

Report No. : E1/2013/90045

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FCC CERTIFICATION REPORT

Test Report No.: E1/2013/90045

Applicant: Sequans Communications

Address of Applicant: 19 LE PARVIS DE LA DEFENSE, 92073 Paris-La Défense

Cedex France

Equipment Under Test (EUT):

Name: VZ20M

Brand Name: EZLinkLTE VZ20M

Model No. : VZ20M Added Model(s) : N/A FCC ID: 2AAGMVZ20M

Standards: FCC Part 15:2013, Subpart B, Class B

Date of Receipt: Sep. 13, 2013

Date of Test : Sep. 13 ~ Oct. 01, 2013

Date of Issue : Oct. 22, 2013

Test Result : PASS

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Test By:	wisely Huang	Date	Oct. 22, 2013	
	Wisely Huang(Engineer)			
Approved By	Victor Werr	Date	Oct. 22, 2013	
•	Victor Wen(Assistant Manager)			

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Version

Version No.	Description	Date
00	Original report	Oct. 22, 2013

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1. General Information

1.1 Applicant & Manufacturer Information

Applicant: Sequans Communications

Address of Applicant: 19 LE PARVIS DE LA DEFENSE, 92073 Paris-La Défense

Cedex France

1.2 General Description of EUT

Name: VZ20M

Brand Name: EZLinkLTE VZ20M

Model No. : VZ20M Added Model(s) : N/A FCC ID: 2AAGMVZ20M Model Difference : N/A

1.3 Details of EUT

Tested Power Supply : DC 3.7V Modes/Function : Operation mode

Worst case: Operation mode

Highest Internal Source Frequency: 1755MHz

1.4 Operation Procedure

- 1. Set up EUT with support units and turn on the power of all equipment.
- 2. Pre-test the EUT in all modes by each mode, then figure the worst case out.
- 3. Tests under the normal operation pattern.

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1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LTE Base Station	R&S	WCDMA 500	N/A
Power Supply	DHA	DPS-3003	N/A

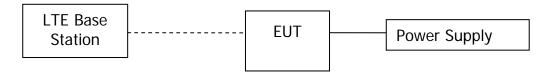
1.6 Modification List

No modification by SGS Taiwan Electronics & Communication Laboratory.

1.7 Cable List

Cable Type	Length	Shield/Non-shield
N/A	N/A	N/A

1.8 Test Set-Up Configuration



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1.9 Measurment Procedure

Conducted Emission Testing was performed according ANSI C63.4:2003 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2003 at the test site. The EUT was placed in a 0.8m high table along with the peripherals. The turn table was separated from the antenna distance 10meters. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for maximum.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Reported are maximized emission levels.

1.10 Standards Applicable for Testing

Table of tests to be carried out under FCC Part 15, Subpart B

Test Standards	Status
FCC Part 15, Subpart B	Applicable
Deviation from Standard	No Deviation

1.11 Summary of Results

Highest Emission					
Standard	Test Type	Result	Phase/Polar.	Frequency(MHz)	Margin(dB)
FCC Part 15 Subpart B	Conducted Emission	N/A Line Neutral	N/A	N/A	
			Neutral	N/A	N/A
Class B / CISPR 22 Class B	Radiated Emission	PASS	Hor.	30.5400	-5.47(QP)

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2. Radio Disturbance

2.1 Test Results

	Results
Conducted Emission	N/A
Radiated Emission	Pass

2.2 Frequency Range

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table
Highest frequency generated or Upper frequency of measurement used in the device or on which the range (MHz) device operates or tunes (MHz)

> Below 1.705 30 1.705 - 1081000 108 - 500 2000 500 - 1000 5000 Above 1000

5th harmonic of the highest frequency or 40 GHz, whichever is lower

2.3 Limits Of Conducted And Radiated Emission

2.3.1 Limit Of Conducted Emission Of FCC Part 15, Subpart B/CISPR 22

FREQUENCY	Class A (dBuV)		Class B	(dBuV)
(MHz)	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note: (1) The lower limit shall apply at the transition frequencies.

- (2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.
- (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

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2.3.2 Limit Of Radiated Emissions Of FCC Part 15, Subpart B/CISPR 22

FCC Limit:

Detector Function : Quasi – Peak

FREQUENCY	Class A (at 10m)	Class B (at 3m)
(MHz)	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.44	46
Above 960	49.54	54

Detector Function : Peak , Average

FREQUENCY	Class A (dB	uV) (at 3m)	Class B (dBuV) (at 3m)		
(MHz)	Peak	Peak Average		Average	
Above 1000	79.3	59.3	73.9	53.9	

CISPR Limit:

Detector Function : Quasi – Peak

FREQUENCY	Class A (at 10m)	Class B (at 10m)		
(MHz)	dBuV/m	dBuV/m		
30-230	40	30		
230-1000	47	37		

Detector Function : Peak , Average – Class A

Frequency range	Average Limit	Peak Limit		
GHz	dB(μV/m)	dB(μV/m)		
1 to 3	56	76		
3 to 6	60	80		

Detector Function : Peak , Average – Class B

	<u> </u>			
Frequency range	Average Limit	Peak Limit		
GHz	dB(μV/m)	dB(μV/m)		
1 to 3	50	70		
3 to 6	54	74		

Note: The lower limit applies at the transition frequency.

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2.4.Test of Conducted Emission

2.4.1 Test Equipments

	SGS (Conducted Emission	Test Site No.A		
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 3	101311	Jun. 27, 2013	Jun. 26, 2014
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	Feb. 07, 2013	Feb. 06, 2014
LISN	SCHWARZBECK	NSLK 8127	8127-648	Jun. 17, 2013	Jun. 16, 2014
Pulse Limiter	R&S	ESH3Z2	357.8810.52	Nov. 26, 2012	Nov. 25, 2014
LISN	Rolf-Heine	NNB-2/16Z	99012	Mar. 22, 2013	Mar. 21, 2014
ISN	TESEQ	ISN T800	34384	Feb. 27, 2013	Feb. 26, 2014
RF Current Probe	FCC	F-35A	139	Mar. 27, 2013	Mar. 26, 2014
Capacitive Voltage Probe	FCC	F-CVP-1	97	Mar. 27, 2013	Mar. 26, 2014
DC LISN	SCHWARZBECK	NNBM 8125	8125-1598	May 31, 2013	May 31, 2014
DC LISN	MESS TEC	LN-KFZ/200	02/10163	Sep. 21, 2013	Sep. 20, 2014
High Voltage Probe	SCHWARZBECK	TK 9420	TK 9420-5223	Mar. 04, 2013	Mar. 03, 2014
Test Software	Farad	EZ-EMC	Ver. SGS-03A1	N.C.R.	N.C.R.

2.4.2 Test Site

SGS Taiwan LTD. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Township, Taoyuan County, Taiwan 333

2.4.3 Operating Environment

Temperature: N/A Humidity: N/A

Atmospheric Pressure: N/A

2.4.4 Uncertainty of Conducted Emission

Expanded uncertainty (k=2) of Conducted Emission measurement is 1.06dB.

2.4.5 Measurement level and Factor calculate method

Factor =LISN insertion loss + Cable loss Measurement Level = Reading Level + Factor

2.4.6 Measurement Data

N/A

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2.5 Test of Radiated Emission 2.5.1 Test Instruments

Below 1G & Above 1G

		SGS 966 Chamb	er No.A		
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV 40	101058	Jan. 28, 2013	Jan. 27, 2014
EMI Test Receiver	R&S	ESCI 7	100950	Jan. 28, 2013	Jan. 27, 2014
Broadband Antenna	ETC	MCTD 2786	BL13J03016	Jun. 27, 2013	Jun. 26, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	BBHA9120D673	Jan. 29, 2013	Jan. 28, 2014
Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170-184	Jan. 28, 2013	Jan. 27, 2014
Horn Antenna	ETS-Lindgren	3160-09	00117895	Feb. 14, 2013	Feb. 13, 2014
Horn Antenna	ETS-Lindgren	3160-10	00117781	Feb. 14, 2013	Feb. 13, 2014
Pre Amplifier	R&S	SCU-18	10203	Jan. 21, 2013	Jan. 20, 2014
Pre Amplifier	R&S	SCU-26	100780	Jul. 19, 2013	Jul. 18, 2014
Pre Amplifier	R&S	SCU-40	100356	Jul. 17, 2013	Jul. 16, 2014
Pre Amplifier	EMC Instruments	EMC184045	980135	Jan. 24, 2013	Jan. 23, 2014
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0778929	Jan. 24, 2013	Jan. 23, 2014
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0776783	Jan. 24, 2013	Jan. 23, 2014
Coaxial Cable	Huber+Suhner	SUCCOFLEX 102	23051/2	Feb. 08, 2013	Feb. 07, 2014
Coaxial Cable	Huber+Suhner	SUCCOFLEX 102	22962/2	Feb. 08, 2013	Feb. 07, 2014
Controller	Chance Most	886	N/A	N.C.R.	N.C.R.
Antenna Master	Chance Most	N/A	N/A	N.C.R.	N.C.R.
Turn Table	Chance Most	N/A	N/A	N.C.R.	N.C.R.
Site NSA	SGS	966 Chamber A	SAC-A	Mar. 05, 2013	Mar. 04, 2014
Site VSWR	SGS	966 Chamber A	SAC-A	Dec. 29, 2012	Dec. 28, 2013
Test Software	Farad	EZ-EMC	Ver. SGS-03A1	N.C.R.	N.C.R.

2.5.2 Test Site

SGS Taiwan LTD. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Township, Taoyuan County, Taiwan 333

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2.5.3 Operating Environment

Humidity: 60 %RH Temperature: 25 degree C

Atmospheric Pressure: 996 mBar

2.5.4 Uncertainty of Radiated Emission

Expanded uncertainty (k=2) of radiated emission measurement is 3.68dB.(30-1000MHz) Expanded uncertainty (k=2) of radiated emission measurement is 6.30dB.(1-18GHz)

2.5.5 Measurement level and Factor calculate method

Correct Factor = Antenna Factor + Cable loss- Amplifier Gain Measurement Level = Reading Level + Correct Factor

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2.5.6 Measurement Data **Below 1G Spansion** Horizontal polarization

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation

Mode: Opeartion Note: Spansion

Polarization: Horizontal

Power: DC 3.7V

Distance:

Temperature: 26 °C

Humidity: 60 %

Radiated Emission File: E1-2013-90045 Date: 2013/10/1 Data :#30 Time: 下午 03:45:46 80.0 dBuV/m FCC Class B 3M Radiation 8 1000.00 MHz 127.00 224.00 321.00 515.00 612.00 709.00 806.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	30.5400	50.15	-15.62	34.53	40.00	-5.47	QP		
2		135.7000	37.93	-22.36	15.57	43.50	-27.93	QP		
3		346.0000	43.95	-17.97	25.98	46.00	-20.02	QP		
4		368.7000	53.80	-17.49	36.31	46.00	-9.69	QP		
5		400.6000	44.56	-16.83	27.73	46.00	-18.27	QP		
6		871.2000	31.75	-9.56	22.19	46.00	-23.81	QP		

*: Maximum data x:Over limit !:over margin

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Temperature:

26 C

Vertical polarization

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation

Mode: Opeartion Note: Spansion

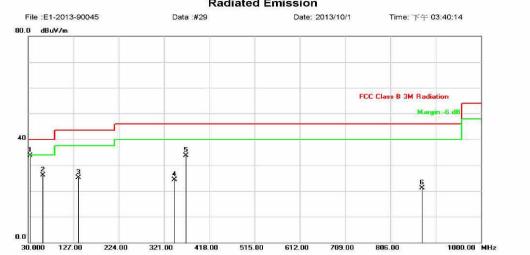
Polarization: Vertical

Power: DC 3.7V

Humidity: 60 %

Distance

Radiated Emission



Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
*	35.0300	51.76	-18.12	33.64	40.00	-6.36	QP	
	61.3000	55.20	-29.12	26.08	40.00	-13.92	QP	
	138.0000	47.48	-22.29	25.19	43.50	-18.31	QP	
	343.8000	42.29	-18.02	24.27	46.00	-21.73	QP	
	368.7000	51.27	-17.49	33.78	46.00	-12.22	QP	
	873.6000	30.72	-9.56	21.16	46.00	-24.84	QP	
	Mk. *	MHz * 35.0300 61.3000 138.0000 343.8000 368.7000	Mk. Freq. Level MHz dBuV * 35.0300 51.76 61.3000 55.20 138.0000 47.48 343.8000 42.29 368.7000 51.27	Mk. Freq. Level Factor MHz dBuV dB * 35,0300 51,76 -18.12 61,3000 55,20 -29.12 138,0000 47,48 -22.29 343,8000 42,29 -18.02 368,7000 51,27 -17,49	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m * 35.0300 51.76 -18.12 33.64 61.3000 55.20 -29.12 26.08 138.0000 47.48 -22.29 25.19 343.8000 42.29 -18.02 24.27 368.7000 51.27 -17.49 33.78	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m * 35.0300 51.76 -18.12 33.64 40.00 61.3000 55.20 -29.12 26.08 40.00 138.0000 47.48 -22.29 25.19 43.50 343.8000 42.29 -18.02 24.27 46.00 368.7000 51.27 -17.49 33.78 46.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB dB * 35.0300 51.76 -18.12 33.64 40.00 -6.36 61.3000 55.20 -29.12 26.08 40.00 -13.92 138.0000 47.48 -22.29 25.19 43.50 -18.31 343.8000 42.29 -18.02 24.27 46.00 -21.73 368.7000 51.27 -17.49 33.78 46.00 -12.22	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB Detector * 35.0300 51.76 -18.12 33.64 40.00 -6.36 QP 61.3000 55.20 -29.12 26.08 40.00 -13.92 QP 138.0000 47.48 -22.29 25.19 43.50 -18.31 QP 343.8000 42.29 -18.02 24.27 46.00 -21.73 QP 368.7000 51.27 -17.49 33.78 46.00 -12.22 QP

*: Maximum data x:Over limit !:over margin

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Winbond Horizontal polarization

Site SGS 966 Chamber A Limit: FCC Class B 3M Radiation

Mode: Opeartion Note: Winbond

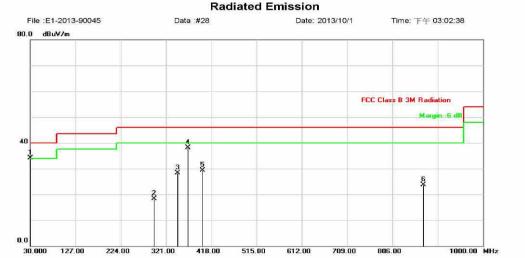
Polarization: Horizontal Power: DC 3.7V

Temperature:

26 ℃

Humidity: 60 %

Distance:



Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
*	30.7900	49.81	-15.76	34.05	40.00	-5.95	QP	
	295.7000	37.43	-19.14	18.29	46.00	-27.71	QP	
8	346.1000	46.20	-17.97	28.23	46.00	-17.77	QP	
Ħ	368.7000	55.68	-17.49	38.19	46.00	-7.81	QP	
}	399.8000	46.24	-16.84	29.40	46.00	-16.60	QP	
i i	872.4000	33.35	-9.56	23.79	46.00	-22.21	QP	
	*	MHz * 30.7900 295.7000 346.1000 368.7000 399.8000	Mk. Freq. Level MHz dBuV * 30.7900 49.81 295.7000 37.43 346.1000 46.20 368.7000 55.68 399.8000 46.24	Mk. Freq. Level Factor MHz dBuV dB * 30.7900 49.81 -15.76 295.7000 37.43 -19.14 346.1000 46.20 -17.97 368.7000 55.68 -17.49 399.8000 46.24 -16.84	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m * 30.7900 49.81 -15.76 34.05 295.7000 37.43 -19.14 18.29 346.1000 46.20 -17.97 28.23 368.7000 55.68 -17.49 38.19 399.8000 46.24 -16.84 29.40	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB * 30.7900 49.81 -15.76 34.05 40.00 -5.95 295.7000 37.43 -19.14 18.29 46.00 -27.71 346.1000 46.20 -17.97 28.23 46.00 -17.77 368.7000 55.68 -17.49 38.19 46.00 -7.81 399.8000 46.24 -16.84 29.40 46.00 -16.60	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB Detector * 30.7900 49.81 -15.76 34.05 40.00 -5.95 QP 295.7000 37.43 -19.14 18.29 46.00 -27.71 QP 346.1000 46.20 -17.97 28.23 46.00 -17.77 QP 368.7000 55.68 -17.49 38.19 46.00 -7.81 QP 399.8000 46.24 -16.84 29.40 46.00 -16.60 QP

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^{*:} Maximum data x:Over limit !:over margin



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Vertical polarization

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation

Mode: Opeartion Note: Winbond

Polarization: Vertical

Power: DC 3.7V

Distance

Temperature: 26 C

Humidity: 60 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	35.0300	51.03	-18.12	32.91	40.00	-7.09	QP		
2		135.8000	48,54	-22.36	26.18	43.50	-17.32	QP		
3		346.1000	43.01	-17.97	25.04	46.00	-20.96	QP		
4		368.7000	52.90	-17.49	35.41	46.00	-10.59	QP		
5		412.8000	42.09	-16.62	25.47	46.00	-20.53	QP		
6	į.	871.2000	48.25	-9.56	38.69	46.00	-7.31	QP		

*: Maximum data x:Over limit !:over margin

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Above 1G Spansion Horizontal polarization

Site SGS 966 Chamber A

Polarization: Horizontal

Temperature: 26 ℃

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

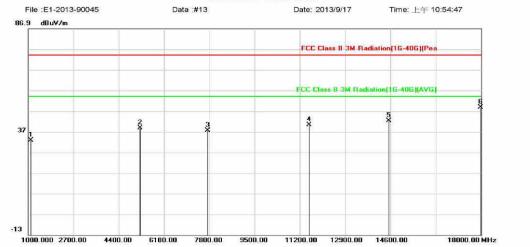
Power: DC 3.7V

Humidity: 60 %

Mode: Opeartion Note: Spansion

Radiated Emission

Distance:



Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1102.000	47.46	-14.65	32.81	74.00	-41.19	peak	
	5199.000	41.67	-2.89	38.78	74.00	-35.22	peak	
	7749.000	33.36	4.11	37.47	74.00	-36.53	peak	
16	11557.000	29.94	10.36	40.30	74.00	-33.70	peak	
8	14549.000	29.08	13.09	42.17	74.00	-31.83	peak	
*	17983.000	26.33	22.36	48.69	74.00	-25.31	peak	
	0	MHz 1102.000 5199.000 7749.000 11557.000 14549.000	Mk. Freq. Level MHz dBuV 1102.000 47.46 5199.000 41.67 7749.000 33.36 11557.000 29.94 14549.000 29.08	Mk. Freq. Level Factor MHz dBuV dB 1102.000 47.46 -14.65 5199.000 41.67 -2.89 7749.000 33.36 4.11 11557.000 29.94 10.36 14549.000 29.08 13.09	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m 1102.000 47.46 -14.65 32.81 5199.000 41.67 -2.89 38.78 7749.000 33.36 4.11 37.47 11557.000 29.94 10.36 40.30 14549.000 29.08 13.09 42.17	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m 1102.000 47.46 -14.65 32.81 74.00 5199.000 41.67 -2.89 38.78 74.00 7749.000 33.36 4.11 37.47 74.00 11557.000 29.94 10.36 40.30 74.00 14549.000 29.08 13.09 42.17 74.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB 1102.000 47.46 -14.65 32.81 74.00 -41.19 5199.000 41.67 -2.89 38.78 74.00 -35.22 7749.000 33.36 4.11 37.47 74.00 -36.53 11557.000 29.94 10.36 40.30 74.00 -33.70 14549.000 29.08 13.09 42.17 74.00 -31.83	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB Detector 1102.000 47.46 -14.65 32.81 74.00 -41.19 peak 5199.000 41.67 -2.89 38.78 74.00 -35.22 peak 7749.000 33.36 4.11 37.47 74.00 -36.53 peak 11557.000 29.94 10.36 40.30 74.00 -33.70 peak 14549.000 29.08 13.09 42.17 74.00 -31.83 peak

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^{*:} Maximum data x:Over limit !:over margin



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Vertical polarization

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

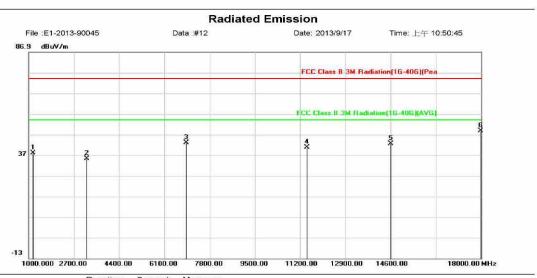
Mode: Opeartion Note: Spansion

Polarization: Vertical

Power: DC 3.7V

Temperature: 26 C

Humidity: 60 %



Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1170.000	52.44	-14.41	38.03	74.00	-35.97	peak	
	3193,000	42.94	-7.56	35.38	74.00	-38.62	peak	
	6933.000	40.67	2.44	43.11	74.00	-30.89	peak	
16	11455.000	30.37	10.35	40.72	74.00	-33.28	peak	
- 80	14600.000	29.45	13.00	42.45	74.00	-31.55	peak	
*	17983.000	26.52	22.36	48.88	74.00	-25.12	peak	
	0	MHz 1170.000 3193.000 6933.000 11455.000	Mk. Freq. Level MHz dBuV 1170.000 52.44 3193.000 42.94 6933.000 40.67 11455.000 30.37 14600.000 29.45	Mk. Freq. Level Factor MHz dBuV dB 1170.000 52.44 -14.41 3193.000 42.94 -7.56 6933.000 40.67 2.44 11455.000 30.37 10.35 14600.000 29.45 13.00	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m 1170.000 52.44 -14.41 38.03 3193.000 42.94 -7.56 35.38 6933.000 40.67 2.44 43.11 11455.000 30.37 10.35 40.72 14600.000 29.45 13.00 42.45	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m 1170.000 52.44 -14.41 38.03 74.00 3193.000 42.94 -7.56 35.38 74.00 6933.000 40.67 2.44 43.11 74.00 11455.000 30.37 10.35 40.72 74.00 14600.000 29.45 13.00 42.45 74.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB 1170.000 52.44 -14.41 38.03 74.00 -35.97 3193.000 42.94 -7.56 35.38 74.00 -38.62 6933.000 40.67 2.44 43.11 74.00 -30.89 11455.000 30.37 10.35 40.72 74.00 -33.28 14600.000 29.45 13.00 42.45 74.00 -31.55	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB Detector 1170.000 52.44 -14.41 38.03 74.00 -35.97 peak 3193.000 42.94 -7.56 35.38 74.00 -38.62 peak 6933.000 40.67 2.44 43.11 74.00 -30.89 peak 11455.000 30.37 10.35 40.72 74.00 -33.28 peak 14600.000 29.45 13.00 42.45 74.00 -31.55 peak

*: Maximum data x:Over limit !:over margin

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Winbond Horizontal polarization

Site SGS 966 Chamber A

Polarization: Horizontal

Temperature:

26 ℃

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Power: DC 3.7V Distance: Humidity: 60 %

Mode: Opeartion Note: Winbond

Radiated Emission File: E1-2013-90045 Date: 2013/9/17 Time: 上午 10:36:57 86.9 dBuV/m FCC Class B 3M Radiation(1G-40G)(Pea FCC Class B 3M Radiation(1G-40G)(AVG) 1000.000 2700.00 6100.00 11200.00 14600.00 18000.00 MHz 4400.00 7800.00 9500.00 12900.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		3465.000	43.46	-7.08	36.38	74.00	-37.62	peak		
2		5199.000	37.64	-2.89	34.75	74.00	-39.25	peak		
3		7290.000	34.24	3.36	37.60	74.00	-36.40	peak		
4	3	11438.000	30.98	10.27	41.25	74.00	-32.75	peak		
5	8	14515.000	28.43	13.14	41.57	74.00	-32.43	peak		
6	*	17966.000	27.30	22.08	49.38	74.00	-24.62	peak		

*:Maximum data x:Over limit !:over margin

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Vertical polarization

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Mode: Opeartion Note: Winbond Polarization: Vertical

Power: DC 3.7V

Distance:

Temperature: 26 ℃

Humidity: 60 %

			Radiate	d Emission		
File:E1- 16.9 dBu	2013-90045 V/m	Da	ita :#10	Date: 2013/9/	/17 Time	: 上午 10:33:02
			-	FCC Class B	3M Radiation[1G-4	10G)(Pea
				FCC Class B	3M Radiation(1G-40	IG ((AVG)
37	*	3	3	*	5 X	*
3						

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		3193.000	44.33	-7.56	36.77	74.00	-37.23	peak		
2		5199.000	36.67	-2.89	33.78	74.00	-40.22	peak		
3		7800.000	33.55	4.16	37.71	74.00	-36.29	peak		
4	33	11557.000	30.36	10.36	40.72	74.00	-33.28	peak		
5	89	14651.000	28.65	12.92	41.57	74.00	-32.43	peak		
6	*	18000.000	26.43	22.63	49.06	74.00	-24.94	peak		

*:Maximum data x:Over limit !:over margin

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