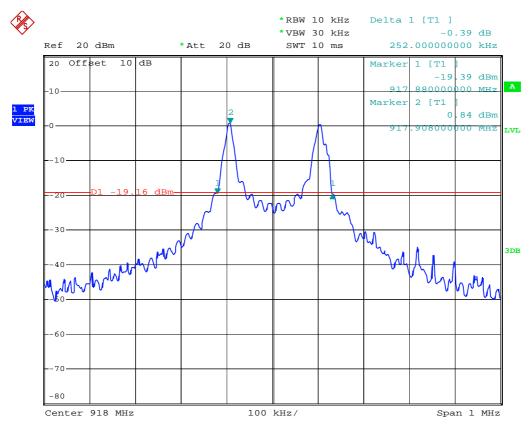
Tes	t CH	20dB Bandwidth	lineit (ld lm)	Decult
CH No.	Freq. (MHz)	(kHz)	Limit (kHz)	Result
0	909.6	252.0	250 - 500	PASS
12	913.8	256.0	250 - 500	PASS
24	918.0	252.0	250 - 500	PASS

CH0 909.6MHz





CH24 918.0MHz

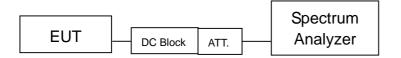


4 Carrier Frequency Separation test

4.1 Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater.

4.2 Configuration of Measurement



4.3 Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

The carrier frequency separation per FCC Part15.247(a)(1) was measured using a 50 ohm spectrum analyzer with the resolutions bandwidth set at $\geq 1\%$ of the span, the video bandwidth \geq RBW, and the SPAN was wide enough to capture the peaks of two adjacent channels.

4.4 Test Result

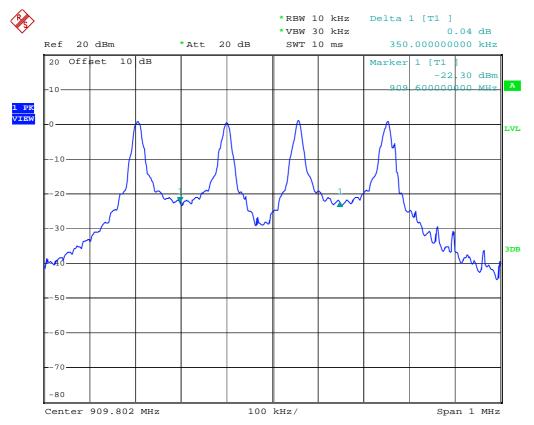
PASS.

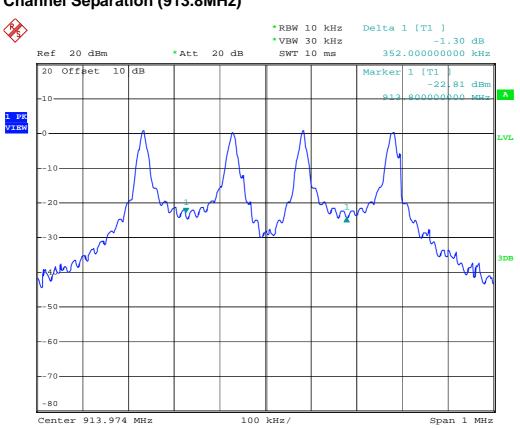
The final test data is shown as following pages.

Carrier Frequency Separation test

Modulation type	Frequency (MHz)	Separation (kHz)	Result
FSK	909.60-909.95	350.0	PASS
FSK	913.80-914.15	352.0	PASS
FSK	917.65-918.00	352.0	PASS

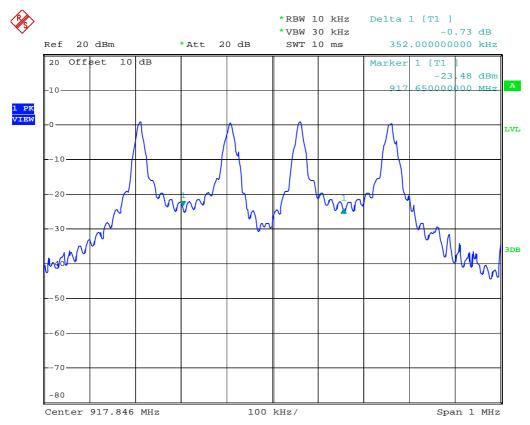
Channel Separation (909.6MHz)





Channel Separation (913.8MHz)

Channel Separation (918MHz)



5 Number of hopping frequencies test

5.1 Configuration of Measurement



5.2 Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements. The number of hopping frequencies per FCC Part15.247(a)(1) was measured using a 50 ohm spectrum analyzer with the resolutions bandwidth set at $\geq 1\%$ of the span, the video bandwidth \geq RBW, and the SPAN was the frequency band of operation.

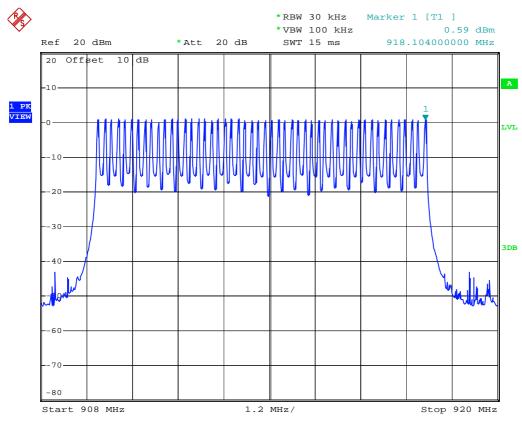
5.3 Test Result

PASS.

The final test data is shown as following pages.

Number of hopping frequencies test

Modulation	No. of Hopping CH.
FSK	25



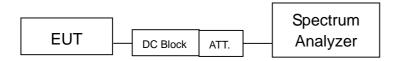
Channel Number

6 Time of Occupancy (dwell time) test

6.1 Limit

For frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequencies and the average time of occupancy on any frequencies and the average time of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

6.2 Configuration of Measurement



6.3 Test Procedure

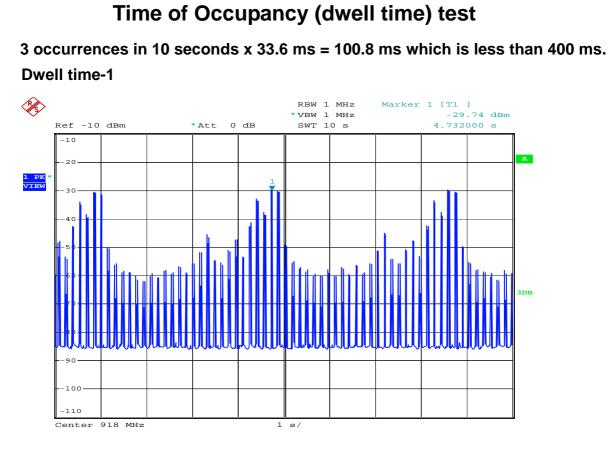
The EUT was setup to ANSI C63.10, 2013; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

According to FCC Part15.247(a)(1) the time of occupancy (dwell time) was measured using a 50 ohm spectrum analyzer with the resolutions bandwidth set at 1MHz, the video bandwidth \geq RBW and the zero span function of spectrum analyzer was enable. The EUT has its hopping function enable.

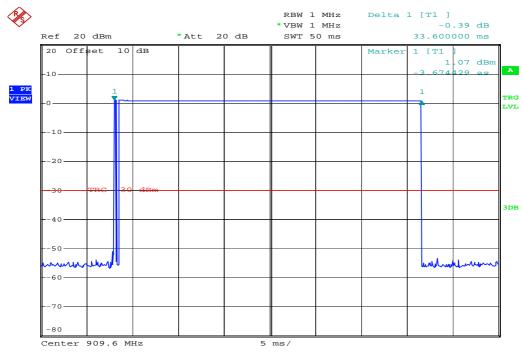
6.4 Test Result

PASS.

The final test data is shown as following pages.



Dwell time-2

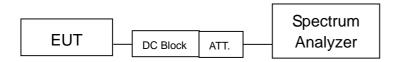


7 Maximum Output Power test

7.1 Limit

For frequency hopping systems operating in the 902–928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

7.2 Configuration of Measurement



7.3 Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements. For FCC Part 15.247(b) the power output per was measured on the EUT using a 50 ohm SMA cable connected to peak Spectrum Analyzer. Peak output power was read directly from

Spectrum Analyzer. The test was performed at 3 channels (lowest, middle and highest).

7.4 Test Result

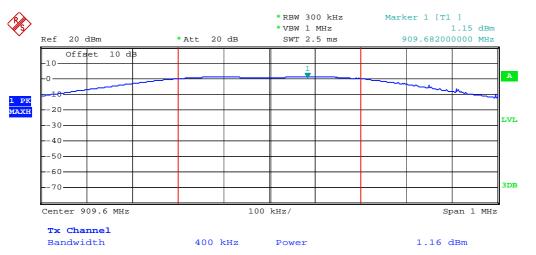
PASS.

The final test data is shown as following pages.

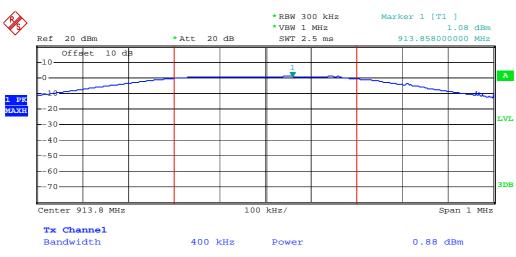
Channel	Frequency (MHz)	Maximum transmit power (dBm)	Watts	Limit (dBm)	Margin (dB)	
0	909.6	1.15	0.00130	24	-22.85	
12	913.8	1.08	0.00128	24	-22.92	
24	918.0	1.12	0.00129	24	-22.88	

Maximum output power

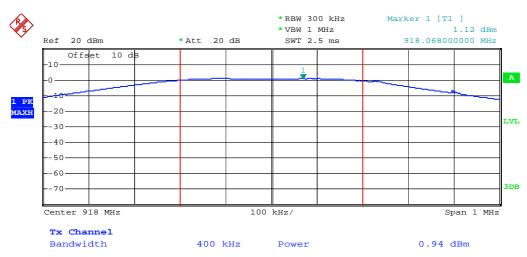
CH0 909.6MHz



CH12 913.8MHz



CH24 918.0 MHz



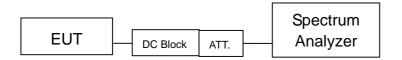
8 **RF Conducted spurious emission**

8.1 Limit

According to FCC Part 15.247(d) requirement :

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the Transmitter demonstrates compliance with the peak conducted power limits.

8.2 Configuration of Measurement



8.3 Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

RF antenna conducted spurious emissions was measured from the EUT antenna port using a 50ohm spectrum analyzer with the resolution bandwidth set at 100 kHz, and the video bandwidth set \geq 100 kHz.

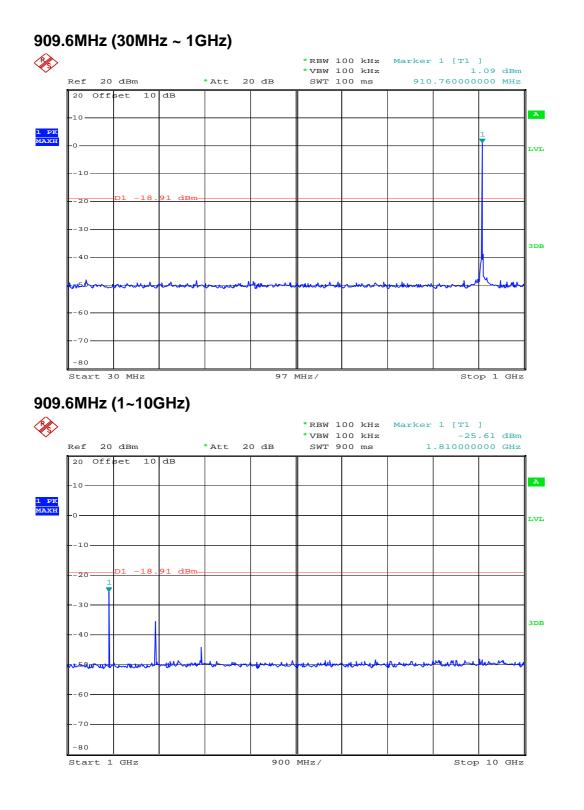
The measurements were performed from 9 kHz to 10 GHz.

8.4 Test Result

PASS.

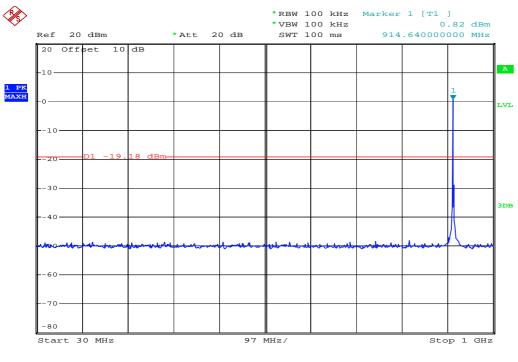
The final test data is shown as following pages.

Remark: The frequency range from 9 kHz to 30 MHz was pre-scanned and the results was 20 dB lower than the limit line which according to FCC 15.31(o) needs not be recorded.

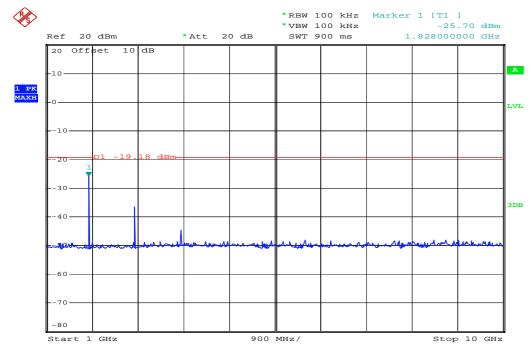


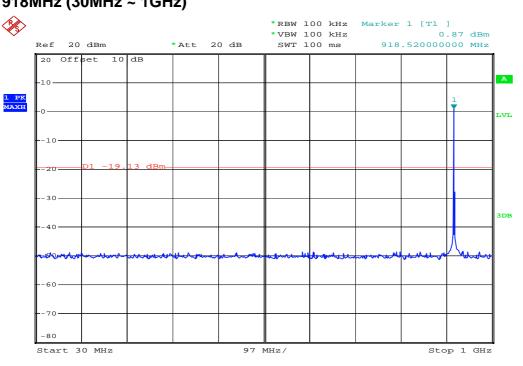
Conducted spurious emission

913.8MHz (30MHz ~ 1GHz)

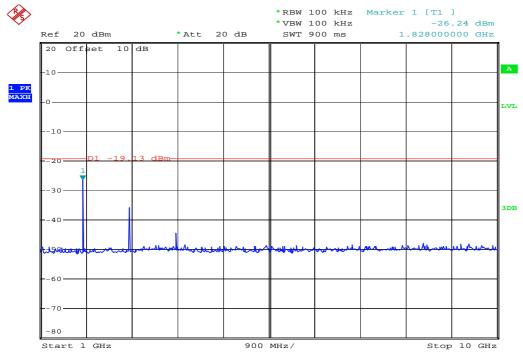


913.8MHz (1~10GHz)





918MHz (1~10GHz)



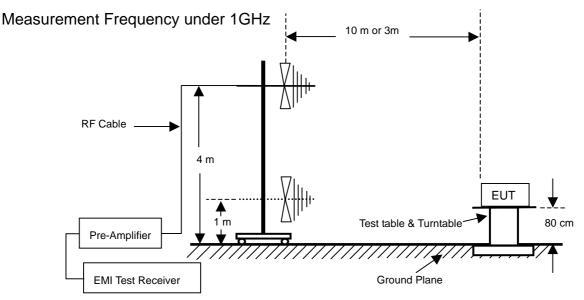
9 RF Radiated spurious emission test

9.1 Limit

For intentional radiator, the radiated emission shall comply with FCC Part 15.209(a). For intentional radiators, according to FCC Part 15.247 (a), operation under this provision is limited to frequency hopping and direct sequence spread spectrum, and the out band emission shall be comply with FCC Part 15.247 (c)

Frequency (MHz)	Field strength dB(μ V/m)	Measurement distance (meters)		
1.705~30.0	29.5	30		
30 ~ 88	40	3		
88~216	43.5	3		
216~960	46	3		
Above 960	54	3		

9.2 Configuration of Measurement



Measurement Frequency above 1GHz

1.5 m

9.3 Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

Radiated emission measurements were performed from 9kHz to 10GHz. Spectrum Analyzer set as below: For frequency range from 9kHz to 30MHz RBW=9kHz; 30MHz to 1GHz: RBW=100kHz or greater. For frequencies above 1GHz: set RBW=VBW=1MHz for peak detector and RBW=1MHz, VBW=10Hz for average detector.

The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and whole system. During the test, all cables were arranged to present worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meter and down to 1 meter.

9.4 Test Result

PASS.

The final test data is shown as following pages.

Radiated spurious emission

Test Environment

Ambient temperature : 26.3°C

Relative humidity : 46%

Radiated Emission below 1GHz

After verifying low, middle and high channel,

The worse case was found at high channel X axis.

Frequency	Antenna	Reading	Preamp	Correction Factor	Corrected Level	Limits	Margin	Det
(MHz)	Polarization	(dBuV)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Mode
132.00	Н	37.58	31.39	15.42	21.61	43.52	-21.91	PK
190.20	Н	34.00	31.22	17.76	20.54	43.52	-22.98	PK
274.90	Н	35.49	31.31	20.65	24.83	46.02	-21.19	PK
359.60	Н	39.39	31.30	18.40	26.49	46.02	-19.53	PK
402.20	Н	38.10	31.28	20.00	26.82	46.02	-19.20	PK
458.20	Н	35.58	31.30	20.89	25.17	46.02	-20.85	PK
101.40	V	41.26	31.51	11.85	21.60	43.52	-21.92	PK
199.50	V	35.96	31.20	18.41	23.17	43.52	-20.35	PK
278.50	V	34.10	31.31	21.05	23.84	46.02	-22.18	PK
347.20	V	38.56	31.31	17.95	25.20	46.02	-20.82	PK
452.10	V	36.80	31.30	20.84	26.34	46.02	-19.68	PK
499.60	V	35.81	31.32	21.13	25.62	46.02	-20.40	PK

Remark : Corrected Level = Reading + Correction Factor – Preamp Correction Factor = Antenna Factor + Cable Loss Margin = Correction Factor – Limits

The frequency range from 9 kHz to 30 MHz was pre-scanned and the results was 20 dB lower than the limit line which according to FCC 15.31(o) needs not be recorded.

Radiated spurious emission

Radiated Emission above 1GHz

Channel 0 (909.6MHz)

Frequency	Antenna	Reading	Preamp	Correction Factor	Corrected Level	Limits	Margin	Det
(MHz)	Polarization	(dBuV)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Mode
1819.2 (X Axis)	Н	69.26	51.64	32.29	49.91	54.00	-4.09	PK
1819.2 (Y Axis)	Н	77.25	51.64	32.29	57.90	74.00	-16.10	PK
1819.2 (Y Axis)	Н	70.18	51.64	32.29	50.83	54.00	-3.17	AV
1819.2 (Z Axis)	Н	78.65	51.64	32.29	59.30	74.00	-14.70	PK
1819.2 (Z Axis)	Н	70.74	51.64	32.29	51.39	54.00	-2.61	AV
2728.80	Н	72.36	51.75	35.29	55.90	74.00	-18.10	PK
2728.80	Н	67.26	51.75	35.29	50.80	54.00	-3.20	AV
3638.40	Н	68.18	51.90	37.11	53.39	74.00	-20.61	PK
3638.40	Н	61.12	51.90	37.11	46.33	54.00	-7.67	AV
4548.00	Н	57.18	52.01	39.91	45.08	54.00	-8.92	PK
5457.60	Н	56.80	52.19	41.70	46.31	54.00	-7.69	PK
6367.20	Н	56.58	52.25	44.62	48.95	54.00	-5.05	PK
*7276.8	Н	55.89	52.43	47.67	51.13	54.00	-2.87	PK
1819.2 (X Axis)	V	78.78	51.64	32.29	59.43	74.00	-14.57	PK
1819.2 (X Axis)	V	70.89	51.64	32.29	51.54	54.00	-2.46	AV
1819.2 (Y Axis)	V	72.15	51.64	32.29	52.80	74.00	-21.20	PK
1819.2 (Y Axis)	V	65.23	51.64	32.29	45.88	54.00	-8.12	AV
1819.2 (Z Axis)	V	69.45	51.64	32.29	50.10	54.00	-3.90	PK
2728.80	V	74.77	51.75	35.29	58.31	74.00	-15.69	PK
2728.80	V	68.18	51.75	35.29	51.72	54.00	-2.28	AV
3638.40	V	69.89	51.90	37.11	55.10	74.00	-18.90	PK
3638.40	V	64.48	51.90	37.11	49.69	54.00	-4.31	AV
4548.00	V	58.15	52.01	39.91	46.05	54.00	-7.95	PK
5457.60	V	56.89	52.19	41.70	46.40	54.00	-7.60	PK
6367.20	V	57.33	52.25	44.62	49.70	54.00	-4.30	PK
*7276.8	V	56.18	52.43	47.67	51.42	54.00	-2.58	PK

Remark : Corrected Level = Reading + Correction Factor – Preamp

Correction Factor = Antenna Factor + Cable Loss

Margin = Correction Factor - Limits

* Mark indicated background noise level.

Channel 12 (913.8MHz)

Frequency	Antenna	Reading	Preamp	Correction	Corrected	Limits	Margin	Det
				Factor				
(MHz)	Polarization	(dBuV)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Mode
1827.60	Н	70.14	51.63	32.32	50.83	54.00	-3.17	PK
2741.40	Н	70.60	51.75	35.32	54.17	74.00	-19.83	PK
2741.40	Н	63.32	51.75	35.32	46.89	54.00	-7.11	AV
3655.20	Н	71.78	51.90	37.16	57.04	74.00	-16.96	PK
3655.20	Н	65.36	51.90	37.16	50.62	54.00	-3.38	AV
4569.00	Н	58.18	52.01	39.96	46.13	54.00	-7.87	PK
5482.80	Н	57.23	52.20	41.74	46.77	54.00	-7.23	PK
6396.60	Н	56.79	52.26	44.75	49.28	54.00	-4.72	PK
*7310.4	Н	56.49	52.41	47.79	51.87	54.00	-2.13	PK
1827.60	V	77.55	51.63	32.32	58.24	74.00	-15.76	PK
1827.60	V	70.11	51.63	32.32	50.80	54.00	-3.20	AV
2741.40	V	71.93	51.75	35.32	55.50	74.00	-18.50	PK
2741.40	V	67.24	51.75	35.32	50.81	54.00	-3.19	AV
3655.20	V	71.77	51.90	37.16	57.03	74.00	-16.97	PK
3655.20	V	65.44	51.90	37.16	50.70	54.00	-3.30	AV
4569.00	V	61.48	52.01	39.96	49.43	54.00	-4.57	PK
5482.80	V	59.18	52.20	41.74	48.72	54.00	-5.28	PK
6396.60	V	57.48	52.26	44.75	49.97	54.00	-4.03	PK
*7310.4	V	56.69	52.41	47.79	52.07	54.00	-1.93	PK

Remark : Corrected Level = Reading + Correction Factor – Preamp Correction Factor = Antenna Factor + Cable Loss Margin = Correction Factor - Limits

* Mark indicated background noise level.

Channel 24 (918MHz)

Frequency	Antenna	Reading	Preamp	Correction Factor	Corrected Level	Limits	Margin	Det
(MHz)	Polarization	(dBuV)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Mode
1836.00	Н	68.98	51.63	32.35	49.70	54.00	-4.30	PK
2754.00	Н	74.12	51.75	35.36	57.73	74.00	-16.27	PK
2754.00	Н	66.89	51.75	35.36	50.50	54.00	-3.50	AV
3672.00	Н	68.32	51.90	37.20	53.62	74.00	-20.38	PK
3672.00	Н	62.30	51.90	37.20	47.60	54.00	-6.40	AV
4590.00	Н	56.98	52.02	40.02	44.98	54.00	-9.02	PK
5508.00	Н	56.88	52.20	41.78	46.46	54.00	-7.54	PK
6426.00	Н	57.18	52.27	44.88	49.79	54.00	-4.21	PK
*7344	Н	56.71	52.39	47.90	52.22	54.00	-1.78	PK
1836.00	V	78.11	51.63	32.35	58.83	74.00	-15.17	PK
1836.00	V	69.88	51.63	32.35	50.60	54.00	-3.40	AV
2754.00	V	74.89	51.75	35.36	58.50	74.00	-15.50	PK
2754.00	V	67.00	51.75	35.36	50.61	54.00	-3.39	AV
3672.00	V	69.20	51.90	37.20	54.50	74.00	-19.50	PK
3672.00	V	62.00	51.90	37.20	47.30	54.00	-6.70	AV
4590.00	V	57.91	52.02	40.02	45.91	54.00	-8.09	PK
5508.00	V	56.78	52.20	41.78	46.36	54.00	-7.64	PK
6426.00	V	56.97	52.27	44.88	49.58	54.00	-4.42	PK
*7344	V	56.88	52.39	47.90	52.39	54.00	-1.61	PK

Remark : Corrected Level = Reading + Correction Factor – Preamp Correction Factor = Antenna Factor + Cable Loss Margin = Correction Factor - Limits

* Mark indicated background noise level.