Report No.: F-R1210002

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Rev:None

FCC Test Report

Client Information:

Applicant: Formosa21 Inc.

Applicant add.: 8F-6, No.351, Sec. 2, Zhongshan Rd., Zhonghe Dist., New Taipei City

23504, Taiwan (R.O.C.)

EUT Information:

EUT Name: Nano RF Receiver

Model No.: RF612; RF612x; RF612-xxx (x=0~9, A~Z)

Brand Name:

FCC ID: **ULI-CYRFRX05**

Prepared By:

Asia Institute Technology (Dongguan) Limited

Add.: No.6 Binhe Road, Tianxin Village, Huangjiang,

Dongguan, Guangdong, China.

Date of Receipt: Sep. 20, 2012 Date of Test: Sep. 21 ~ Oct. 15, 2012

Date of Issue: Oct. 16, 2012 Test Result: **Pass**

Test procedure used: ANSI C63.4-2009

This device described above has been tested by Asia Institute Technology (Dongguan) Limited, and 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.

*This test report must not be used by the client to claim product endorsement by any agency of the U.S. government.

Reviewed by: Seal-Cher Test director



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2 Test Summary

2.1 Compliance with FCC Part 15 subpart C

Test	Test Requirement	Stanadard Paragraph	Result
Antenna requirement	FCC Part 15 C:2008	Section 15.203	PASS
Conduction Emissions	FCC Part 15 C:2008	Section 15.207(a)	PASS
Radiated Emissions	FCC Part 15 C:2008	Section 15.249(a) Section 15.249(d)	PASS
Band edges	FCC Part 15 C:2008	Section 15.249(d)	N/A
Occupied Bandwidth	FCC Part 15 C:2008	Section 15.215	PASS

2.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, The following measurements uncertainty Level have estimated based on ANSI C63.4:2003, the maximum value of the uncertainty as below

No. Item		Uncertainty
1	Conducted Emission Test	±1.18dB
2	Radiated Emission Test	±3.57dB

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3 Test Facility

The test facility is recognized, certified or accredited by the following organizations:

.FCC- Registration No: 248337

The 3m Semi-Anechoic Chamber, 3m/10m Open Area Test Site and Shielding Room of Asia Institute Technology (Dong guan) Limited have been registered by Federal Communications Commission (FCC) on Nov.20, 2009.

.Industry Canada(IC)-Registration No: IC6819A-1 & IC6819A-2

The 3m Semi-Anechoic Chamber and 3m/10m Open Area Test Site of Asia Institute Technology (Dongguan) Limited have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing on Nov.07, 2010.

.VCCI- Registration No: 2705

The 3m/10m Open Area Test Site and Shielding Room of Asia Institute Technology (Dongguan) Limited have been registered by Voluntary Control Council for Interference on Jan.24, 2010 and Oct. 30, 2010. The Telecommunication Ports Conducted Disturbance Measurement of Asia Institute Technology (Dongguan) Limited have been registered by Voluntary Control Council for Interference on Sep. 06, 2011.

.TUV Rhineland

Asia Institute Technology (Dongguan) Limited has been assessed on Dec.29, 2011 that it can carry out EMC tests by order and under supervision of TUV Rhineland.

.ITS- Registration No: TMPSHA031

Asia Institute Technology (Dongguan) Limited has been assessed and included in Intertek Shanghai TMP Program regarding Laboratory facilities and test equipment on Jul.22, 2011.

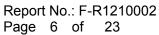
3.1 Deviation from standard None 3.2 Abnormalities from standard conditions None

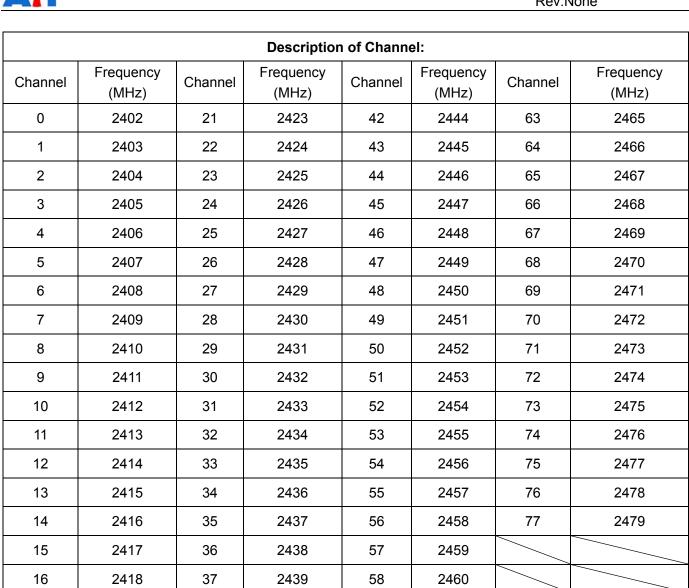
4 General Information

4.1 General Description of EUT

Manufacturer:	Formosa21 Inc.
Manufacturer	8F-6, No.351, Sec. 2, Zhongshan Rd., Zhonghe Dist., New Taipei City 23504,
Address:	Taiwan (R.O.C.)
EUT Name:	Nano RF Receiver
Model No:	RF612; RF612x; RF612-xxx (x=0~9, A~Z)
Operation frequency:	2402 MHz to 2479MHz
Channel Number:	78
Modulation	DSSS
Technology:	D000
Antenna Type:	Printed on PCB
Brand Name:	Ahead in multimedia
Serial No:	N/A
Power Supply Range:	DC 5.0V
Power Supply:	DC 5.0V from PC
Power Cord:	N/A

Model description: The only different about RF612;RF612x;RF612-xxx($x=0\sim9$, A~Z) exterior and printing. x may represent different alphabet (A-Z) or numeral (0-9).

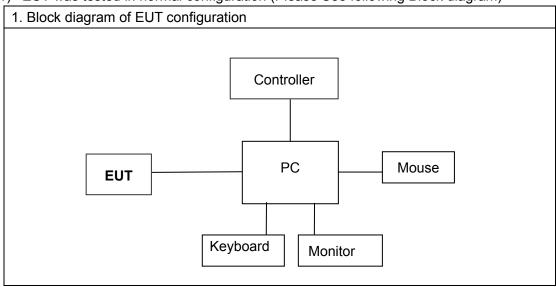






4.2 Description of Test conditions

(1) EUT was tested in normal configuration (Please See following Block diagram)



(2) E.U.T. test conditions:

15.31(e): For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

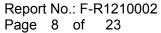
(3) Test frequencies:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and. if required. Reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over	Number of	Location in
which device operates	frequencies	the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and
Wide that 10 MHZ	3	1 near bottom

(4) Frequency range of radiated measurements:

According to the 15.33, the test range will be up to the tenth harmonic of the highest fundamental frequency





4.3 Peripheral List

No.	Equipment	Manufacturer	Model No.	Serial No.	Power cord	signal cable
1	N/A	N/A	N/A	N/A	N/A	N/A

4.4 Test Peripheral List

No.	Equipment	Manufacturer	EMC Compliance	Model No.	Serial No.	Power cord	signal cable
1	Personal computer	HP	CE 、FCC	DX2310	CNG8250MZ3	1.8m/unshielded /detachable	N/A
2	Keyboard	DELL	CE\ FCC	SK-8115	CN-ONM432- 71616-81M-OLK B	N/A	1.5m/unshielded /undetachable
3	Mouse	Microsoft	CE、FCC	X800898	30603	N/A	1.5m/unshielded /undetachable
4	Monitor	DELL	CE、FCC	T980KAC DK21SN	TWS20006045	1.8m/unshielded /detachable	1.8m/shielded /detachable
5	Controller	Cypress	N/A	N/A	N/A	N/A	N/A





5 Equipments List for All Test Items

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	Spectrum Analyzer	ADVANTEST	R3182	150900201	2011.12.30	2012.12.30
2	EMI Measuring Receiver	R&S	ESPI	1164.6407.03	2012.06.26	2013.06.25
3	Low Noise Pre Amplifier	Tsj	MLA-10K01-B01-27	1205323	2012.06.26	2013.06.26
4	Low Noise Pre Amplifier	Tsj	MLA-0120-A02-34	2648A04738	2012.06.26	2013.06.26
5	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9160	9160-3206	2012.01.06	2013.01.06
6	Broadband Horn Antenna	SCHWARZBECK	BBHA9120A	451	2012.01.06	2013.01.06
7	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2012.06.26	2013.06.26
8	EMI Test Receiver	R&S	ESCI	100124	2012.06.25	2013.06.25
9	LISN	Kyoritsu	KNW-242	8-837-4	2012.06.25	2013.06.25
10	LISN	Kyoritsu	KNW-407	8-1789-3	2012.06.25	2013.06.25
11	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2012.06.25	2013.06.25

6 Test Result

6.1 Antenna requirement

6.1.1 Standard requirement

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

6.1.2 EUT Antenna

The antenna is integrated on the main PCB and no consideration of replacement.



6.2 Conduction Emissions Measurement

6.2.1 Limit

Frequency of Emission (MHz)	Conduct	ed Limit (dΒμV)
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

Note: Decreases with the logarithm of the frequency.

6.2.2 Test procedure

EUT was placed upon a wooden test table 0.8m above the horizontal metal reference plane and 0.4m from the vertical ground plane, and it was connected to an AMN. The closest distance between the boundary of the EUT and the surface of the AMN is 0.8m. All peripherals were connected to another AMN, and placed at a distance of 10cm from each other. A spectrum and receiver was connected to the RF output port of the AMN. Both average and quasi-peak value were detected.



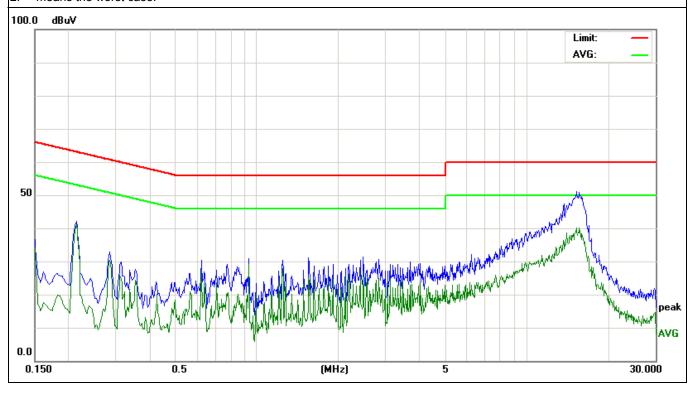
6.2.3 Test result

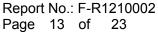
EUT:	Nano RF Receiver	Model Name. :	RF612
Temperature:	22 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2012-10-09
Test Mode:	TX	Phase :	Line
Test Voltage :	DC 5.0V from PC		

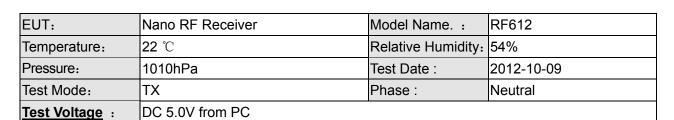
Frequency (MHz)	Meter Reading (dBµV)	Factor(dB)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Detector
0.2139	31.01	11.04	42.05	63.05	-21.00	Quasi-Peak
0.2139	30.02	11.04	41.06	53.05	-11.99	Average
0.9340	20.60	10.19	30.79	56.00	-25.21	Quasi-Peak
0.9340	18.83	10.19	29.02	46.00	-16.98	Average
*15.2459	49.73	1.36	51.09	60.00	-8.91	Quasi-Peak
15.6659	38.71	1.37	40.08	50.00	-9.92	Average

Remark:

- 1. Factor = Insertion Loss + Cable Loss.
- 2. '*' means the worst case.



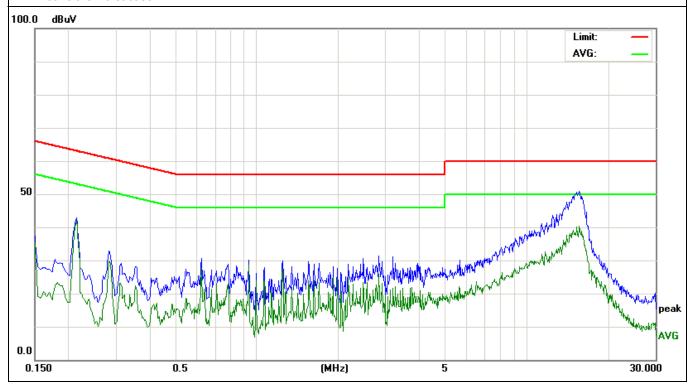




Frequency (MHz)	Meter Reading (dBµV)	Factor(dB)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Detector
0.2139	31.80	11.04	42.84	63.05	-20.21	Quasi-Peak
0.2139	30.87	11.04	41.91	53.05	-11.14	Average
0.6219	20.33	10.29	30.62	56.00	-25.38	Quasi-Peak
0.6219	17.32	10.29	27.61	46.00	-18.39	Average
*15.6699	49.48	1.37	50.85	60.00	-9.15	Quasi-Peak
15.6699	38.99	1.37	40.36	50.00	-9.64	Average

Remark:

2. '*' means the worst case.



^{1.} Factor = Insertion Loss + Cable Loss.

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6.3 Radiated Emissions Measurement

6.3.1 Limit

Fcc part15.249 (a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Frequency of Emission (MHz)	Field Strength of fundamental (dBµV/m)	Field Strength of Harmonics(dBµV/m)
902-928	94	54
2400-2483.5	94	54
5725-5875	94	54
24000-24250	108	68

Note: Field strength limits are specified at a distance of 3 meters, the above field strength limits in paragraphs of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

Fcc part15.249 (d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Erequency of Emission (MHz)	Field Str	ength	Measurement Distance
Frequency of Emission (MHz)	μV/m	dBμV/m	(meters)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

6.3.2 Test procedure

EUT was placed upon a wooden test table which was placed on the turn table 0.8m above the horizontal metal ground plane, and operating in the mode as mentioned above. A receiving antenna was placed 3m away from the EUT. During testing, turn around the turn table and move the antenna from 1m to 4m to find the maximum field-strength reading. All peripherals were placed at a distance of 10cm between each other. Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

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6.3.3 Test Result

There is not detected blow 30MHz.

EUT:	Nano RF Receiver	Model Name:	RF612			
Temperature:	23 ℃	Test Data	2012-09-28			
Pressure:	1010 hPa	Relative Humidity:	56%			
Test Mode:	TX	Test Voltage:	DC 5.0 V from PC			
Measurement Distance	3 m	Frenqucy Range	30MHz to 1GHz			
RBW/VBW	100KHz / 300KHz for spectrum, RBW=120KHz for receiver.					

(a) Antenna polarization: Horizontal

(,	(a) / interma peranautation. I for zentar							
Frequency	Reading	Correct	Measure	Limit	Margin	Detector		
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре		
	(dBuV)	(dB)	(dBuV/m)					
47.8260	27.43	-13.60	13.83	40.00	-26.17	QUASIPEAK		
92.7871	37.20	-15.05	22.15	43.50	-21.35	QUASIPEAK		
192.4185	32.91	-14.82	18.09	43.50	-25.41	QUASIPEAK		
239.9874	36.73	-11.86	24.87	46.00	-21.13	QUASIPEAK		
312.1792	35.76	-9.56	26.20	46.00	-19.80	QUASIPEAK		
*701.7607	33.64	-1.30	32.34	46.00	-13.66	QUASIPEAK		

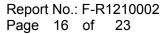
(b) Antenna polarization: Vertical

(3)/							
Frequency	Reading	Correct	Measure	Limit	Margin	Detector	
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре	
	(dBuV)	(dB)	(dBuV/m)				
*48.8429	46.00	-15.42	30.58	40.00	-9.42	Quasi-Peak	
71.5806	39.81	-17.28	22.53	40.00	-17.47	Quasi-Peak	
93.1132	37.74	-15.33	22.41	43.50	-21.09	Quasi-Peak	
216.0240	35.35	-14.40	20.95	46.00	-25.05	Quasi-Peak	
312.1792	34.24	-9.56	24.68	46.00	-21.32	Quasi-Peak	
801.7862	32.97	-0.36	32.61	46.00	-13.39	Quasi-Peak	

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss



EUT:	Nano RF Receiver	Model Name:	RF612		
Temperature:	253 ℃	Test Data	2012-09-28		
Pressure:	1010 hPa	Relative Humidity:	60%		
Test Mode:	TX	Test Voltage:	DC 5.0 V from PC		
Measurement Distance	3m	Frenqucy Range	1GHz to 18GHz		
RBW/VBW	1MHz/1MHz for Peak, 1MHz/10Hz for Average.				

(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure	Limit	Margin	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
2402.000	106.68	-5.68	101.00	114.00	-13.00	PEAK
2402.000	96.54	-5.68	90.86	94.00	-3.14	AVERAGE
2400.000	51.58	-5.70	45.88	74.00	-28.12	PEAK
2400.000	39.65	-5.70	33.95	54.00	-20.05	AVERAGE
4804.000	55.27	5.06	60.33	74.00	-13.67	PEAK
*4804.000	43.02	5.06	48.08	54.00	-5.92	AVERAGE
7206.000	42.67	7.03	49.70	74.00	-24.30	PEAK
7206.000	31.38	7.03	38.41	54.00	-15.59	AVERAGE

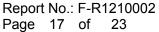
(b) Antenna polarization: Vertical

(-,	(a) / Tittorina polarization: Vortical							
Frequency	Reading	Correct	Measure	Limit	Margin	Detector		
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре		
	(dBuV)	(dB)	(dBuV/m)					
2402.000	106.47	-5.68	100.79	114.00	-13.21	PEAK		
2402.000	95.99	-5.68	90.31	94.00	-3.69	AVERAGE		
2400.000	50.74	-5.70	45.04	74.00	-28.96	PEAK		
2400.000	38.52	-5.70	32.82	54.00	-21.18	AVERAGE		
4804.000	53.66	5.06	58.72	74.00	-15.28	PEAK		
*4804.000	42.19	5.06	47.25	54.00	-6.75	AVERAGE		
7206.000	42.37	7.03	49.40	74.00	-24.60	PEAK		
7206.000	32.65	7.03	39.68	54.00	-14.32	AVERAGE		

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss Low Channel 0: 2402 MHz





(a) Antenna polarization: Horizontal

Frequency	Reading	Correct	Measure	Limit	Margin	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
2440.000	106.12	-5.36	100.76	114.0 0	-13.24	PEAK
2440.000	96.22	-5.36	90.86	94.00	-3.14	AVERAGE
4880.000	54.08	5.14	59.22	74.00	-14.78	PEAK
*4880.000	42.56	5.14	47.70	54.00	-6.30	AVERAGE
7320.000	40.88	7.52	48.40	74.00	-25.60	PEAK
7320.000	28.94	7.52	36.46	54.00	-17.54	AVERAGE

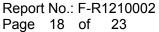
(b) Antenna polarization: Vertical

Frequency	Reading	Correct	Measure	Limit	Margin	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
2440.000	106.09	-5.36	100.73	114.00	-13.27	PEAK
2440.000	96.28	-5.36	90.92	94.00	-3.08	AVERAGE
4880.000	53.12	5.14	58.26	74.00	-15.74	PEAK
*4880.000	43.43	5.14	48.57	54.00	-5.43	AVERAGE
7320.000	42.65	7.52	50.17	74.00	-23.83	PEAK
7320.000	31.19	7.52	38.71	54.00	-15.29	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss Middle Channel 38: 2440 MHz





Frequency	Reading	Correct	Measure	Limit	Margin	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
2479.000	104.81	-5.02	99.79	114.0 0	-14.21	PEAK
2479.000	95.13	-5.02	90.11	94.00	-3.89	AVERAGE
2483.500	49.57	-4.98	44.59	74.00	-29.41	PEAK
2483.500	37.54	-4.98	32.56	54.00	-21.44	AVERAGE
4958.000	53.52	5.21	58.73	74.00	-15.27	PEAK
*4958.000	42.18	5.21	47.39	54.00	-6.61	AVERAGE
7437.000	40.59	8.04	48.63	74.00	-25.37	PEAK
7437.000	28.80	8.04	36.84	54.00	-17.16	AVERAGE

(b) Antenna polarization: Vertical

Frequency	Reading	Correct	Measure	Limit	Margin	Detector
(MHz)	Level	Factor	Level	(dBuV/m)	(dB)	Туре
	(dBuV)	(dB)	(dBuV/m)			
2479.000	107.46	-5.02	102.44	114.00	-11.56	PEAK
2479.000	95.26	-5.02	90.24	94.00	-3.76	AVERAGE
2483.500	51.12	-4.98	46.14	74.00	-27.86	PEAK
2483.500	38.46	-4.98	33.48	54.00	-20.52	AVERAGE
4958.000	52.28	5.21	57.49	74.00	-16.51	PEAK
*4958.000	41.49	5.21	46.70	54.00	-7.30	AVERAGE
7437.000	42.24	8.04	50.28	74.00	-23.72	PEAK
7437.000	31.83	8.04	39.87	54.00	-14.13	AVERAGE

Note: "" means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss High Channel 77: 2479 MHz



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6.3.4 TEST RESULTS (Restricted Bands Requirements)

EUT:	Nano RF Receiver	Model Name:	RF612		
Temperature:	25 ℃	Test Data	2012-09-28		
Pressure:	1010 hPa	Relative Humidity:	60%		
Test Mode :	TX	Test Voltage:	DC 5.0 V from PC		
Note:	1. The transmitter was setup to transmit at the lowest channel. Then the field				
	strength was measured at 2310-2390 MHz.				
	2. The transmitter was setup to transmit at the highest channel. Then the field				
	strength was measured at 2483.5-2500 MHz.				

Test	Ant.Pol.	Freq.	Reading		Ant/CF	Act		Limit	
Mode	H/V	(MHz)	Peak	AV	CF(dB)	Peak	AV	Peak	AV
			(dBuv)	(dBuv)		(dBuv/m)	(dBuv/m)	(dBuv/m)	(dBuv/m)
	Н	2390.00	50.58	38.65	-5.70	44.88	32.95	74.00	54.00
TX	V	2390.00	49.74	37.52	-5.70	44.04	31.82	74.00	54.00
	Н	2483.50	49.57	37.54	-4.98	44.59	32.56	74.00	54.00
	V	2483.50	51.12	38.46	-4.98	46.14	33.48	74.00	54.00





6.4 Band edges

6.4.1 Limit

Fcc part15.249 (d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

6.4.2 Test procedure

- (1) Connected the antenna port to the Spectrum Analyzer, set the Spectrum Analyzer as RBW=100KHz,VBW≧RBW, Sweep time=Auto, Detector Function=Peak
- (2) The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
- (3) The above procedure shall be repeated at the lowest, and the highest frequency of the stated frequency range.

6.4.3 Test Result

Please refer to report section 6.2.3 which met the requirement of limits in 15.209



6.5 Occupied Bandwidth

6.5.1 Test procedure

(1) Connected the antenna port to the Spectrum Analyzer , set the Spectrum Analyzer as RBW=100kHz,VBW≧RBW,Sweep time=Auto, Detector Function=Peak

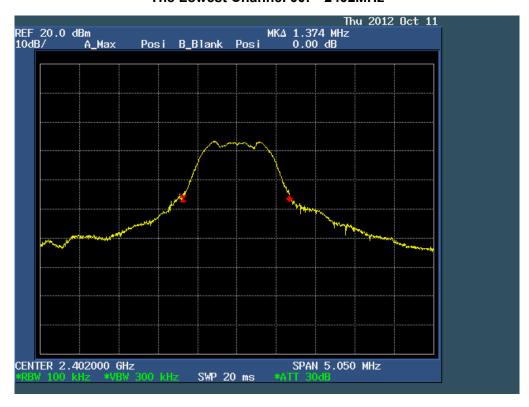
- (2) The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission.
- (3) The above procedure shall be repeated at the lowest, the middle, and the highest frequency of the stated frequency range with modulated mode. also shall be performed at different modes of operation

6.5.2 Test Result

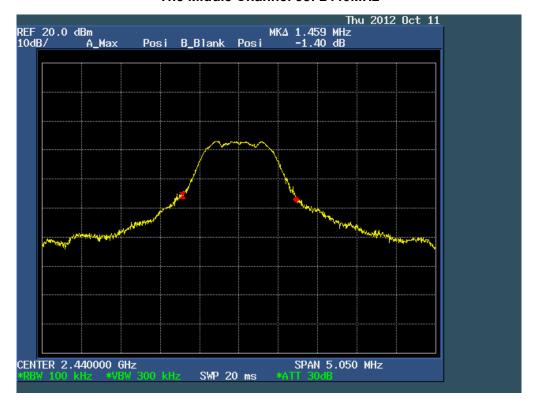
channel	Channel frenqucy (MHz)	20dB bandwidth (MHz)	Limit (MHz)	Conclusion
Low	2402	1.374	N/A	Pass
Mid	2440	1.459	N/A	Pass
High	2479	1.485	N/A	Pass



The Lowest Channel 00: 2402MHz



The Middle Channel 38: 2440MHz





The High Channel 77: 2479MHz

