FCC 47 CFR PART 22H and 24E

Test Report

Product Type	:	CityTouch OLC
Applicant	:	Philips Lighting Electronics North America
Address	:	10275 W. Higgins Road, Rosemont, Illinois, United States, 60018-5603
Trade Name	:	PHILIPS
Model Number	:	LLC7260
Test Specification	:	FCC 47 CFR PART 22H: Oct, 2013 FCC 47 CFR PART 24E: Oct, 2013 ANSI/TIA-603-C-2004
Application Purpose	:	Original
Receive Date	:	Sep. 23, 2014
Test Period	:	Oct. 13 ~ Oct. 18, 2014
Issue Date	:	Dec. 25, 2014

Issue by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade City,
Taoyuan County 334, Taiwan R.O.C.
Tel：+886-3-2710188 / Fax：+886-3-2710190

Taiwan Accreditation Foundation accreditation number: 1330

Revision History

Rev.	Issue Date	Revisions	Revised By
00	Dec. 25, 2014	Initial Issue	

Verification of Compliance

Issued Date: 12/25/2014

Product Type	:	CityTouch OLC
Applicant	:	Philips Lighting Electronics North America
Address	:	10275 W. Higgins Road, Rosemont, Illinois, United States, 60018-5603
Trade Name	:	PHILIPS
Model Number	:	LLC7260
FCC ID	:	VBO-LLC7260
EUT Rated Voltage	:	AC 120-277V, 50-60Hz, 4A
Test Voltage	:	120 Vac / 60 Hz
Applicable Standard	:	FCC 47 CFR PART 22H: Oct, 2013 FCC 47 CFR PART 24E: Oct, 2013 ANSI/TIA-603-C-2004
Application Purpose	:	Original
Test Result	:	Complied
Performing Lab.	:	A Test Lab Techno Corp. No. 140-1, Changan Street, Bade City, Taoyuan County 334, Taiwan R.O.C. Tel：+886-3-2710188 / Fax：+886-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330 http://www.atl-lab.com.tw/e-index.htm

The above equipment was tested by A Test Lab Techno Corp. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2009 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 22H, Part 24E.
The test results of this report relate only to the tested sample identified in this report.

Approved By	:	Fly Lu	Reviewed By	:	Eric Ou Yang
(Manager)		(Fly Lu)	(Testing Engineer)		(Eric Ou Yang)

TABLE OF CONTENTS

1 General Information

1.1. EUT Description

Applicant		Philips Lighting Electronics North America			
Applicant Address		10275 W. Higgins Road,Rosemont,Illinois,United States,60018-5603			
Manufacturer		MiTAC International Corporation			
Manufacturer Address		Building B, No. 209, Sec. 1 Nan Gang Road, Nan Gang District, Taipei Taiwan, Republic of China			
Product Type		CityTouch OLC			
Trade Name		PHILIPS			
Model Number		LLC7260			
Hardware Version		9137 003 63303			
Software Version		10880			
IMEI No.		014332000001001			
FCC ID		VBO-LLC7260			
Mode	GPRS/EGPRS	Band	UL Frequency (MHz)	DL Frequency (MHz)	Modulation
		850	824.2 ~ 848.8	869.2 ~ 893.8	GMSK/8PSK
		1900	1850.2 ~ 1909.8	1930.2 ~ 1989.8	GMSK/8PSK
	WCDMA (RMC12.2K)/ HSDPA/ HSUPA	Band	UL Frequency (MHz)	DL Frequency (MHz)	Modulation
		II	1852.4 ~ 1907.6	1932.4 ~ 1987.6	QPSK
		V	826.4 ~ 846.6	871.4 ~ 891.6	QPSK
Channel Control		Auto			
Type of Antenna		PIFA Antenan			
Antenna Gain (dBi)		GPRS/EGPRS 850 : -0.49 dBi			
		GPRS/EGPRS 1900 : 0.10 dBi			
		WCDMA/ HSDPA/ HSUPA Band II : 0.10 dBi			
		WCDMA/ HSDPA/ HSUPA Band V : -0.49 dBi			
Max. RF Output power		GPRS 850 : 32.69 dBm / 1.858 W			
		EGPRS 850 : 29.84 dBm / 0.964 W			
		GPRS 1900 : 26.16 dBm / 0.824 W			
		EGPRS 1900 : 28.38 dBm / 0.689 W			
		WCDMA/ HSDPA/ HSUPA Band II : 26.57 dBm / 0.454 W			
		WCDMA/ HSDPA/ HSUPA Band V : 26.55 dBm / 0.452 W			
Max. ERP/EIRP		GPRS 850 : 31.43 dBm / 1.390 W			
		EGPRS 850 : 27.02 dBm / 0.504 W			
		GPRS 1900 : 28.35 dBm / 0.684 W			
		EGPRS 1900 : 24.87 dBm / 0.307 W			
		WCDMA/ HSDPA/ HSUPA Band II : 23.81 dBm / 0.240 W			
		WCDMA/ HSDPA/ HSUPA Band V : 25.48 dBm / 0.353 W			

1.2. Mode of Operation

ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

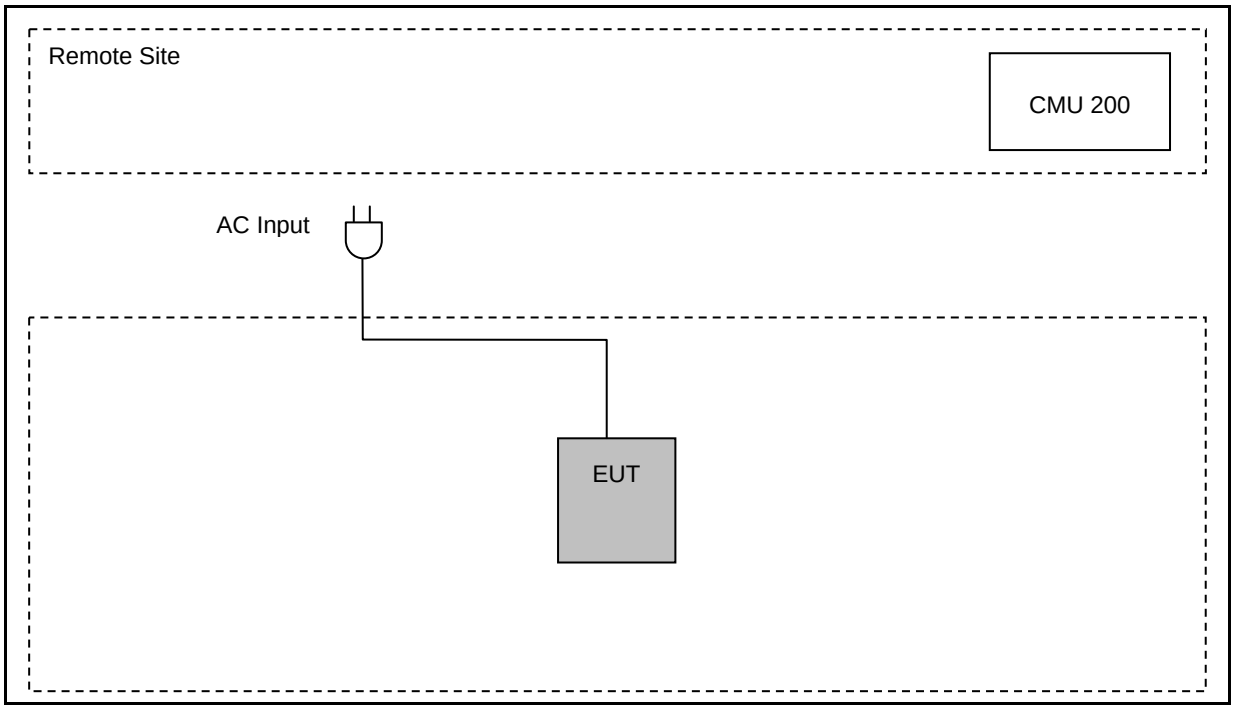
Test Mode
Mode 1: GPRS 850 Link Mode
Mode 2: GPRS 1900 Link Mode
Mode 3: EGPRS 850 Link Mode
Mode 4: EGPRS 1900 Link Mode
Mode 5: WCDMA Band II Link Mode
Mode 6: WCDMA Band V Link Mode

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

1.3. EUT Exercise Software

1	Setup the EUT and Base Station (CMU200) as shown on 1.4.
2	Turn on the power of all equipment.

1.4. Configuration of Test System Details



1.5. Test Site Environment

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

1.6. Summary of Test Result

Description	FCC Rule	Limit	Result
Conducted Output Power	§2.1046	N/A	Pass
Effective Radiated Power	§22.913(a)(2)	< 7 Watts for FCC (<6.3 Watts for IC)	Pass
Equivalent Isotropic Radiated Power	§24.232(c)	< 2 Watts	Pass
Peak to average ratio	§24.232(d)	< 13 dB	Pass
Emission Bandwidth & Occupied Bandwidth	§2.1049 §22.917(a) §24.238(a)	N/A	Pass
Band Edge Measurement	§2.1051 §22.917(a) §24.238(a)	< $43+10\log_{10}$(P[Watts])	Pass
Conducted Spurious Emission	§2.1051 §22.917(a) §24.238(a)	< $43+10\log_{10}$(P[Watts])	Pass
Field Strength of Spurious Radiation	§2.1053 §22.917(a) §24.238(a)	< $43+10\log_{10}$(P[Watts])	Pass
Frequency Stability for Temperature & Voltage	§2.1055 §22.355 §24.235	< 2.5 ppm	Pass

2 RF Output Power Test

2.1. Limit

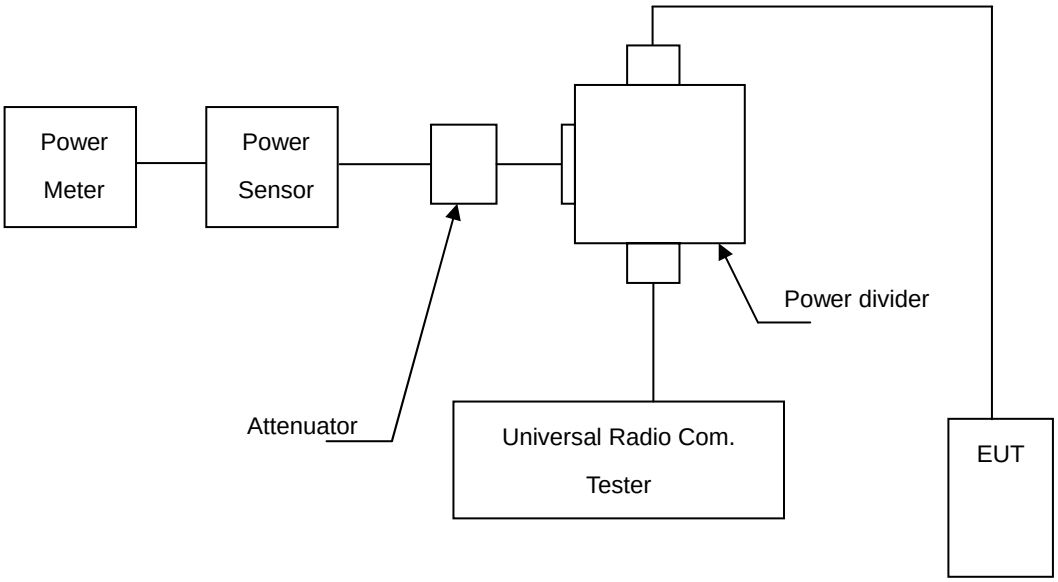
N/A

2.2. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Universal Radio Communication Tester	R & S	CMU200	109369	08/11/2014	(2)
Single Channel PK Power Sensor	Agilent	N1911A	MY45101619	12/21/2013	(2)
Wideband Power Meter	Agilent	N1921A	MY45241957	12/21/2013	(2)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.
Note: N.C.R. = No Calibration Request.

2.3. Test Setup



2.4. Test Procedure

The measurement is made according to ANSI/TIA-603-C-2004 as follows:

1. The transmitter output was connected to power meter and base station through Power Divider.
2. Set base station for EUT at GSM 850: PCL=5 and PCS 1900: PCL=0.
3. Set base station for EUT at WCDMA Band V and WCDMA Band II, power level was set to maximum.
4. Select lowest, middle, and highest channels for each band.

2.5. Uncertainty

The measurement uncertainty is defined as for RF output power measurement is 1.2 dB.

2.6. Test Result

Model Number	LLC7260						
Test Item	RF Output Power						
Date of Test	10/13/2014			Test Site		TE05	
Bands	Modulation Type	Data Rate	Frequency (MHz)	Burst Average Power		Peak Power	
				(dBm)	(W)	(dBm)	(W)
GRRS 850 Multi Class :12 Max Up:4 Max Down:4 Sum:5	GMSK	4Down1Up (Duty Factor 1/8)	824.2	32.58	1.811	**32.69**	**1.858**
			836.6	32.46	1.762	32.59	1.816
			848.8	32.51	1.782	32.63	1.832
		3Down2Up (Duty Factor 2/8)	824.2	32.42	1.746	32.53	1.791
			836.6	32.28	1.690	32.40	1.738
			848.8	32.33	1.710	32.44	1.754
		2Down3Up (Duty Factor 3/8)	824.2	31.71	1.483	31.84	1.528
			836.6	31.59	1.442	31.63	1.455
			848.8	31.63	1.455	31.77	1.503
		1Down4Up (Duty Factor 4/8)	824.2	30.55	1.135	30.69	1.172
			836.6	30.41	1.099	30.54	1.132
			848.8	30.47	1.114	30.58	1.143
EGPRS 850 Multi Class :12 Max Up:4 Max Down:4 Sum:5	8PSK	4Down1Up (Duty Factor 1/8)	824.2	27.11	0.514	**29.84**	**0.964**
			836.6	26.97	0.498	29.71	0.935
			848.8	27.07	0.509	29.79	0.953
		3Down2Up (Duty Factor 2/8)	824.2	26.95	0.495	29.66	0.925
			836.6	26.81	0.480	29.53	0.897
			848.8	26.91	0.491	29.61	0.914
		2Down3Up (Duty Factor 3/8)	824.2	26.21	0.418	29.03	0.800
			836.6	26.08	0.406	28.84	0.766
			848.8	26.15	0.412	28.95	0.785
		1Down4Up (Duty Factor 4/8)	824.2	24.97	0.314	27.86	0.611
			836.6	24.78	0.301	27.68	0.586
			848.8	24.87	0.307	27.76	0.597

Note: The peak power testing result was used peak detector.

Model Number	LLC7260						
Test Item	RF Output Power						
Date of Test	10/13/2014			Test Site		TE05	
Bands	Modulation Type	Data Rate	Frequency (MHz)	Burst Average Power		Peak Power	
				(dBm)	(W)	(dBm)	(W)
GRRS 1900 Multi Class :12 Max Up:4 Max Down:4 Sum:5	GMSK	4Down1Up (Duty Factor 1/8)	1850.20	29.01	0.796	**29.16**	**0.824**
			1880.00	28.75	0.750	28.91	0.778
			1909.80	28.79	0.757	28.97	0.789
		3Down2Up (Duty Factor 2/8)	1850.20	28.83	0.764	28.98	0.791
			1880.00	28.57	0.719	28.71	0.743
			1909.80	28.61	0.726	28.76	0.752
		2Down3Up (Duty Factor 3/8)	1850.20	28.22	0.664	28.36	0.685
			1880.00	28.01	0.632	28.14	0.652
			1909.80	28.07	0.641	28.21	0.662
		1Down4Up (Duty Factor 4/8)	1850.20	27.03	0.505	27.16	0.520
			1880.00	26.82	0.481	26.97	0.498
			1909.80	26.85	0.484	27.02	0.504
EGPRS 1900 Multi Class :12 Max Up:4 Max Down:4 Sum:5	8PSK	4Down1Up (Duty Factor 1/8)	1850.20	25.36	0.344	**28.38**	**0.689**
			1880.00	25.15	0.327	28.13	0.650
			1909.80	25.19	0.330	28.16	0.655
		3Down2Up (Duty Factor 2/8)	1850.20	25.21	0.332	28.22	0.664
			1880.00	25.00	0.316	27.94	0.622
			1909.80	25.04	0.319	27.98	0.628
		2Down3Up (Duty Factor 3/8)	1850.20	24.53	0.284	27.56	0.570
			1880.00	24.31	0.270	27.23	0.528
			1909.80	24.36	0.273	27.33	0.541
		1Down4Up (Duty Factor 4/8)	1850.20	23.47	0.222	26.53	0.450
			1880.00	23.29	0.213	26.22	0.419
			1909.80	23.38	0.218	26.38	0.435

Note: The peak power testing result was used peak detector.

Model Number	LLC7260						
Test Item	RF Output Power						
Date of Test	10/13/2014			Test Site		TE05	
Bands	Modulation Type	Sub-Test	Frequency (MHz)	Burst Average Power		Peak Power	
				(dBm)	(W)	(dBm)	(W)
WCDMA Band II	QPSK	-----	1852.4	23.29	0.213	**26.57**	**0.454**
			1880.0	23.07	0.203	26.32	0.429
			1907.6	23.16	0.207	26.43	0.440
HSDPA Band II	QPSK	1	1852.4	22.43	0.175	25.74	0.375
			1880.0	22.22	0.167	25.49	0.354
			1907.6	22.31	0.170	25.59	0.362
		2	1852.4	22.39	0.173	25.70	0.372
			1880.0	22.19	0.166	25.46	0.352
			1907.6	22.26	0.168	25.54	0.358
		3	1852.4	21.96	0.157	25.27	0.337
			1880.0	21.73	0.149	25.00	0.316
			1907.6	21.83	0.152	25.11	0.324
		4	1852.4	21.93	0.156	25.24	0.334
			1880.0	21.71	0.148	24.98	0.315
			1907.6	21.78	0.151	25.06	0.321
HSUPA Band II	QPSK	1	1852.4	21.86	0.153	25.19	0.330
			1880.0	21.62	0.145	24.93	0.311
			1907.6	21.75	0.150	25.04	0.319
		2	1852.4	19.88	0.097	23.21	0.209
			1880.0	19.63	0.092	22.94	0.197
			1907.6	19.78	0.095	23.07	0.203
		3	1852.4	20.88	0.122	24.21	0.264
			1880.0	20.65	0.116	23.96	0.249
			1907.6	20.79	0.120	24.08	0.256
		4	1852.4	19.84	0.096	23.17	0.207
			1880.0	19.62	0.092	22.93	0.196
			1907.6	19.74	0.094	23.03	0.201
		5	1852.4	21.84	0.153	25.17	0.329
			1880.0	21.58	0.144	24.89	0.308
			1907.6	21.72	0.149	25.01	0.317

Note: The peak power testing result was used peak detector.

Model Number	LLC7260						
Test Item	RF Output Power						
Date of Test	10/13/2014			Test Site		TE05	
Bands	Modulation Type	Sub-Test	Frequency (MHz)	Burst Average Power		Peak Power	
				(dBm)	(W)	(dBm)	(W)
WCDMA Band V	QPSK	-----	826.4	23.37	0.217	**26.55**	**0.452**
			836.6	23.20	0.209	26.47	0.444
			846.6	23.27	0.212	26.51	0.448
HSDPA Band V	QPSK	1	826.4	22.57	0.181	25.71	0.372
			836.6	22.35	0.172	25.62	0.365
			846.6	22.45	0.176	25.66	0.368
		2	826.4	22.53	0.179	25.67	0.369
			836.6	22.33	0.171	25.60	0.363
			846.6	22.42	0.175	25.63	0.366
		3	826.4	22.07	0.161	25.21	0.332
			836.6	21.87	0.154	25.14	0.327
			846.6	21.95	0.157	25.16	0.328
		4	826.4	22.05	0.160	25.19	0.330
			836.6	21.82	0.152	25.09	0.323
			846.6	21.94	0.156	25.15	0.327
HSUPA Band V	QPSK	1	826.4	22.03	0.160	25.16	0.328
			836.6	21.85	0.153	25.09	0.323
			846.6	21.88	0.154	25.16	0.328
		2	826.4	20.05	0.101	23.18	0.208
			836.6	19.89	0.097	23.13	0.206
			846.6	19.91	0.098	23.19	0.208
		3	826.4	21.05	0.127	24.18	0.262
			836.6	20.85	0.122	24.09	0.256
			846.6	20.91	0.123	24.19	0.262
		4	826.4	20.01	0.100	23.14	0.206
			836.6	19.85	0.097	23.09	0.204
			846.6	19.85	0.097	23.13	0.206
		5	826.4	22.01	0.159	25.14	0.327
			836.6	21.82	0.152	25.06	0.321
			846.6	21.83	0.152	25.11	0.324

Note: The peak power testing result was used peak detector.

3 Effective Radiated Power / Equivalent Isotropic Radiated Power Test

3.1. Limit

For FCC Part 22.913(a)(2): The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

For FCC Part 24.232(b): The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

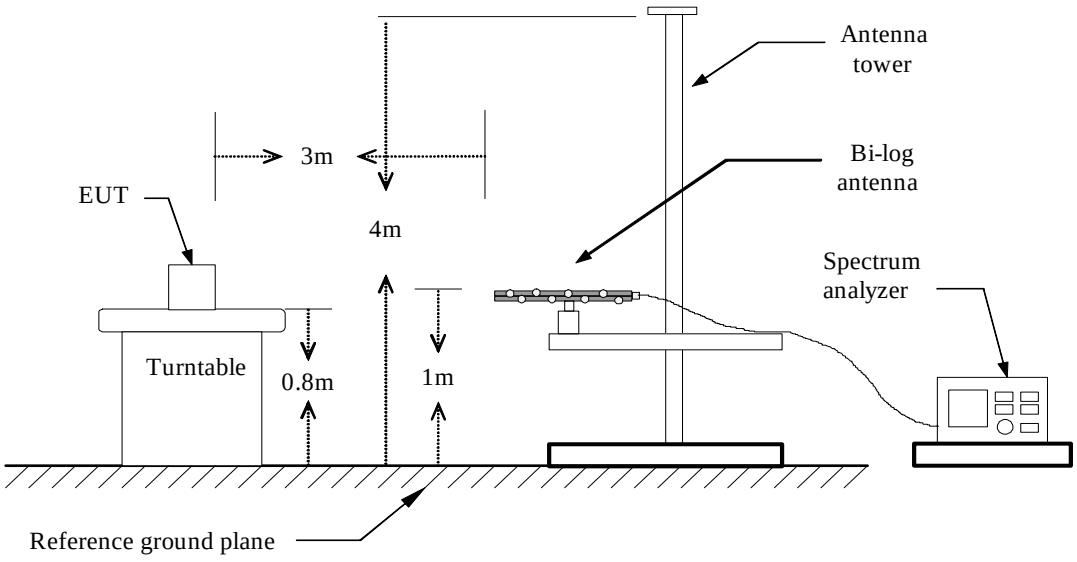
3.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/10/2014	(1)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/10/2014	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/21/2014	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/21/2014	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	07/22/2014	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/11/2014	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	07/02/2014	(1)
Test Site	ATL	TE01	888001	08/28/2014	(1)

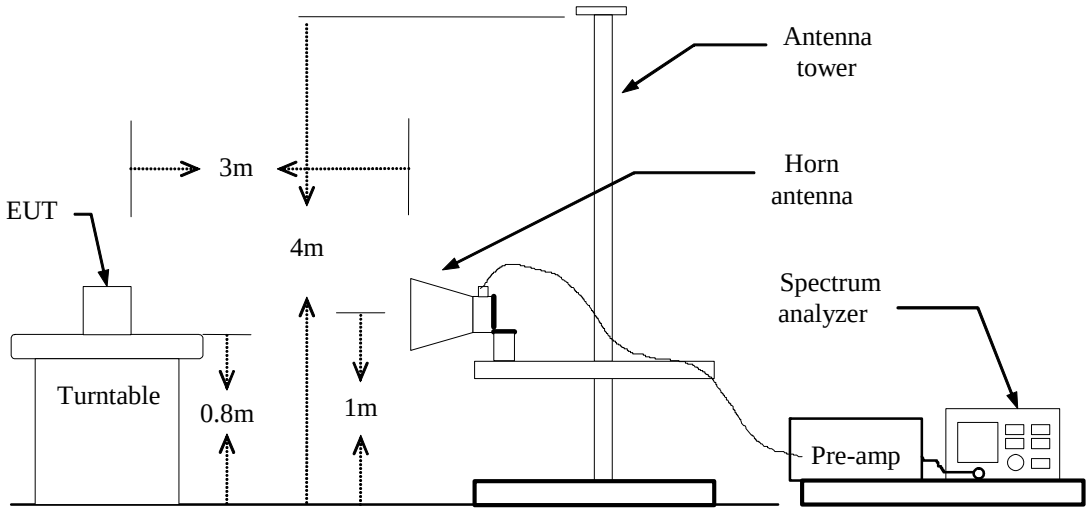
Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.
Note: N.C.R. = No Calibration Request.

3.3. Setup

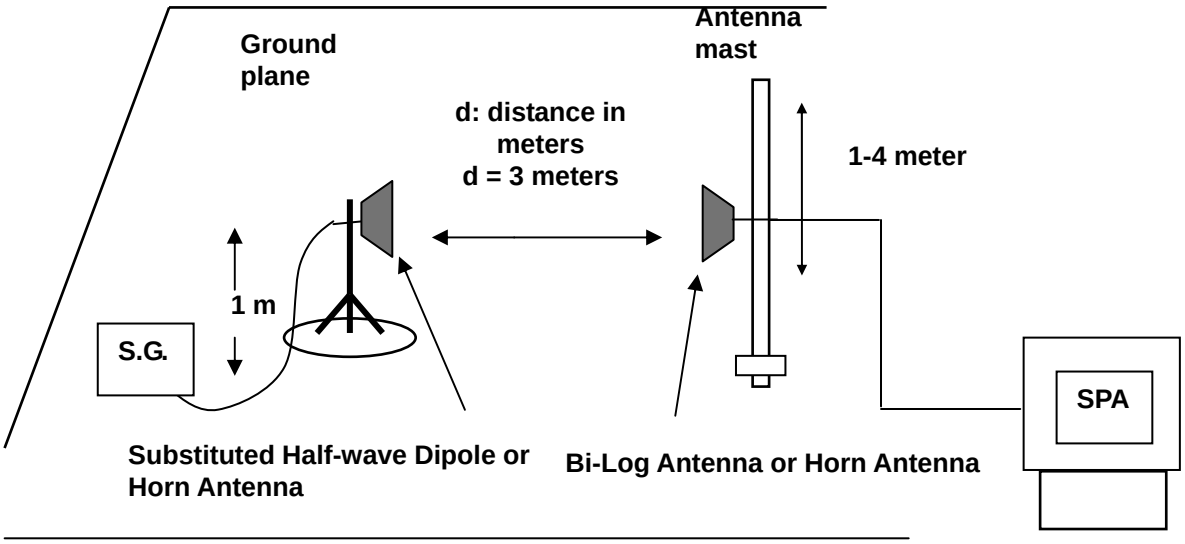
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



3.4. Test Procedure

The measurement is made according to ANSI/TIA-603-C-2004 as follows:

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement of the EUT, the resolution bandwidth was set to 3MHz and the average bandwidth was set to 3MHz. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824-849MHz, and EIRP in frequency band 1851.25 –1910MHz were measured using a substitution method. The EUT was replaced by half-wave dipole (824-849MHz) or horn antenna (1851.25-1910MHz) connected to a signal generator. The spectrum analyzer reading was recorded and ERP/EIRP was calculated as follows:

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable (dB)

3.5. Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is ± 3.072 dB.

3.6. Test Result

Model Number	LLC7260							
Test Item	ERP/EIRP							
Date of Test	10/18/2014					Test Site	TE01	
Bands	Modulation Type	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	ERP		Limit
						(dBm)	(W)	
GPRS 850	GMSK	824.2	H	17.51	10.81	28.32	0.679	< 7W
			V	20.62	10.81	**31.43**	**1.390**	< 7W
		836.6	H	16.92	10.82	27.74	0.594	< 7W
			V	20.20	10.82	31.02	1.265	< 7W
		848.8	H	17.02	10.90	27.92	0.619	< 7W
			V	20.20	10.90	31.10	1.288	< 7W
EGPRS 850	8PSK	824.2	H	14.09	10.81	24.90	0.309	< 7W
			V	16.21	10.81	**27.02**	**0.504**	< 7W
		836.6	H	13.83	10.82	24.65	0.292	< 7W
			V	16.05	10.82	26.87	0.486	< 7W
		848.8	H	13.80	10.90	24.70	0.295	< 7W
			V	15.69	10.90	26.59	0.456	< 7W

Model Number	LLC7260							
Test Item	ERP/EIRP							
Date of Test	10/18/2014					Test Site	TE01	
Bands	Modulation Type	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	EIRP		Limit
						(dBm)	(W)	
GPRS 1900	GMSK	1850.20	H	17.30	6.33	23.63	0.231	< 2W
			V	21.81	6.33	28.14	0.652	< 2W
		1880.00	H	17.31	6.55	23.86	0.243	< 2W
			V	21.80	6.55	**28.35**	**0.684**	< 2W
		1909.80	H	17.23	6.79	24.02	0.252	< 2W
			V	21.18	6.79	27.97	0.627	< 2W
EGPRS 1900	8PSK	1850.20	H	16.90	5.06	21.96	0.157	< 2W
			V	19.81	5.06	**24.87**	**0.307**	< 2W
		1880.00	H	17.16	5.27	22.43	0.175	< 2W
			V	19.21	5.27	24.48	0.281	< 2W
		1909.80	H	17.06	5.50	22.56	0.180	< 2W
			V	19.02	5.51	24.53	0.284	< 2W

Note: 1. ERP/EIRP = Read Level + Correction factor.

2. For WCDMA signals, a peak detector is used with RBW = VBW = 5MHz.

3. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW= 1 MHz.

Model Number	LLC7260							
Test Item	ERP/EIRP							
Date of Test	10/18/2014					Test Site	TE01	
Bands	Modulation Type	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	EIRP		Limit
						(dBm)	(W)	
WCDMA Band II	QPSK	1852.4	H	14.24	6.34	20.58	0.114	< 2W
			V	17.48	6.33	**23.81**	**0.240**	< 2W
		1880.0	H	13.88	6.55	20.43	0.110	< 2W
			V	16.48	6.56	23.04	0.201	< 2W
		1907.6	H	13.91	6.77	20.68	0.117	< 2W
			V	16.50	6.79	23.29	0.213	< 2W

Model Number	LLC7260							
Test Item	ERP/EIRP							
Date of Test	10/18/2014					Test Site	TE01	
Bands	Modulation Type	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	ERP		Limit
						(dBm)	(W)	
WCDMA Band V	QPSK	826.4	H	11.29	10.82	22.11	0.163	< 7W
			V	14.51	10.82	25.33	0.341	< 7W
		836.6	H	10.70	10.82	21.52	0.142	< 7W
			V	14.66	10.82	**25.48**	**0.353**	< 7W
		846.6	H	10.32	10.87	21.19	0.132	< 7W
			H	13.55	10.87	24.42	0.277	< 7W

Note: 1. ERP/EIRP = Read Level + Correction factor.

2. For WCDMA signals, a peak detector is used with RBW = VBW = 5MHz.

3. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW= 1 MHz.

4 Peak to Average Ratio Test

4.1. Limit

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

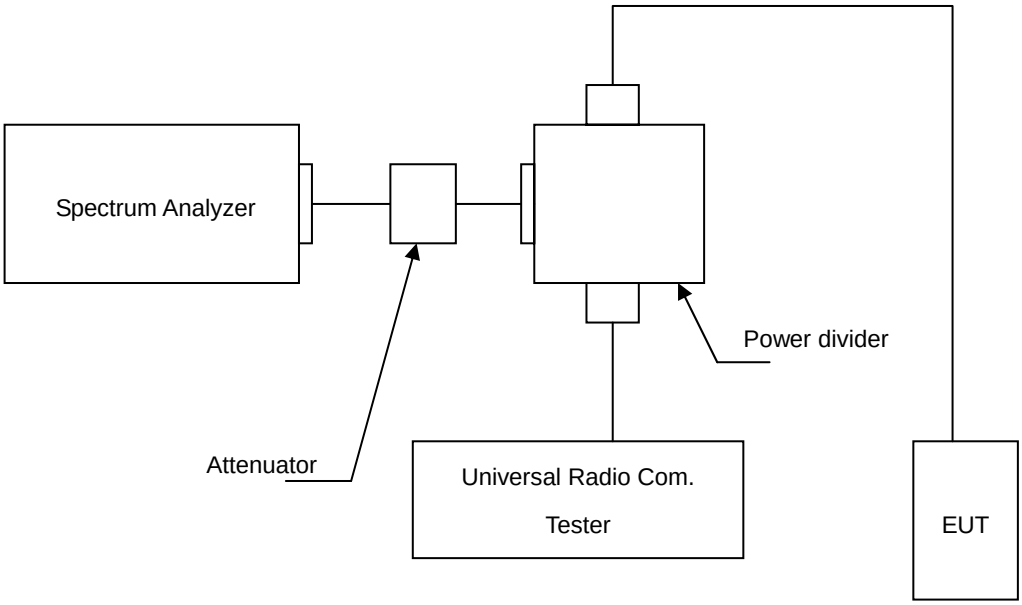
4.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/10/2014	(1)
Wideband Radio Communication Test	R & S	CMW500	103168	11/05/2013	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

4.3. Setup



4.4. Test Procedure

The measurement is made according to FCC rules part 24:

a. Set resolution/measurement bandwidth signal's occupied bandwidth;

b. Set the number of counts to a value that stabilizes the measured CCDF curve;

c. Record the maximum PAPR level associated with a probability of 0.1%.

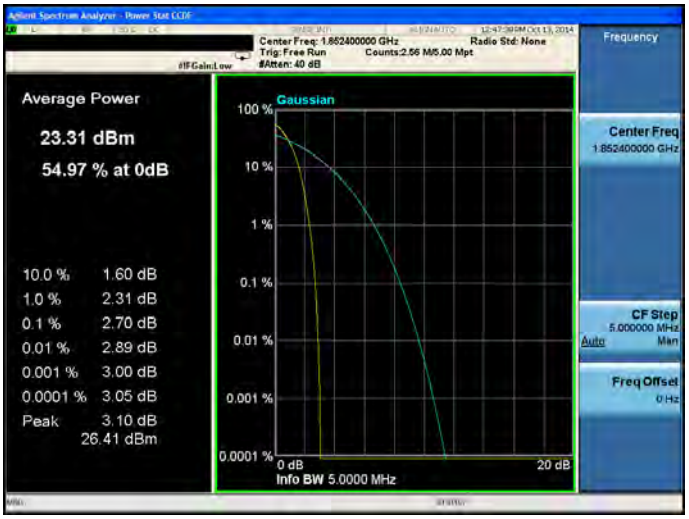
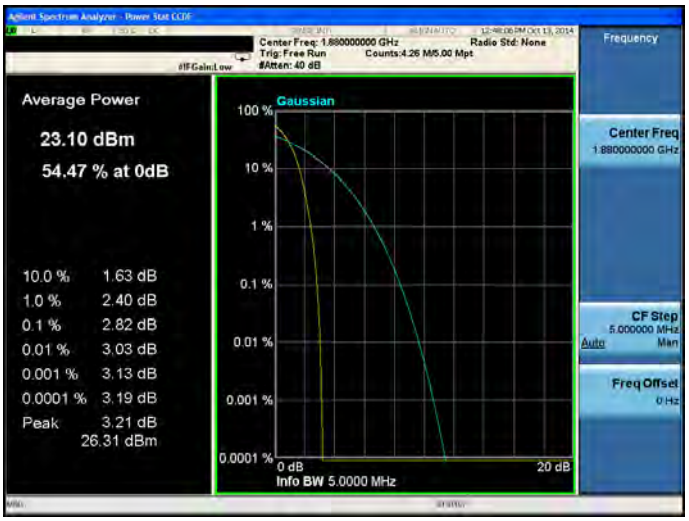
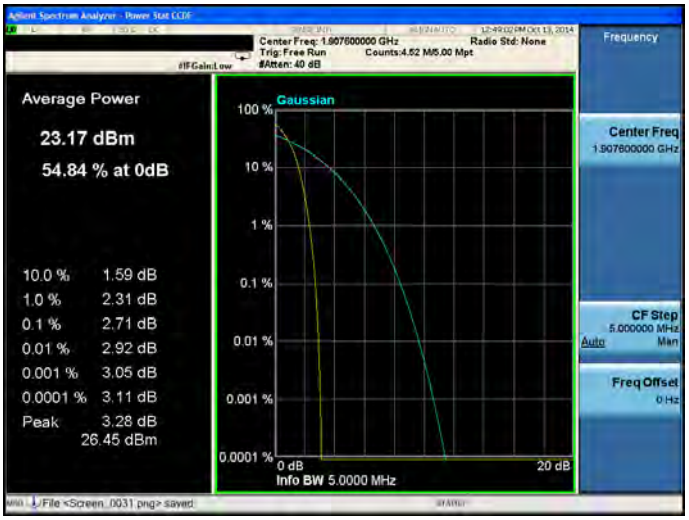
4.5. Uncertainty

The measurement uncertainty is defined as for Conducted Power measurement is 1.2 dB.

4.6. Test Result

Model Number	LLC7260				
Test Item	Peak to Average Ratio				
Date of Test	10/13/2014			Test Site	TE05
Bands	Channel	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)	
WCDMA Band II	9262	1852.4	2.70	< 13	
	9400	1880.0	2.82	< 13	
	9538	1907.6	2.71	< 13	

4.7. Test Graphs

Mode 5: WCDMA Band II Link Mode	
1850.20 MHz	
1880.00 MHz	
1909.80 MHz	

5 Emission Bandwidth & Occupied Bandwidth Test

5.1. Limit

The Occupied Bandwidth Limit:

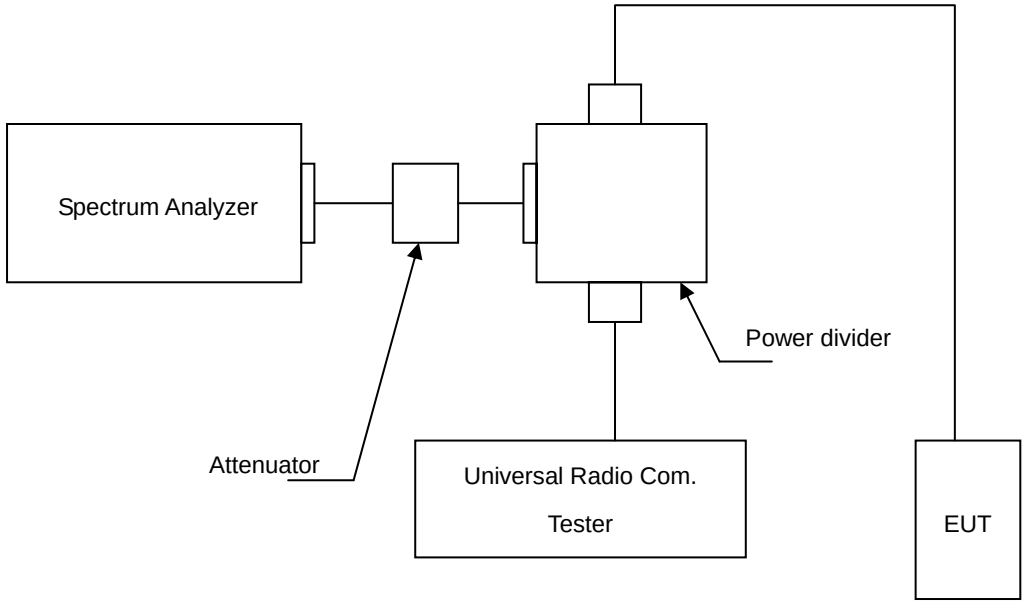
N/A.

5.2. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Universal Radio Communication Tester	R & S	CMU200	109369	08/11/2014	(2)
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/10/2014	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power Divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.
Note: N.C.R. = No Calibration Request.

5.3. Setup



5.4. Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT was connected to Spectrum Analyzer and Base Station via Power Divider.
2. The occupied bandwidth of middle channel for the highest and lowest RF powers was measured.

5.5. Uncertainty

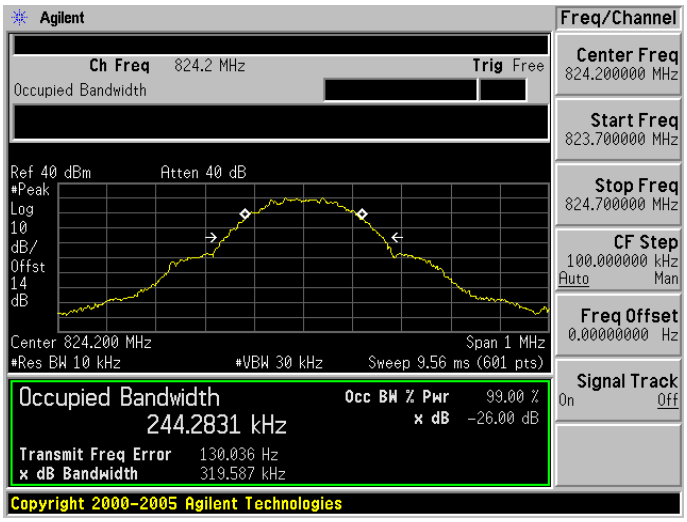
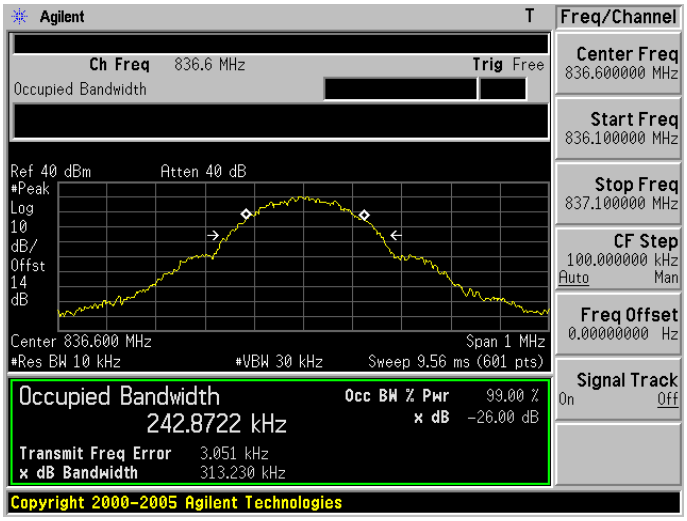
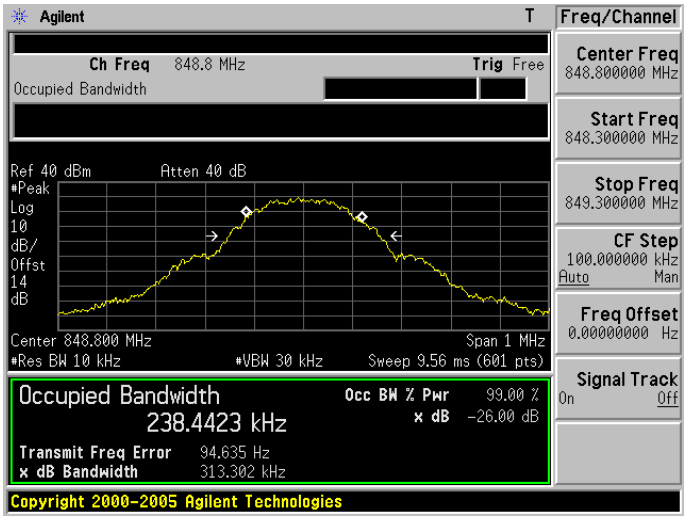
The measurement uncertainty is defined as ± 10Hz

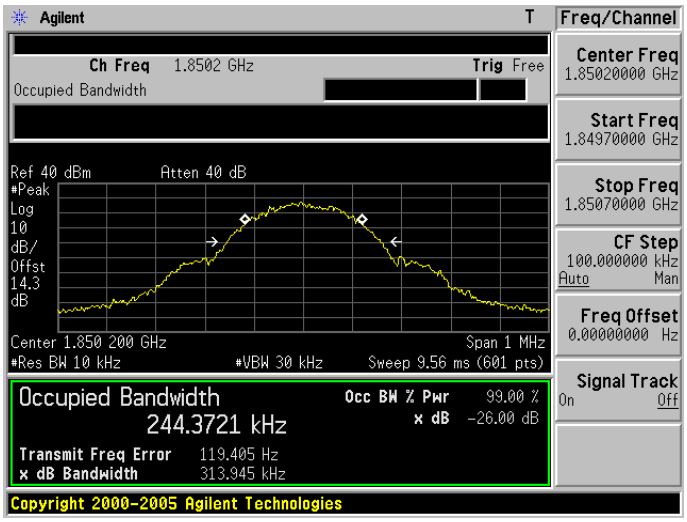
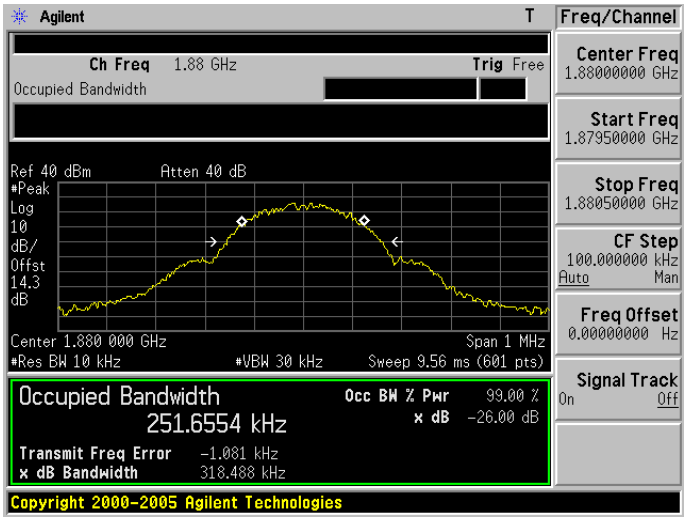
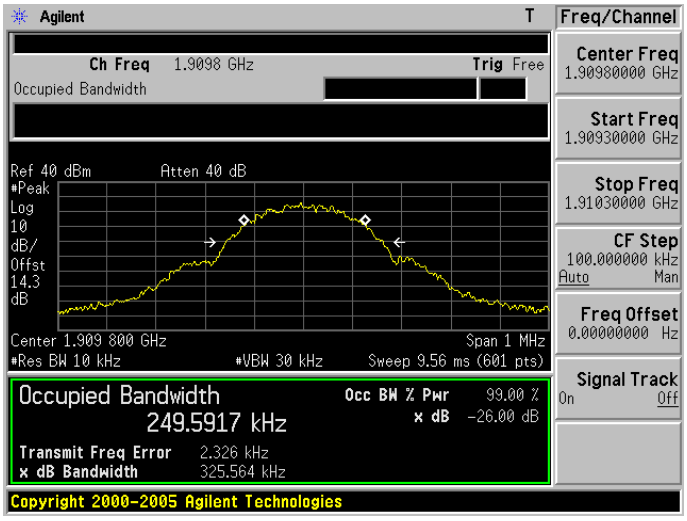
5.6. Test Result

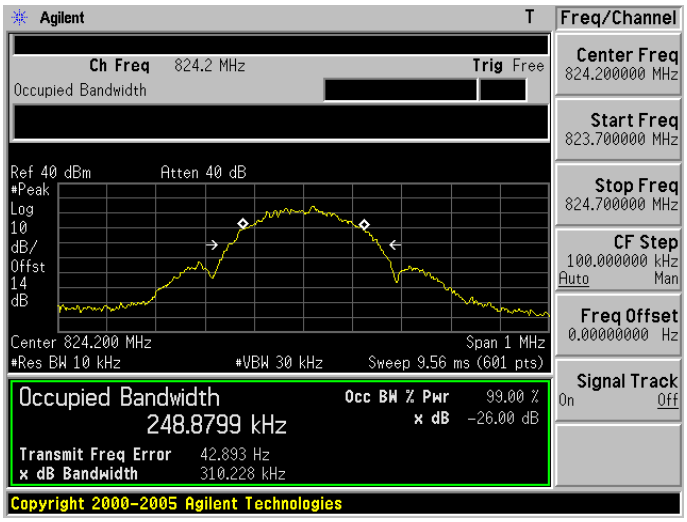
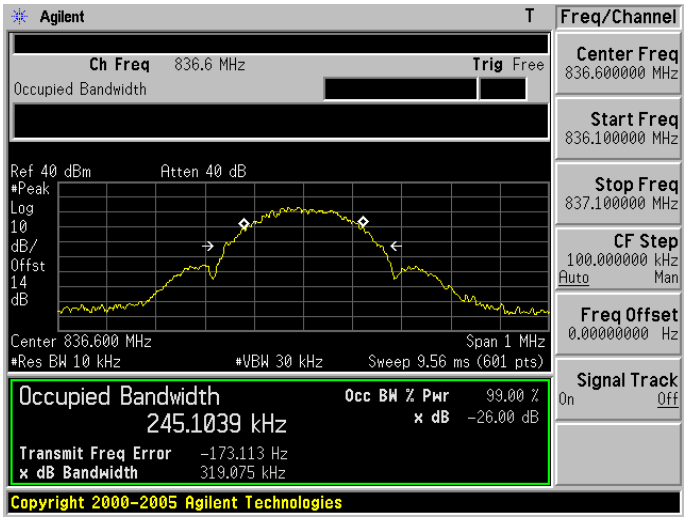
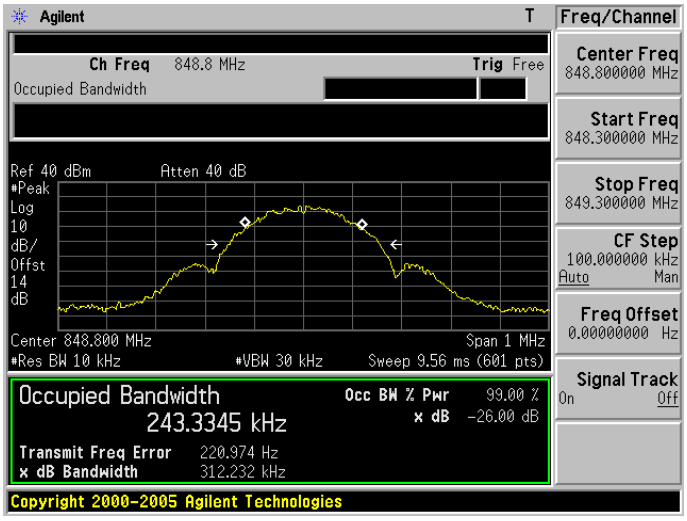
Model Number	LLC7260				
Test Item	Emission Bandwidth & Occupied Bandwidth				
Date of Test	10/13/2014			Test Site	TE05
Bands	Channel	Frequency (MHz)	-26dB Bandwidth (kHz)	99% Bandwidth (kHz)	Note
GPRS 850	128	824.2	319.587	244.2831	RBW:10KHz , VBW:30KHz
	190	836.6	313.230	242.8722	RBW:10KHz , VBW:30KHz
	251	848.8	313.302	238.4423	RBW:10KHz , VBW:30KHz
GPRS 1900	512	1850.20	313.945	244.3721	RBW:10KHz , VBW:30KHz
	661	1880.00	318.488	251.6554	RBW:10KHz , VBW:30KHz
	810	1909.80	325.564	249.5917	RBW:10KHz , VBW:30KHz
EGPRS 850	128	824.2	310.228	248.8799	RBW:10KHz , VBW:30KHz
	190	836.6	319.075	245.1039	RBW:10KHz , VBW:30KHz
	251	848.8	312.232	243.3345	RBW:10KHz , VBW:30KHz
EGPRS 1900	512	1850.20	317.397	243.4339	RBW:10KHz , VBW:30KHz
	661	1880.00	296.815	247.7481	RBW:10KHz , VBW:30KHz
	810	1909.80	312.745	244.4651	RBW:10KHz , VBW:30KHz

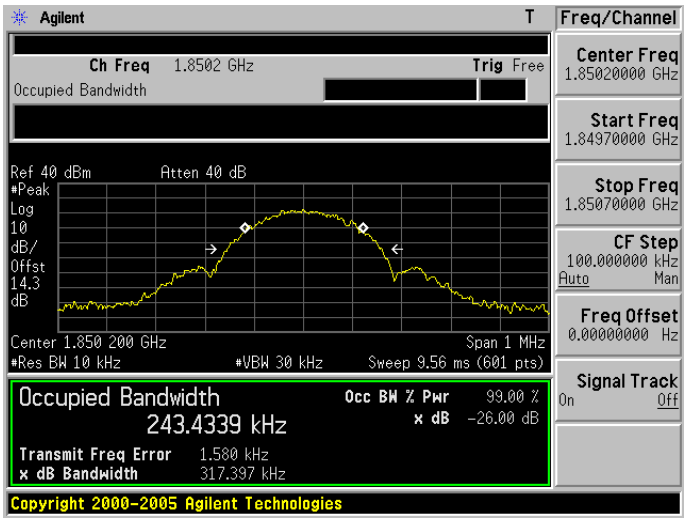
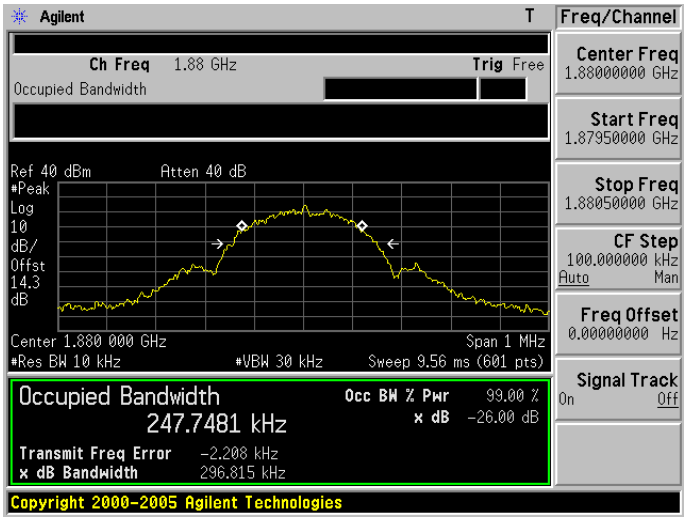
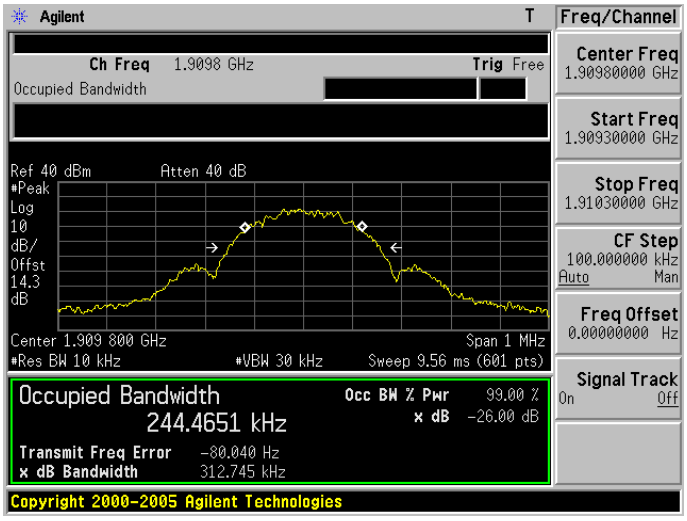
Model Number	LLC7260				
Test Item	Emission Bandwidth & Occupied Bandwidth				
Date of Test	10/13/2014			Test Site	TE05
Bands	Channel	Frequency (MHz)	-26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Note
WCDMA Band II	9262	1852.4	4.707	4.1643	RBW:100KHz , VBW:300KHz
	9400	1880.0	4.665	4.1476	RBW:100KHz , VBW:300KHz
	9538	1907.6	4.680	4.1730	RBW:100KHz , VBW:300KHz
WCDMA Band V	4132	826.4	4.666	4.1658	RBW:100KHz , VBW:300KHz
	4183	836.6	4.679	4.1368	RBW:100KHz , VBW:300KHz
	4233	846.6	4.677	4.1704	RBW:100KHz , VBW:300KHz

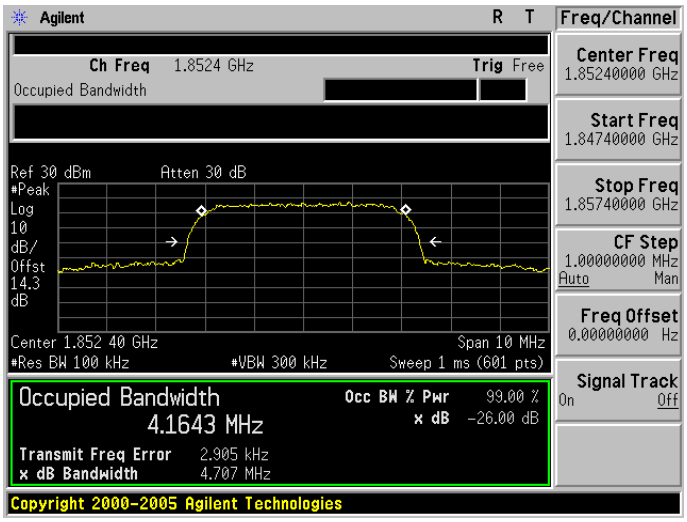
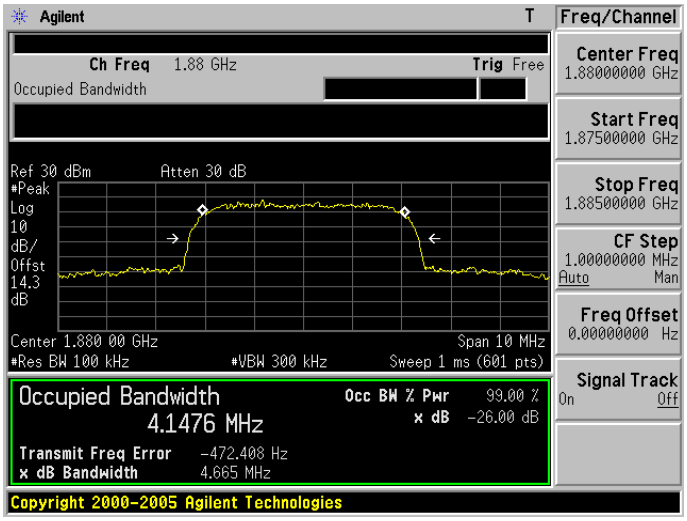
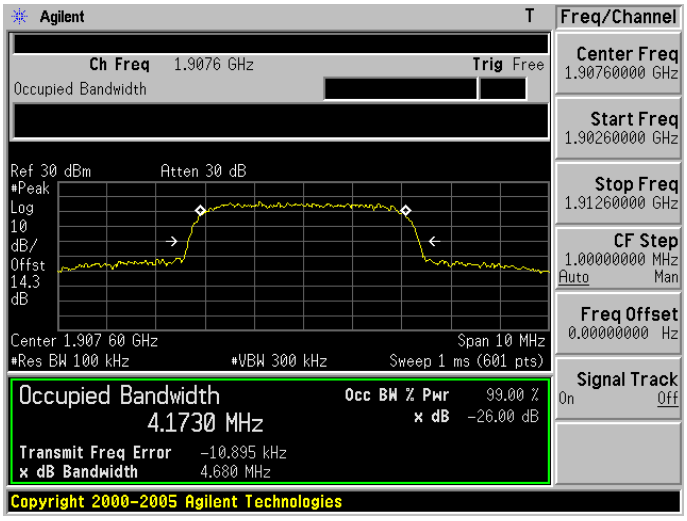
5.7. Test Graphs

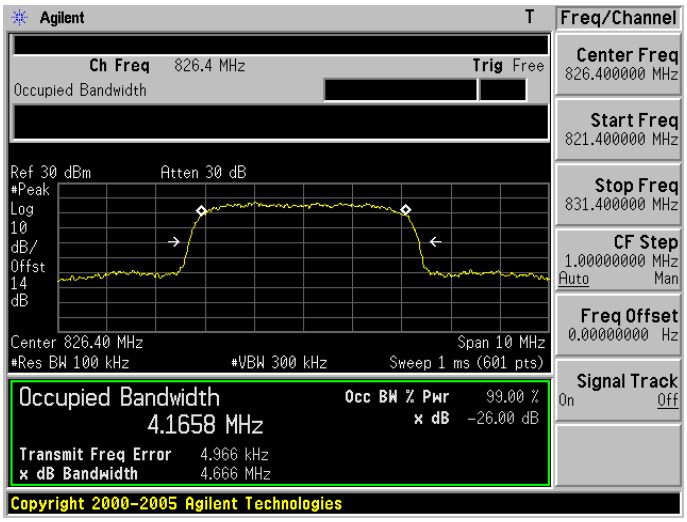
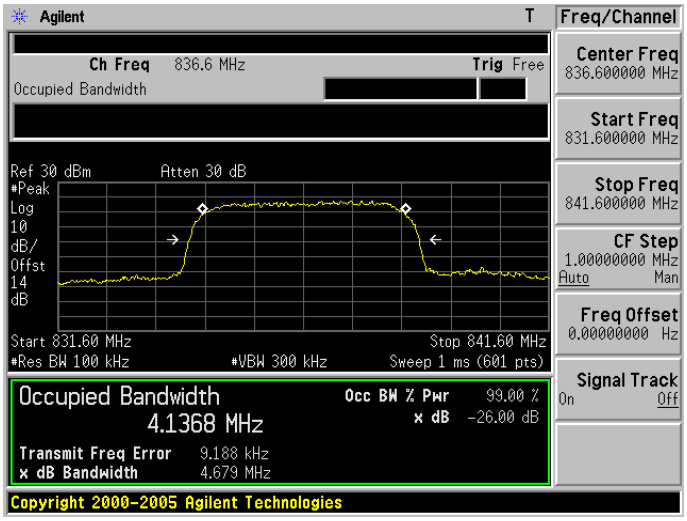
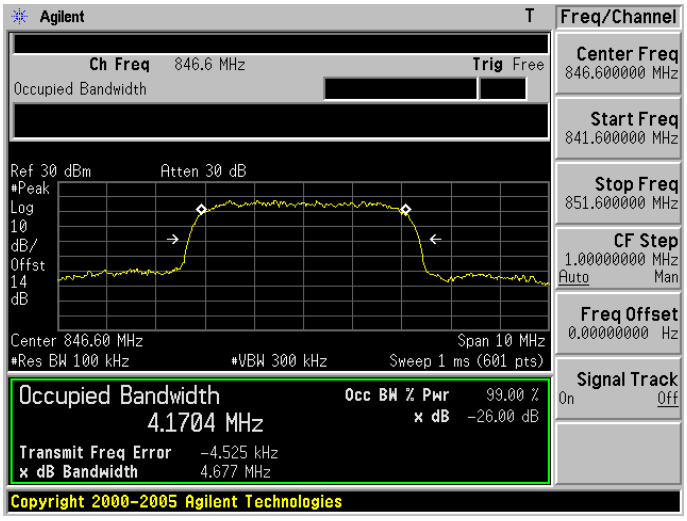
Mode 1: GPRS 850 Link Mode	
824.2 MHz	
836.6 MHz	
848.8 MHz	

Mode 2: GPRS 1900 Link Mode	
1850.20 MHz	
1880.00 MHz	
1909.80 MHz	

Mode 3: EGPRS 850 Link Mode	
824.2 MHz	
836.6 MHz	
848.8 MHz	

Mode 4: EGPRS 1900 Link Mode	
1850.20 MHz	
1880.00 MHz	
1909.80 MHz	

Mode 5: WCDMA Band II Link Mode	
1850.20 MHz	
1880.00 MHz	
1909.80 MHz	

Mode 6: WCDMA Band V Link Mode	
826.4 MHz	
836.6 MHz	
846.6 MHz	

6 Band Edge Test

6.1. Limit

The Band Edge Limit:

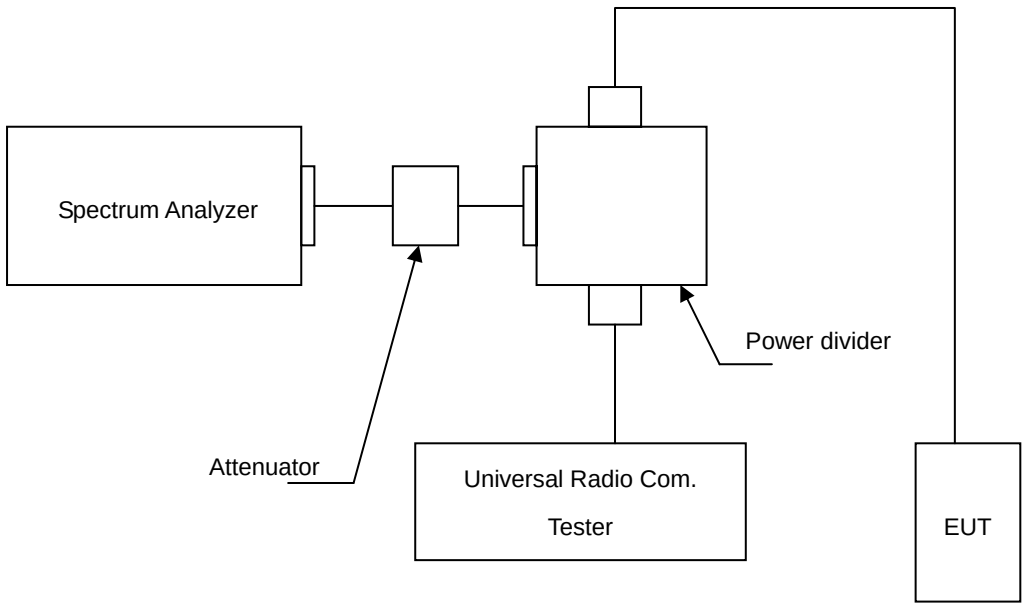
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log(P) dB.

6.2. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Universal Radio Communication Tester	R & S	CMU200	109369	08/11/2014	(2)
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/10/2014	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power Divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.
Note: N.C.R. = No Calibration Request.

6.3. Setup



6.4. Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT was connected to Spectrum Analyzer and Base Station via Power Divider.
2. The band edge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly BW/100.
3. The band edge setting:
   a. RB=10 kHz; VB=30 kHz for GSM 850 and PCS 1900.
   b. RB=51 kHz; VB=160 kHz for WCDMA Band V and WCDMA Band II.

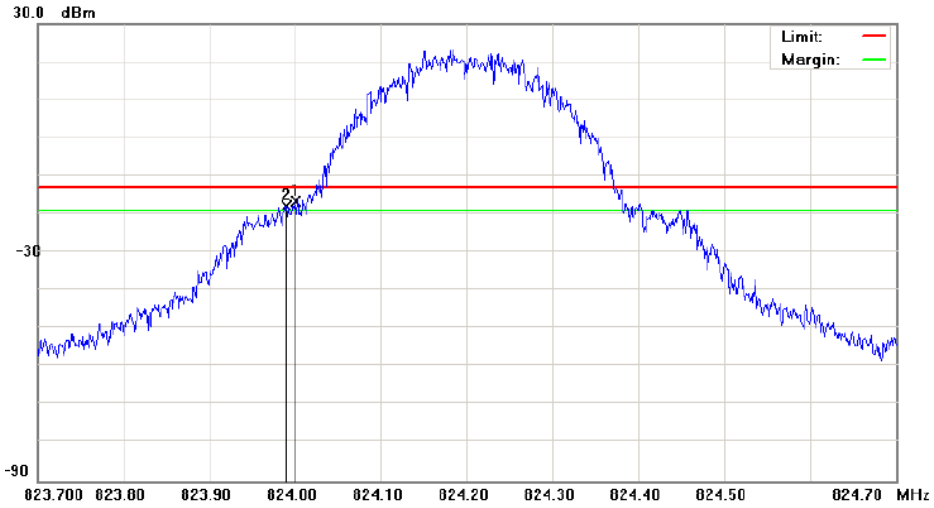
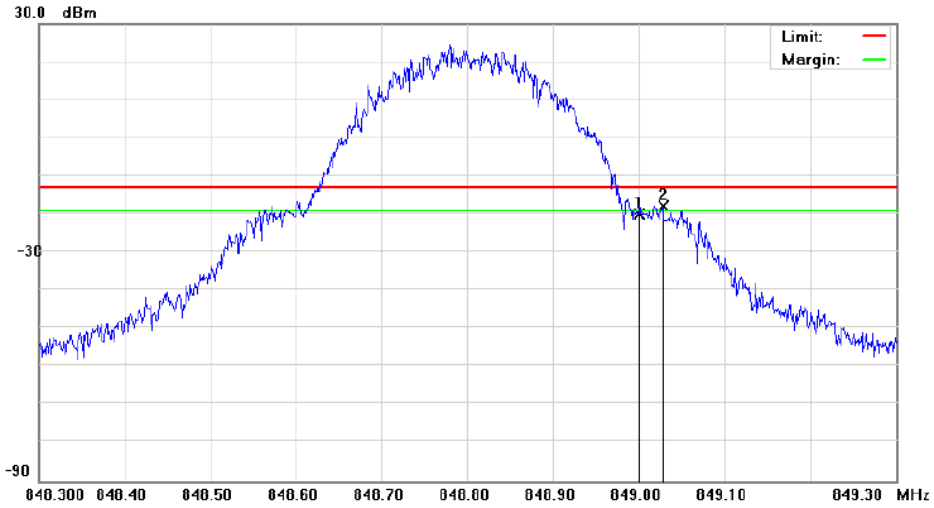
6.5. Uncertainty

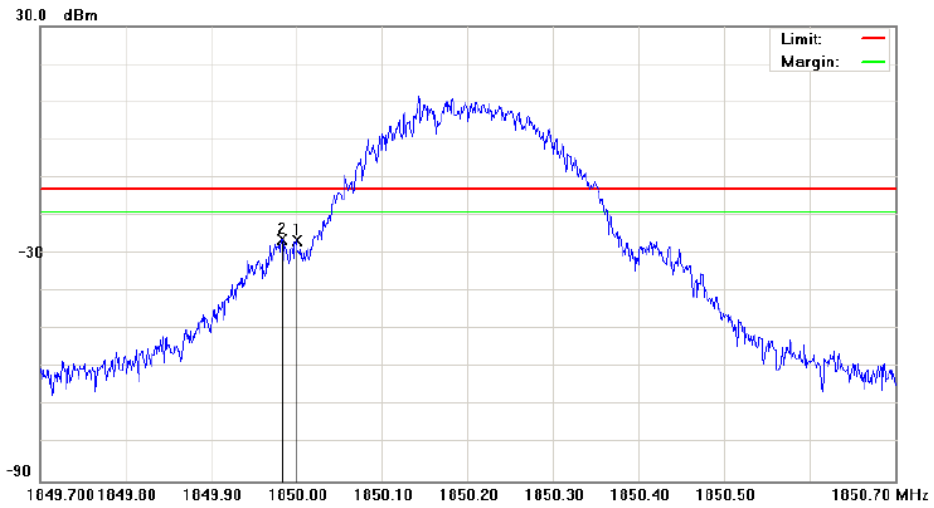
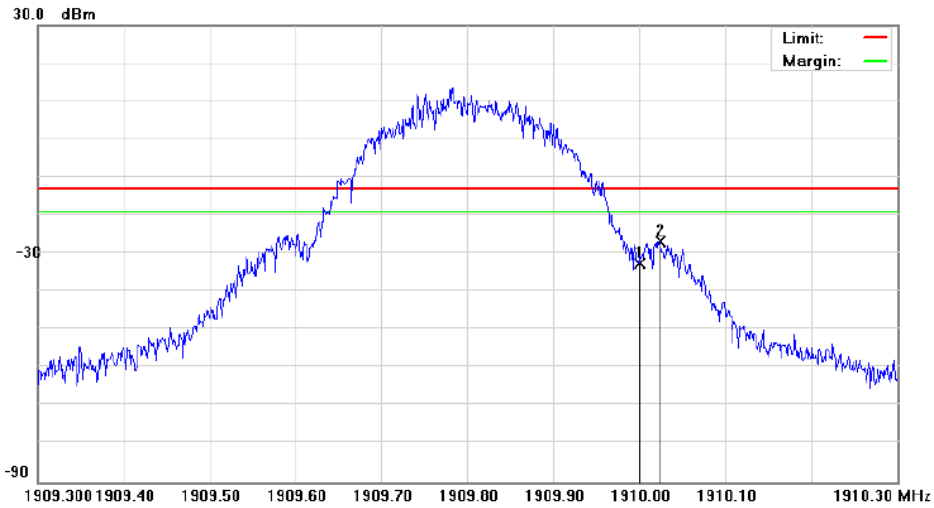
The measurement uncertainty is defined as ± 10Hz

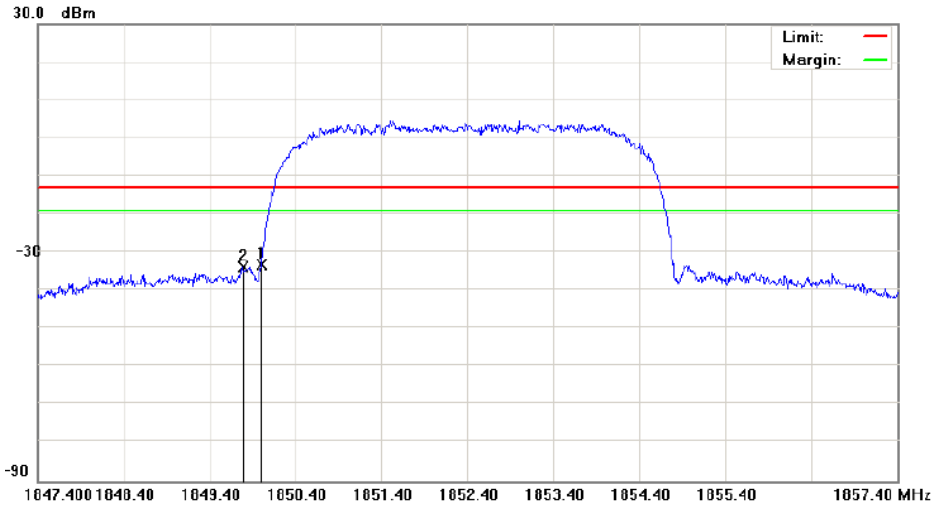
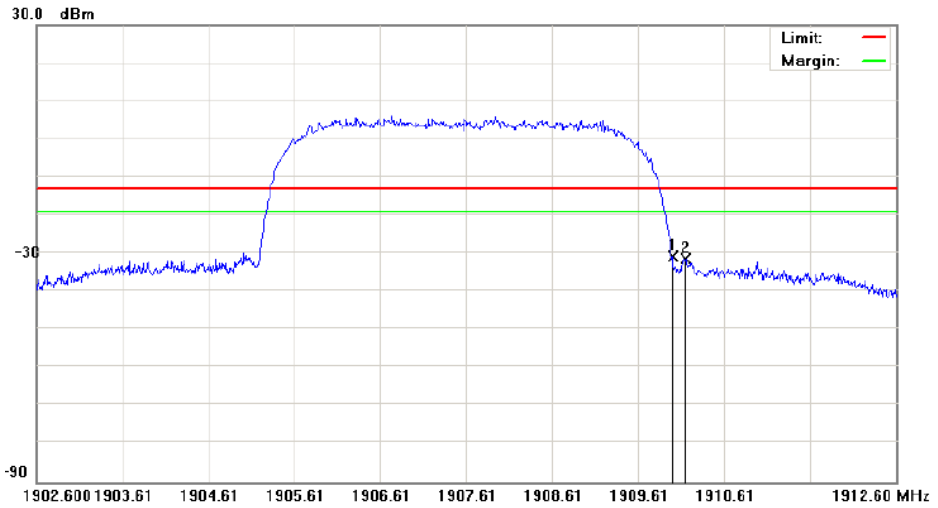
6.6. Test Result

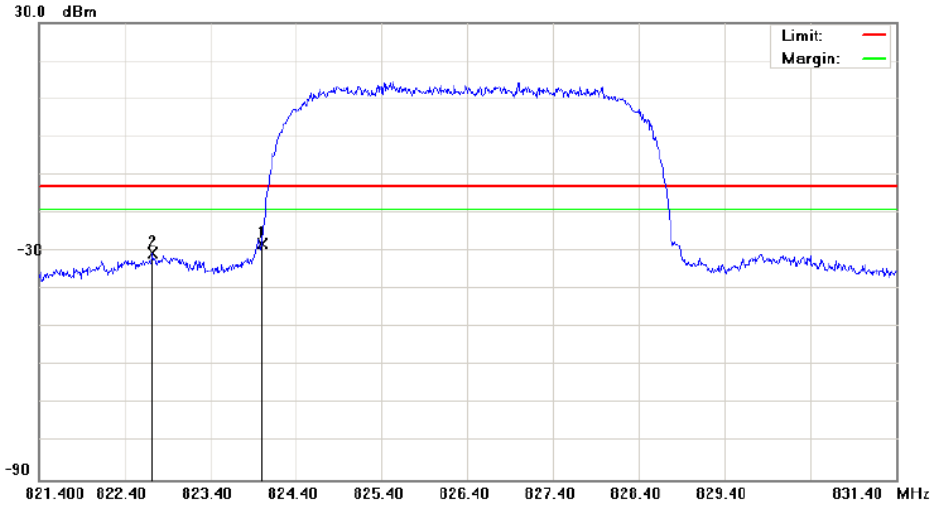
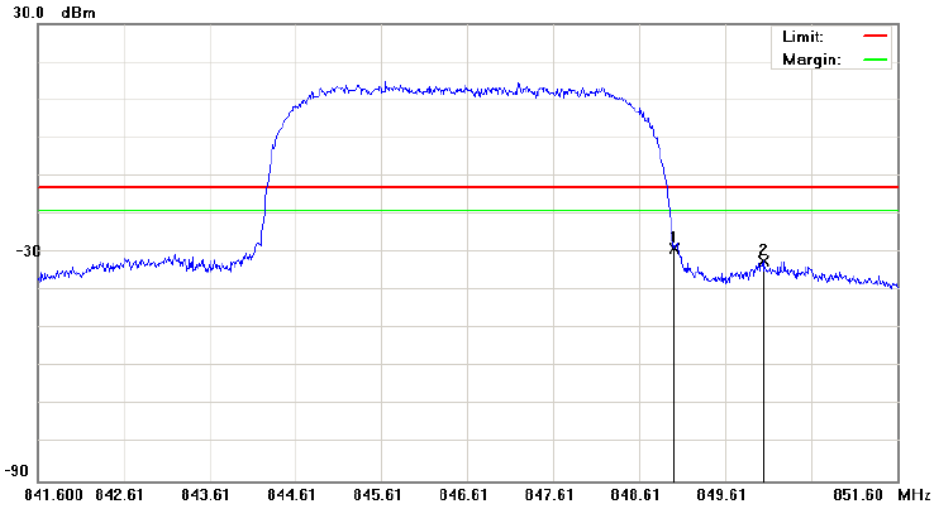
Model Number		LLC7260				
Test Item		Band Edge				
Date of Test		10/13/2014			Test Site	TE05
Bands		Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
GPRS 850	Lower	128	824.0000	-16.73	-13	Pass
	Higher	251	849.0000	-17.93	-13	Pass
GPRS 1900	Lower	512	1850.000	-26.16	-13	Pass
	Higher	810	1910.000	-26.73	-13	Pass
WCDMA Band II	Lower	9262	1850.000	-33.15	-13	Pass
	Higher	9538	1910.000	-30.74	-13	Pass
WCDMA Band V	Lower	4132	824.0000	-28.00	-13	Pass
	Higher	4233	849.0000	-29.06	-13	Pass

6.7. Test Graphs

Mode 1: GPRS 850 Link Mode	
Lower Band	
Higher Band	

Mode 2: GPRS 1900 Link Mode	
Lower Band	
Higher Band	

Mode 5: WCDMA Band II Link Mode	
Lower Band	
Higher Band	

Mode 6: WCDMA Band V Link Mode	
Lower Band	
Higher Band	

7 Conducted Spurious Emission Test

7.1. Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log(P) dB.

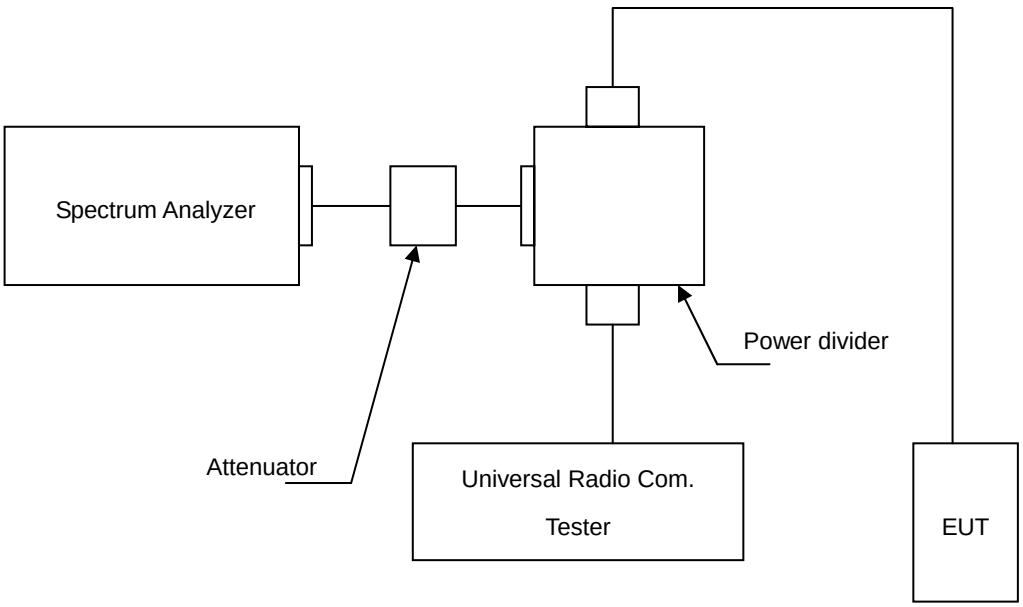
7.2. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Universal Radio Communication Tester	R & S	CMU200	109369	08/11/2014	(2)
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/10/2014	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power Divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE05	TE05	N.C.R.	-----

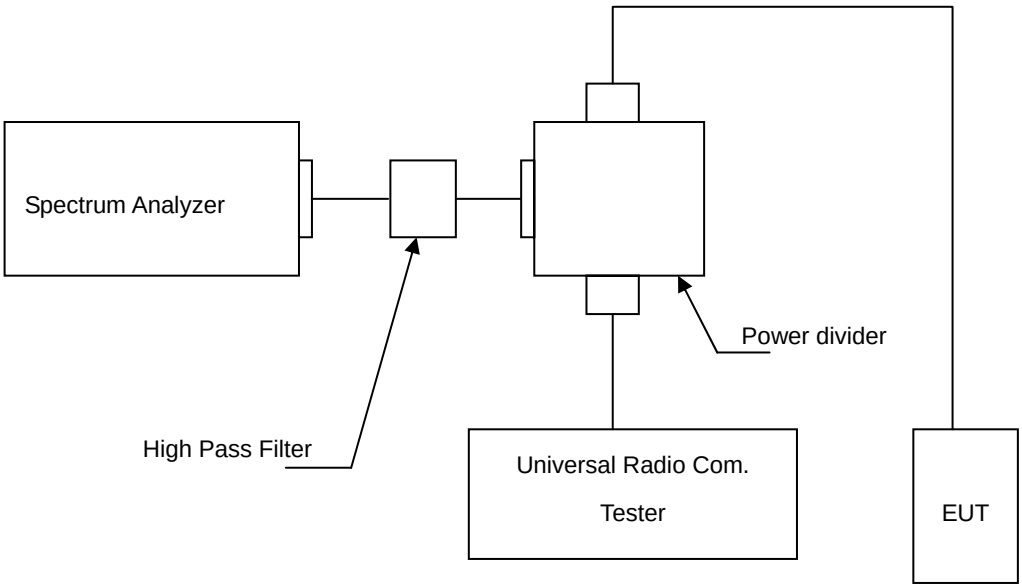
Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.
Note: N.C.R. = No Calibration Request.

7.3. Setup

Below 2.8GHz



Above 2.8GHz



7.4. Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via Power Divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.
4. Test setting at GSM 850 RB>100 kHz, VB>100 kHz; PCS 1900 RB>1MHz, VB>1MHz.

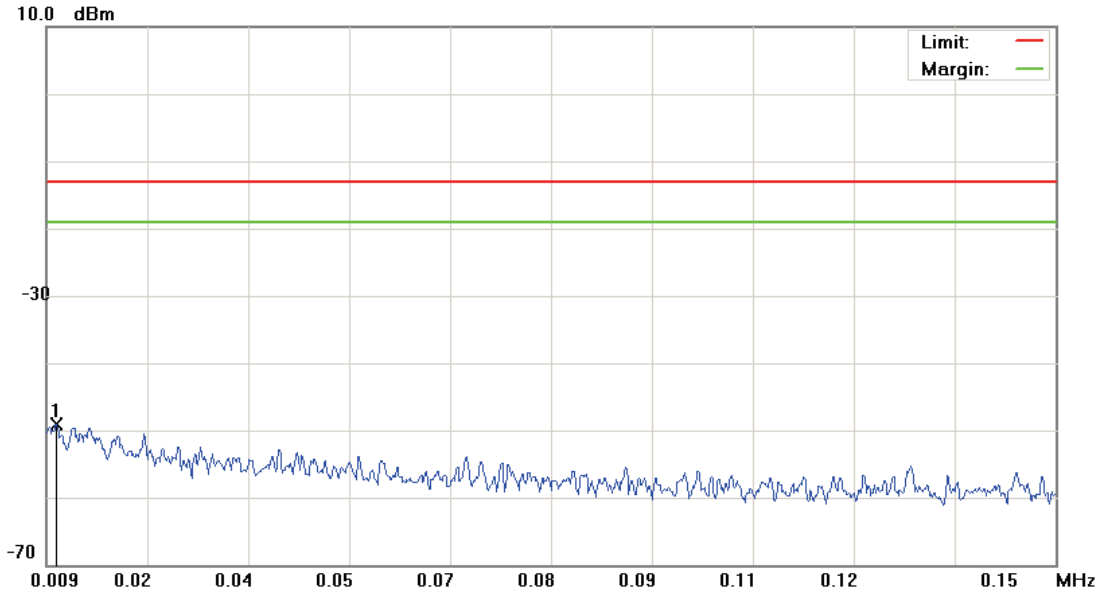
7.5. Uncertainty

The measurement uncertainty is evaluated as ± 2.24 dB.

7.6. Test Result

Model Number	LLC7260		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 1 / Mode 2 / Mode 4 / Mode 5		
Date of Test	10/13/2014	Test Site	TE05

File :LLC7260(CH128) Data :#1 Date: 2014/10/13 Time: 下午 01:37:11



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 850
Note:

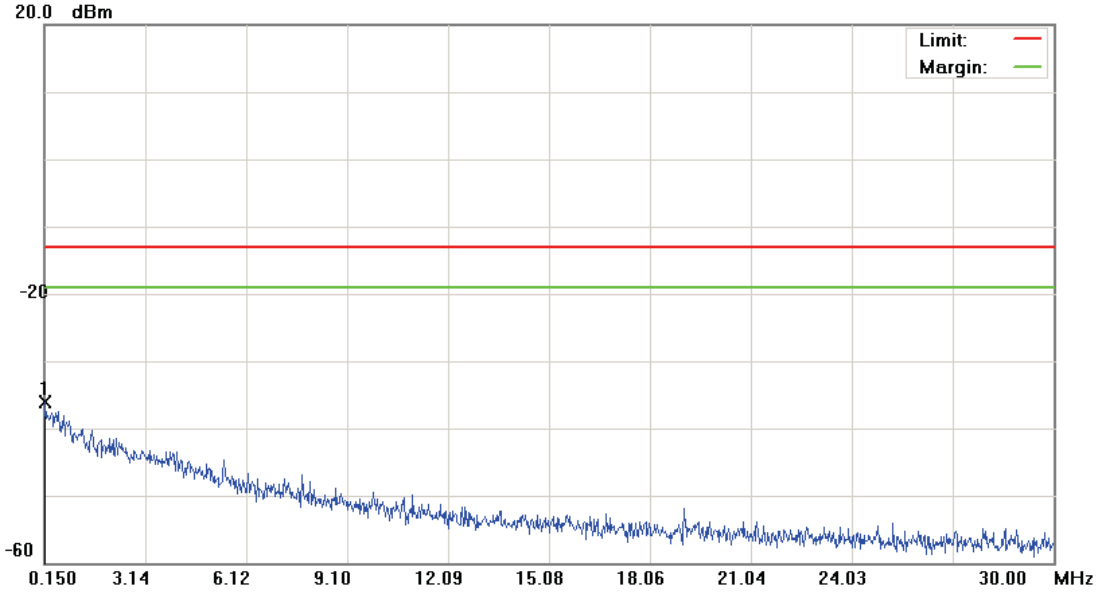
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1 KHz VBW: 3 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.0104	-79.64	30.57	-49.07	-13.00	-36.07	peak			

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

File :LLC7260(CH128) Data :#2 Date: 2014/10/13 Time: 下午 01:37:35



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 850
Note:

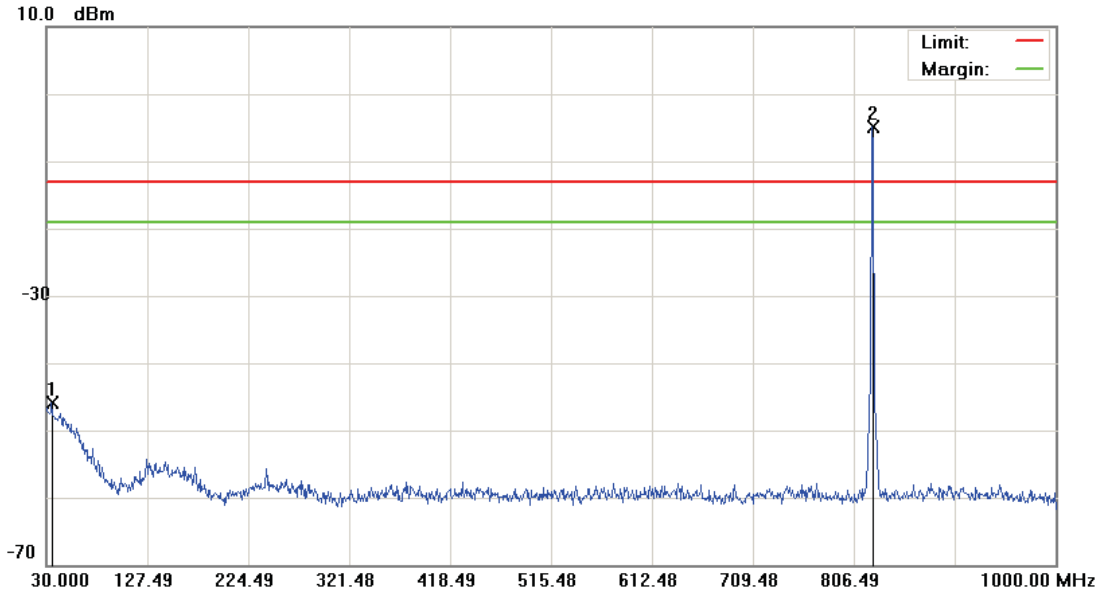
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 10 KHz VBW: 30 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.1798	-66.90	30.75	-36.15	-13.00	-23.15	peak			

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

File :LLC7260(CH128) Data :#3 Date: 2014/10/13 Time: 下午 01:37:59



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 850
Note:

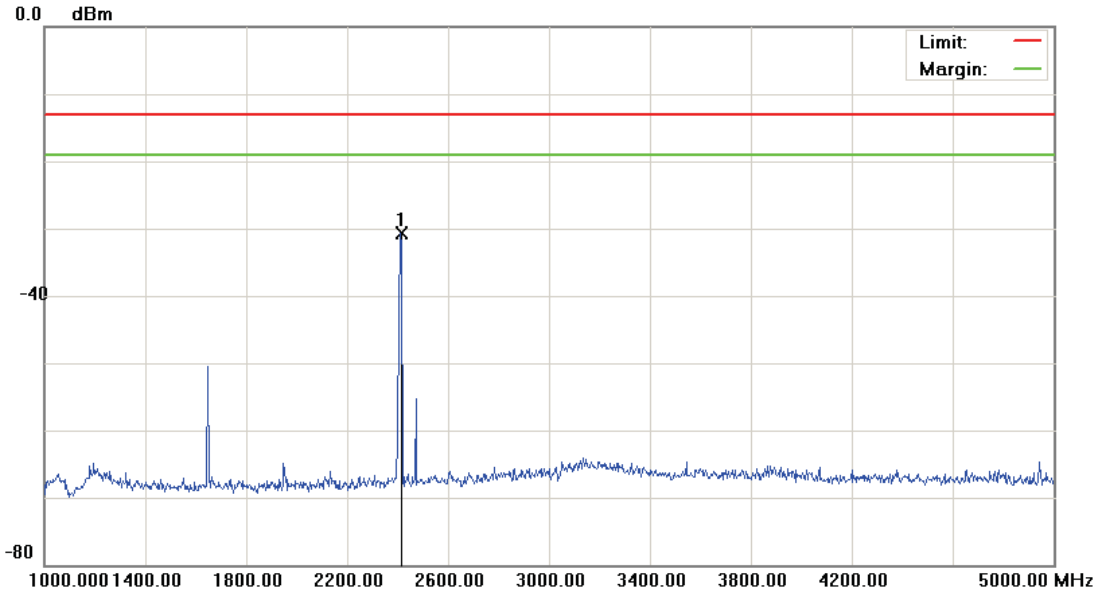
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 100 KHz VBW: 300 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		35.3350	-62.59	16.61	-45.98	-13.00	-32.98	peak			
2	*	823.9450	-8.78	3.83	-4.95	-13.00	8.05	peak			Tx

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

File :LLC7260(CH128) Data :#4 Date: 2014/10/13 Time: 上午 11:08:11



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 850
Note:

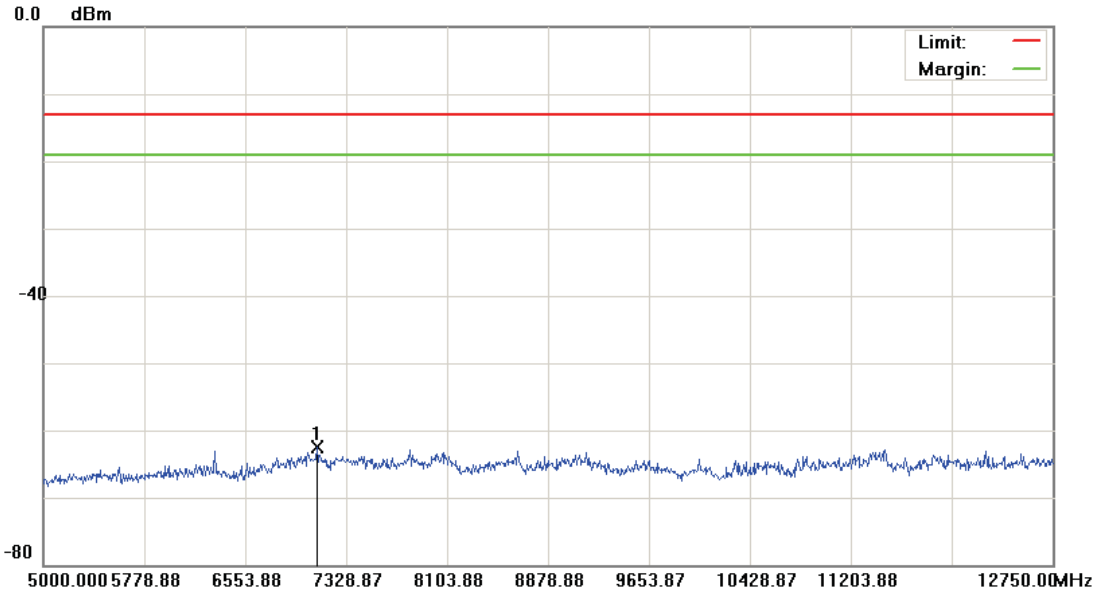
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	2414.000	-35.22	4.46	-30.76	-13.00	-17.76	peak			

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

File :LLC7260(CH128) Data :#5 Date: 2014/10/13 Time: 上午 11:08:34



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 850
Note:

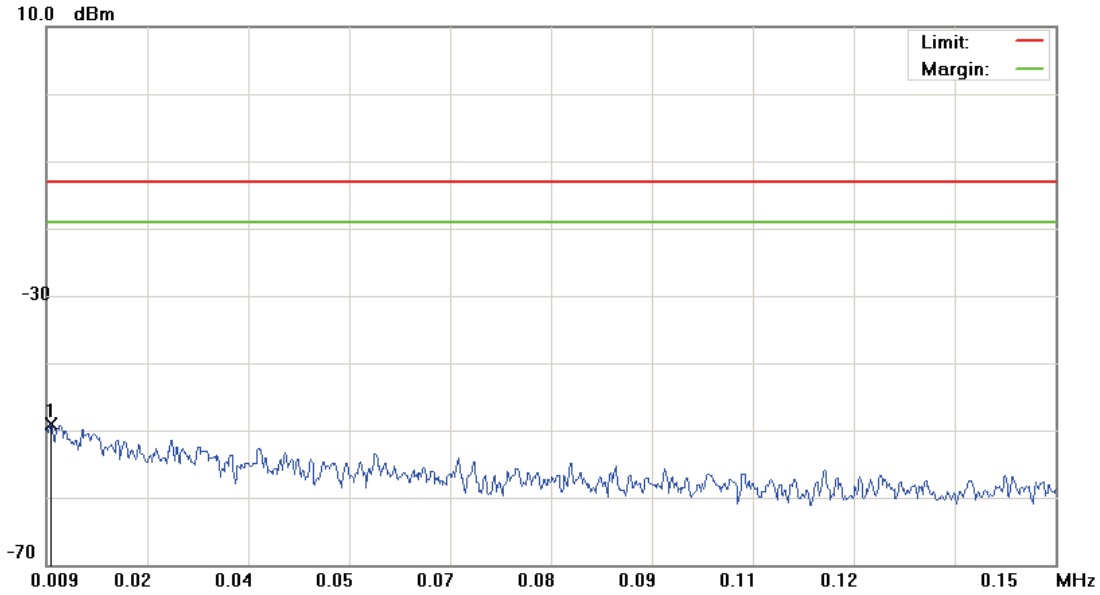
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	7100.250	-67.51	5.09	-62.42	-13.00	-49.42	peak			

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

File :LLC7260(CH190) Data :#1 Date: 2014/10/13 Time: 下午 01:40:54



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 850
Note:

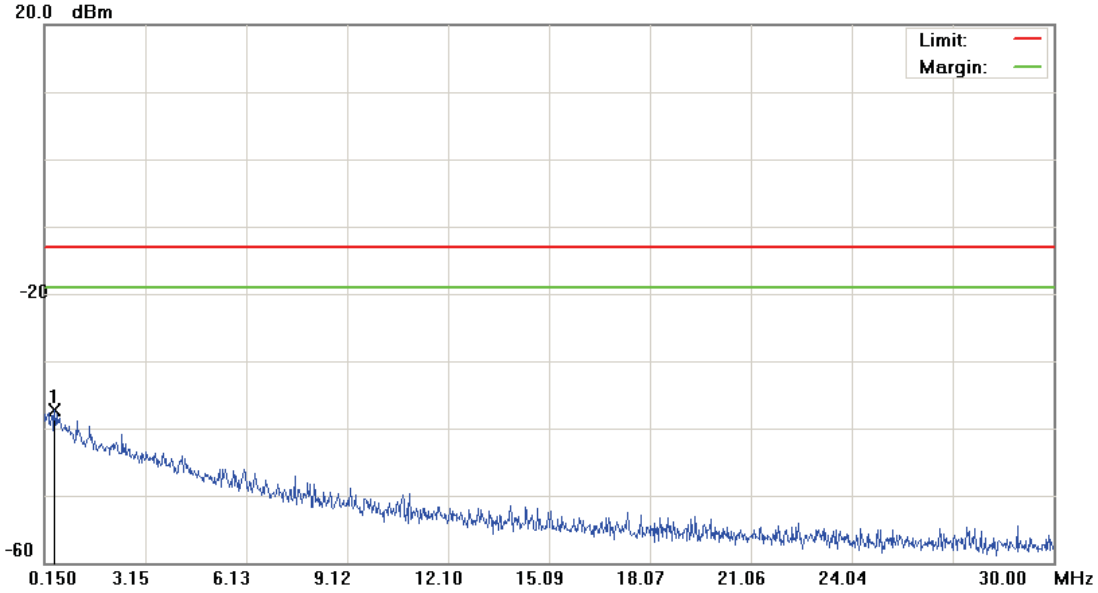
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1 KHz VBW: 3 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.0096	-79.65	30.58	-49.07	-13.00	-36.07	peak			

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

File :LLC7260(CH190) Data :#2 Date: 2014/10/13 Time: 下午 01:41:18



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 850
Note:

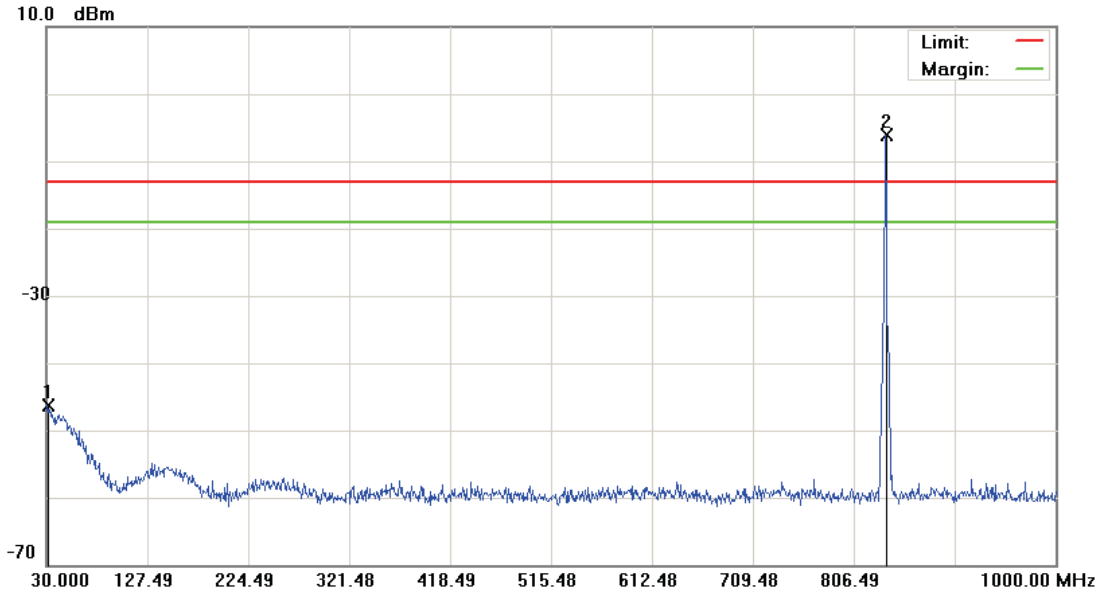
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 10 KHz VBW: 30 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.4485	-69.35	31.96	-37.39	-13.00	-24.39	peak			

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

File :LLC7260(CH190) Data :#3 Date: 2014/10/13 Time: 下午 01:41:42



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 850
Note:

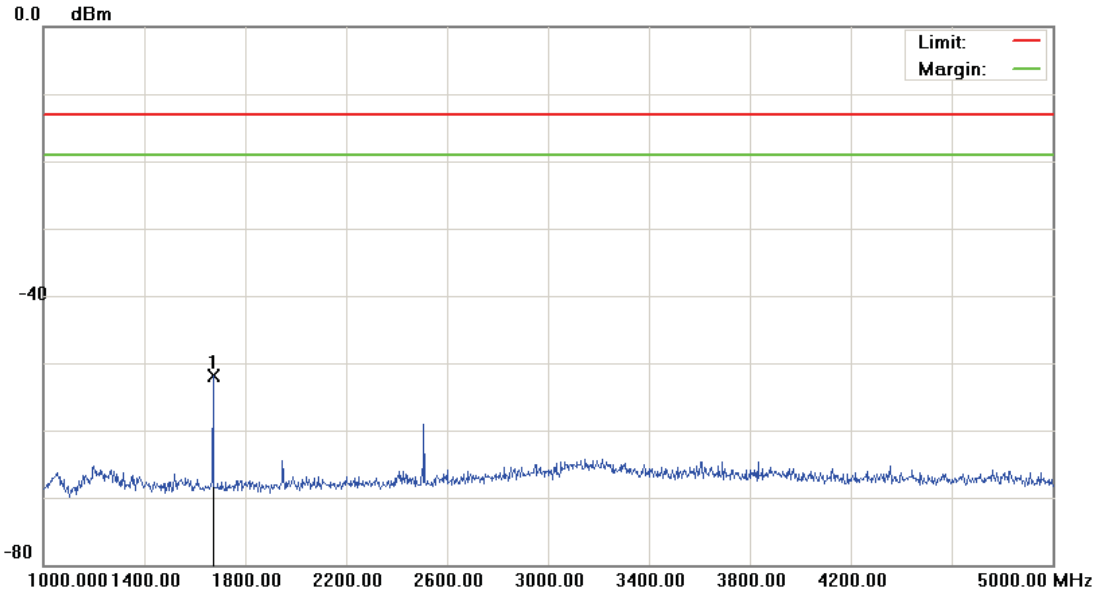
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 100 KHz VBW: 300 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		31.4550	-63.32	17.05	-46.27	-13.00	-33.27	peak			
2	*	836.5550	-10.00	3.96	-6.04	-13.00	6.96	peak			Tx

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

File :LLC7260(CH190) Data :#4 Date: 2014/10/13 Time: 上午 11:09:22



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 850
Note:

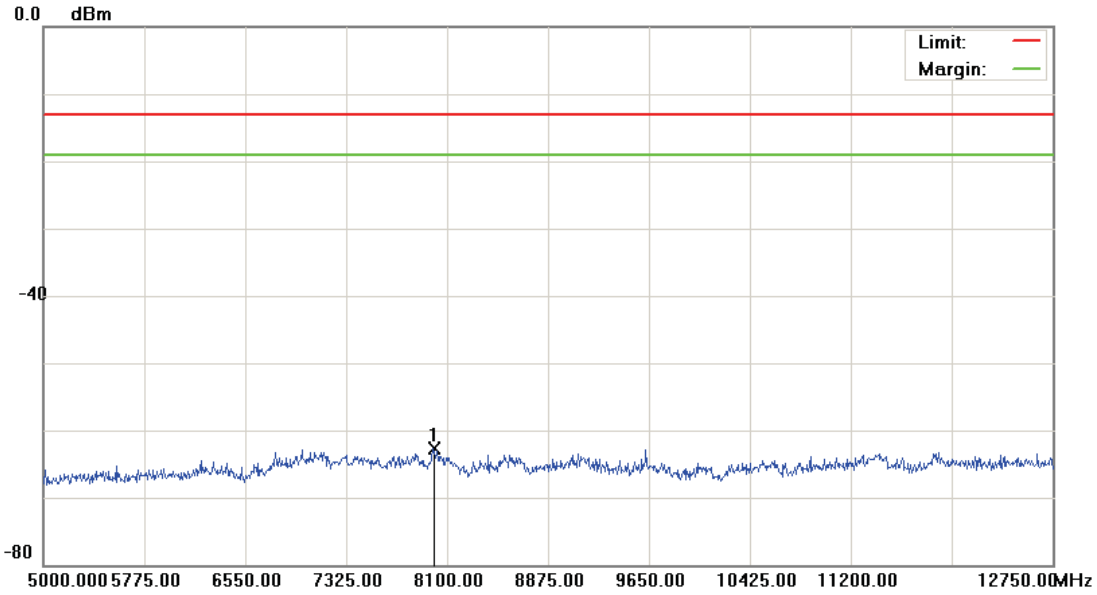
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1674.000	-56.28	4.46	-51.82	-13.00	-38.82	peak			

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

File :LLC7260(CH190) Data :#5 Date: 2014/10/13 Time: 上午 11:09:45



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 850
Note:

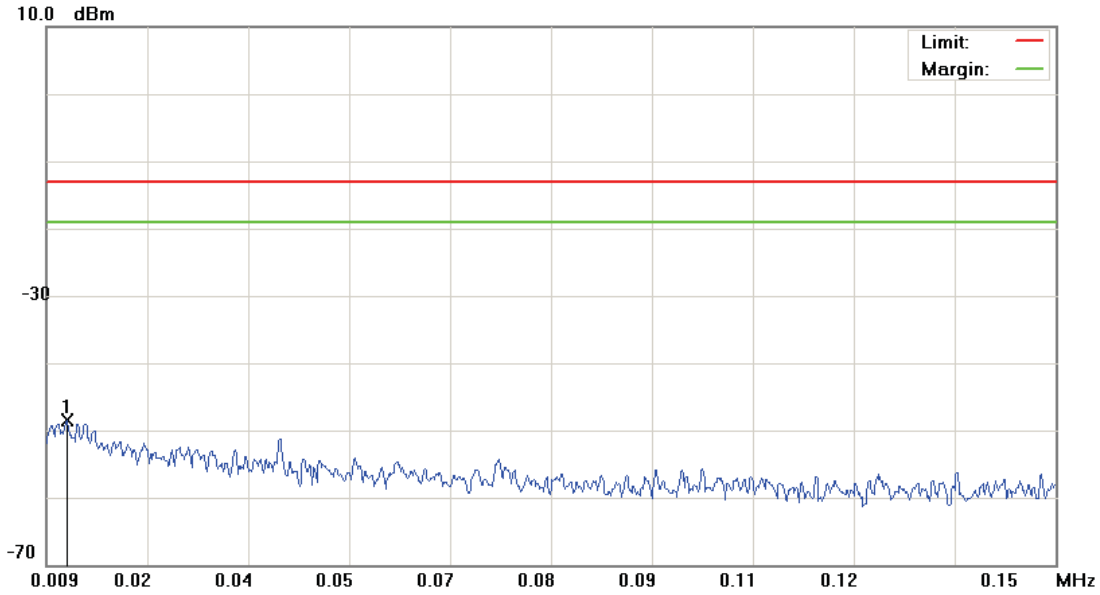
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	7995.375	-68.30	5.53	-62.77	-13.00	-49.77	peak			

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

File :LLC7260(CH251) Data :#1 Date: 2014/10/13 Time: 下午 01:49:08



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 850
Note:

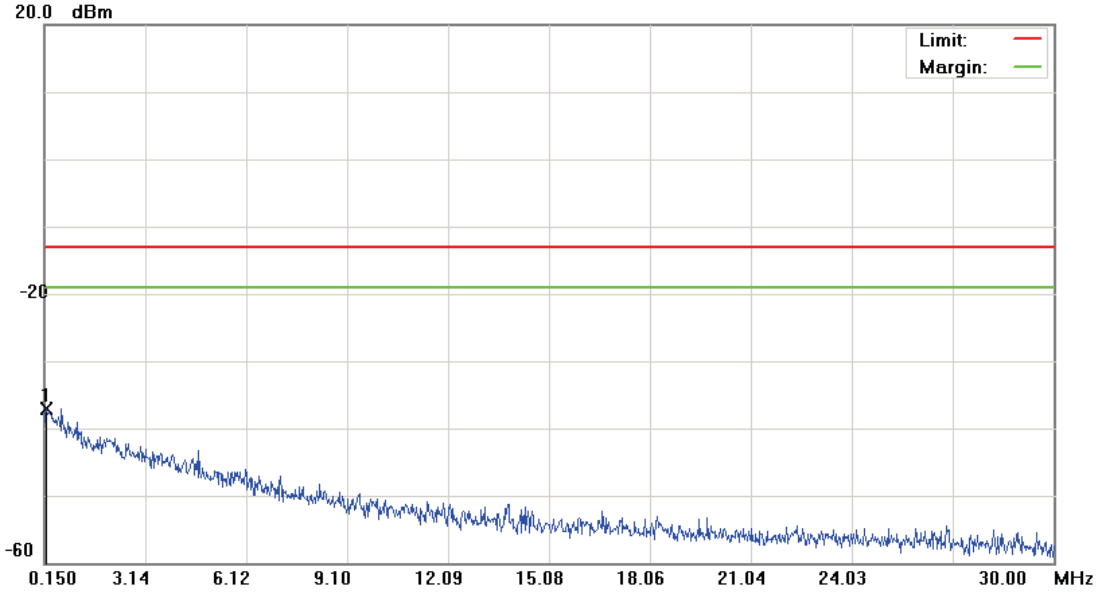
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1 KHz VBW: 3 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.0120	-79.05	30.57	-48.48	-13.00	-35.48	peak			

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

File :LLC7260(CH251) Data :#2 Date: 2014/10/13 Time: 下午 01:49:33



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 850
Note:

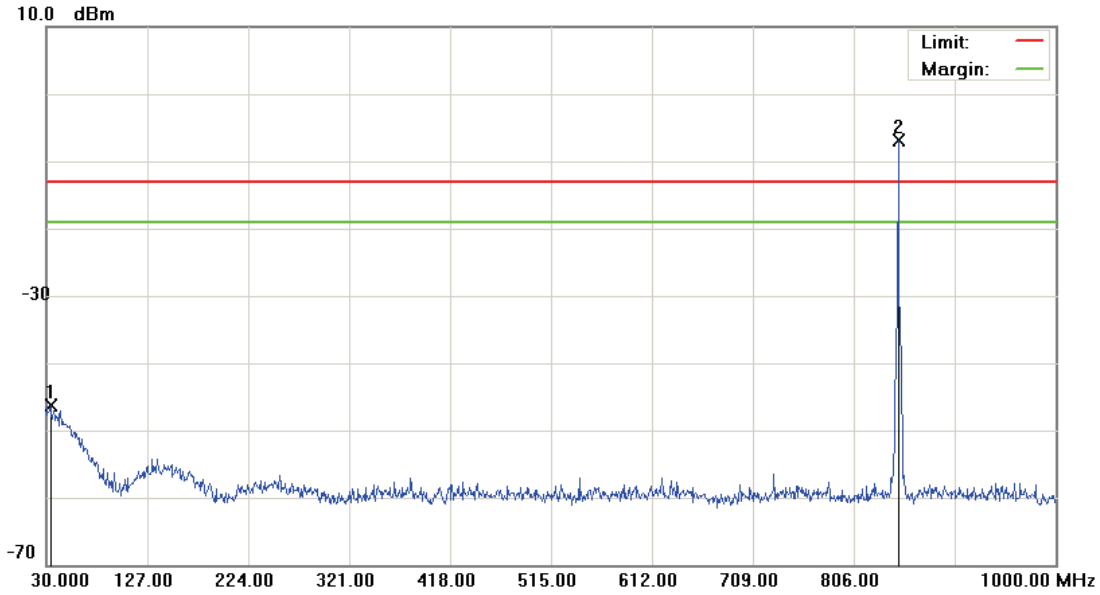
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 10 KHz VBW: 30 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.2097	-68.14	31.00	-37.14	-13.00	-24.14	peak			

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

File :LLC7260(CH251) Data :#3 Date: 2014/10/13 Time: 下午 01:49:57



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 850
Note:

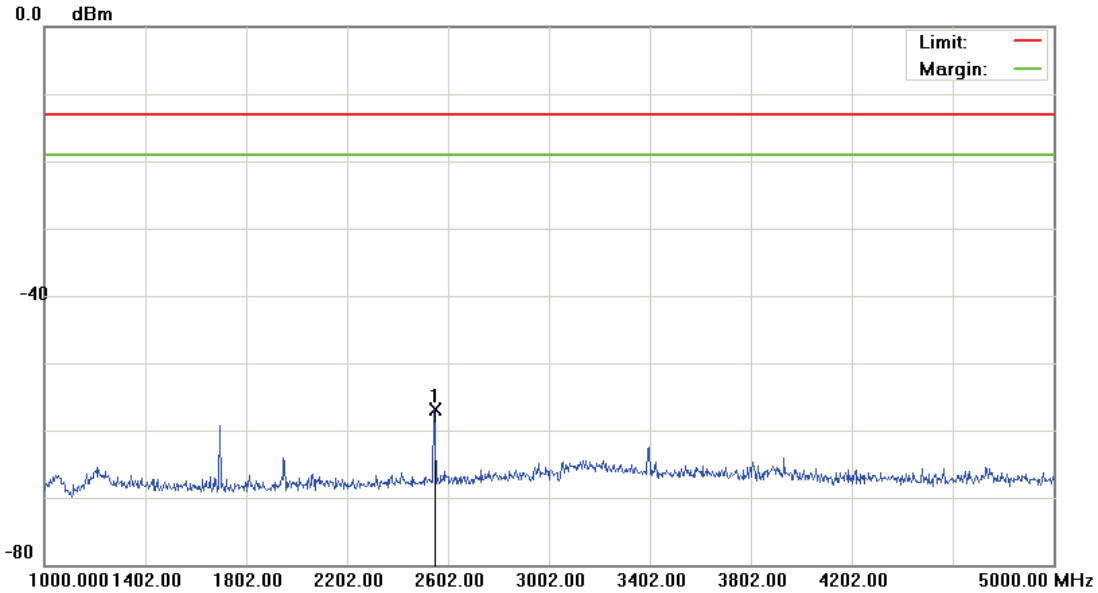
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 100 KHz VBW: 300 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		34.3650	-62.95	16.72	-46.23	-13.00	-33.23	peak			
2	*	848.6800	-10.88	3.98	-6.90	-13.00	6.10	peak			Tx

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

File :LLC7260(CH251) Data :#4 Date: 2014/10/13 Time: 上午 11:10:33



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 850
Note:

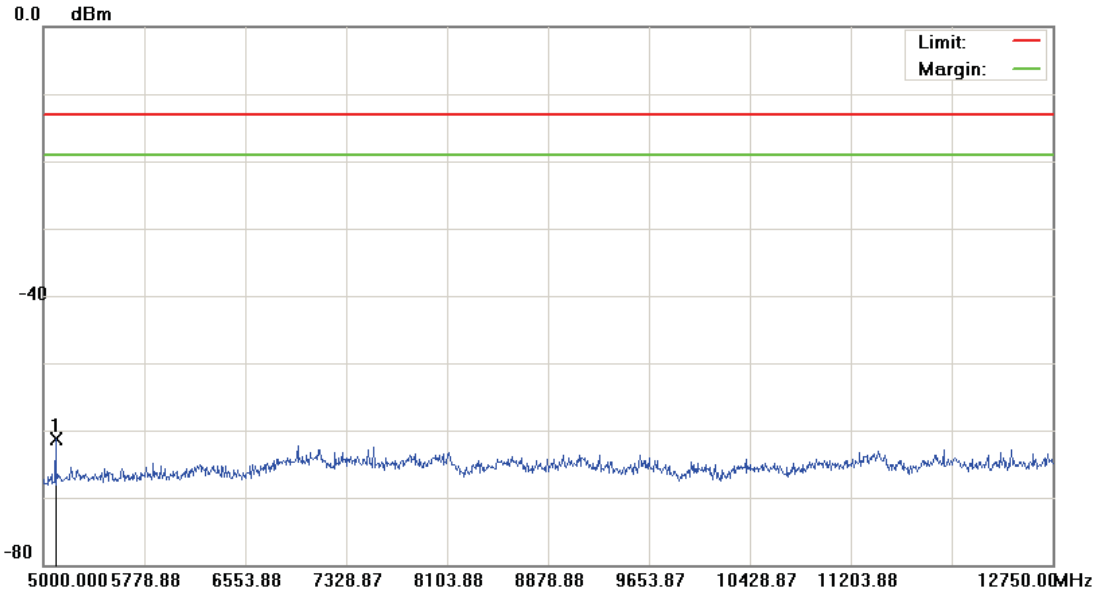
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	2546.000	-61.32	4.45	-56.87	-13.00	-43.87	peak			

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

File :LLC7260(CH251) Data :#5 Date: 2014/10/13 Time: 上午 11:10:56



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 850
Note:

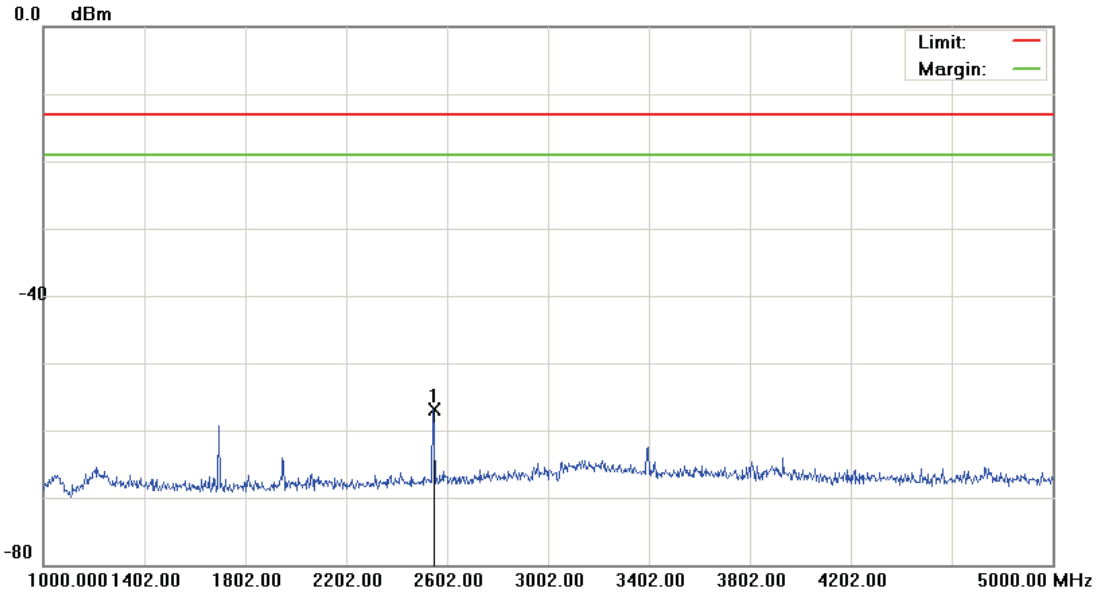
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	5093.000	-65.75	4.52	-61.23	-13.00	-48.23	peak			

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

File :LLC7260(CH251) Data :#4 Date: 2014/10/13 Time: 上午 11:10:33



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 850
Note:

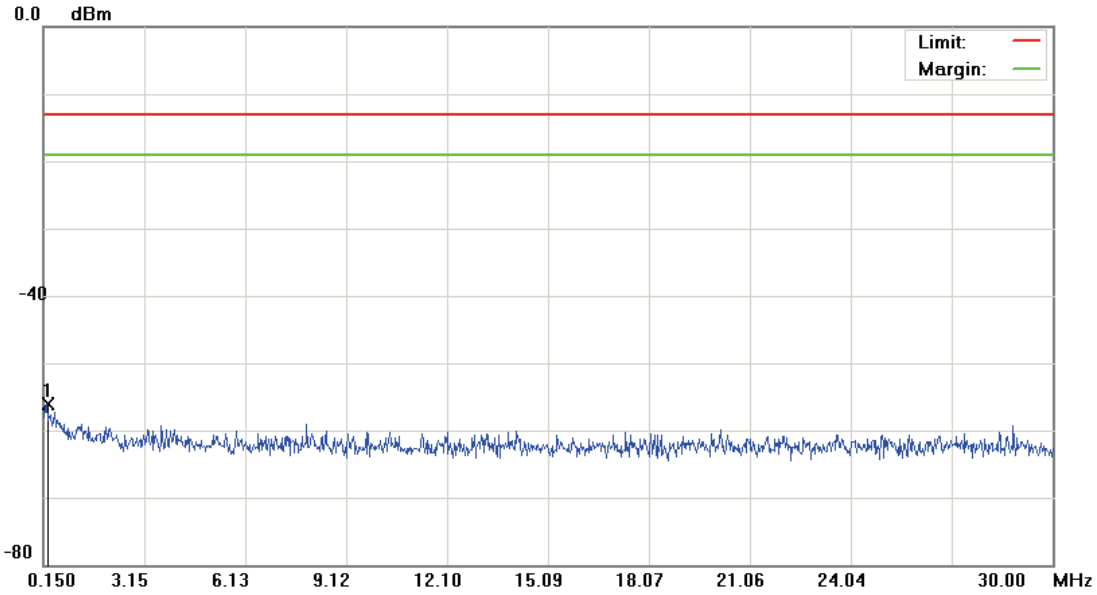
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	2546.000	-61.32	4.45	-56.87	-13.00	-43.87	peak			

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

File :LLC7260(CH512) Data :#2 Date: 2014/10/13 Time: 上午 11:14:29



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

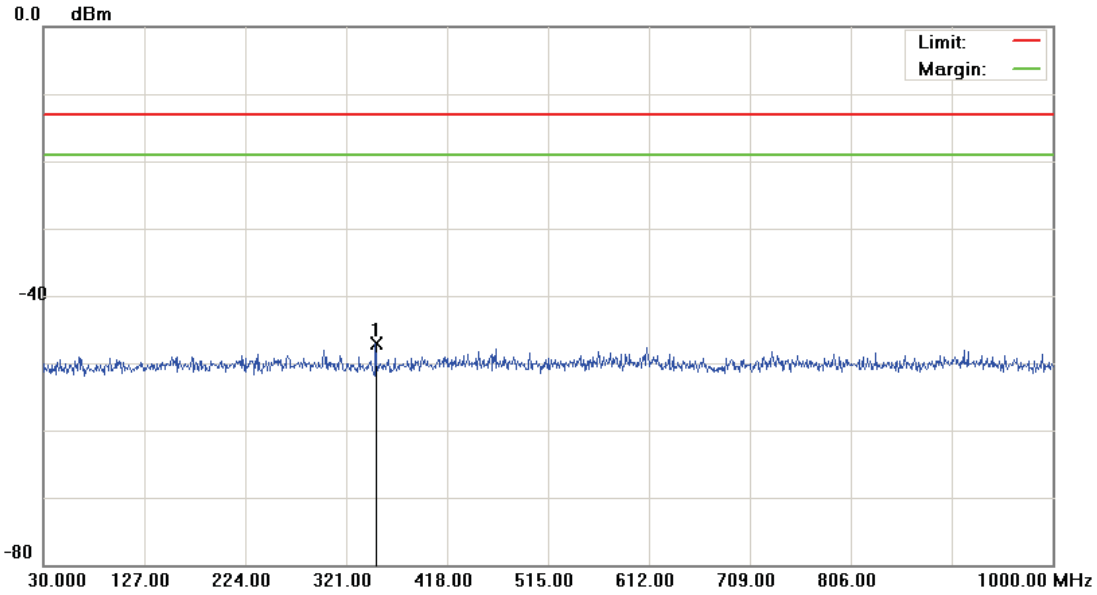
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 10 KHz VBW: 30 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.2545	-68.56	12.53	-56.03	-13.00	-43.03	peak			

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

File :LLC7260(CH512) Data :#3 Date: 2014/10/13 Time: 上午 11:14:53



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

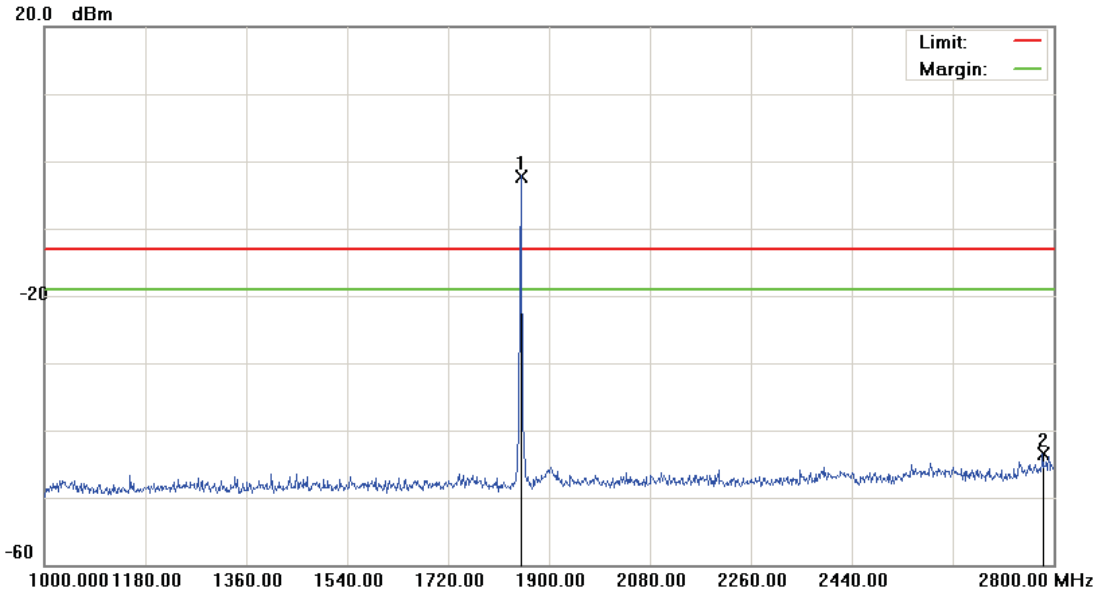
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 100 KHz VBW: 300 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	349.6150	-60.35	13.19	-47.16	-13.00	-34.16	peak			

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

File :LLC7260(CH512) Data :#4 Date: 2014/10/13 Time: 下午 01:19:38



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

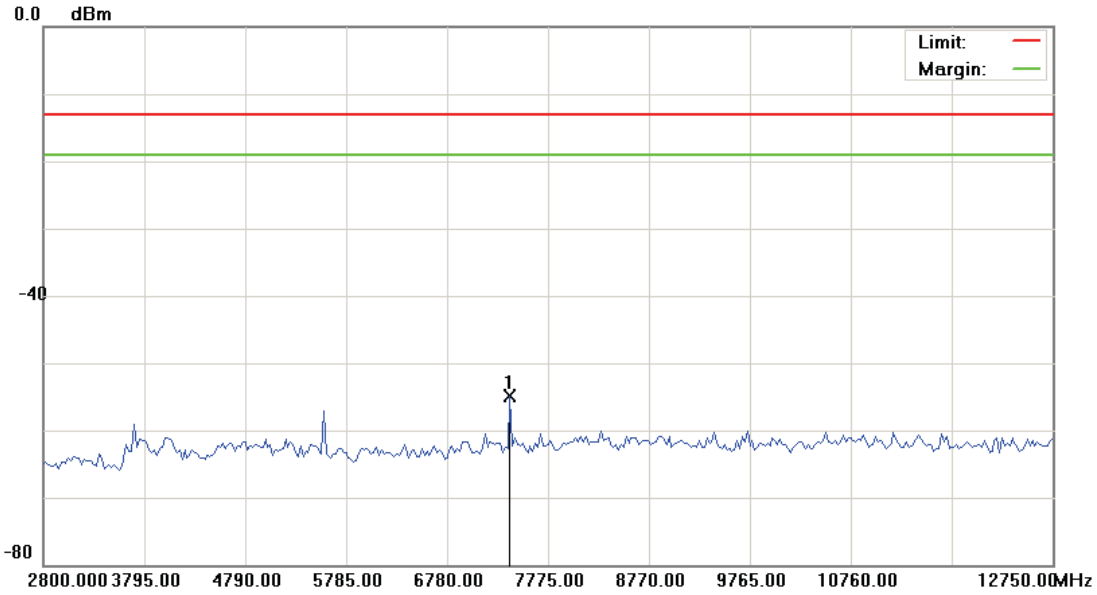
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1850.500	-6.46	4.26	-2.20	-13.00	10.80	peak			Tx
2		2781.100	-49.38	5.88	-43.50	-13.00	-30.50	peak			

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

File :LLC7260(CH512) Data :#5 Date: 2014/10/13 Time: 上午 10:12:49



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

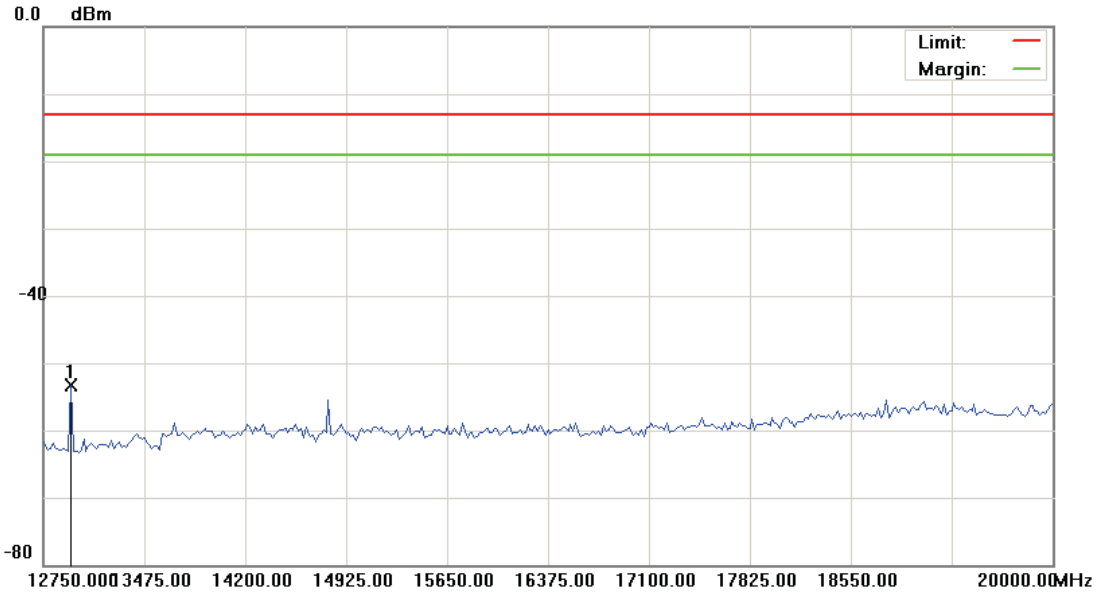
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	7401.875	-59.95	5.09	-54.86	-13.00	-41.86	peak			

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

File :LLC7260(CH512) Data :#6 Date: 2014/10/13 Time: 上午 10:13:08



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

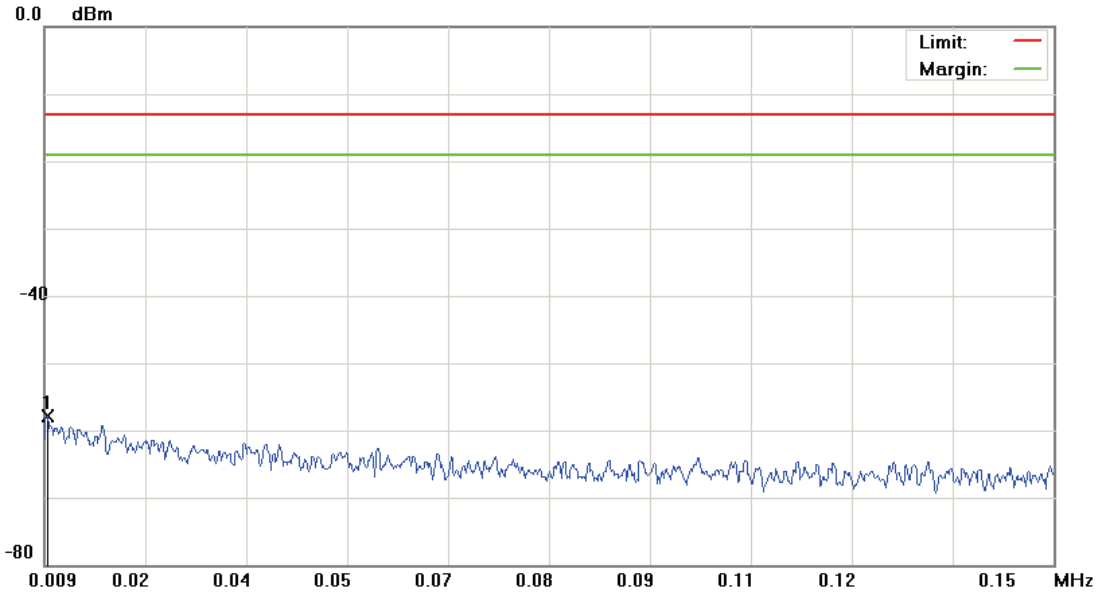
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	12949.375	-58.66	5.43	-53.23	-13.00	-40.23	peak			

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

File :LLC7260(CH661) Data :#1 Date: 2014/10/13 Time: 上午 11:16:23



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

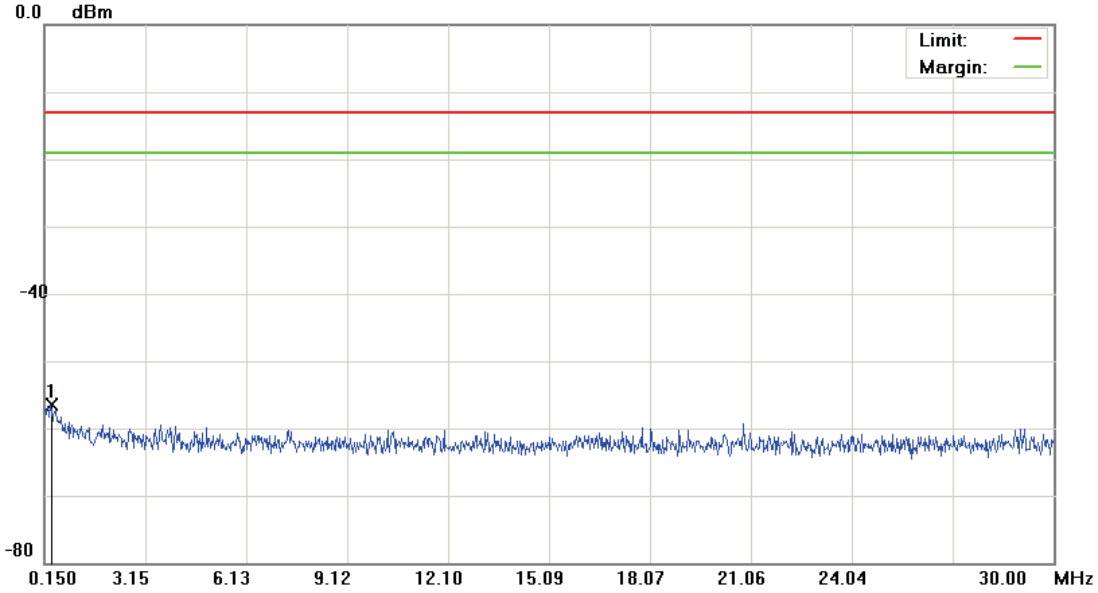
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1 KHz VBW: 3 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.0094	-69.14	11.33	-57.81	-13.00	-44.81	peak			

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

File :LLC7260(CH661) Data :#2 Date: 2014/10/13 Time: 上午 11:16:47



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

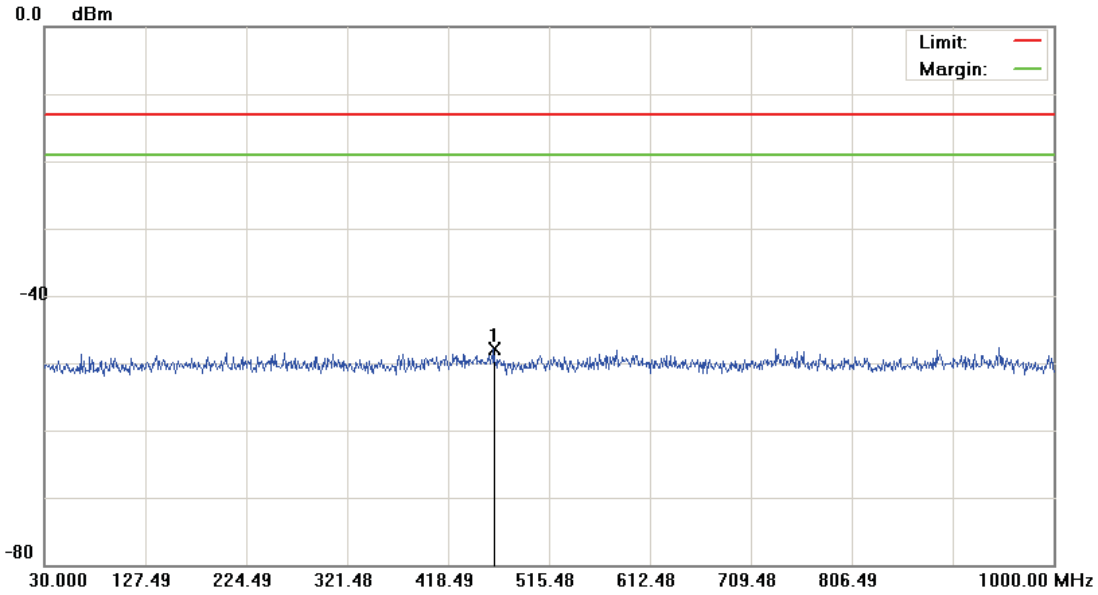
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 10 KHz VBW: 30 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.3440	-69.16	12.70	-56.46	-13.00	-43.46	peak			

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

File :LLC7260(CH661) Data :#3 Date: 2014/10/13 Time: 上午 11:17:11



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

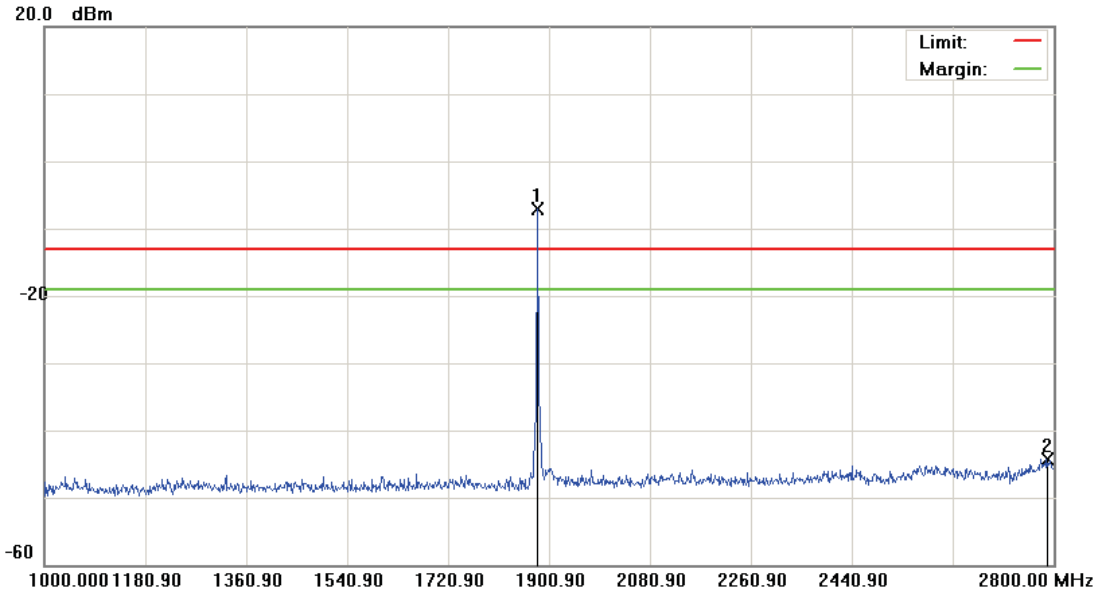
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 100 KHz VBW: 300 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	462.1350	-61.01	13.20	-47.81	-13.00	-34.81	peak			

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

File :LLC7260(CH661) Data :#4 Date: 2014/10/13 Time: 下午 01:20:51



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

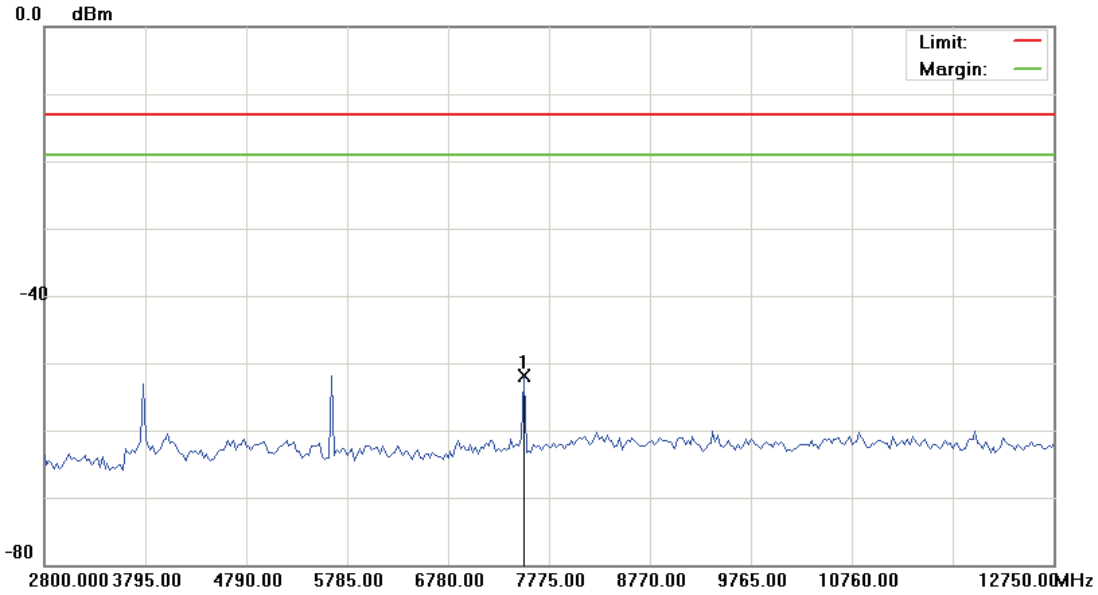
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1880.200	-11.79	4.65	-7.14	-13.00	5.86	peak			Tx
2		2788.300	-50.24	5.89	-44.35	-13.00	-31.35	peak			

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

File :LLC7260(CH661) Data :#5 Date: 2014/10/13 Time: 上午 10:13:55



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

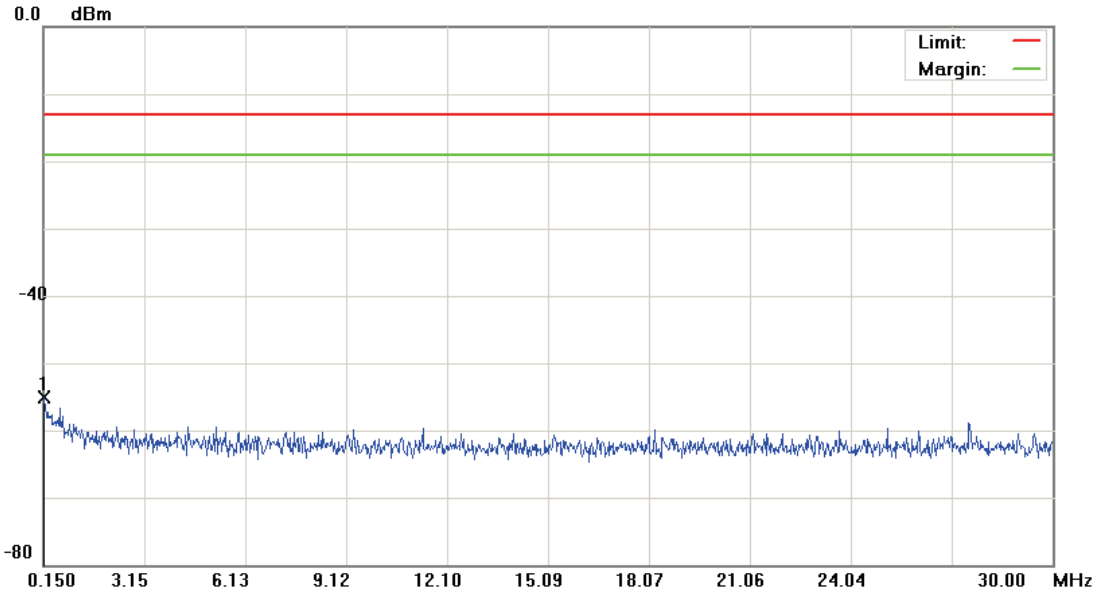
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	7526.250	-56.86	5.05	-51.81	-13.00	-38.81	peak			

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

File :LLC7260(CH810) Data :#2 Date: 2014/10/13 Time: 上午 11:25:43



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

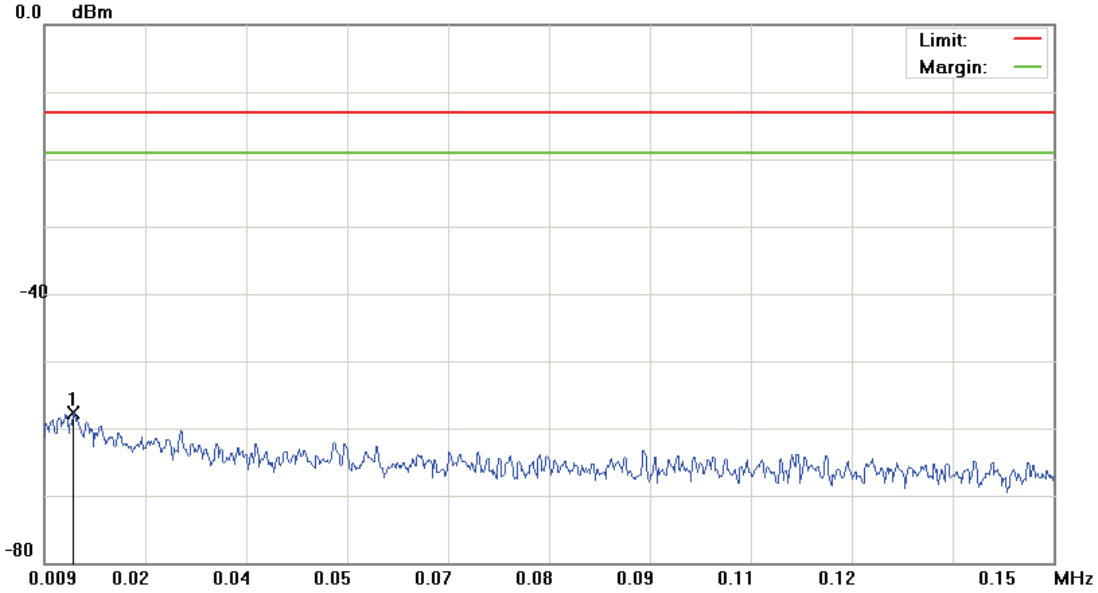
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 10 KHz VBW: 30 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.1650	-67.64	12.46	-55.18	-13.00	-42.18	peak			

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

File :LLC7260(CH810) Data :#1 Date: 2014/10/13 Time: 上午 11:25:19



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

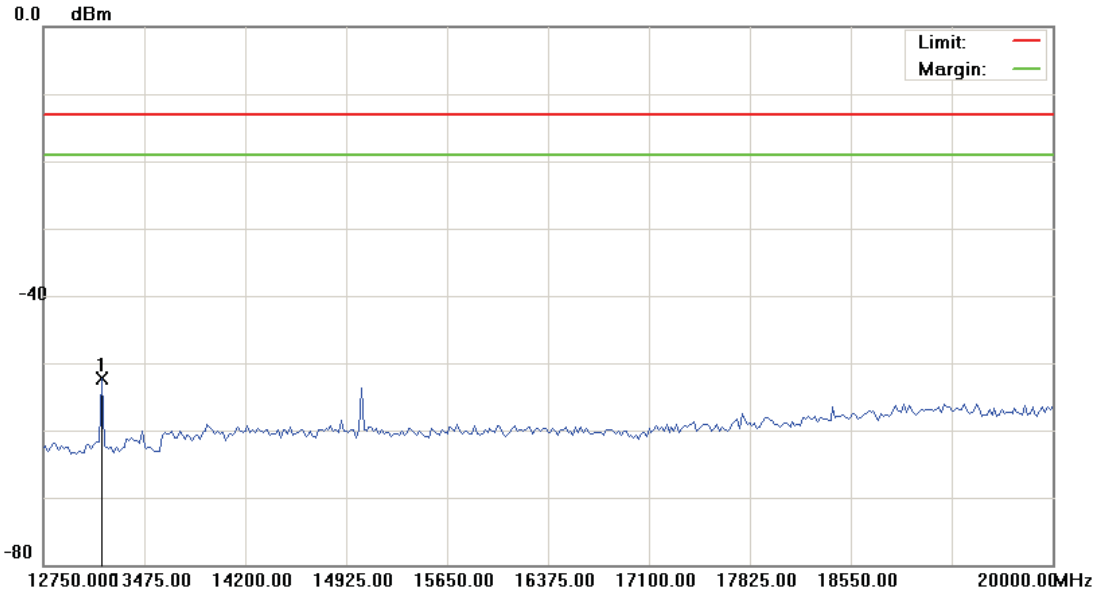
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1 KHz VBW: 3 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.0131	-69.04	11.37	-57.67	-13.00	-44.67	peak			

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

File :LLC7260(CH661) Data :#6 Date: 2014/10/13 Time: 上午 10:14:14



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

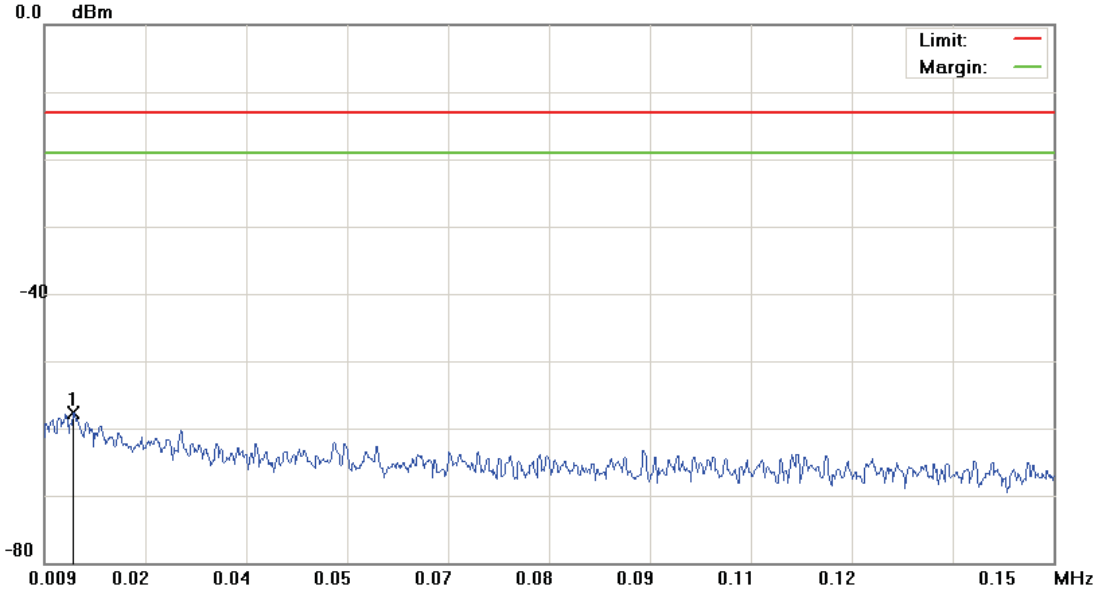
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	13166.875	-57.80	5.49	-52.31	-13.00	-39.31	peak			

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

File :LLC7260(CH810) Data :#1 Date: 2014/10/13 Time: 上午 11:25:19



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

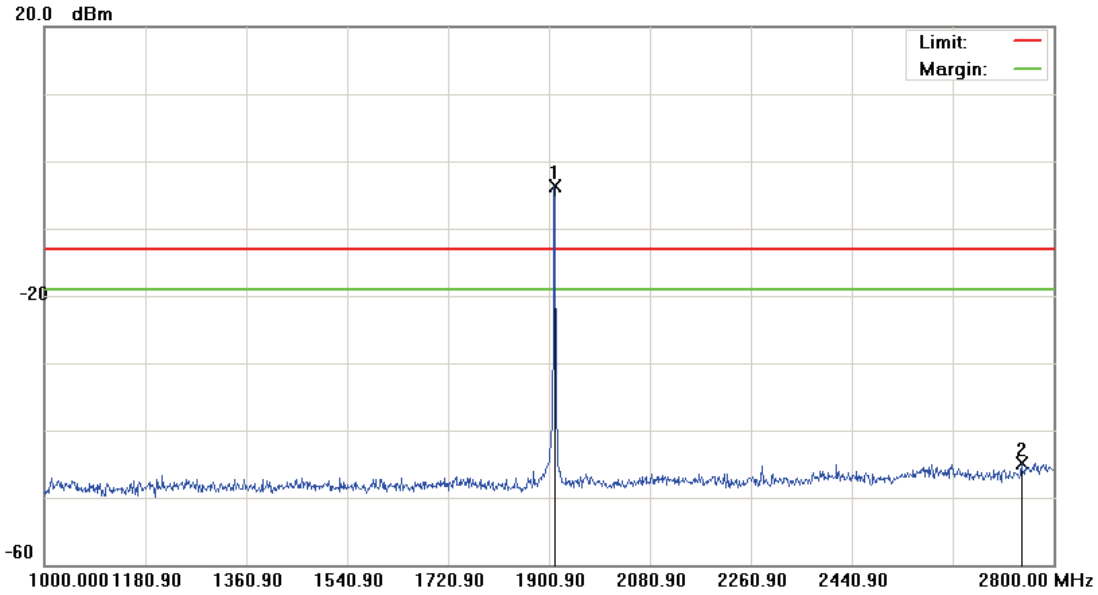
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1 KHz VBW: 3 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.0131	-69.04	11.37	-57.67	-13.00	-44.67	peak			

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

File :LLC7260(CH810) Data :#4 Date: 2014/10/13 Time: 下午 01:22:01



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

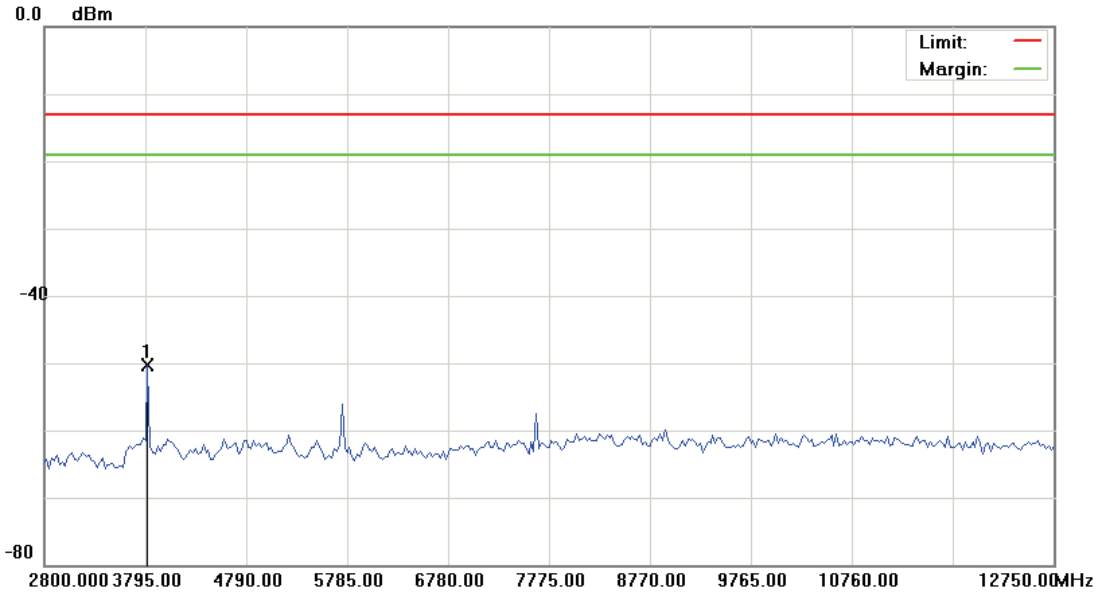
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1909.900	-9.36	5.71	-3.65	-13.00	9.35	peak			Tx
2		2743.300	-50.11	5.22	-44.89	-13.00	-31.89	peak			

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

File :LLC7260(CH810) Data :#5 Date: 2014/10/13 Time: 上午 10:16:18



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

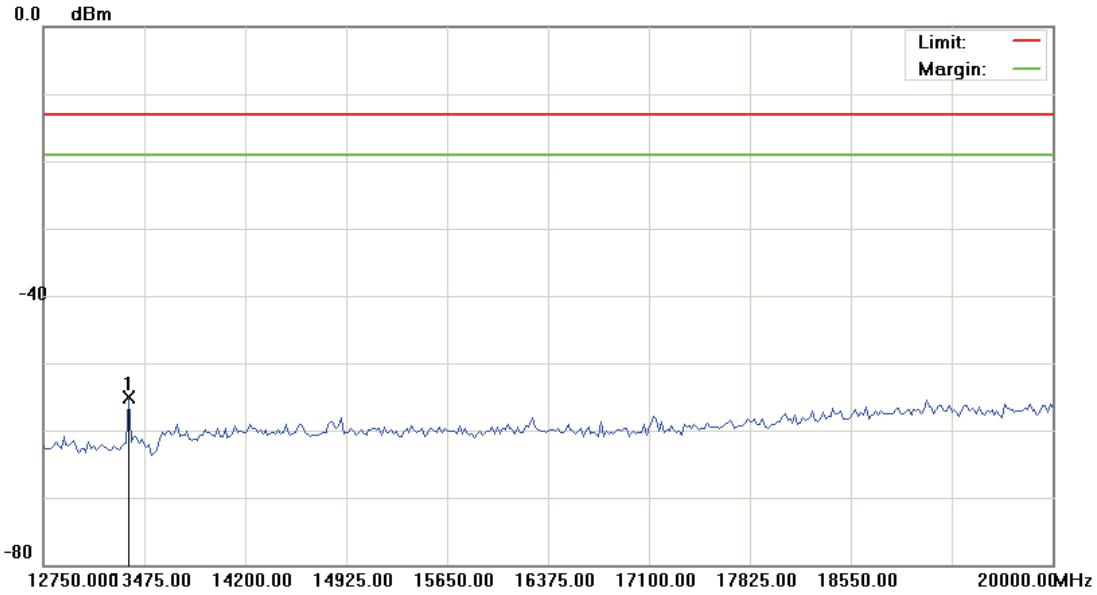
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	3819.875	-55.25	4.91	-50.34	-13.00	-37.34	peak			

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

File :LLC7260(CH810) Data :#6 Date: 2014/10/13 Time: 上午 10:16:37



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: GPRS 1900
Note:

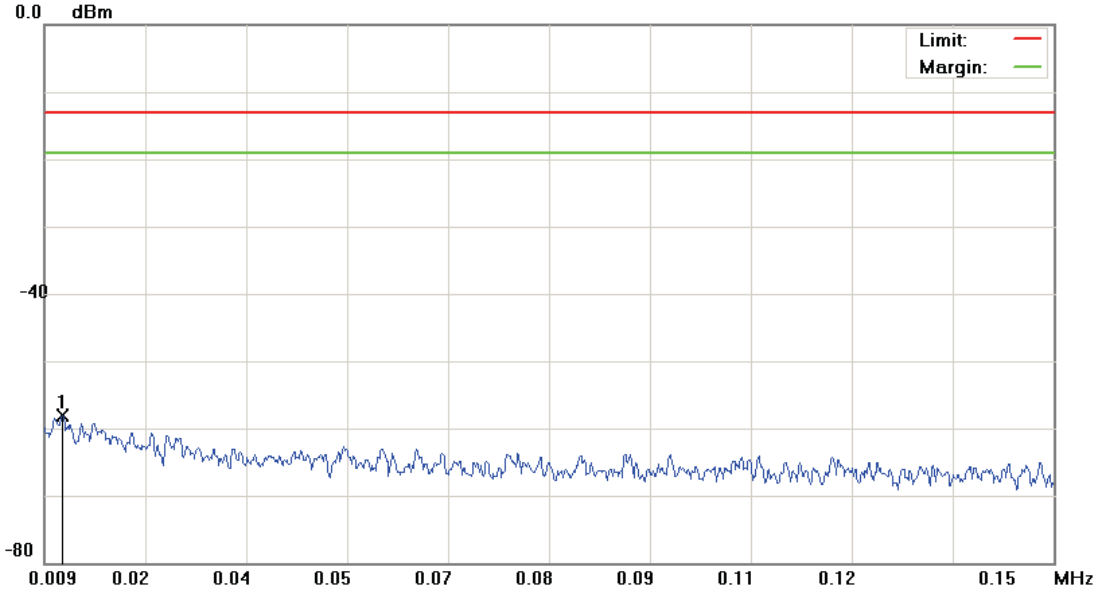
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	13366.250	-60.55	5.55	-55.00	-13.00	-42.00	peak			

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

File :LLC7260(CH9262) Data :#1 Date: 2014/10/13 Time: 上午 11:47:19



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

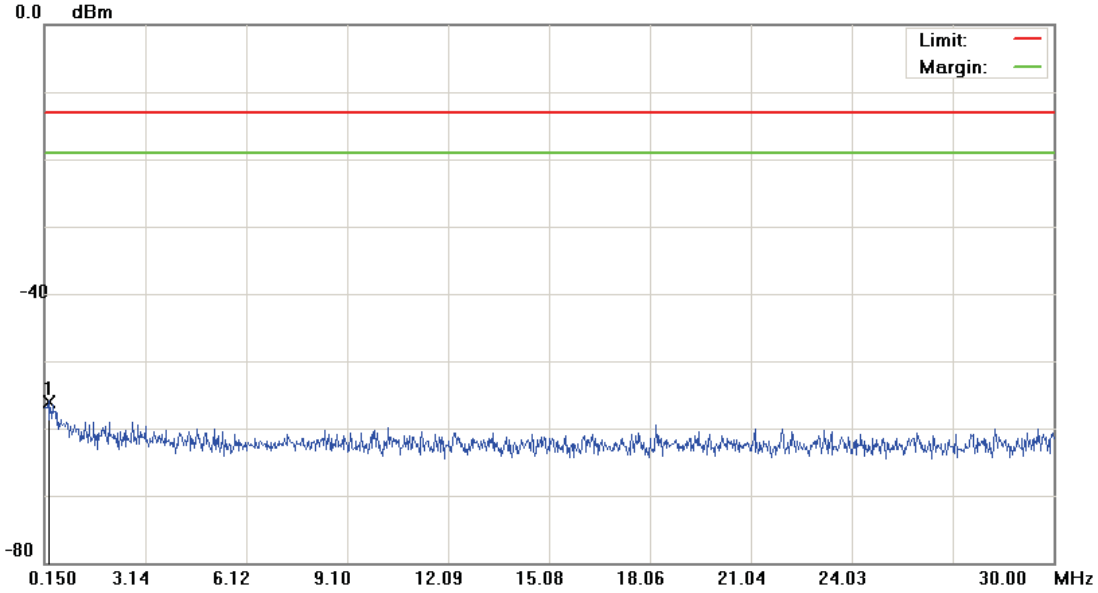
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1 KHz VBW: 3 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.0115	-69.39	11.35	-58.04	-13.00	-45.04	peak			

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

File :LLC7260(CH9262) Data :#2 Date: 2014/10/13 Time: 上午 11:47:43



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

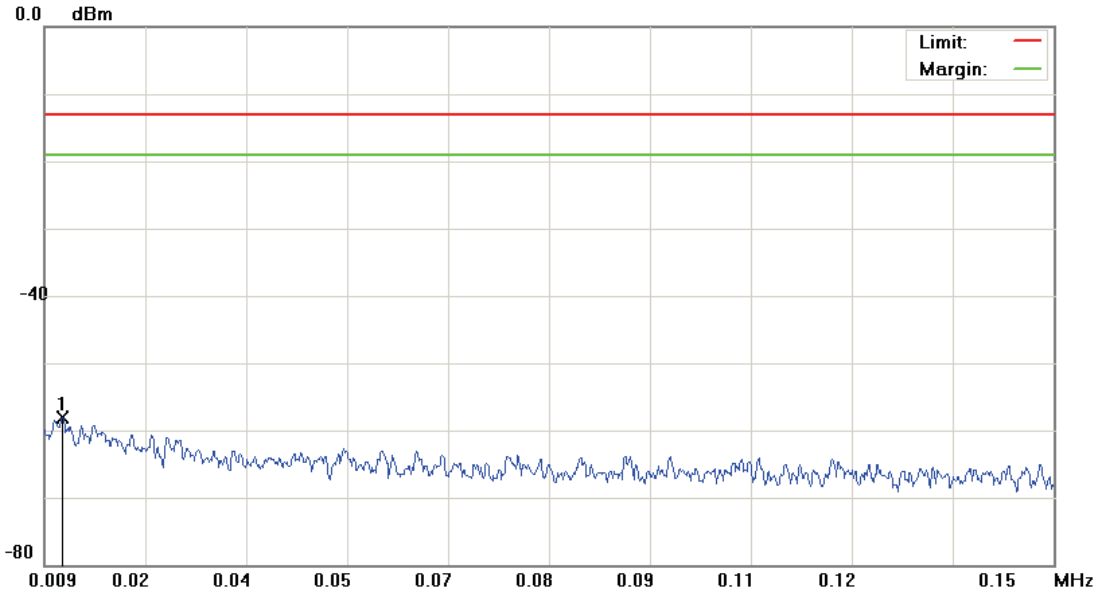
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 10 KHz VBW: 30 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.2694	-68.56	12.56	-56.00	-13.00	-43.00	peak			

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

File :LLC7260(CH9262) Data :#1 Date: 2014/10/13 Time: 上午 11:47:19



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

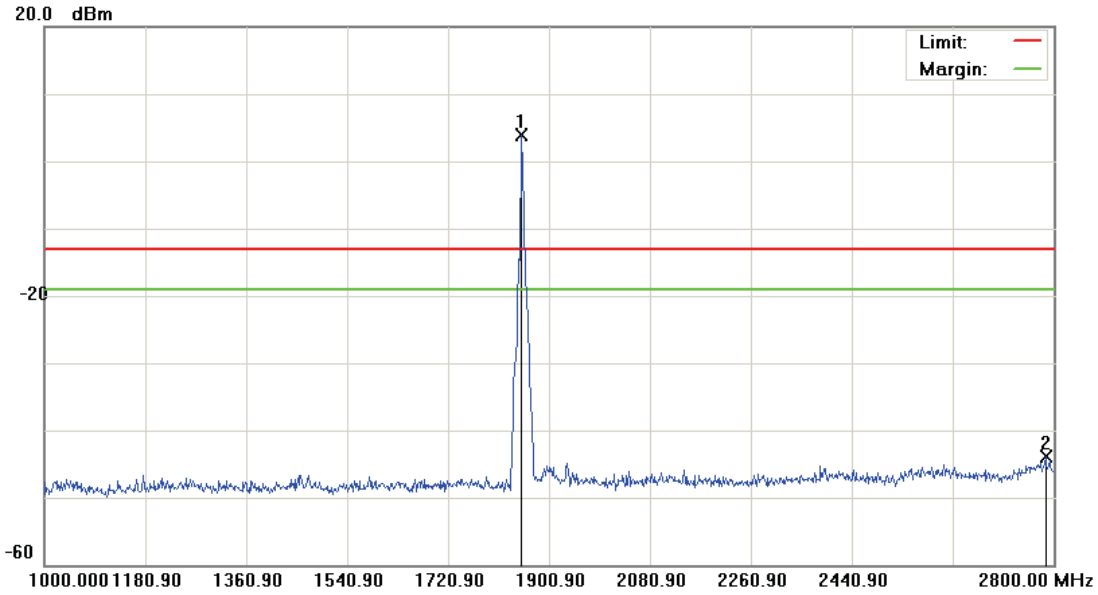
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1 KHz VBW: 3 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.0115	-69.39	11.35	-58.04	-13.00	-45.04	peak			

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

File :LLC7260(CH9262) Data :#4 Date: 2014/10/13 Time: 上午 11:55:18



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

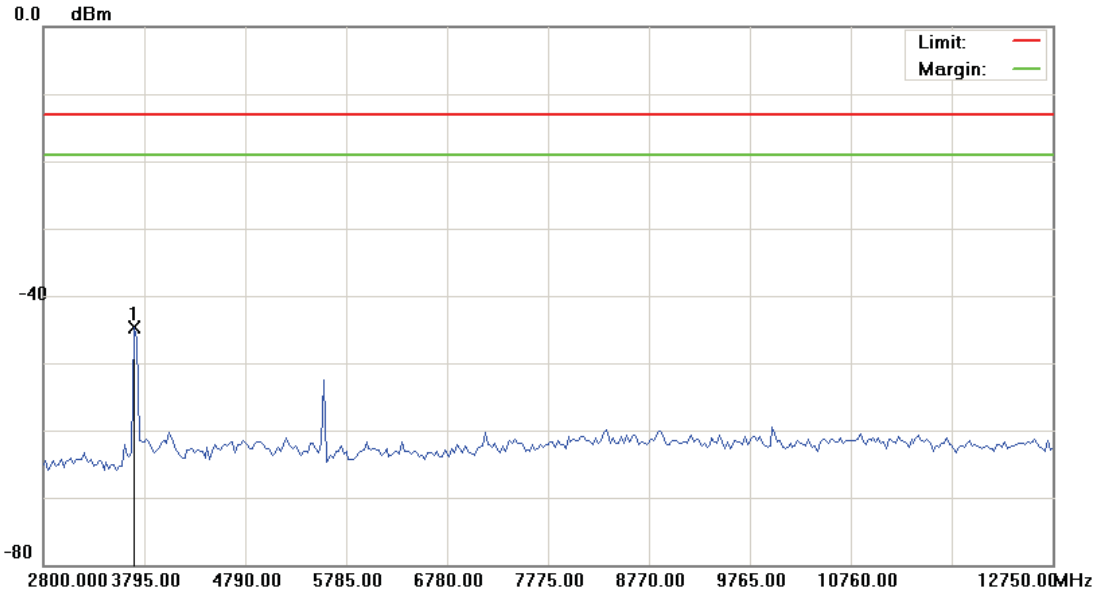
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1850.500	-0.44	4.26	3.82	-13.00	16.82	peak			Tx
2		2785.600	-49.84	5.89	-43.95	-13.00	-30.95	peak			

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

File :LLC7260(CH9262) Data :#5 Date: 2014/10/13 Time: 上午 10:22:00



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

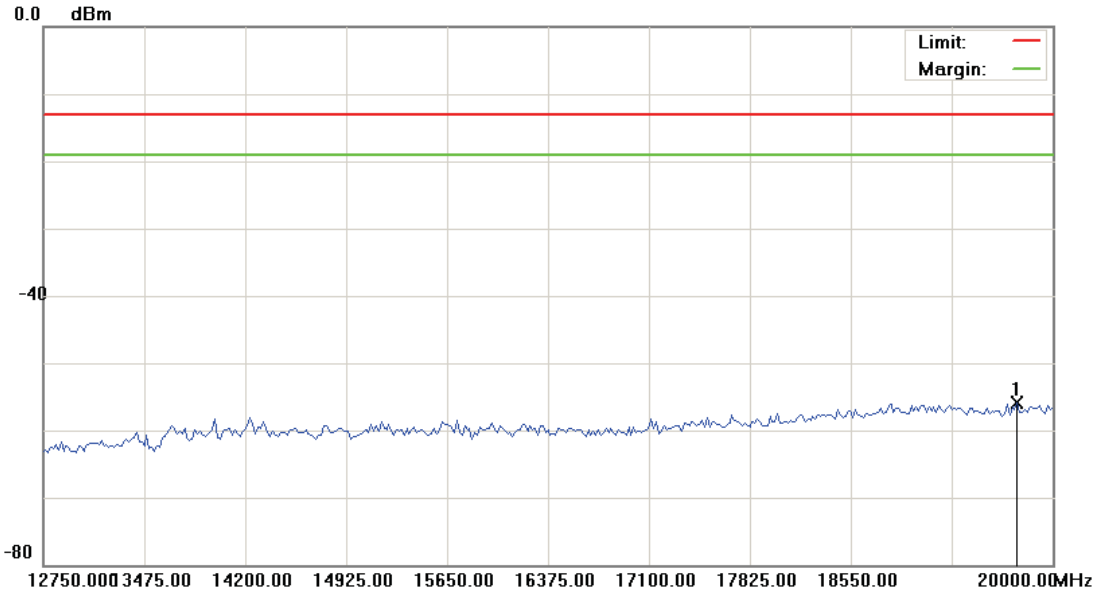
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	3695.500	-49.52	4.87	-44.65	-13.00	-31.65	peak			

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

File :LLC7260(CH9262) Data :#6 Date: 2014/10/13 Time: 上午 10:22:19



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

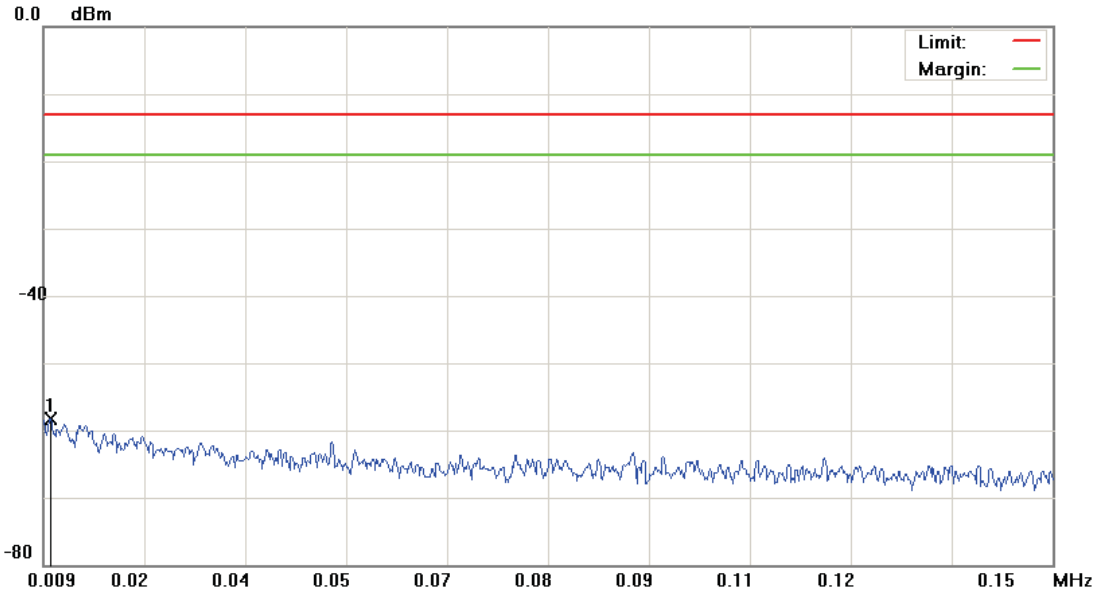
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	19746.250	-63.34	7.37	-55.97	-13.00	-42.97	peak			

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

File :LLC7260(CH9400) Data :#1 Date: 2014/10/13 Time: 上午 11:49:32



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

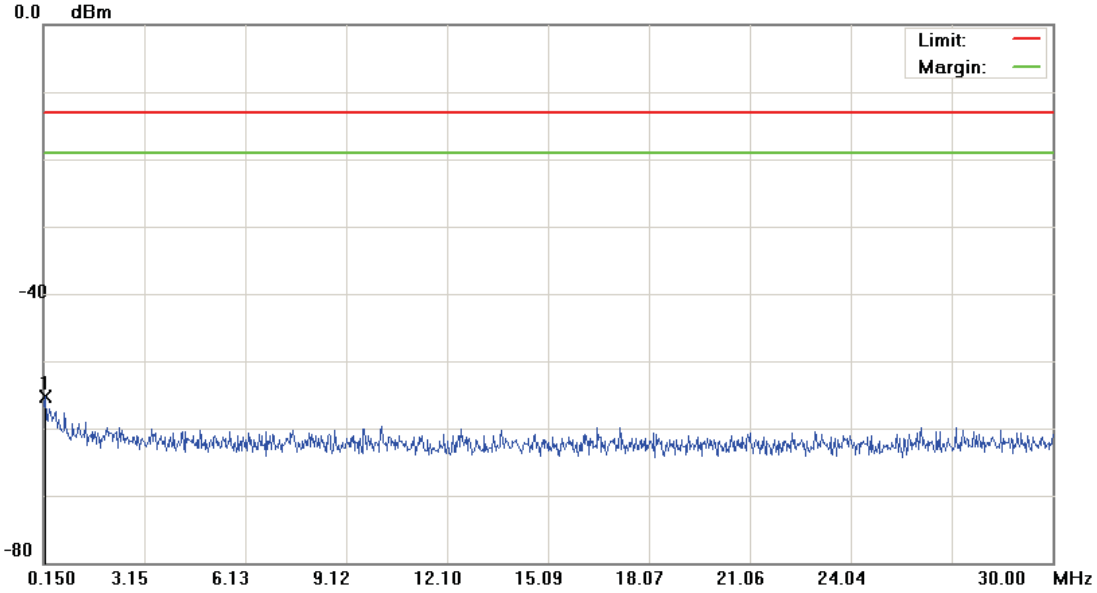
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1 KHz VBW: 3 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.0100	-69.61	11.33	-58.28	-13.00	-45.28	peak			

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

File :LLC7260(CH9400) Data :#2 Date: 2014/10/13 Time: 上午 11:49:56



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

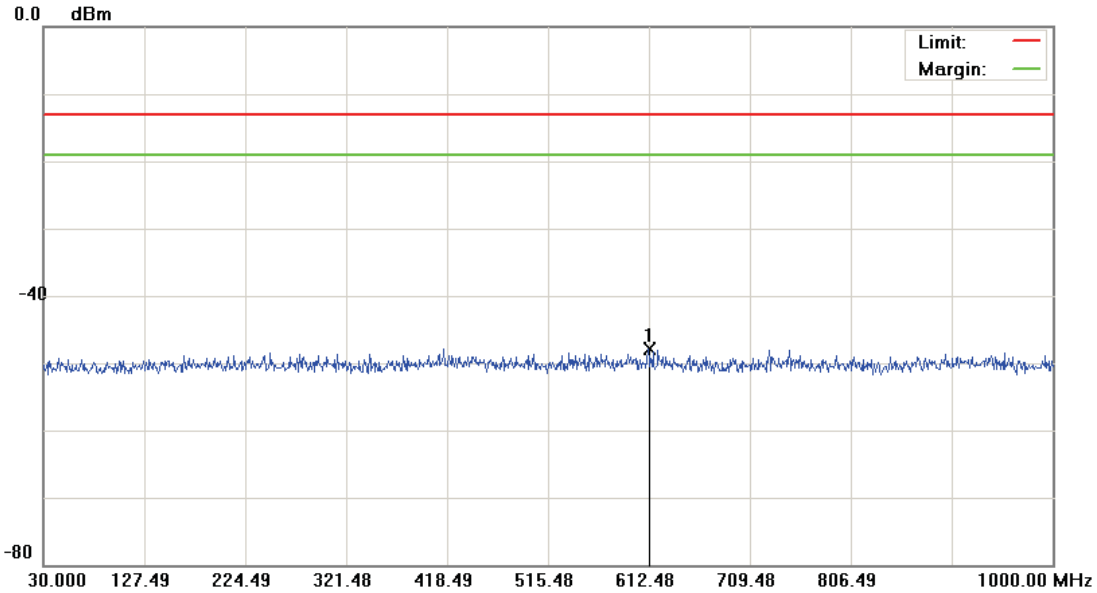
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 10 KHz VBW: 30 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.2097	-67.73	12.44	-55.29	-13.00	-42.29	peak			

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

File :LLC7260(CH9400) Data :#3 Date: 2014/10/13 Time: 上午 11:50:20



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

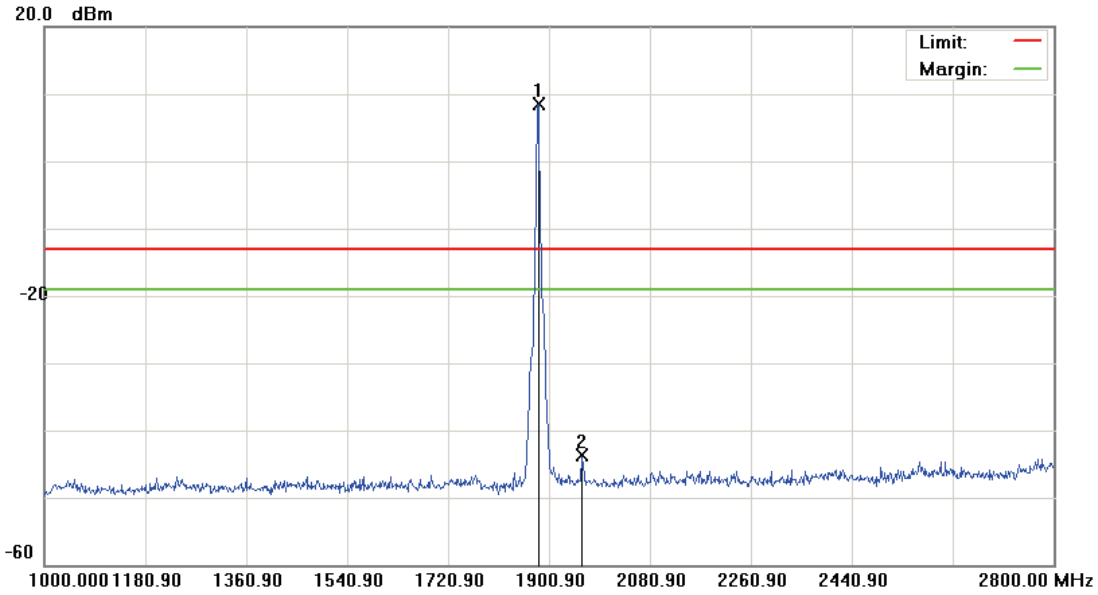
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 100 KHz VBW: 300 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	611.5150	-61.01	13.15	-47.86	-13.00	-34.86	peak			

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

File :LLC7260(CH9400) Data :#4 Date: 2014/10/13 Time: 上午 11:57:29



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

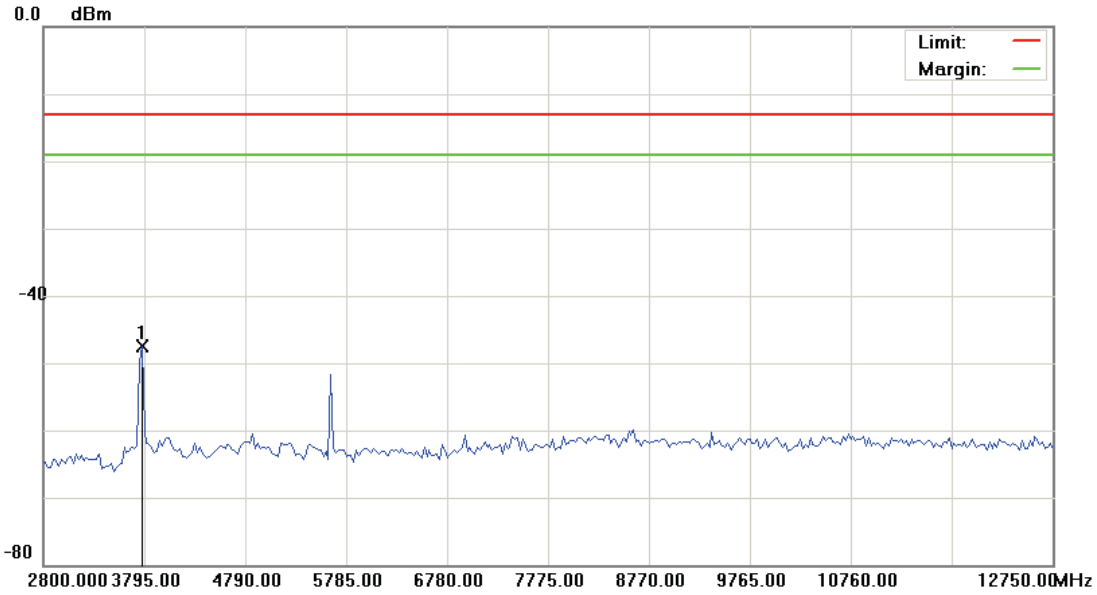
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1882.000	3.58	4.83	8.41	-13.00	21.41	peak			Tx
2		1958.500	-48.52	4.72	-43.80	-13.00	-30.80	peak			

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

File :LLC7260(CH9400) Data :#5 Date: 2014/10/13 Time: 上午 10:37:10



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

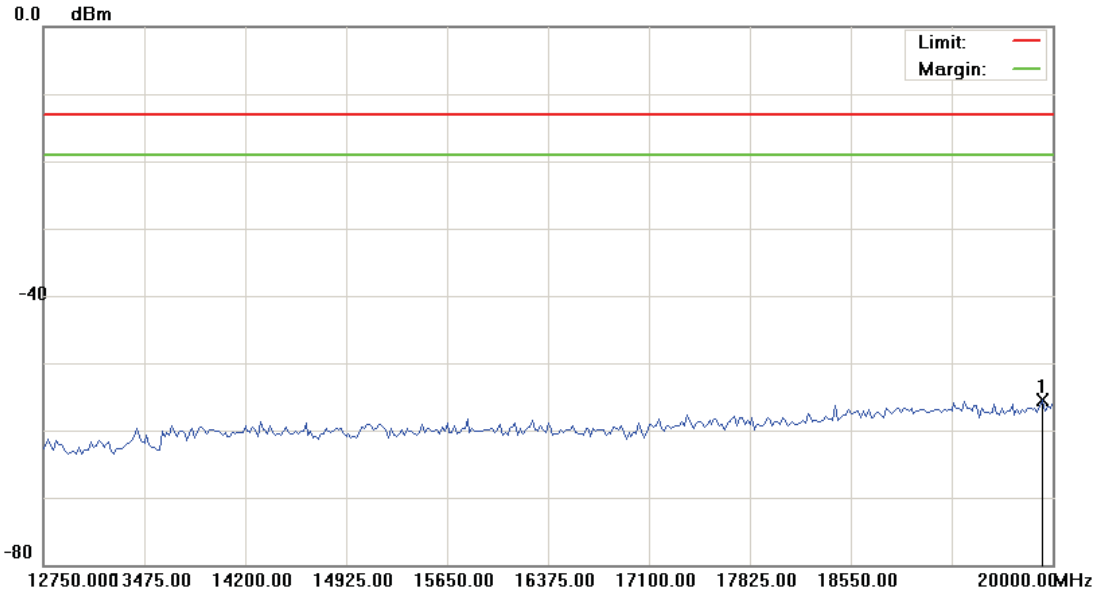
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	3770.125	-52.44	4.93	-47.51	-13.00	-34.51	peak			

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

File :LLC7260(CH9400) Data :#6 Date: 2014/10/13 Time: 上午 10:37:29



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

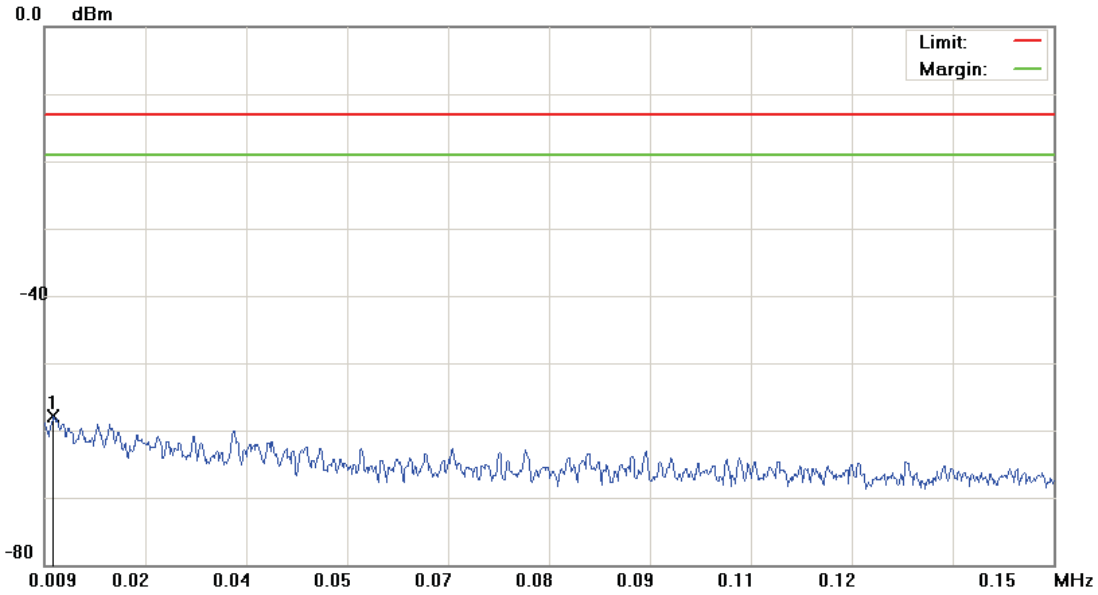
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	19927.500	-62.92	7.42	-55.50	-13.00	-42.50	peak			

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

File :LLC7260(CH9538) Data :#1 Date: 2014/10/13 Time: 上午 11:52:55



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

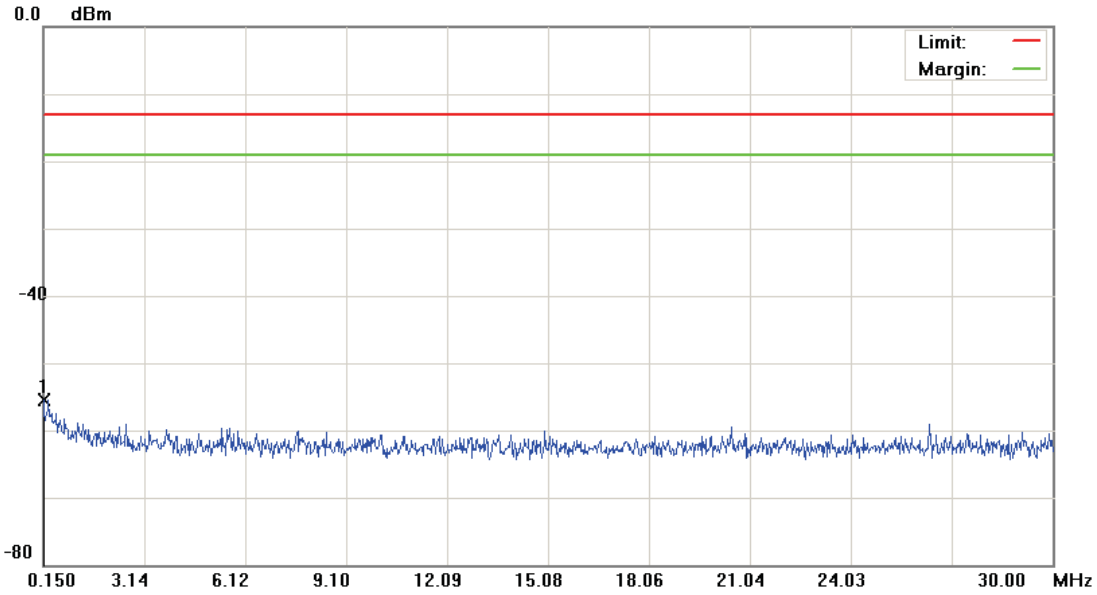
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1 KHz VBW: 3 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.0103	-69.31	11.34	-57.97	-13.00	-44.97	peak			

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

File :LLC7260(CH9538) Data :#2 Date: 2014/10/13 Time: 上午 11:53:19



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

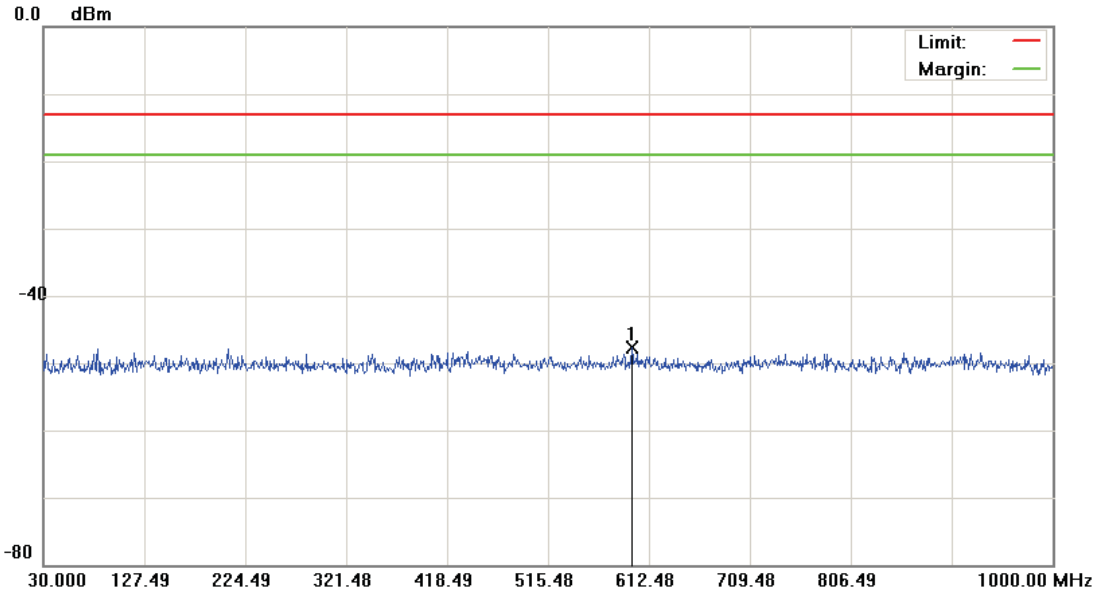
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 10 KHz VBW: 30 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.1500	-67.99	12.47	-55.52	-13.00	-42.52	peak			

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

File :LLC7260(CH9538) Data :#3 Date: 2014/10/13 Time: 上午 11:53:43



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

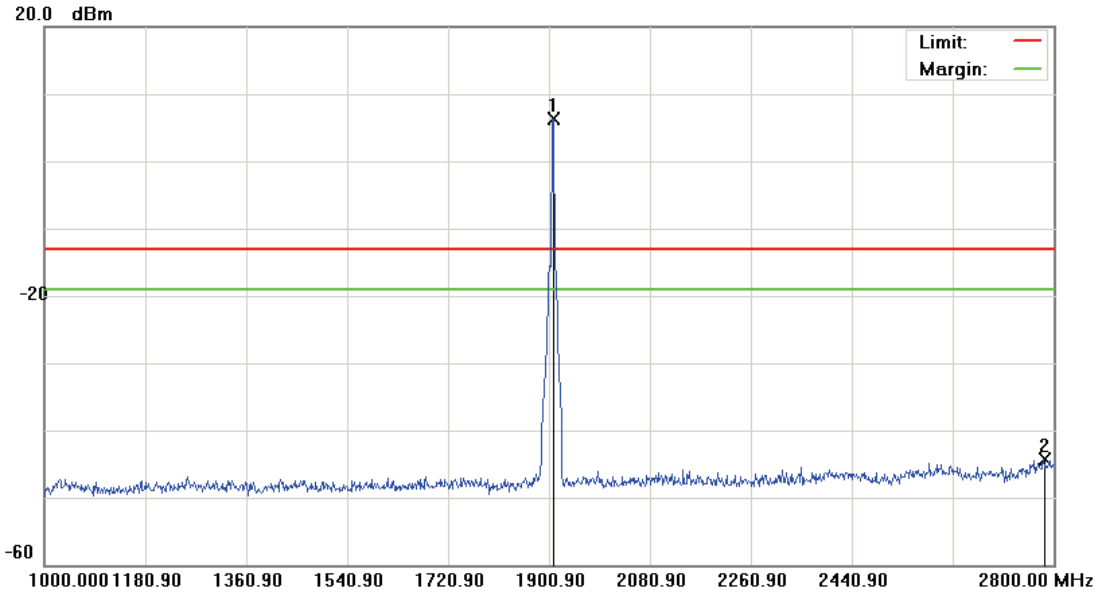
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 100 KHz VBW: 300 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	595.5100	-60.84	13.18	-47.66	-13.00	-34.66	peak			

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

File :LLC7260(CH9538) Data :#4 Date: 2014/10/13 Time: 下午 12:00:32



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

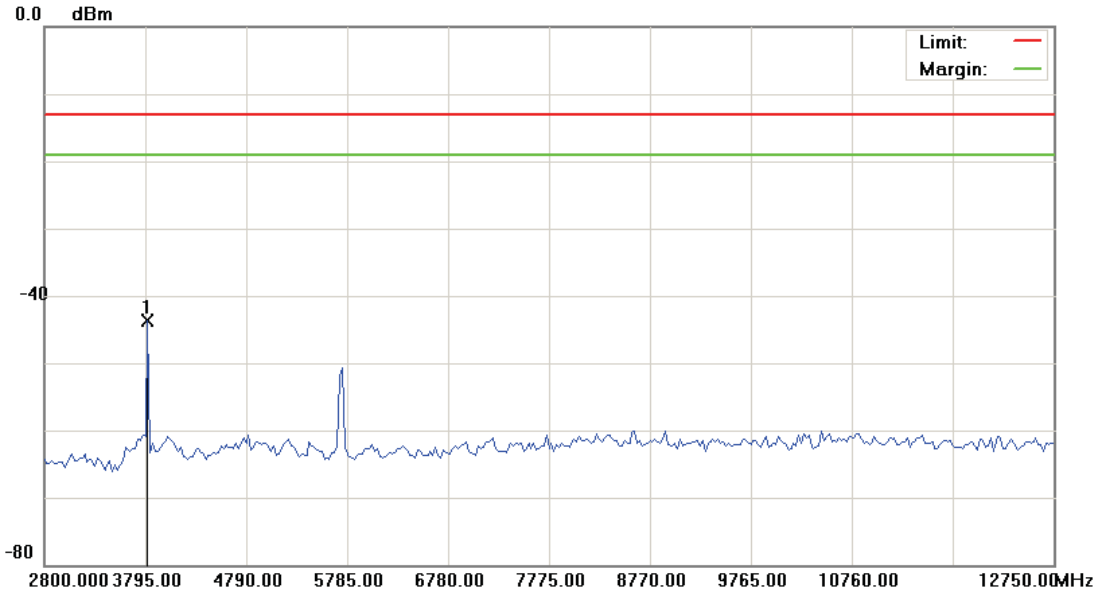
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1906.300	0.27	6.05	6.32	-13.00	19.32	peak			Tx
2		2782.900	-50.11	5.88	-44.23	-13.00	-31.23	peak			

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

File :LLC7260(CH9538) Data :#5 Date: 2014/10/13 Time: 上午 10:40:52



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

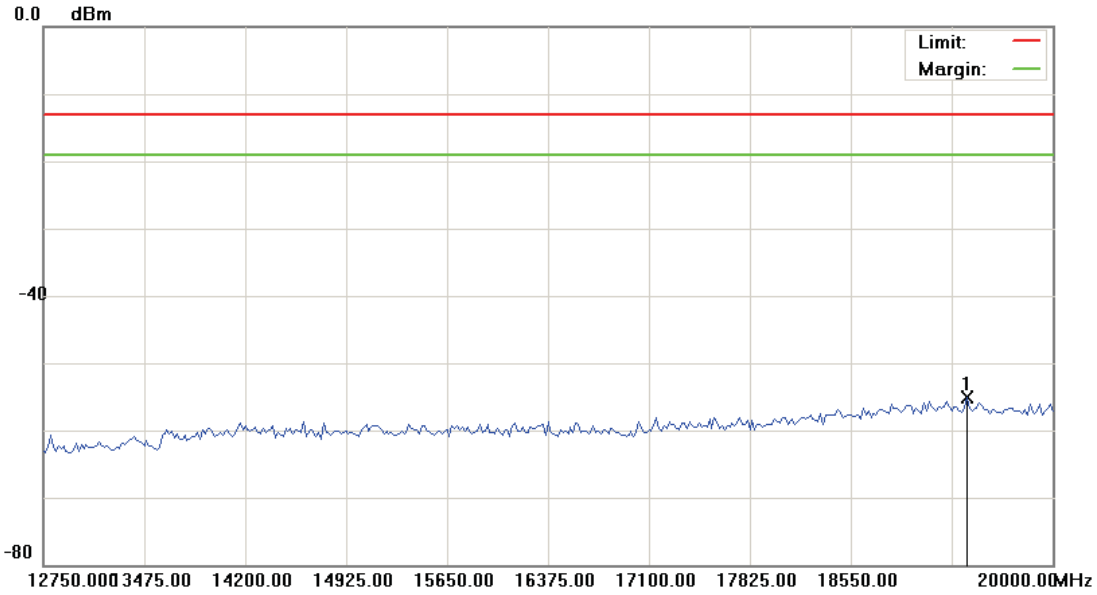
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	3819.875	-48.64	4.91	-43.73	-13.00	-30.73	peak			

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

File :LLC7260(CH9538) Data :#6 Date: 2014/10/13 Time: 上午 10:41:10



Site: site #1
Limit: FCC Part 24 conducted(9k-26.5G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band II
Note:

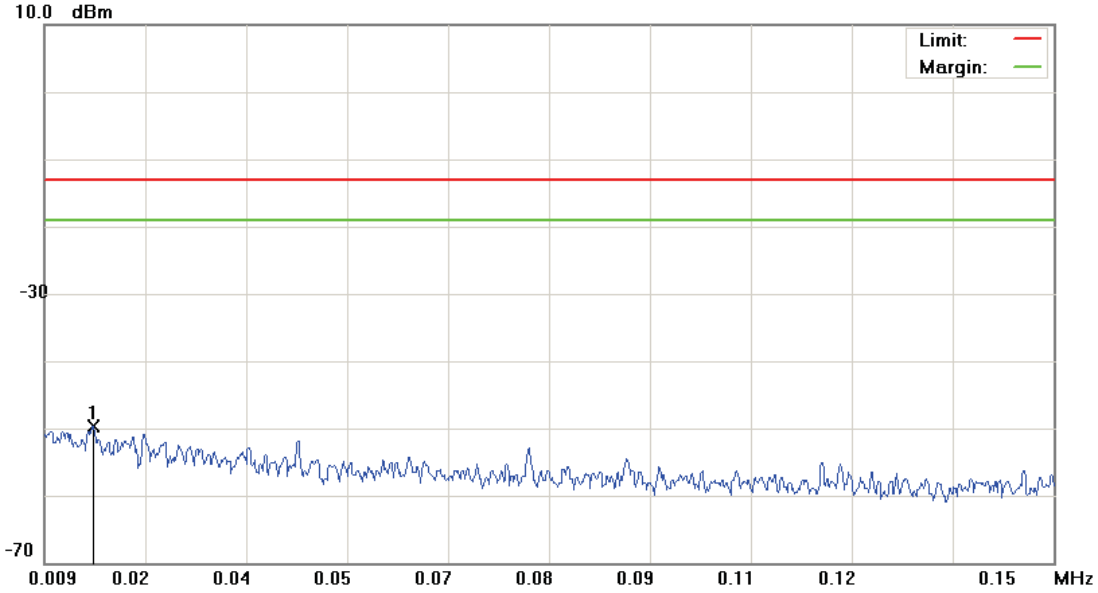
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	19383.750	-62.40	7.26	-55.14	-13.00	-42.14	peak			

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

File :LLC7260(CH4132) Data :#1 Date: 2014/10/13 Time: 下午 02:01:32



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band V
Note:

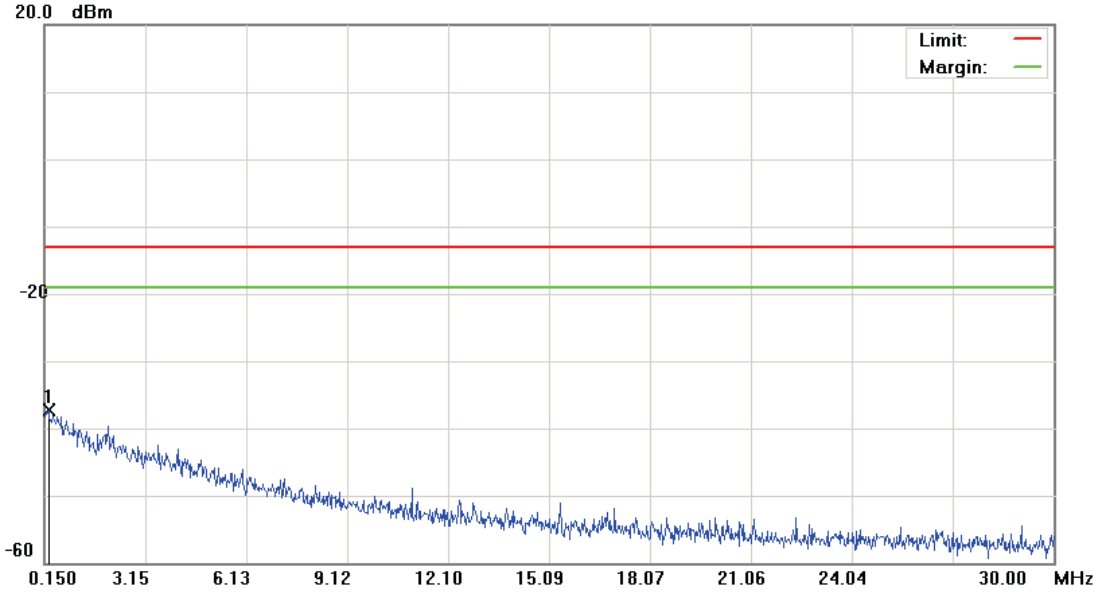
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1 KHz VBW: 3 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.0158	-80.17	30.55	-49.62	-13.00	-36.62	peak			

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

File :LLC7260(CH4132) Data :#2 Date: 2014/10/13 Time: 下午 02:01:56



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band V
Note:

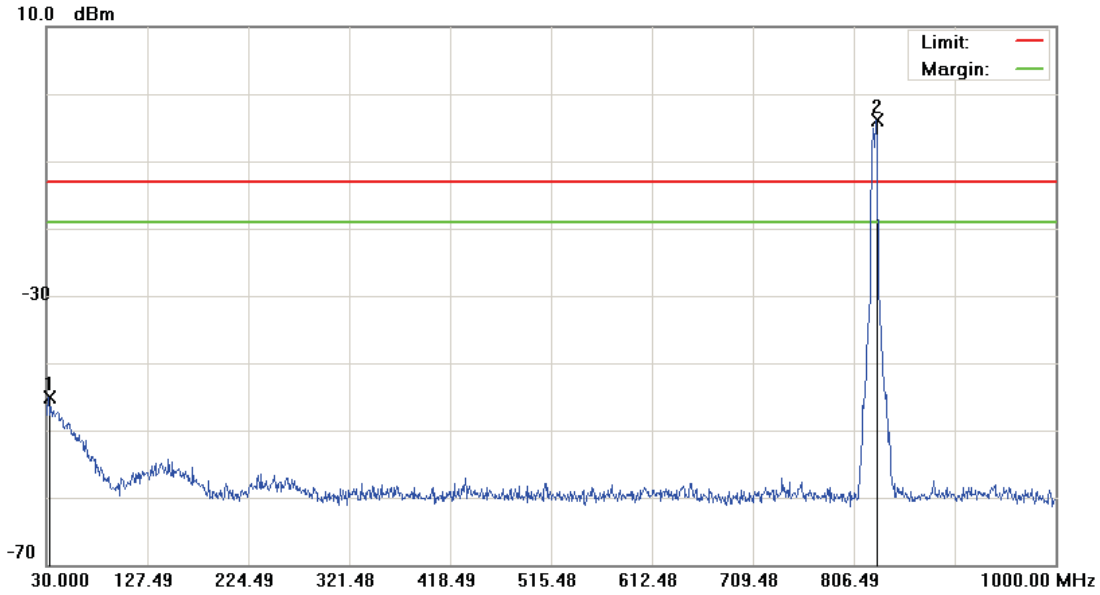
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 10 KHz VBW: 30 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.2694	-68.88	31.49	-37.39	-13.00	-24.39	peak			

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

File :LLC7260(CH4132) Data :#3 Date: 2014/10/13 Time: 下午 02:02:20



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band V
Note:

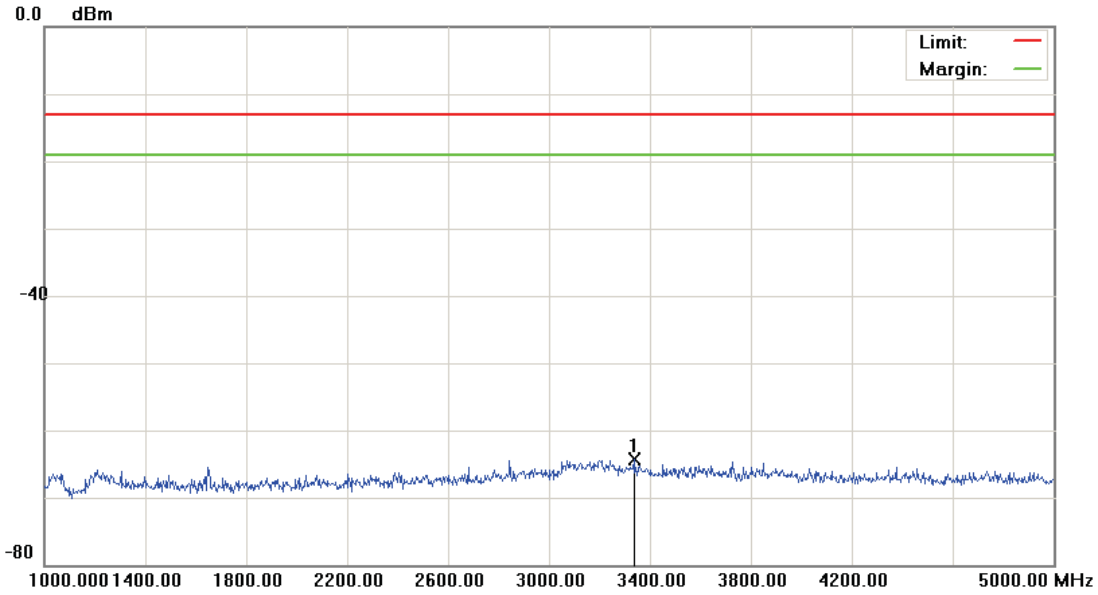
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 100 KHz VBW: 300 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		32.4250	-62.12	16.94	-45.18	-13.00	-32.18	peak			
2	*	827.8250	-7.67	3.87	-3.80	-13.00	9.20	peak			Tx

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

File :LLC7260(CH4132) Data :#4 Date: 2014/10/13 Time: 上午 11:02:23



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band V
Note:

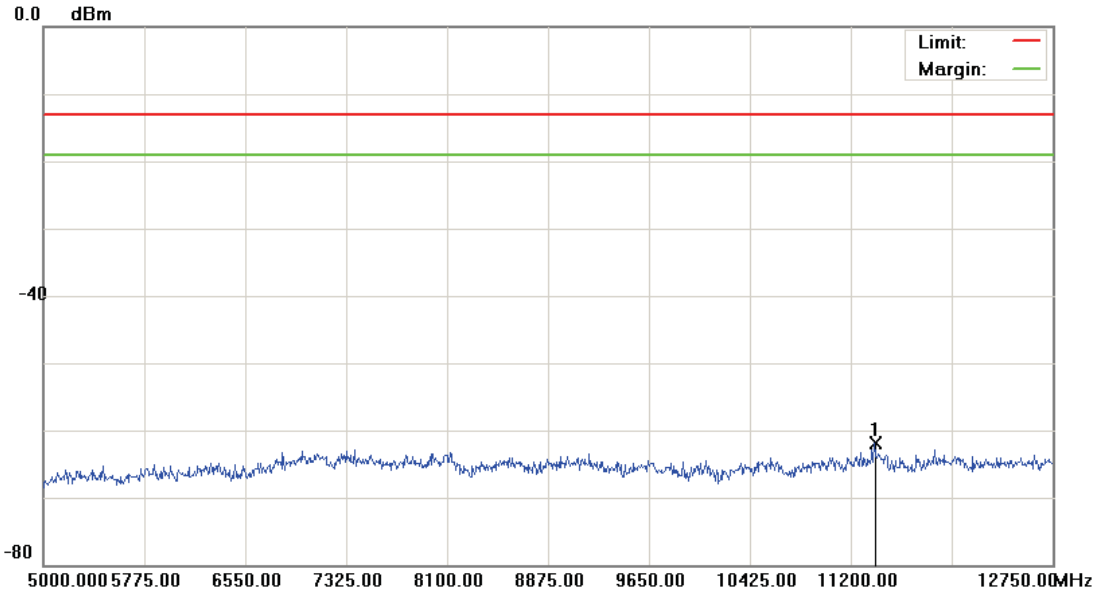
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	3336.000	-68.69	4.49	-64.20	-13.00	-51.20	peak			

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

File :LLC7260(CH4132) Data :#5 Date: 2014/10/13 Time: 上午 11:02:46



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band V
Note:

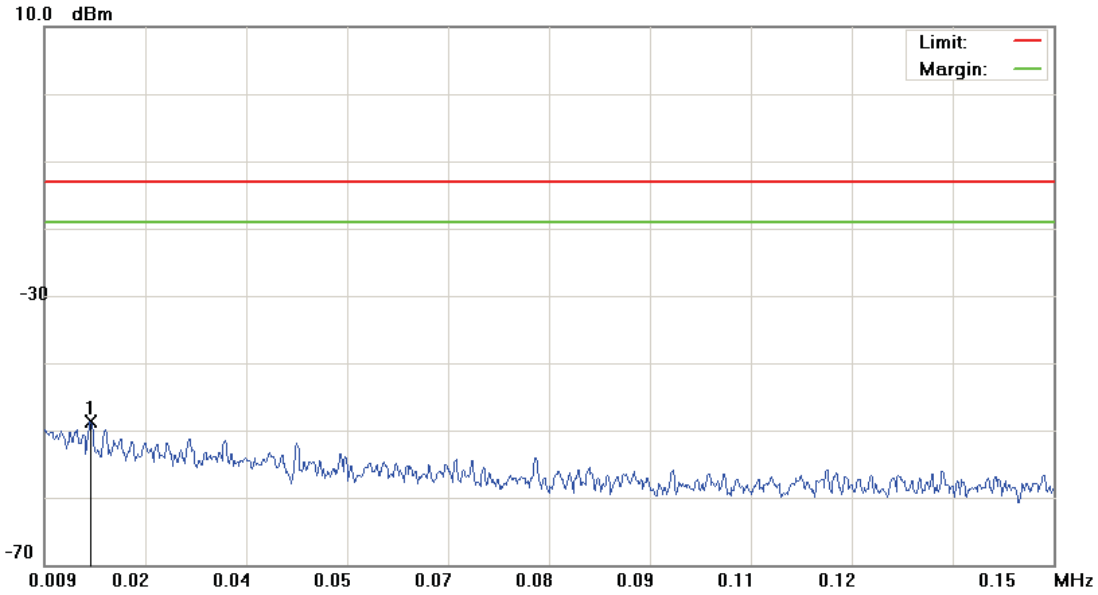
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	11382.125	-67.45	5.47	-61.98	-13.00	-48.98	peak			

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

File :LLC7260(CH4183) Data :#1 Date: 2014/10/13 Time: 下午 02:08:26



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band V
Note:

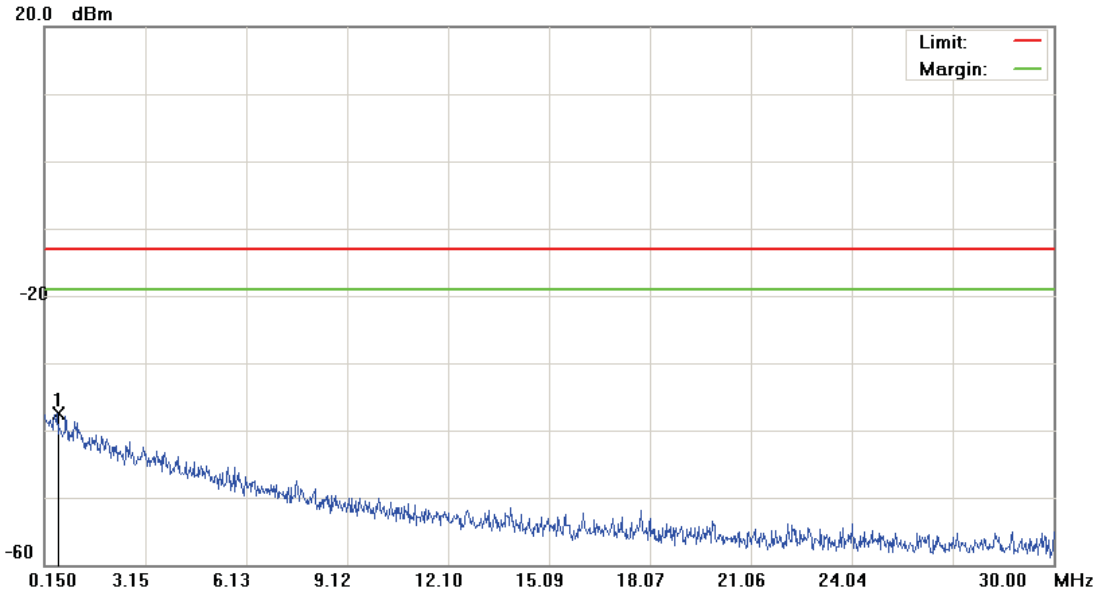
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1 KHz VBW: 3 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.0154	-79.33	30.55	-48.78	-13.00	-35.78	peak			

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

File :LLC7260(CH4183) Data :#2 Date: 2014/10/13 Time: 下午 02:08:50



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band V
Note:

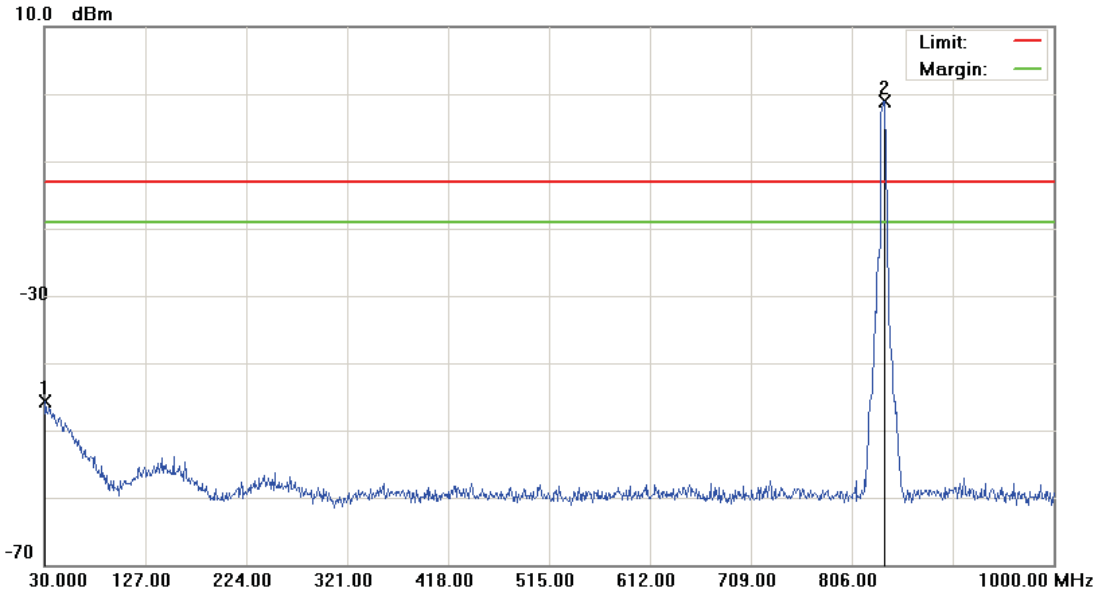
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 10 KHz VBW: 30 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.5530	-69.41	31.98	-37.43	-13.00	-24.43	peak			

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

File :LLC7260(CH4183) Data :#3 Date: 2014/10/13 Time: 下午 02:09:15



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band V
Note:

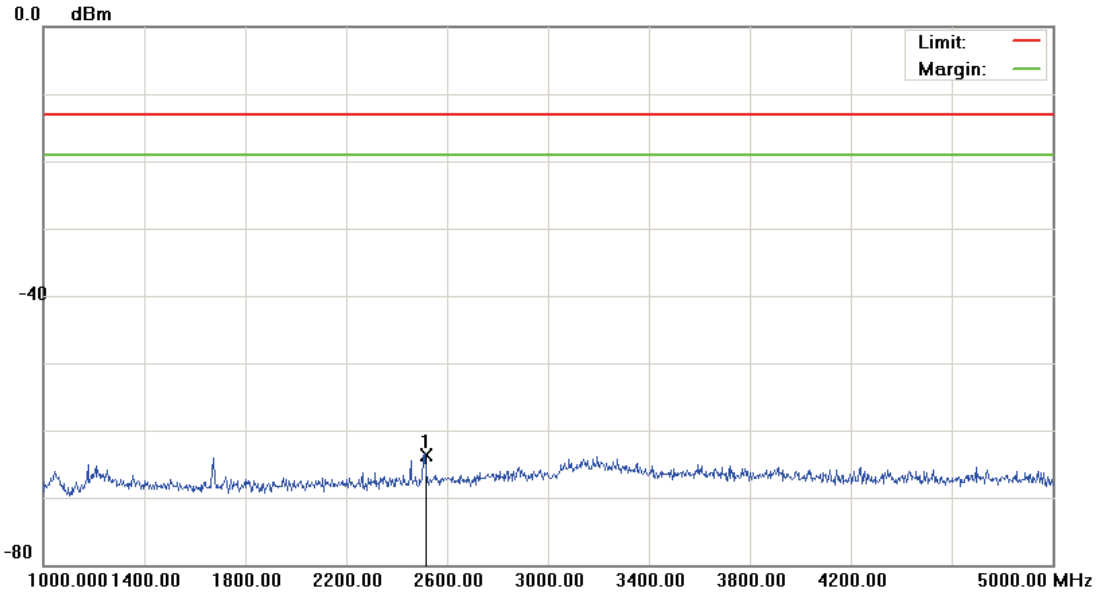
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 100 KHz VBW: 300 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		30.9700	-62.80	17.10	-45.70	-13.00	-32.70	peak			
2	*	837.5250	-4.97	3.97	-1.00	-13.00	12.00	peak			Tx

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

File :LLC7260(CH4183) Data :#4 Date: 2014/10/13 Time: 上午 11:03:35



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band V
Note:

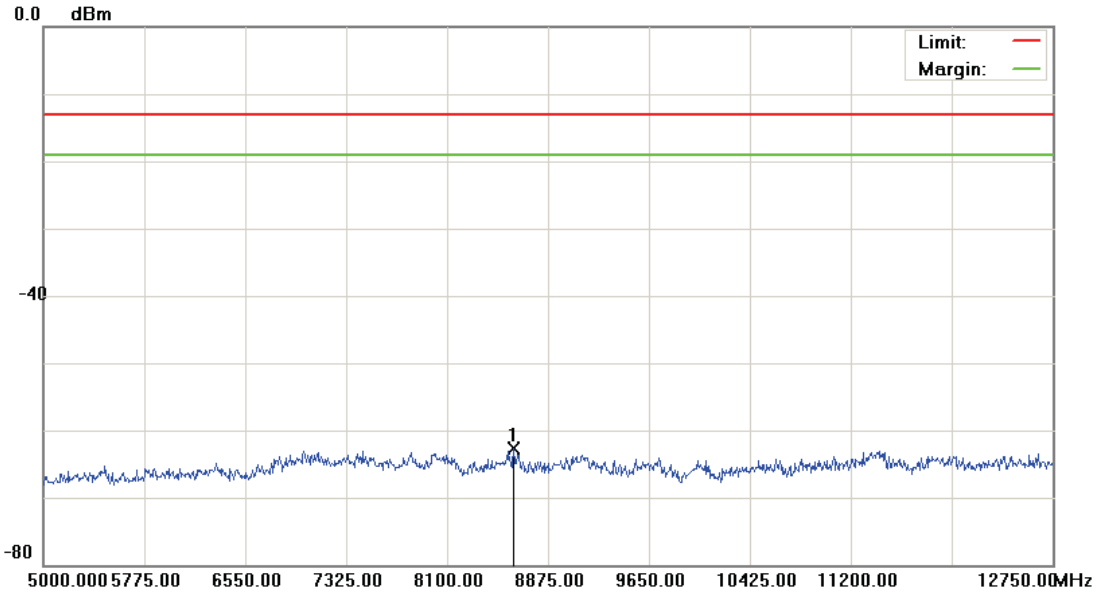
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	2514.000	-67.96	4.36	-63.60	-13.00	-50.60	peak			

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

File :LLC7260(CH4183) Data :#5 Date: 2014/10/13 Time: 上午 11:03:58



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band V
Note:

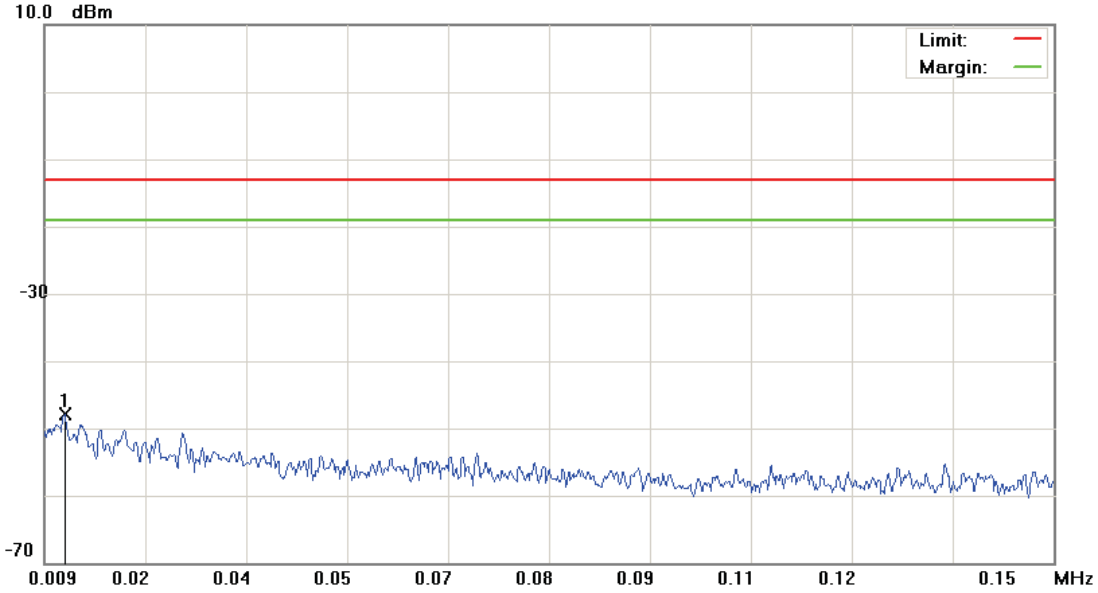
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	8611.500	-68.42	5.77	-62.65	-13.00	-49.65	peak			

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

File :LLC7260(CH4233) Data :#1 Date: 2014/10/13 Time: 下午 02:10:53



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band V
Note:

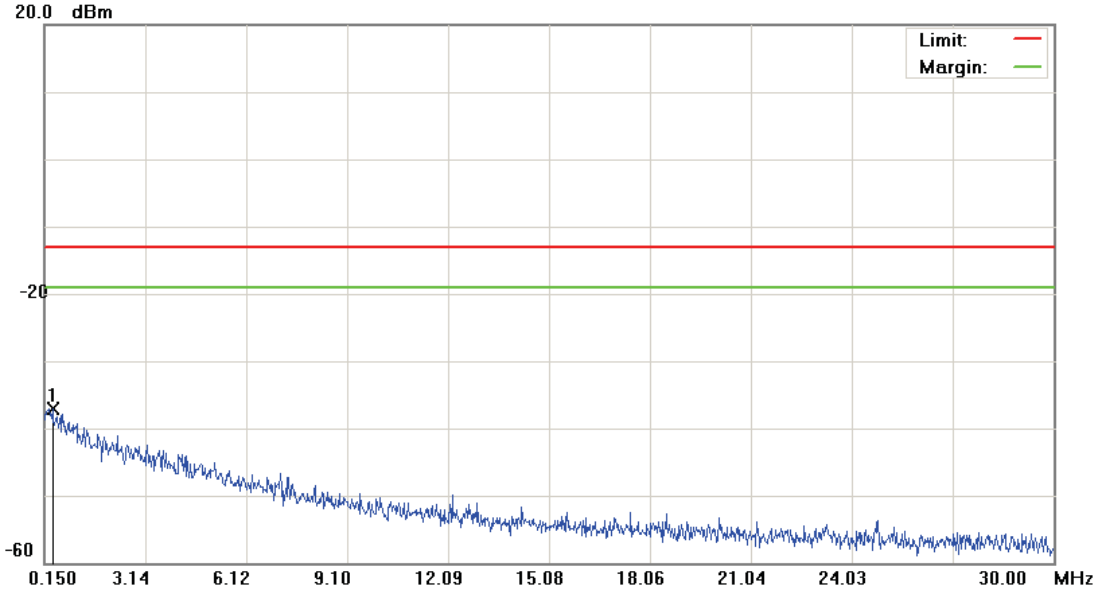
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1 KHz VBW: 3 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.0118	-78.56	30.57	-47.99	-13.00	-34.99	peak			

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

File :LLC7260(CH4233) Data :#2 Date: 2014/10/13 Time: 下午 02:11:17



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band V
Note:

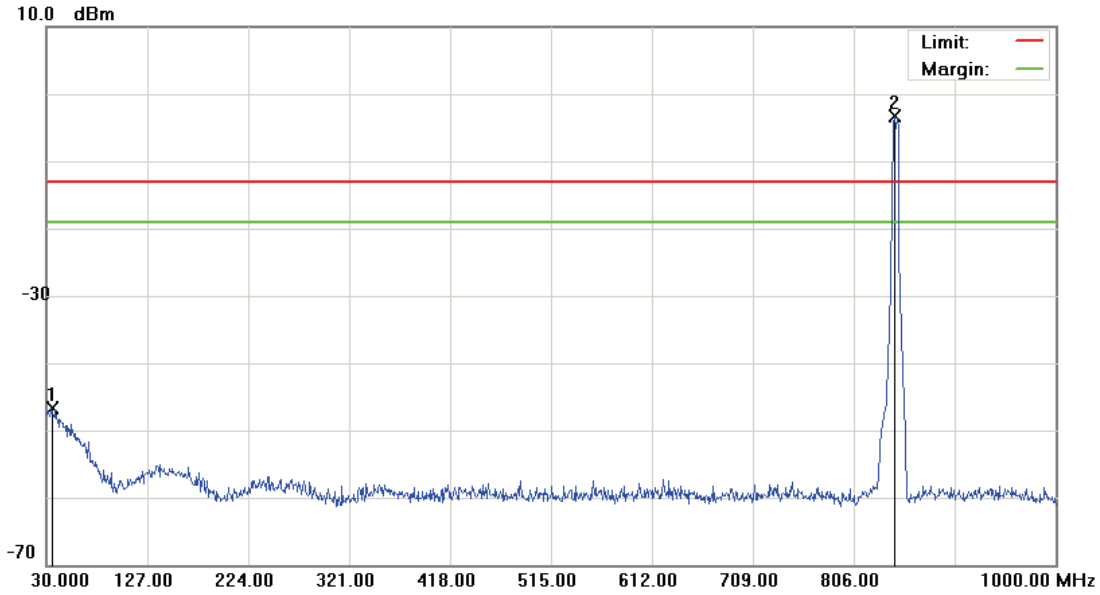
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 10 KHz VBW: 30 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	0.3888	-68.91	31.89	-37.02	-13.00	-24.02	peak			

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

File :LLC7260(CH4233) Data :#3 Date: 2014/10/13 Time: 下午 02:11:41



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band V
Note:

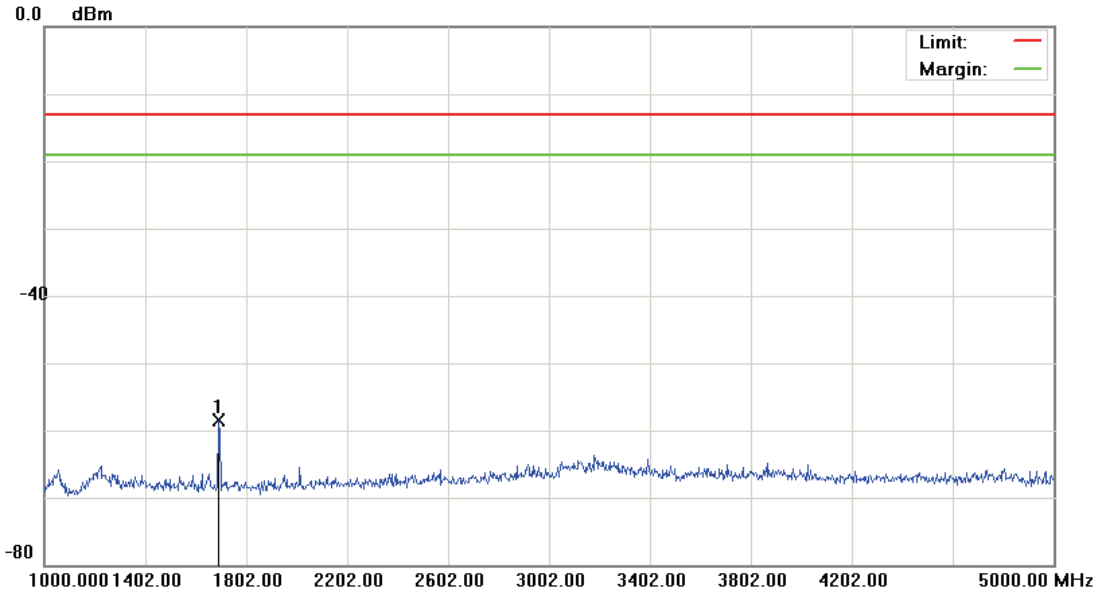
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 100 KHz VBW: 300 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		35.3350	-63.31	16.61	-46.70	-13.00	-33.70	peak			
2	*	845.7700	-7.25	3.99	-3.26	-13.00	9.74	peak			Tx

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

File :LLC7260(CH4233) Data :#4 Date: 2014/10/13 Time: 上午 11:04:49



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band V
Note:

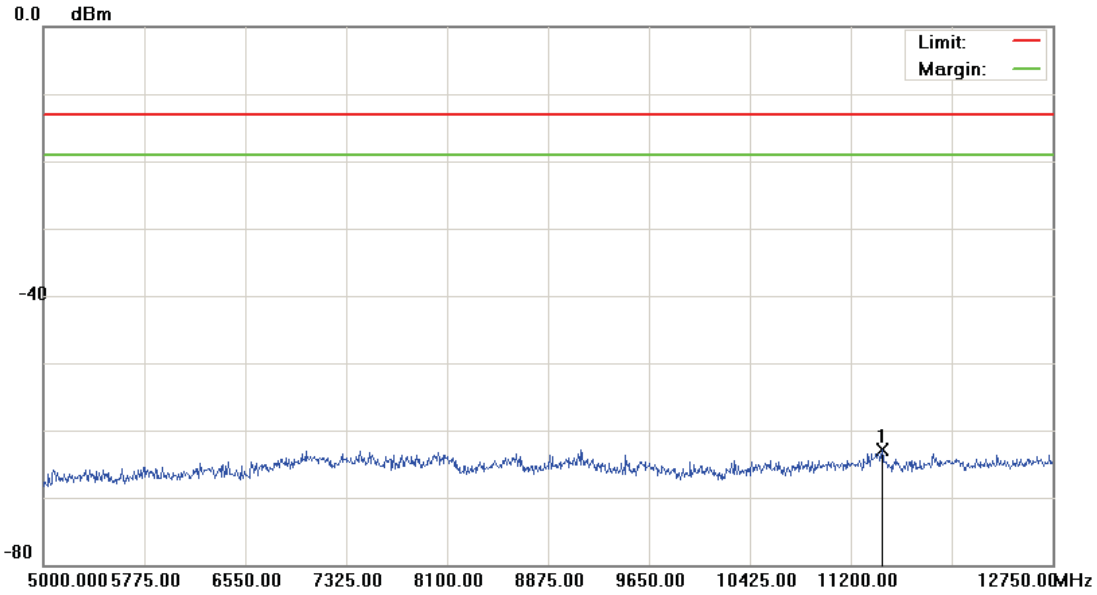
Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1690.000	-63.05	4.47	-58.58	-13.00	-45.58	peak			

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

File :LLC7260(CH4233) Data :#5 Date: 2014/10/13 Time: 上午 11:05:12



Site: site #1
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: CityTouch OLC
M/N: LLC7260
Mode: WCDMA Band V
Note:

Polarization: *Conducted Power*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 KHz VBW: 3000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	11440.250	-68.53	5.58	-62.95	-13.00	-49.95	peak			

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

8 Field Strength of Spurious Radiation Test

8.1. Limit

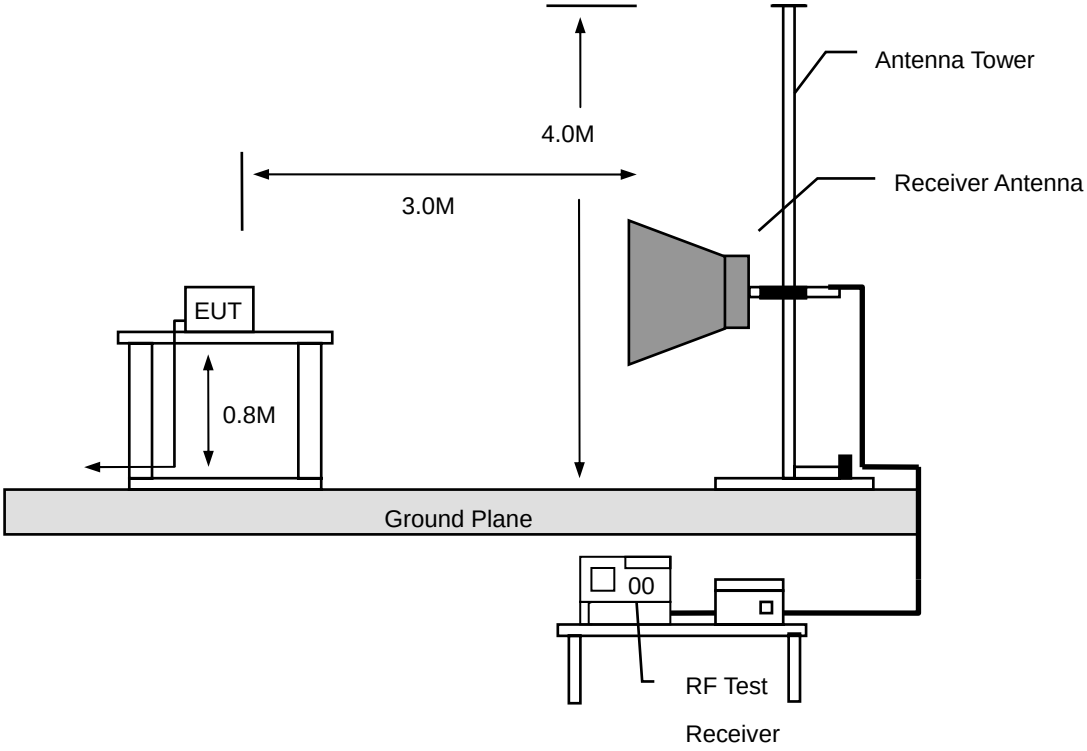
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log(P) dB.
It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

8.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/10/2014	(1)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/10/2014	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/21/2014	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/21/2014	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	07/22/2014	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/11/2014	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	07/02/2014	(1)
Test Site	ATL	TE01	888001	08/28/2014	(1)

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.
Note: N.C.R. = No Calibration Request.

8.3. Setup



8.4. Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 30 MHz to 26.5 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on tree orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Biconilog Antenna (mode VULB9163) at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna (model BBHA9120D&9170) was used in frequencies 1 – 26.5 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).

For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts pre meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro colts per meter (dBuV/m).

The actual field is intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

(1) Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

(2) Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency : Transmitter Output < +30dBm

(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

8.5. Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is ± 3.072 dB.

8.6. Test Result

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	LLC7260	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	1	Date:	10/18/2014
Frequency:	824.2 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
159.5000	-83.58	7.41	-76.17	-13.00	-63.17	peak	H
204.0000	-78.50	1.58	-76.92	-13.00	-63.92	peak	H
332.0000	-81.81	-1.33	-83.14	-13.00	-70.14	peak	H
481.5000	-80.38	5.08	-75.30	-13.00	-62.30	peak	H
530.0000	-80.11	7.08	-73.03	-13.00	-60.03	peak	H
709.0000	-80.51	7.11	-73.40	-13.00	-60.40	peak	H
3220.000	-71.25	12.11	-59.14	-13.00	-46.14	peak	H
4780.000	-74.62	15.50	-59.12	-13.00	-46.12	peak	H
7120.000	-73.97	23.86	-50.11	-13.00	-37.11	peak	H
160.0000	-81.59	18.76	-62.83	-13.00	-49.83	peak	V
205.0000	-81.99	9.09	-72.90	-13.00	-59.90	peak	V
346.5000	-80.80	0.86	-79.94	-13.00	-66.94	peak	V
464.0000	-81.23	1.19	-80.04	-13.00	-67.04	peak	V
649.5000	-80.53	8.56	-71.97	-13.00	-58.97	peak	V
726.5000	-81.33	10.64	-70.69	-13.00	-57.69	peak	V
3292.000	-70.80	15.73	-55.07	-13.00	-42.07	peak	V
4720.000	-74.29	19.52	-54.77	-13.00	-41.77	peak	V
7120.000	-74.39	21.63	-52.76	-13.00	-39.76	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	LLC7260	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	1	Date:	10/18/2014
Frequency:	836.6 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
157.5000	-83.03	6.90	-76.13	-13.00	-63.13	peak	H
200.5000	-76.71	2.48	-74.23	-13.00	-61.23	peak	H
328.0000	-82.83	-1.37	-84.20	-13.00	-71.20	peak	H
440.0000	-80.64	3.27	-77.37	-13.00	-64.37	peak	H
548.5000	-81.33	7.14	-74.19	-13.00	-61.19	peak	H
733.5000	-82.26	7.85	-74.41	-13.00	-61.41	peak	H
3328.000	-71.22	12.45	-58.77	-13.00	-45.77	peak	H
4708.000	-73.01	15.11	-57.90	-13.00	-44.90	peak	H
7120.000	-74.53	23.86	-50.67	-13.00	-37.67	peak	H
132.0000	-80.83	18.46	-62.37	-13.00	-49.37	peak	V
200.5000	-80.34	9.73	-70.61	-13.00	-57.61	peak	V
312.0000	-81.84	1.14	-80.70	-13.00	-67.70	peak	V
434.0000	-80.78	0.74	-80.04	-13.00	-67.04	peak	V
543.5000	-79.32	3.35	-75.97	-13.00	-62.97	peak	V
654.0000	-80.94	8.77	-72.17	-13.00	-59.17	peak	V
3232.000	-71.38	15.36	-56.02	-13.00	-43.02	peak	V
4768.000	-73.53	19.61	-53.92	-13.00	-40.92	peak	V
7180.000	-73.45	21.74	-51.71	-13.00	-38.71	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	LLC7260	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	1	Date:	10/18/2014
Frequency:	848.8 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
157.5000	-81.53	6.90	-74.63	-13.00	-61.63	peak	H
200.5000	-77.21	2.48	-74.73	-13.00	-61.73	peak	H
331.5000	-81.99	-1.33	-83.32	-13.00	-70.32	peak	H
488.0000	-81.45	5.47	-75.98	-13.00	-62.98	peak	H
552.5000	-80.29	7.02	-73.27	-13.00	-60.27	peak	H
731.0000	-82.35	7.77	-74.58	-13.00	-61.58	peak	H
3244.000	-70.22	12.19	-58.03	-13.00	-45.03	peak	H
4756.000	-73.79	15.38	-58.41	-13.00	-45.41	peak	H
7168.000	-74.16	24.01	-50.15	-13.00	-37.15	peak	H
129.0000	-80.49	18.07	-62.42	-13.00	-49.42	peak	V
206.0000	-81.19	8.95	-72.24	-13.00	-59.24	peak	V
302.0000	-81.42	1.99	-79.43	-13.00	-66.43	peak	V
440.0000	-81.37	0.82	-80.55	-13.00	-67.55	peak	V
529.0000	-81.17	2.75	-78.42	-13.00	-65.42	peak	V
660.5000	-81.53	9.05	-72.48	-13.00	-59.48	peak	V
3316.000	-71.93	15.87	-56.06	-13.00	-43.06	peak	V
4732.000	-73.38	19.54	-53.84	-13.00	-40.84	peak	V
7084.000	-74.41	21.57	-52.84	-13.00	-39.84	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	LLC7260	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	2	Date:	10/18/2014
Frequency:	1850.2 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
153.5000	-82.60	5.88	-76.72	-13.00	-63.72	peak	H
200.5000	-78.91	2.48	-76.43	-13.00	-63.43	peak	H
324.5000	-82.19	-1.41	-83.60	-13.00	-70.60	peak	H
501.5000	-81.00	6.23	-74.77	-13.00	-61.77	peak	H
670.5000	-80.72	6.83	-73.89	-13.00	-60.89	peak	H
783.0000	-81.67	10.09	-71.58	-13.00	-58.58	peak	H
3244.000	-70.95	12.19	-58.76	-13.00	-45.76	peak	H
4708.000	-73.33	15.11	-58.22	-13.00	-45.22	peak	H
7156.000	-73.06	23.97	-49.09	-13.00	-36.09	peak	H
132.5000	-79.22	18.25	-60.97	-13.00	-47.97	peak	V
206.5000	-81.22	8.87	-72.35	-13.00	-59.35	peak	V
335.0000	-81.29	0.50	-80.79	-13.00	-67.79	peak	V
450.5000	-81.40	1.03	-80.37	-13.00	-67.37	peak	V
568.0000	-79.17	4.01	-75.16	-13.00	-62.16	peak	V
706.5000	-80.89	10.33	-70.56	-13.00	-57.56	peak	V
3268.000	-70.57	15.57	-55.00	-13.00	-42.00	peak	V
4804.000	-73.79	19.67	-54.12	-13.00	-41.12	peak	V
7132.000	-74.27	21.65	-52.62	-13.00	-39.62	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	LLC7260	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	2	Date:	10/18/2014
Frequency:	1880.0 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
158.5000	-82.18	7.15	-75.03	-13.00	-62.03	peak	H
200.5000	-77.68	2.48	-75.20	-13.00	-62.20	peak	H
319.0000	-83.35	-1.56	-84.91	-13.00	-71.91	peak	H
457.5000	-81.09	3.92	-77.17	-13.00	-64.17	peak	H
551.5000	-81.15	7.05	-74.10	-13.00	-61.10	peak	H
665.0000	-81.06	6.83	-74.23	-13.00	-61.23	peak	H
3280.000	-70.57	12.31	-58.26	-13.00	-45.26	peak	H
4684.000	-74.16	14.98	-59.18	-13.00	-46.18	peak	H
7132.000	-73.94	23.89	-50.05	-13.00	-37.05	peak	H
129.5000	-80.31	18.68	-61.63	-13.00	-48.63	peak	V
207.5000	-81.83	8.72	-73.11	-13.00	-60.11	peak	V
301.0000	-82.70	2.06	-80.64	-13.00	-67.64	peak	V
461.0000	-81.64	1.11	-80.53	-13.00	-67.53	peak	V
606.5000	-81.72	7.05	-74.67	-13.00	-61.67	peak	V
728.0000	-81.58	10.61	-70.97	-13.00	-57.97	peak	V
3316.000	-70.95	15.87	-55.08	-13.00	-42.08	peak	V
4684.000	-74.15	19.45	-54.70	-13.00	-41.70	peak	V
7132.000	-73.93	21.65	-52.28	-13.00	-39.28	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	LLC7260	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	2	Date:	10/18/2014
Frequency:	1909.8 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
156.0000	-82.84	6.51	-76.33	-13.00	-63.33	peak	H
200.5000	-78.46	2.48	-75.98	-13.00	-62.98	peak	H
336.0000	-81.40	-1.29	-82.69	-13.00	-69.69	peak	H
511.0000	-82.02	6.52	-75.50	-13.00	-62.50	peak	H
609.0000	-81.12	7.01	-74.11	-13.00	-61.11	peak	H
729.5000	-79.48	7.71	-71.77	-13.00	-58.77	peak	H
3292.000	-71.02	12.35	-58.67	-13.00	-45.67	peak	H
4756.000	-74.07	15.38	-58.69	-13.00	-45.69	peak	H
7132.000	-73.27	23.89	-49.38	-13.00	-36.38	peak	H
130.5000	-81.12	19.05	-62.07	-13.00	-49.07	peak	V
160.0000	-82.11	18.76	-63.35	-13.00	-50.35	peak	V
205.5000	-81.00	9.00	-72.00	-13.00	-59.00	peak	V
340.0000	-81.44	0.50	-80.94	-13.00	-67.94	peak	V
539.0000	-80.95	3.30	-77.65	-13.00	-64.65	peak	V
657.5000	-81.03	8.93	-72.10	-13.00	-59.10	peak	V
3280.000	-71.28	15.65	-55.63	-13.00	-42.63	peak	V
4720.000	-74.08	19.52	-54.56	-13.00	-41.56	peak	V
7132.000	-74.13	21.65	-52.48	-13.00	-39.48	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	LLC7260	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	5	Date:	10/18/2014
Frequency:	1852.4 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
158.5000	-83.72	7.15	-76.57	-13.00	-63.57	peak	H
200.5000	-76.64	2.48	-74.16	-13.00	-61.16	peak	H
359.0000	-81.89	-0.77	-82.66	-13.00	-69.66	peak	H
525.0000	-80.78	6.93	-73.85	-13.00	-60.85	peak	H
666.0000	-80.30	6.81	-73.49	-13.00	-60.49	peak	H
795.0000	-81.89	10.63	-71.26	-13.00	-58.26	peak	H
3244.000	-70.93	12.19	-58.74	-13.00	-45.74	peak	H
4720.000	-74.28	15.18	-59.10	-13.00	-46.10	peak	H
7132.000	-74.49	23.89	-50.60	-13.00	-37.60	peak	H
132.5000	-79.96	18.25	-61.71	-13.00	-48.71	peak	V
212.0000	-81.68	7.66	-74.02	-13.00	-61.02	peak	V
366.5000	-81.62	1.37	-80.25	-13.00	-67.25	peak	V
489.5000	-80.94	1.79	-79.15	-13.00	-66.15	peak	V
623.0000	-80.26	8.21	-72.05	-13.00	-59.05	peak	V
737.5000	-79.45	10.41	-69.04	-13.00	-56.04	peak	V
3280.000	-70.75	15.65	-55.10	-13.00	-42.10	peak	V
4732.000	-73.93	19.54	-54.39	-13.00	-41.39	peak	V
7156.000	-74.43	21.69	-52.74	-13.00	-39.74	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	LLC7260	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	5	Date:	10/18/2014
Frequency:	1880.0 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
158.0000	-82.67	7.03	-75.64	-13.00	-62.64	peak	H
204.0000	-78.63	1.58	-77.05	-13.00	-64.05	peak	H
320.0000	-81.96	-1.49	-83.45	-13.00	-70.45	peak	H
488.0000	-80.99	5.47	-75.52	-13.00	-62.52	peak	H
581.5000	-79.76	6.64	-73.12	-13.00	-60.12	peak	H
747.0000	-81.83	8.37	-73.46	-13.00	-60.46	peak	H
3292.000	-70.47	12.35	-58.12	-13.00	-45.12	peak	H
4756.000	-73.88	15.38	-58.50	-13.00	-45.50	peak	H
7072.000	-74.89	23.73	-51.16	-13.00	-38.16	peak	H
131.0000	-81.41	18.85	-62.56	-13.00	-49.56	peak	V
200.5000	-82.33	9.73	-72.60	-13.00	-59.60	peak	V
294.5000	-81.15	1.66	-79.49	-13.00	-66.49	peak	V
422.5000	-80.70	0.61	-80.09	-13.00	-67.09	peak	V
590.5000	-81.26	5.75	-75.51	-13.00	-62.51	peak	V
713.5000	-81.44	10.55	-70.89	-13.00	-57.89	peak	V
3292.000	-72.63	15.73	-56.90	-13.00	-43.90	peak	V
4756.000	-72.12	19.59	-52.53	-13.00	-39.53	peak	V
7168.000	-74.59	21.72	-52.87	-13.00	-39.87	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	LLC7260	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	5	Date:	10/18/2014
Frequency:	1907.6 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
156.0000	-82.65	6.51	-76.14	-13.00	-63.14	peak	H
207.5000	-79.35	0.69	-78.66	-13.00	-65.66	peak	H
379.0000	-81.11	-0.10	-81.21	-13.00	-68.21	peak	H
500.0000	-80.41	6.18	-74.23	-13.00	-61.23	peak	H
656.0000	-81.35	6.71	-74.64	-13.00	-61.64	peak	H
784.0000	-81.28	10.13	-71.15	-13.00	-58.15	peak	H
3232.000	-70.51	12.16	-58.35	-13.00	-45.35	peak	H
4768.000	-74.51	15.44	-59.07	-13.00	-46.07	peak	H
7228.000	-73.66	24.17	-49.49	-13.00	-36.49	peak	H
160.0000	-80.83	18.76	-62.07	-13.00	-49.07	peak	V
206.0000	-81.07	8.95	-72.12	-13.00	-59.12	peak	V
283.0000	-81.56	0.64	-80.92	-13.00	-67.92	peak	V
416.5000	-80.81	0.54	-80.27	-13.00	-67.27	peak	V
513.5000	-79.51	2.16	-77.35	-13.00	-64.35	peak	V
612.5000	-79.74	7.58	-72.16	-13.00	-59.16	peak	V
3268.000	-71.25	15.57	-55.68	-13.00	-42.68	peak	V
4780.000	-72.51	19.63	-52.88	-13.00	-39.88	peak	V
7132.000	-75.42	21.65	-53.77	-13.00	-40.77	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	LLC7260	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	6	Date:	10/18/2014
Frequency:	826.4 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
151.5000	-81.23	5.36	-75.87	-13.00	-62.87	peak	H
200.5000	-75.61	2.48	-73.13	-13.00	-60.13	peak	H
330.0000	-81.68	-1.36	-83.04	-13.00	-70.04	peak	H
418.0000	-81.68	2.56	-79.12	-13.00	-66.12	peak	H
569.0000	-80.56	6.73	-73.83	-13.00	-60.83	peak	H
684.0000	-80.87	6.82	-74.05	-13.00	-61.05	peak	H
3268.000	-70.56	12.26	-58.30	-13.00	-45.30	peak	H
4708.000	-74.24	15.11	-59.13	-13.00	-46.13	peak	H
7108.000	-75.17	23.84	-51.33	-13.00	-38.33	peak	H
131.0000	-78.47	18.85	-59.62	-13.00	-46.62	peak	V
200.5000	-80.95	9.73	-71.22	-13.00	-58.22	peak	V
314.5000	-82.52	0.94	-81.58	-13.00	-68.58	peak	V
523.5000	-80.15	2.44	-77.71	-13.00	-64.71	peak	V
674.0000	-81.42	9.26	-72.16	-13.00	-59.16	peak	V
726.0000	-80.91	10.65	-70.26	-13.00	-57.26	peak	V
3316.000	-71.68	15.87	-55.81	-13.00	-42.81	peak	V
4768.000	-74.25	19.61	-54.64	-13.00	-41.64	peak	V
7120.000	-75.63	21.63	-54.00	-13.00	-41.00	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	LLC7260	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	6	Date:	10/18/2014
Frequency:	836.6 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
160.0000	-82.45	7.53	-74.92	-13.00	-61.92	peak	H
200.5000	-78.61	2.48	-76.13	-13.00	-63.13	peak	H
298.5000	-82.22	-3.07	-85.29	-13.00	-72.29	peak	H
417.5000	-81.82	2.53	-79.29	-13.00	-66.29	peak	H
512.5000	-80.65	6.57	-74.08	-13.00	-61.08	peak	H
651.0000	-79.97	6.60	-73.37	-13.00	-60.37	peak	H
3292.000	-71.86	12.35	-59.51	-13.00	-46.51	peak	H
4780.000	-73.97	15.50	-58.47	-13.00	-45.47	peak	H
7108.000	-75.14	23.84	-51.30	-13.00	-38.30	peak	H
130.5000	-79.12	19.05	-60.07	-13.00	-47.07	peak	V
200.5000	-81.15	9.73	-71.42	-13.00	-58.42	peak	V
288.0000	-81.24	1.08	-80.16	-13.00	-67.16	peak	V
453.0000	-79.58	1.03	-78.55	-13.00	-65.55	peak	V
613.0000	-80.54	7.61	-72.93	-13.00	-59.93	peak	V
711.0000	-80.79	10.47	-70.32	-13.00	-57.32	peak	V
3292.000	-71.98	15.73	-56.25	-13.00	-43.25	peak	V
4732.000	-74.09	19.54	-54.55	-13.00	-41.55	peak	V
7168.000	-75.93	21.72	-54.21	-13.00	-41.21	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	LLC7260	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	6	Date:	10/18/2014
Frequency:	846.6 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
153.0000	-82.84	5.75	-77.09	-13.00	-64.09	peak	H
204.0000	-78.68	1.58	-77.10	-13.00	-64.10	peak	H
303.0000	-82.95	-2.71	-85.66	-13.00	-72.66	peak	H
407.5000	-81.85	2.01	-79.84	-13.00	-66.84	peak	H
556.0000	-81.02	6.95	-74.07	-13.00	-61.07	peak	H
699.0000	-81.10	6.87	-74.23	-13.00	-61.23	peak	H
3280.000	-71.44	12.31	-59.13	-13.00	-46.13	peak	H
4720.000	-74.73	15.18	-59.55	-13.00	-46.55	peak	H
7132.000	-72.57	23.89	-48.68	-13.00	-35.68	peak	H
130.0000	-81.97	19.26	-62.71	-13.00	-49.71	peak	V
201.5000	-81.91	9.59	-72.32	-13.00	-59.32	peak	V
292.0000	-82.38	1.44	-80.94	-13.00	-67.94	peak	V
421.0000	-81.77	0.58	-81.19	-13.00	-68.19	peak	V
552.0000	-81.12	3.37	-77.75	-13.00	-64.75	peak	V
667.0000	-79.69	9.15	-70.54	-13.00	-57.54	peak	V
3268.000	-71.48	15.57	-55.91	-13.00	-42.91	peak	V
4756.000	-73.77	19.59	-54.18	-13.00	-41.18	peak	V
7108.000	-74.56	21.63	-52.93	-13.00	-39.93	peak	V

9 Frequency Stability (Temperature & Voltage Variation) Test

9.1. Limit

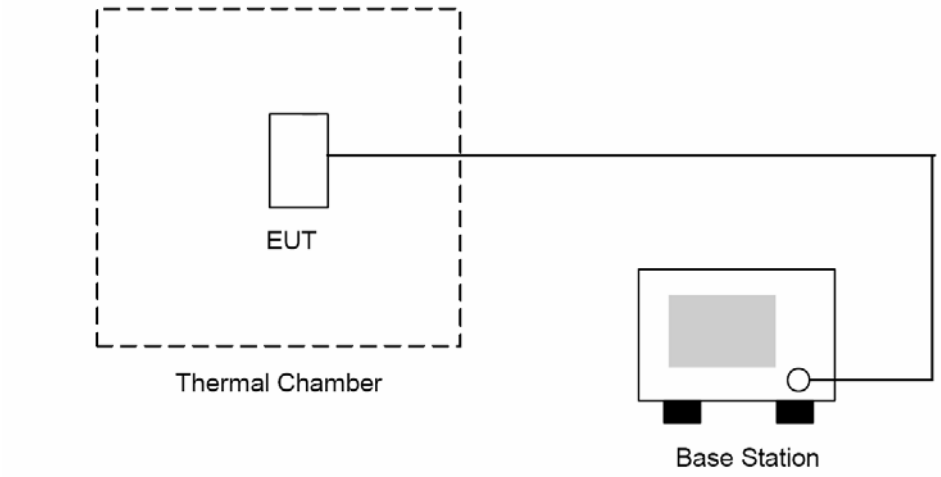
The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

9.2. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Universal Radio Communication Tester	R & S	CMU200	109369	08/11/2014	(2)
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	08/14/2014	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.
Note: N.C.R. = No Calibration Request.

9.3. Setup



9.4. Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to -30℃ and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was note within one minute.
3. With power OFF, the temperature was raised in 10℃ steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
4. The EUT was placed in a temperature chamber at 25±5 ℃ and connected as the following section.
5. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
6. The temperature tests were performed for the worst case.
7. Test data was recorded.

9.5. Uncertainty

The measurement uncertainty is defined as for Frequency Stability (Temperature Variation) measurement is ± 10Hz.

9.6. Test Result

Model Number	LLC7260					
Test Item	Frequency Stability (Temperature & Voltage Variation)					
Test Mode	Mode 1					
Date of Test	10/13/2014				Test Site	TE05
Level	Voltage [Vac]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
Normal	120.00	-30	15	0.018	±2.5	Pass
Normal	120.00	-20	-21	-0.025	±2.5	Pass
Normal	120.00	-10	33	0.039	±2.5	Pass
Normal	120.00	0	16	0.019	±2.5	Pass
Normal	120.00	10	18	0.022	±2.5	Pass
High Voltage	138.00	20	25	0.030	±2.5	Pass
Normal	120.00	20	16	0.019	±2.5	Pass
Low Volgtage	102.00	20	-17	-0.020	±2.5	Pass
Normal	120.00	30	9	0.011	±2.5	Pass
Normal	120.00	40	7	0.008	±2.5	Pass
Normal	120.00	50	11	0.013	±2.5	Pass

Model Number	LLC7260					
Test Item	Frequency Stability (Temperature & Voltage Variation)					
Test Mode	Mode 2					
Date of Test	10/13/2014				Test Site	TE05
Level	Voltage [Vac]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
Normal	120.00	-30	22	0.012	±2.5	Pass
Normal	120.00	-20	-31	-0.016	±2.5	Pass
Normal	120.00	-10	-43	-0.023	±2.5	Pass
Normal	120.00	0	21	0.011	±2.5	Pass
Normal	120.00	10	27	0.014	±2.5	Pass
High Voltage	138.00	20	31	0.016	±2.5	Pass
Normal	120.00	20	42	0.022	±2.5	Pass
Low Volgtage	102.00	20	55	0.029	±2.5	Pass
Normal	120.00	30	25	0.013	±2.5	Pass
Normal	120.00	40	29	0.015	±2.5	Pass
Normal	120.00	50	33	0.018	±2.5	Pass

Model Number	LLC7260					
Test Item	Frequency Stability (Temperature & Voltage Variation)					
Test Mode	Mode 5					
Date of Test	10/13/2014				Test Site	TE05
Level	Voltage [Vac]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
Normal	120.00	-30	18	0.010	±2.5	Pass
Normal	120.00	-20	29	0.015	±2.5	Pass
Normal	120.00	-10	33	0.018	±2.5	Pass
Normal	120.00	0	54	0.029	±2.5	Pass
Normal	120.00	10	-33	-0.018	±2.5	Pass
High Voltage	138.00	20	34	0.018	±2.5	Pass
Normal	120.00	20	25	0.013	±2.5	Pass
Low Volgtage	102.00	20	18	0.010	±2.5	Pass
Normal	120.00	30	54	0.029	±2.5	Pass
Normal	120.00	40	37	0.020	±2.5	Pass
Normal	120.00	50	22	0.012	±2.5	Pass

Model Number	LLC7260					
Test Item	Frequency Stability (Temperature & Voltage Variation)					
Test Mode	Mode 6					
Date of Test	10/13/2014				Test Site	TE05
Level	Voltage [Vac]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
Normal	120.00	-30	-16	-0.019	±2.5	Pass
Normal	120.00	-20	21	0.025	±2.5	Pass
Normal	120.00	-10	-35	-0.042	±2.5	Pass
Normal	120.00	0	-33	-0.039	±2.5	Pass
Normal	120.00	10	21	0.025	±2.5	Pass
High Voltage	138.00	20	-25	-0.030	±2.5	Pass
Normal	120.00	20	-12	-0.014	±2.5	Pass
Low Volgtage	102.00	20	13	0.016	±2.5	Pass
Normal	120.00	30	43	0.051	±2.5	Pass
Normal	120.00	40	25	0.030	±2.5	Pass
Normal	120.00	50	27	0.032	±2.5	Pass