

FCC RADIO TEST REPORT FCC ID: 2AE8C-SA1

Product: WiFi/Bluetooth LED Indicator Panel

Trade Name: LaMetric

Model Name: LM 37X8

Serial Model: LM 37X8B, LM 37X8C, LM 37X8M,

LM 37X8S, LM 37X8W

Report No.: NTEK-2015NT0528043F2

Prepared for

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Prepared by

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TEST RESULT CERTIFICATION

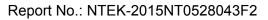
Report No.: NTEK-2015NT0528043F2

Applicant's name Sn	nart Atoms Lir	nited			
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Address 3F 10	Shenzhen Futaihong Precision Industrial Co., Ltd. 3F F4 Building Foxconn Technology Group , NO.2,2nd Donghuan Road , 10th Yousong Industrial District , New Distrit of LongHua Shenzhen Guangdong Province China				
Product description	0 0				
Product nameWi	iFi/Bluetooth l	_ED Indicator Panel			
Model and/or type referenceLN	1 37X8				
Serial ModelLN	1 37X8B, LM	37X8C, LM 37X8M, LM 37X8S, LM 37X8W			
Standards FC	CC Part15.247	7 01 Oct. 2014			
Test procedure AN	NSI C63.10-20	013 and KDB 558074: June 5, 2014			
) is in complia	ested by NTEK, and the test results show that the ance with the FCC requirements. And it is applicable only ort.			
		pt in full, without the written approval of NTEK, this ITEK, personnel only, and shall be noted in the revision of			
Date of Test					
Date (s) of performance of to		∕lay 2015~14 Jul. 2015			
Date of Issue					
Test Result	Pas	S			
Testing Er	ngineer :	Danny Gruny			
		Denny Huang			
Technical	Manager :	Brown Ln			
		(Brown Lu)			
Authorize	d Signatory:	Sam. Chen			
		(Sam Chen)			



Table of Contents

	Page
1 . SUMMARY OF TEST RESULTS	5
1.1 TEST FACILITY	6
1.2 MEASUREMENT UNCERTAINTY	6
2. GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF EUT	7
2.2 DESCRIPTION OF TEST MODES	9
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTE	D 10
2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	11
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	12
3 . EMC EMISSION TEST	14
3.1 CONDUCTED EMISSION MEASUREMENT	14
3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 3.1.2 TEST PROCEDURE	14 15
3.1.3 DEVIATION FROM TEST STANDARD	15
3.1.4 TEST SETUP	15
3.1.5 EUT OPERATING CONDITIONS	15
3.1.6 TEST RESULTS	16
3.2 RADIATED EMISSION MEASUREMENT	24
3.2.1 RADIATED EMISSION LIMITS 3.2.2 TEST PROCEDURE	24 25
3.2.3 DEVIATION FROM TEST STANDARD	25 25
3.2.4 TEST SETUP	26
3.2.5 EUT OPERATING CONDITIONS	27
3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)	28
3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ) 3.2.8 TEST RESULTS (ABOVE 1000 MHZ)	29 31
4 . POWER SPECTRAL DENSITY TEST	32
4.1 APPLIED PROCEDURES / LIMIT	32
4.1.1 TEST PROCEDURE	32 32
4.1.2 DEVIATION FROM STANDARD	32
4.1.3 TEST SETUP	32
4.1.4 EUT OPERATION CONDITIONS 4.1.5 TEST RESULTS	32 33
5 . BANDWIDTH TEST	41
5.1 APPLIED PROCEDURES / LIMIT	41
5.1.1 TEST PROCEDURE	41





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Idi	JIE	: U		٠.	on.	ιe	HILS

Table of Contents	Page
TEST SETUP 5.1.2 EUT OPERATION CONDITIONS 5.1.3 TEST RESULTS	41 41 42
6 . PEAK OUTPUT POWER TEST	50
6.1 APPLIED PROCEDURES / LIMIT	50
6.1.1 TEST PROCEDURE 6.1.2 DEVIATION FROM STANDARD 6.1.3 TEST SETUP 6.1.4 EUT OPERATION CONDITIONS 6.1.5 TEST RESULTS	50 50 50 50 51
7 . 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE 7.1 DEVIATION FROM STANDARD 7.2 TEST SETUP 7.3 EUT OPERATION CONDITIONS 7.4 TEST RESULTS	52 52 52 52 53
8 . ANTENNA REQUIREMENT	59
8.1 STANDARD REQUIREMENT	59
8.2 EUT ANTENNA	59
9 . EUT TEST PHOTO APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	60



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C						
Standard Section	Test Item	Judgment	Remark			
15.207	Conducted Emission	PASS				
15.247 (a)(2)	6dB Bandwidth	PASS				
15.247 (b)	Peak Output Power	PASS				
15.247 (c)	Radiated Spurious Emission	PASS				
15.247 (d)	Power Spectral Density	PASS				
15.205	Band Edge Emission	PASS				
15.203	Antenna Requirement	PASS				

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.:1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

Report No.: NTEK-2015NT0528043F2

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	WiFi/Bluetooth LED Indicator Panel					
Trade Name	LaMetric					
Model Name	LM 37X8	LM 37X8				
Serial Model	LM 37X8B, LM 37X80	C, LM 37X8M, LM 37X8S, LM 37X8W				
Model Difference	All the model are the except the model nan	same circuit and RF module, ne and colour.				
Product Description	Operation Frequency: Modulation Type: Bit Rate of Transmitter Number Of Channel Antenna Designation: Antenna Gain (dBi)	802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz IEEE 802.11b: DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20/HT40): OFDM(64QAM, 16QAM, QPSK, BPSK) 802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz/40MHz):150/144.44/1 30/117/115.56/104/86.67/78/52/6.5Mb ps 802.11b/g/n20MHz:11CH 802.11n40MHz:7CH Please see Note 3.				
Channel List	Please refer to the No	ote 2.				
Ratings	DC 3.7V					
Adapter	Mode: ADS-12BA-06N 05010G Input: 100-240V~, 50/60Hz, MAX0.3A Output: 5V==-, 2.0A					
Battery	DC 3.7V, 2500mAh					
Connecting I/O	Please refer to the Us	eer's Manual				
Port(s)	Thease relei to the Os	se refer to the Oser's Manual				



Note:

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

Page 8 of 61

2.

	Channel List for 802.11b/g/n(20 MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	80	2447	11	2462
03	2422	06	2437	09	2452		

	Channel List for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
03	2422	06	2437	09	2452			
04	2427	07	2442					
05	2432	80	2447					

3.

Table for Filed Antenna

	Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
•	A	N/A	N/A	Chip Antenna	N/A	3.0	Wifi Antenna



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n20 CH1/ CH6/ CH11
Mode 4	802.11n40 CH3/ CH6/ CH9
Mode 5	Link Mode

Page 9 of 61

For Conducted Emission				
Final Test Mode	Description			
Mode 5	Link Mode			

For Radiated Emission						
Final Test Mode Description						
Mode 1	802.11b CH1/ CH6/ CH11					
Mode 2	802.11g CH1/ CH6/ CH11					
Mode 3	802.11n20 CH1/ CH6/ CH11					
Mode 4	802.11n40 CH3/ CH6/ CH 9					
Mode 5	Link Mode					

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (3) EUT configured to transmit continuously:

Operated Mode for Worst Duty Cycle					
Test Signal Duty Cycle (x)	Average correction factor (dB)				
100% - IEEE 802.11b	0				
100% - IEEE 802.11g	0				
100% - IEEE 802.11n (HT20)	0				
100% - IEEE 802.11n (HT40)	0				



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test

E-1 EUT



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	WiFi/Bluetooth LED Indicator Panel	N/A	LM 37X8	N/A	EUT
E-2	Adapter	N/A	ADS-12BA-06N 05010G	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.8m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

rtadio	readiation rest equipment								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period		
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2015.07.06	2016.07.05	1 year		
2	Test Receiver	R&S	ESPI	101318	2015.06.07	2016.06.06	1 year		
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year		
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2015.06.07	2016.06.06	1 year		
5	Spectrum Analyzer	ADVANTEST		150900201	2015.06.07	2016.06.06	1 year		
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2015.07.06	2016.07.05	1 year		
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year		
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year		
9	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07	1 year		
10	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year		
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2015.07.06	2016.07.05	1 year		

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2014.07.06	2015.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2014.06.06	2015.06.05	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.06	2015.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2014.06.06	2015.06.05	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.06.06	2015.06.05	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2014.07.06	2015.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2014.06.06	2015.06.05	1 year
10	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.07.06	2015.07.05	1 year



Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2015.06.06	2016.06.05	1 year
2	LISN	R&S	ENV216	101313	2014.08.24	2015.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2015.06.06	2016.06.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2015.06.06	2016.06.05	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.06	2016.06.05	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2015.06.06	2016.06.05	1 year

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2014.06.06	2015.06.05	1 year
3	LISN	EMCO	3816/2	00042990	2014.06.06	2015.06.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2014.06.06	2015.06.05	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.06	2015.06.05	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2014.06.06	2015.06.05	1 year

1	Attenuation	MCE	24-10-34	BN9258	2015.06.06	2016.06.05	1 year
1	Attenuation	MCE	24-10-34	BN9258	2014.06.06	2015.06.05	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

	Class A	(dBuV)	Class B	Standard	
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

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



3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



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

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

3.1.5 EUT OPERATING CONDITIONS

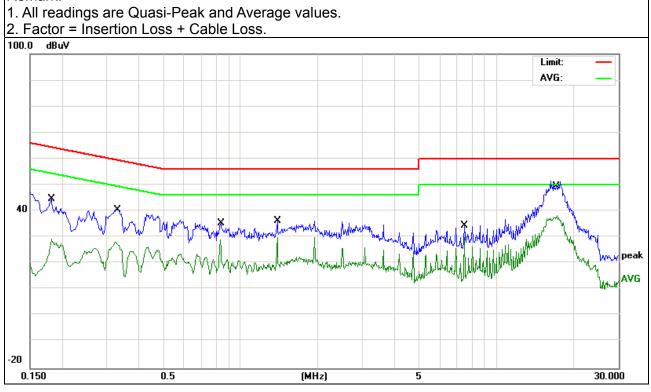
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.1.6 TEST RESULTS

FUI:	WiFi/Bluetooth LED Indicator Panel	Model Name. :	LM 37X8
Temperature :	26 ℃	Relative Humidity:	56%
Pressure :	1010hPa	Phase :	L
TASE VOIDAGE .	DC 5V From adapter AC120V/60Hz	Test Mode:	Mode 5

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1819	35.00	9.61	44.61	64.39	-19.78	QP
0.1819	19.65	9.61	29.26	54.39	-25.13	AVG
0.3300	30.90	9.62	40.52	59.45	-18.93	QP
0.3300	18.49	9.62	28.11	49.45	-21.34	AVG
0.8338	25.55	9.62	35.17	56.00	-20.83	QP
0.8338	19.45	9.62	29.07	46.00	-16.93	AVG
1.3898	26.82	9.58	36.40	56.00	-19.60	QP
1.3898	20.23	9.58	29.81	46.00	-16.19	AVG
7.5019	24.94	9.53	34.47	60.00	-25.53	QP
7.5019	20.43	9.53	29.96	50.00	-20.04	AVG
17.2099	41.78	9.79	51.57	60.00	-8.43	QP
17.2099	28.67	9.79	38.46	50.00	-11.54	AVG

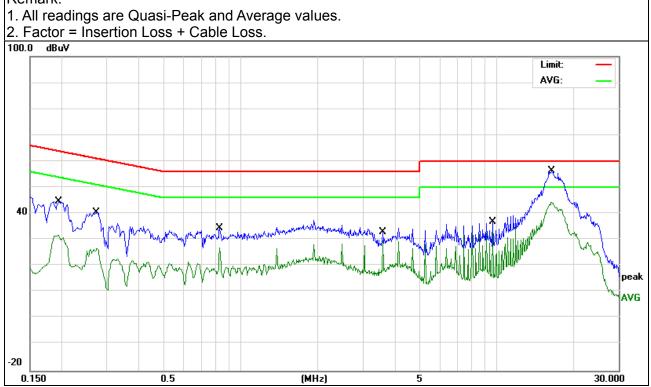




EUT:	WiFi/Bluetooth LED Indicator Panel	Model Name. :	LM 37X8
Temperature:	26 ℃	Relative Humidity:	56%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V From adapter AC120V/60Hz	Test Mode :	Mode 5

Page 17 of 61

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	David
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1940	34.96	9.61	44.57	63.86	-19.29	QP
0.1940	22.20	9.61	31.81	53.86	-22.05	AVG
0.2740	30.91	9.62	40.53	60.99	-20.46	QP
0.2740	16.94	9.62	26.56	50.99	-24.43	AVG
0.8300	24.70	9.63	34.33	56.00	-21.67	QP
0.8300	17.32	9.63	26.95	46.00	-19.05	AVG
3.5980	23.57	9.52	33.09	56.00	-22.91	QP
3.5980	20.00	9.52	29.52	46.00	-16.48	AVG
9.6899	27.08	9.65	36.73	60.00	-23.27	QP
9.6899	23.31	9.65	32.96	50.00	-17.04	AVG
16.4459	46.57	9.78	56.35	60.00	-3.65	QP
16.4459	34.51	9.78	44.29	50.00	-5.71	AVG

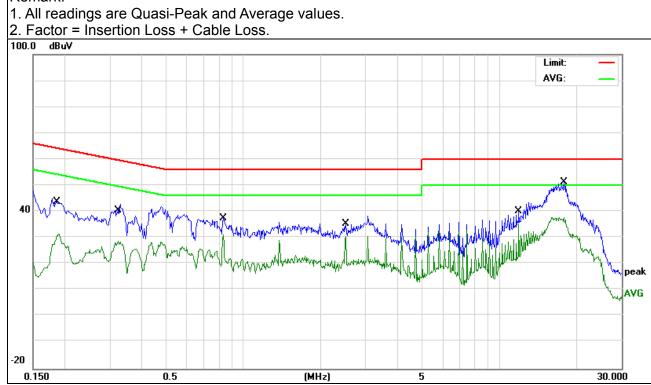




EUT:	WiFi/Bluetooth LED Indicator Panel	Model Name. :	LM 37X8
Temperature :	26 ℃	Relative Humidity:	56%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V From adapter AC240V/60Hz	Test Mode :	Mode 5

Page 18 of 61

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Nemark
0.1882	34.59	9.61	44.20	64.11	-19.91	QP
0.1882	21.74	9.61	31.35	54.11	-22.76	AVG
0.3220	30.92	9.62	40.54	59.65	-19.11	QP
0.3220	19.17	9.62	28.79	49.65	-20.86	AVG
0.8338	27.90	9.62	37.52	56.00	-18.48	QP
0.8338	21.39	9.62	31.01	46.00	-14.99	AVG
2.5019	25.76	9.53	35.29	56.00	-20.71	QP
2.5019	20.93	9.53	30.46	46.00	-15.54	AVG
11.9138	30.54	9.70	40.24	60.00	-19.76	QP
11.9138	25.72	9.70	35.42	50.00	-14.58	AVG
17.8699	41.35	9.80	51.15	60.00	-8.85	QP
17.8699	28.10	9.80	37.90	50.00	-12.10	AVG

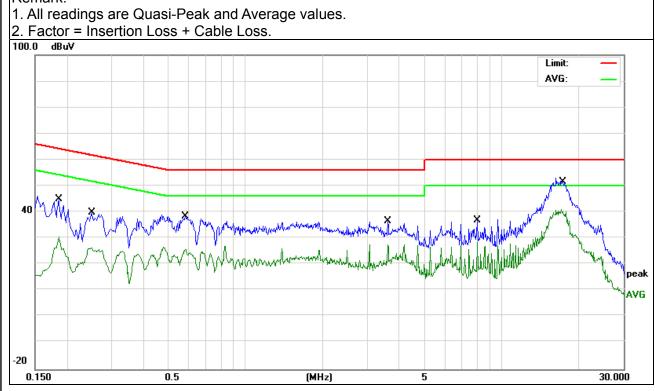




EUT:	WiFi/Bluetooth LED Indicator Panel	Model Name. :	LM 37X8
Temperature:	26 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V From adapter AC240V/60Hz	Test Mode:	Mode 5

Page 19 of 61

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1859	35.32	9.61	44.93	64.21	-19.28	QP
0.1859	21.07	9.61	30.68	54.21	-23.53	AVG
0.2500	30.39	9.61	40.00	61.75	-21.75	QP
0.2500	16.81	9.61	26.42	51.75	-25.33	AVG
0.5818	28.54	9.66	38.20	56.00	-17.80	QP
0.5818	16.02	9.66	25.68	46.00	-20.32	AVG
3.6019	26.88	9.52	36.40	56.00	-19.60	QP
3.6019	18.09	9.52	27.61	46.00	-18.39	AVG
8.0379	27.27	9.56	36.83	60.00	-23.17	QP
8.0379	18.76	9.56	28.32	50.00	-21.68	AVG
17.1817	41.89	9.79	51.68	60.00	-8.32	QP
17.1817	31.17	9.79	40.96	50.00	-9.04	AVG

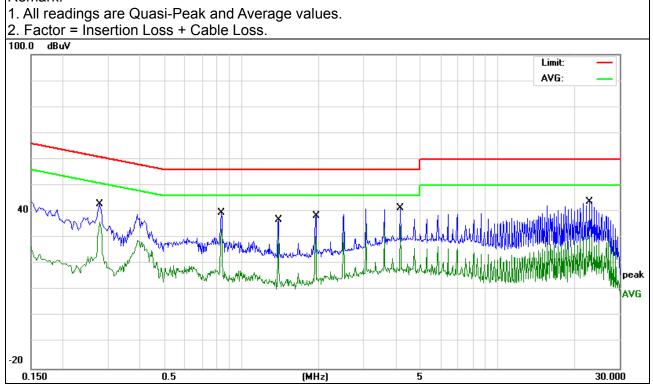




IEU I ·	WiFi/Bluetooth LED Indicator Panel	Model Name. :	LM 37X8
Temperature :	26 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	L
LIEST VOITAGE :	DC 5V From PC AC120V/60Hz	Test Mode :	Mode 5

Page 20 of 61

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2779	33.12	9.71	42.83	60.88	-18.05	QP
0.2779	26.10	9.71	35.81	50.88	-15.07	AVG
0.8338	29.69	9.76	39.45	56.00	-16.55	QP
0.8338	23.40	9.76	33.16	46.00	-12.84	AVG
1.3898	27.26	9.70	36.96	56.00	-19.04	QP
1.3898	20.77	9.70	30.47	46.00	-15.53	AVG
1.9498	28.77	9.65	38.42	56.00	-17.58	QP
1.9458	20.78	9.65	30.43	46.00	-15.57	AVG
4.1736	31.67	9.70	41.37	56.00	-14.63	QP
4.1736	24.64	9.70	34.34	46.00	-11.66	AVG
22.8140	33.96	9.94	43.90	60.00	-16.10	QP
22.8140	21.01	9.94	30.95	50.00	-19.05	AVG

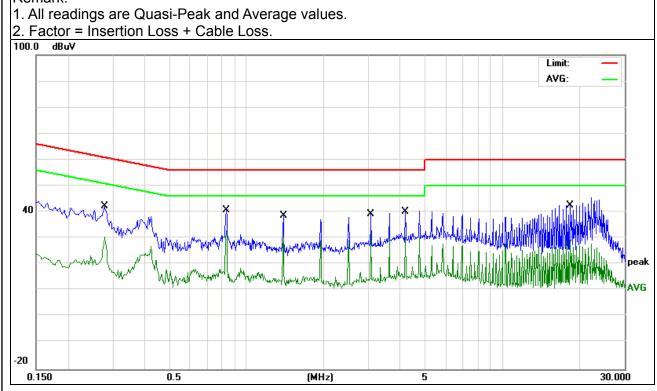




IFUI.	WiFi/Bluetooth LED Indicator Panel	Model Name. :	LM 37X8
Temperature:	26 ℃	Relative Humidity:	56%
Pressure :	1010hPa	Phase :	N
LIEST VOITAGE :	DC 5V From PC AC120V/60Hz	Test Mode:	Mode 5

Page 21 of 61

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2779	32.54	9.61	42.15	60.88	-18.73	QP
0.2779	21.06	9.61	30.67	50.88	-20.21	AVG
0.8338	31.03	9.62	40.65	56.00	-15.35	QP
0.8338	23.22	9.62	32.84	46.00	-13.16	AVG
1.3898	29.22	9.58	38.80	56.00	-17.20	QP
1.3898	21.76	9.58	31.34	46.00	-14.66	AVG
3.0579	29.61	9.52	39.13	56.00	-16.87	QP
3.0579	22.07	9.52	31.59	46.00	-14.41	AVG
4.1736	30.60	9.51	40.11	56.00	-15.89	QP
4.1736	21.14	9.51	30.65	46.00	-15.35	AVG
18.3537	32.79	9.80	42.59	60.00	-17.41	QP
18.3537	19.49	9.80	29.29	50.00	-20.71	AVG

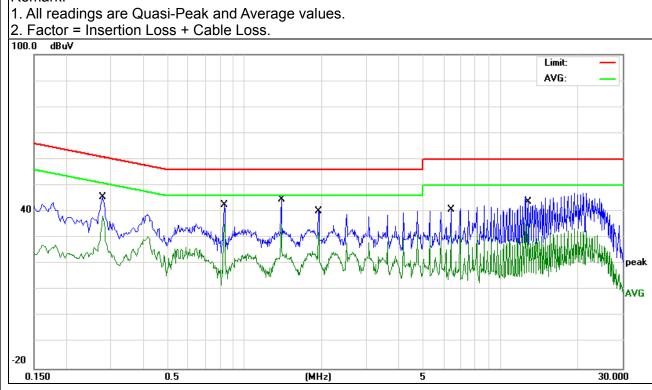




EUT:	WiFi/Bluetooth LED Indicator Panel	Model Name. :	LM 37X8
Temperature :	26 ℃	Relative Humidity:	56%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V From PC AC240V/60Hz	Test Mode :	Mode 5

Page 22 of 61

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Damada
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2779	35.75	9.71	45.46	60.88	-15.42	QP
0.2779	28.52	9.71	38.23	50.88	-12.65	AVG
0.8338	32.71	9.76	42.47	56.00	-13.53	QP
0.8338	25.19	9.76	34.95	46.00	-11.05	AVG
1.3938	34.80	9.70	44.50	56.00	-11.50	QP
1.3938	25.66	9.70	35.36	46.00	-10.64	AVG
1.9458	30.41	9.65	40.06	56.00	-15.94	QP
1.9458	22.27	9.65	31.92	46.00	-14.08	AVG
6.3978	30.94	9.70	40.64	60.00	-19.36	QP
6.3978	22.10	9.70	31.80	50.00	-18.20	AVG
12.7979	36.02	9.76	45.78	60.00	-14.22	QP
12.7979	26.74	9.76	36.50	50.00	-13.50	AVG

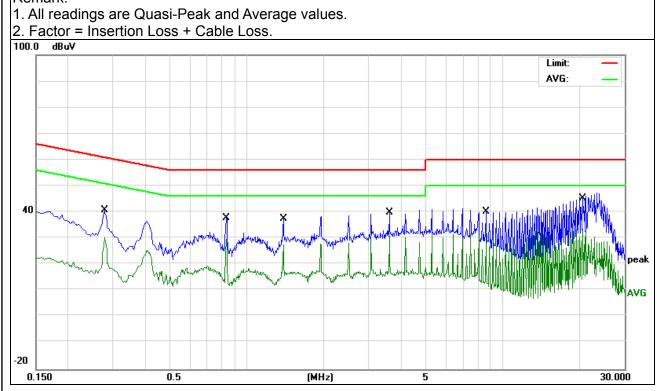




IFUI.	WiFi/Bluetooth LED Indicator Panel	Model Name. :	LM 37X8
Temperature :	26 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	N
LIEST VOITAGE :	DC 5V From PC AC240V/60Hz	Test Mode:	Mode 5

Page 23 of 61

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2779	31.07	9.61	40.68	60.88	-20.20	QP
0.2779	20.64	9.61	30.25	50.88	-20.63	AVG
0.8337	28.17	9.62	37.79	56.00	-18.21	QP
0.8337	19.96	9.62	29.58	46.00	-16.42	AVG
1.3937	27.77	9.58	37.35	56.00	-18.65	QP
1.3937	17.90	9.58	27.48	46.00	-18.52	AVG
3.6179	30.24	9.52	39.76	56.00	-16.24	QP
3.6179	21.24	9.52	30.76	46.00	-15.24	AVG
8.6296	30.54	9.59	40.13	60.00	-19.87	QP
8.6296	22.94	9.59	32.53	50.00	-17.47	AVG
20.5977	36.00	9.84	45.84	60.00	-14.16	QP
20.5977	23.86	9.84	33.70	50.00	-16.30	AVG





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted	4 Mile / 4 Mile for Dools 4 Mile / 40/le for Asserts
band)	1 MHz / 1 MHz for Peak, 1 MHz / <i>10Hz</i> for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

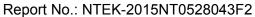
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	10 Hz

3.2.3 DEVIATION FROM TEST STANDARD

No deviation





3.2.4 TEST SETUP

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

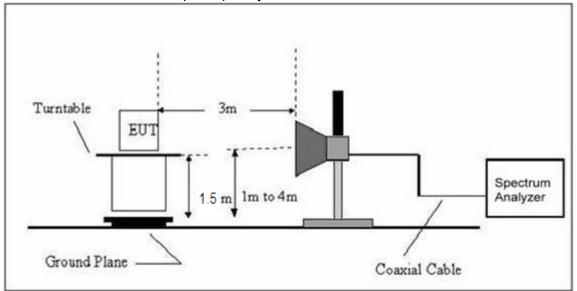


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS (BETWEEN 9KHZ - 30 MHZ)

EUT:	WiFi/Bluetooth LED Indicator Panel	Model Name. :	LM 37X8
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX	Polarization :	

Report No.: NTEK-2015NT0528043F2

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				N/A
				N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.



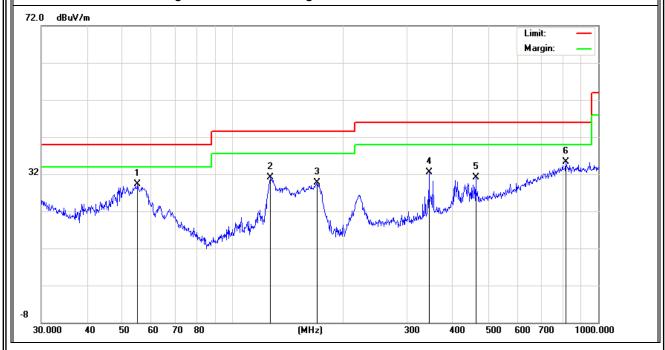
3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

EUT:	WiFi/Bluetooth LED Indicator Panel	Model Name :	LM 37X8
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Roman
V	55.0274	20.09	9.26	29.35	40.00	-10.65	QP
V	126.7723	19.19	11.96	31.15	43.50	-12.35	QP
V	170.1947	19.15	10.55	29.70	43.50	-13.80	QP
V	344.3854	16.43	16.00	32.43	46.00	-13.57	QP
V	462.3455	11.48	19.55	31.03	46.00	-14.97	QP
V	815.9678	7.85	27.36	35.21	46.00	-10.79	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



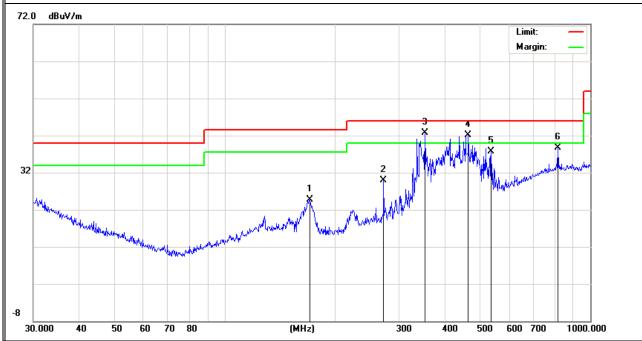


Emission Meter Frequency Factor Limits Margin **Polar** Reading Level Remark (H/V) (dBuV) (dBuV/m) (MHz) (dB) (dBuV/m) (dB) 170.7926 Н 14.17 10.56 24.73 43.50 -18.77 QΡ 16.09 13.84 29.93 46.00 -16.07 QΡ Н 272.2776 16.36 352.9433 26.43 42.79 46.00 -3.21 QΡ Η Н 463.9696 22.58 19.58 42.16 46.00 -3.84 QΡ Н 535.7073 16.69 21.04 37.73 46.00 -8.27 QΡ QP Η 815.9678 11.26 27.36 38.62 46.00 -7.38

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

Page 30 of 61





3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	WiFi/Bluetooth LED Indicator Panel	Model Name :	LM 37X8
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
		Low Cha	nnel (241:	2 MHz)-Abov	e 1G		
Vertical	4824.214	49.53	10.44	59.97	74.00	-14.03	Pk
Vertical	4824.214	31.06	10.44	41.50	54.00	-12.50	Av
Vertical	7236.305	42.71	12.39	55.10	74.00	-18.90	Pk
Vertical	7236.305	26.99	12.39	39.38	54.00	-14.62	Av
Horizontal	4824.147	51.25	10.44	61.69	74.00	-12.31	Pk
Horizontal	4824.147	29.97	10.44	40.41	54.00	-13.59	Av
Horizontal	7236.085	43.41	12.39	55.80	74.00	-18.20	Pk
Horizontal	7236.085	28.55	12.39	40.94	54.00	-13.06	Av
		Mid Char	nel (2437	7 MHz)-Above	9 1G	_	
Vertical	4874.274	48.91	10.40	59.31	74.00	-14.69	Pk
Vertical	4874.274	29.83	10.40	40.23	54.00	-13.77	Av
Vertical	7311.365	42.57	12.75	55.32	74.00	-18.68	Pk
Vertical	7311.365	25.56	12.75	38.31	54.00	-15.69	Av
Horizontal	4874.185	49.68	10.40	60.08	74.00	-13.92	Pk
Horizontal	4874.185	30.91	10.40	41.31	54.00	-12.69	Av
Horizontal	7311.215	45.79	12.75	58.54	74.00	-15.46	Pk
Horizontal	7311.215	26.48	12.75	39.23	54.00	-14.77	Av
		High Cha	nnel (246	2 MHz)- Abov	e 1G		
Vertical	4924.068	48.85	10.39	59.24	74.00	-14.76	Pk
Vertical	4924.068	30.48	10.39	40.87	54.00	-13.13	Av
Vertical	7386.147	42.25	12.68	54.93	74.00	-19.07	Pk
Vertical	7386.147	25.89	12.68	38.57	54.00	-15.43	Av
Horizontal	4924.263	48.88	10.39	59.27	74.00	-14.73	Pk
Horizontal	4924.263	30.98	10.39	41.37	54.00	-12.63	Av
Horizontal	7386.311	45.27	12.68	57.95	74.00	-16.05	Pk
Horizontal	7386.311	26.57	12.68	39.25	54.00	-14.75	Av

Note:"802.11b" mode is the worst mode. When PK value is lower than the Average value limit, average didn't record.



4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS	

4.1.1 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. 3 kHz ≤Set the RBW≤100 kHz.
- 4. Set the VBW ≥ 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

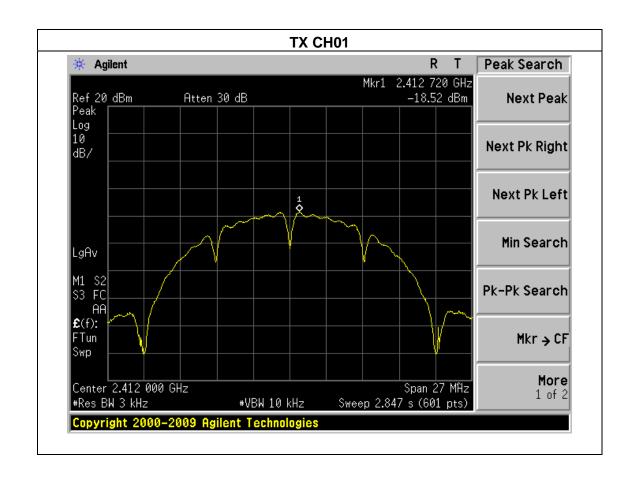


4.1.5 TEST RESULTS

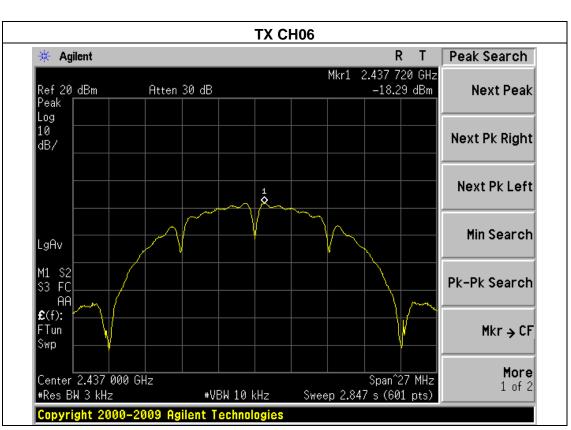
IFUI.	WiFi/Bluetooth LED Indicator Panel	Model Name :	LM 37X8
Temperature :	25 ℃	Relative Humidity:	56%
Pressure:	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b Mode /CH01, CH06, CH11		

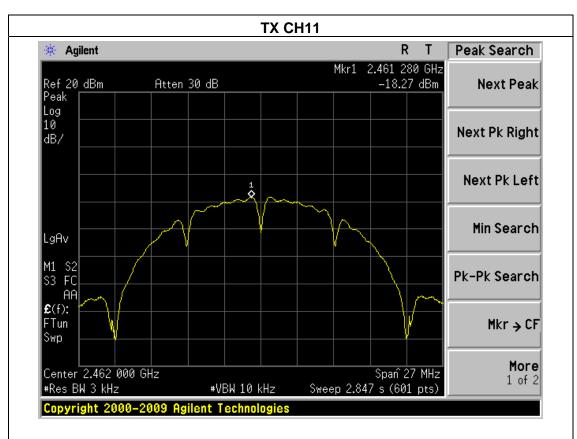
Page 33 of 61

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-18.52	8	PASS
2437 MHz	-18.29	8	PASS
2462 MHz	-18.27	8	PASS







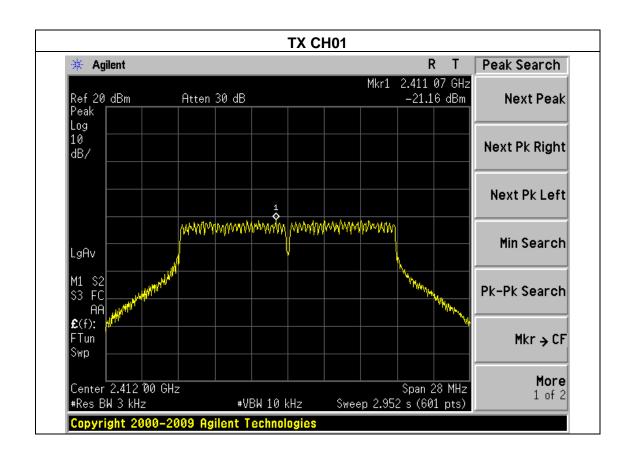


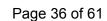


EUT:	WiFi/Bluetooth LED Indicator Panel	Model Name :	LM 37X8
Temperature :	25 ℃	Relative Humidity:	56%
Pressure:	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH11		

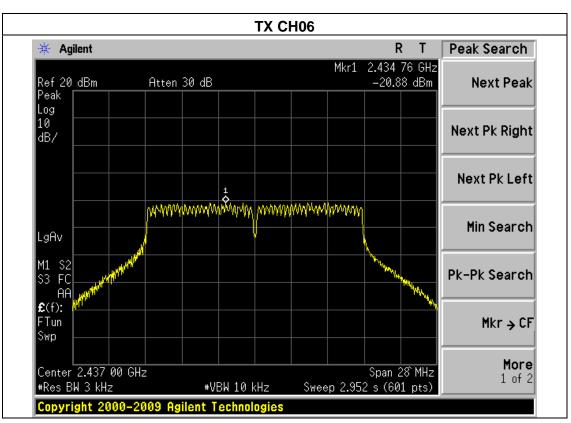
Page 35 of 61

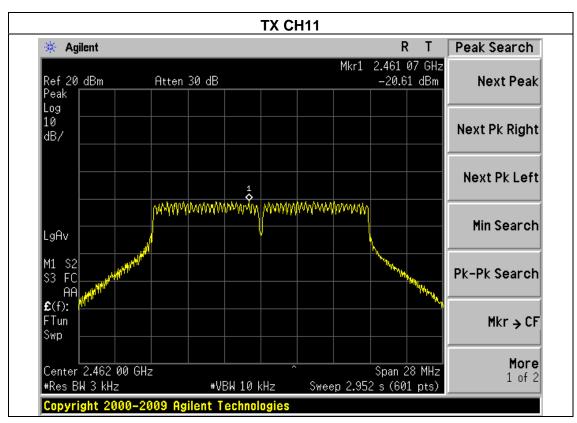
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-21.16	8	PASS
2437 MHz	-20.88	8	PASS
2462 MHz	-20.61	8	PASS









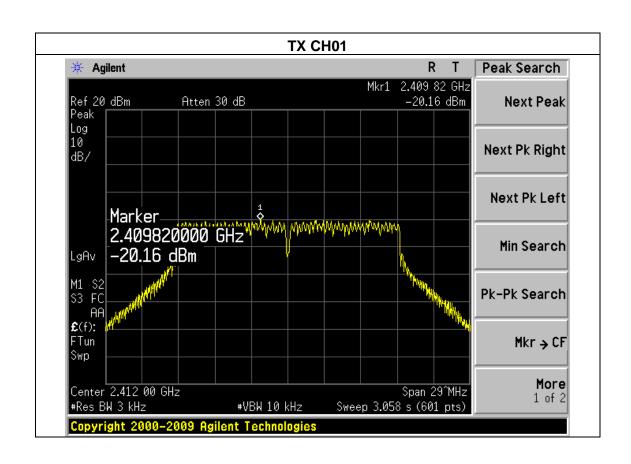


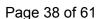


EUT:	WiFi/Bluetooth LED Indicator Panel	Model Name :	LM 37X8
Temperature :	25 ℃	Relative Humidity:	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode (20MHz)/CH01, CH06, CH11		

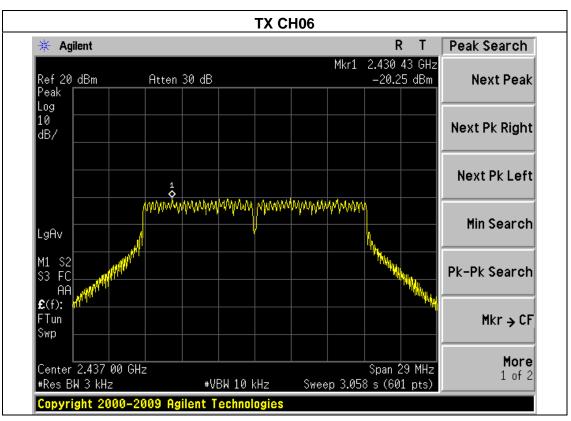
Page 37 of 61

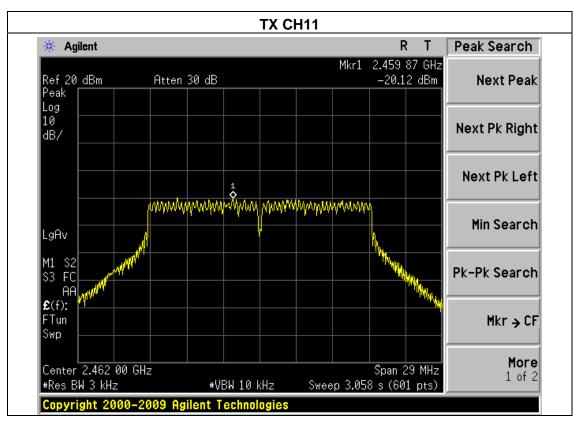
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-20.16	8	PASS
2437 MHz	-20.25	8	PASS
2462 MHz	-20.12	8	PASS







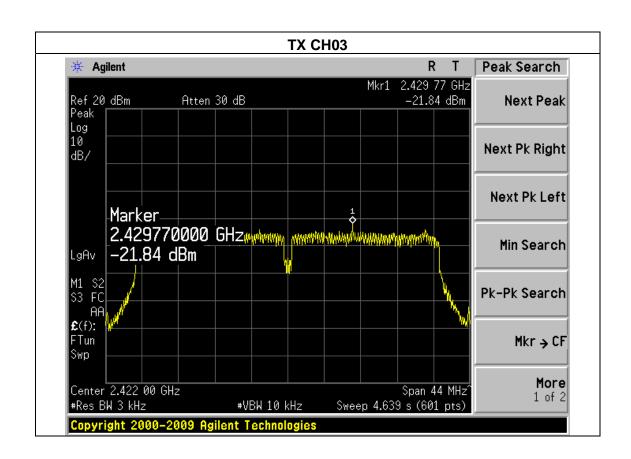




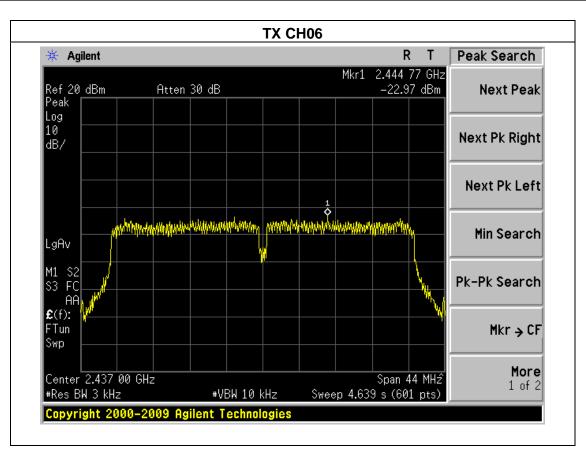


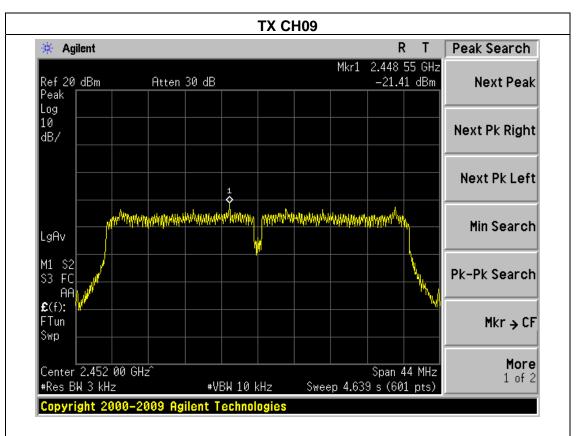
Report No.: NTEK-2015NT0528043F2

Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-21.84	8	PASS
2437 MHz	-22.97	8	PASS
2452 MHz	-21.41	8	PASS











5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS	

5.1.1 TEST PROCEDURE

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



5.1.2 EUT OPERATION CONDITIONS

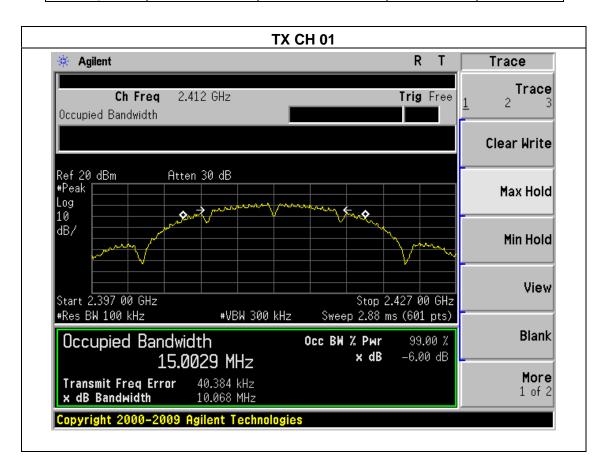
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



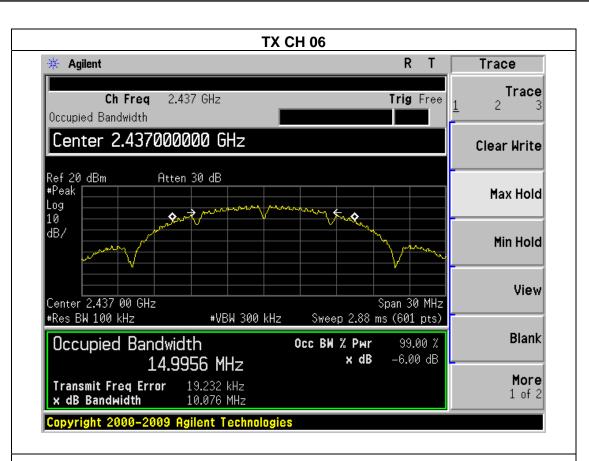
5.1.3 TEST RESULTS

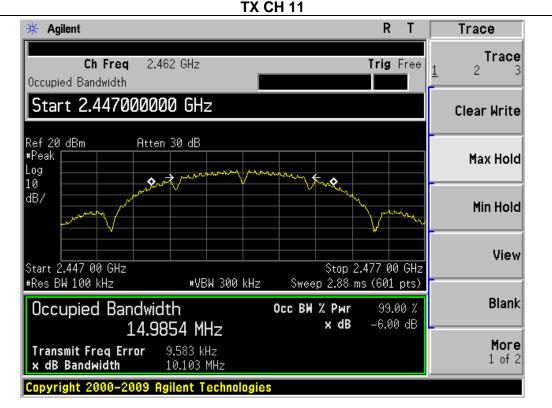
EUT:	WiFi/Bluetooth LED Indicator Panel	Model Name :	LM 37X8
Temperature:	25 ℃	Relative Humidity:	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	10.068	500	Pass
Middle	2437	10.076	500	Pass
High	2462	10.103	500	Pass





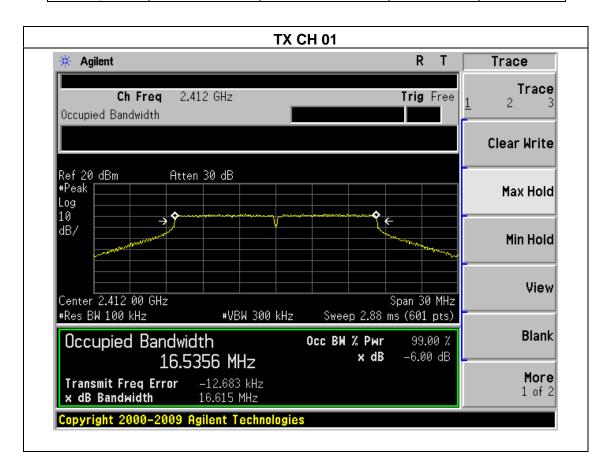


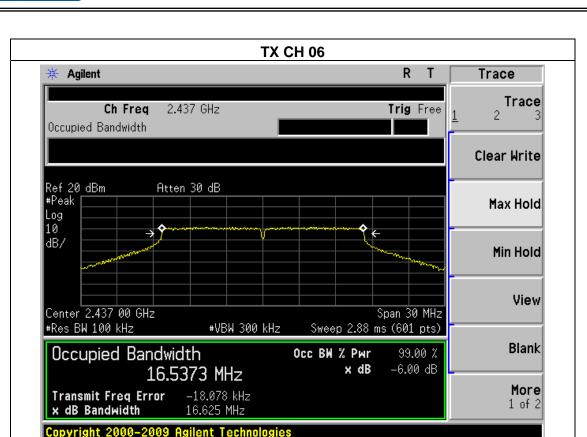


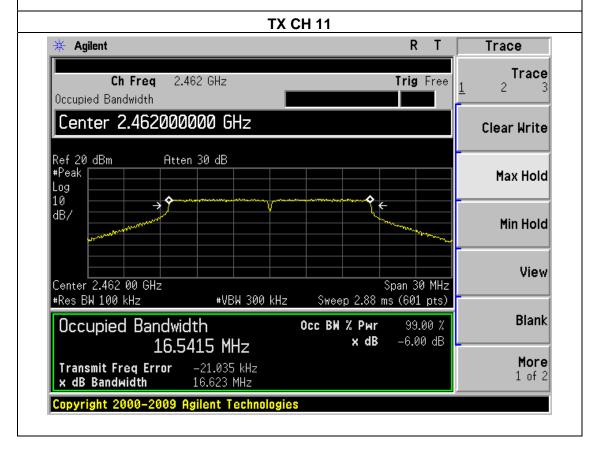


EUT:	WiFi/Bluetooth LED Indicator Panel	Model Name :	LM 37X8
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH1	1	

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.615	500	Pass
Middle	2437	16.625	500	Pass
High	2462	16.623	500	Pass





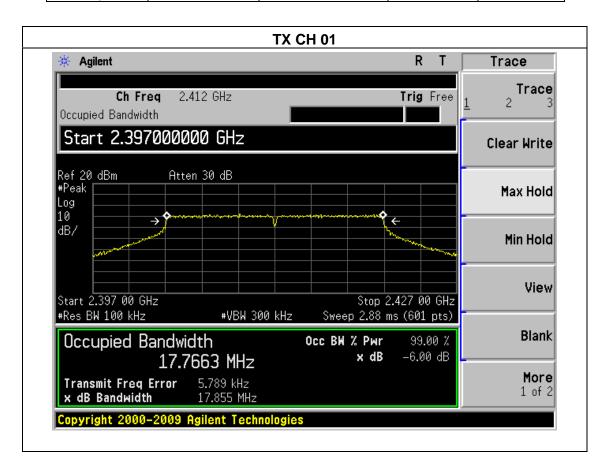


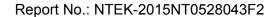


EUT:	WiFi/Bluetooth LED Indicator Panel	Model Name :	LM 37X8
Temperature :	25 ℃	Relative Humidity:	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

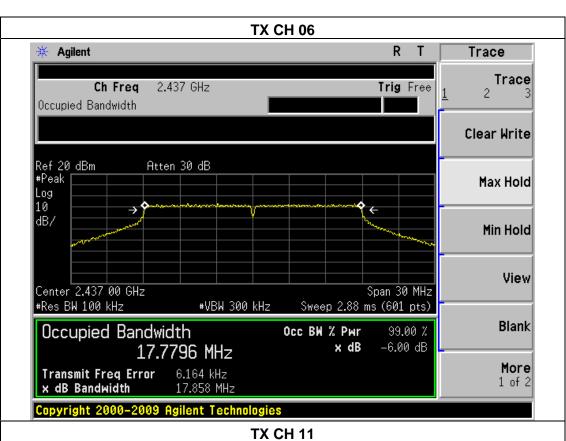
Page 46 of 61

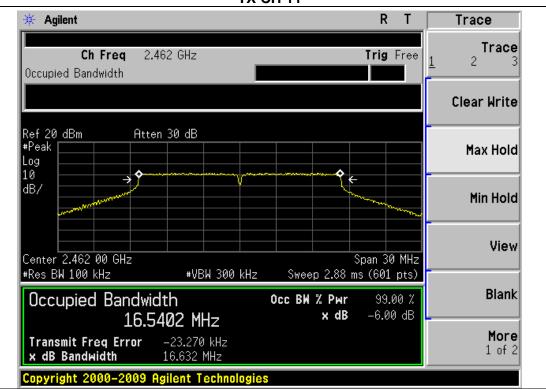
Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.855	500	Pass
Middle	2437	17.858	500	Pass
High	2462	16.632	500	Pass









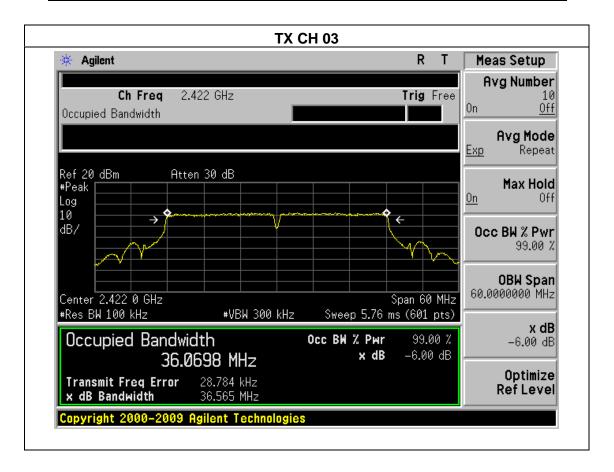




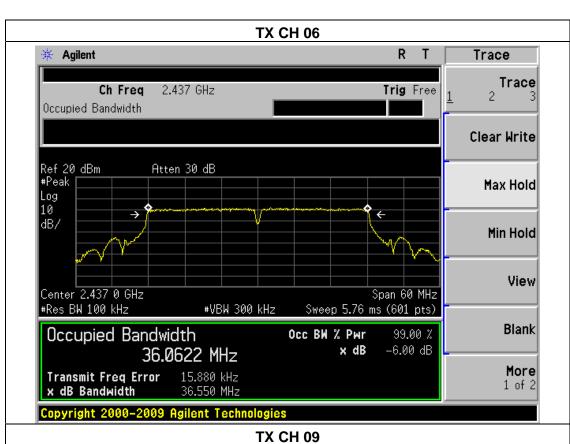
IFUI .	WiFi/Bluetooth LED Indicator Panel	Model Name :	LM 37X8
Temperature:	25 ℃	Relative Humidity:	56%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

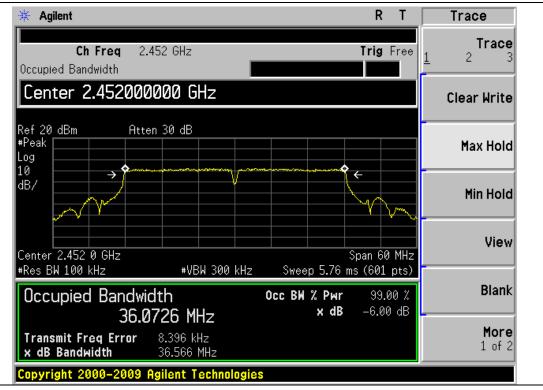
Page 48 of 61

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2422	36.565	500	Pass
Middle	2437	36.550	500	Pass
High	2452	36.566	500	Pass











6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS		

6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



6.1.5 TEST RESULTS

EUT:	WiFi/Bluetooth LED Indicator Panel	Model Name :	LM 37X8
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b/g/n(20M/40M) Mode		

TX 802.11b Mode									
Test Channe	Frequency	Maximum Peak Conducted Output Power (PK)	Maximum Peak Conducted Output Power (AV)	LIMIT					
	(MHz)	(dBm)	(dBm)	dBm					
CH01	2412	12.71	9.39	30					
CH06	2437	12.73	9.21	30					
CH11	2462	12.74	9.42	30					
TX 802.11g Mode									
CH01 2412		12.45	9.22	30					
CH06 2437 12.52		9.39	30						
CH11 2462 12.49		9.36	30						
	TX 802.11n(20) Mode								
CH01	2412	12.25	8.02	30					
CH06	2437	12.24	8.01	30					
CH11	2462	12.35	8.12	30					
TX 802.11n(40) Mode									
CH03	2422	10.85	8.62	30					
CH06	2437	10.84	8.61	30					
CH09	2452	10.81	8.58	30					



7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST PROCEDURE

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

7.1 DEVIATION FROM STANDARD

No deviation.

7.2 TEST SETUP



7.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



7.4 TEST RESULTS

IEUI •	WiFi/Bluetooth LED Indicator Panel	Model Name :	LM 37X8
Temperature :	25 ℃	Relative Humidity:	56%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V

Frequency Band Delta Peak to band MHz emission (dBc)		>Limit (dBc)	Result						
802.11b mode									
2400	36.19	20	Pass						
2483.5	61.44	20	Pass						
	802.11g mode								
2400	26.48	20	Pass						
2483.5	52.15	20	Pass						
802.11n-HT20 mode									
2400	27.42	20	Pass						
2483.5 51.43		20	Pass						
802.11n-HT40 mode									
2400	29.10	20	Pass						
2483.5	46.01	20	Pass						

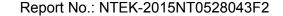


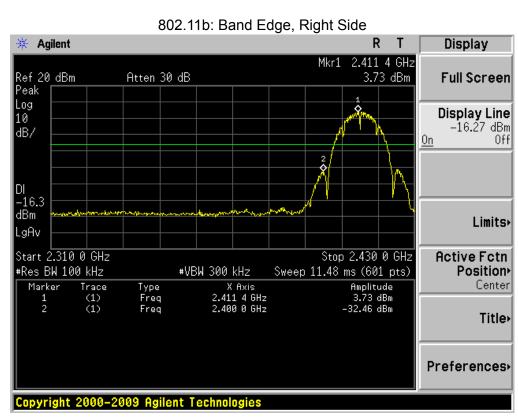
Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type			
802.11b									
2390	58.84	-13.06	45.78	74	-28.22	peak	Vertical		
2390	58.57	-13.06	45.51	74	-28.49	peak	Horizontal		
2483.5	59.76	-12.78	46.98	74	-27.02	peak	Vertical		
2483.5	59.78	-12.78	47	74	-27.00	peak	Horizontal		
			802.11g						
2390	58.42	-13.06	45.36	74	-28.64	peak	Vertical		
2390	57.69	-13.06	44.63	74	-29.37	peak	Horizontal		
2483.5	59.14	-12.78	46.36	74	-27.64	peak	Vertical		
2483.5	59.53	-12.78	46.75	74	-27.25	peak	Horizontal		
			802.11n (20)						
2390	61.09	-13.06	48.03	74	-25.97	peak	Vertical		
2390	60.87	-13.06	47.81	74	-26.19	peak	Horizontal		
2483.5	61.01	-12.78	48.23	74	-25.77	peak	Vertical		
2483.5	61.16	-12.78	48.38	74	-25.62	peak	Horizontal		
802.11n(40)									
2390	61.87	-13.06	48.81	74	-25.19	peak	Vertical		
2390	63.03	-13.06	49.97	74	-24.03	peak	Horizontal		
2483.5	61.53	-12.78	48.75	74	-25.25	peak	Vertical		
2483.5	61.47	-12.78	48.69	74	-25.31	peak	Horizontal		

Note: Test method to see chapter 3.2 . When PK value is lower than the Average value limit, average not record.



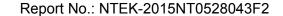


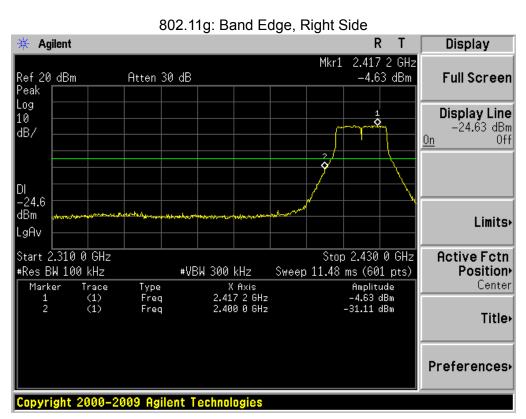


802.11b: Band Edge, Left Side

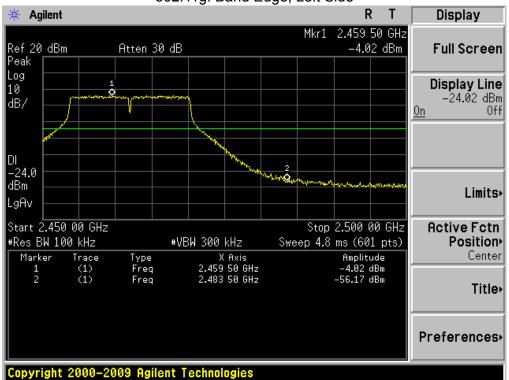


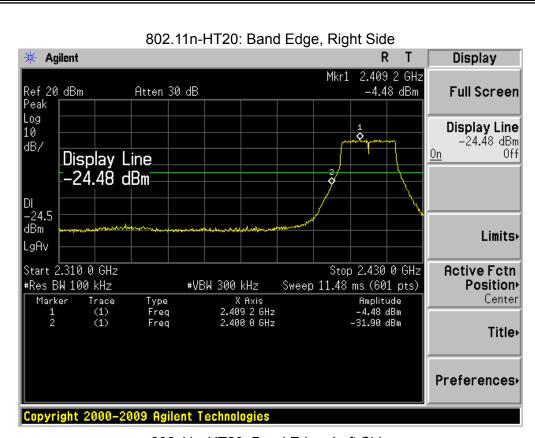






802.11g: Band Edge, Left Side

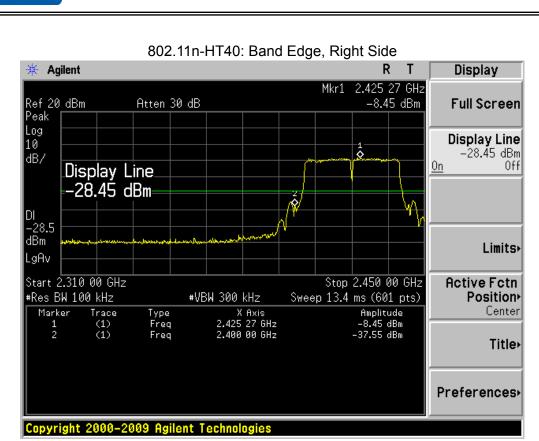




802.11n-HT20: Band Edge, Left Side Agilent Display R Mkr1 2.456 58 GHz Atten 30 dB -3.63 dBm Ref 20 dBm Full Screen Peak Log Display Line 10 -23.63 dBm dB/ <u>0n</u> Display Line -23.63 dBm DI -23.6 dBm 2 Limits LgAv Start 2.450 00 GHz Stop 2.500 00 GHz **Active Fctn** #Res BW 100 kHz #VBW 300 kHz Sweep 4.8 ms (601 pts) Position > Trace (1) (1) Type Freq X Axis 2.456 58 GHz 2.483 50 GHz Amplitude -3.63 dBm -55.06 dBm Center Marker Frea Title > Preferences | Copyright 2000-2009 Agilent Technologies

* Agilent

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Mkr1 2.454 15 GHz Select Marker -8.21 dBm Atten 30 dB Ref 20 dBm <u>1</u> 2 3 Peak Log 10 Marker Trace _1 **\Q** dB/ <u>Auto</u> 1 2 3 Readout Frequency -28.2 dBm Marker Table LgAv Start 2.430 00 GHz Stop 2.500 00 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 6.72 ms (601 pts) Marker All Off Trace (1) (1) Type Freq X Axis 2.454 15 GHz 2.483 50 GHz Marker Amplitude -8.21 dBm -54.22 dBm Frea

802.11n-HT40: Band Edge, Left Side

R

Marker

More 2 of 2



8. ANTENNA REQUIREMENT

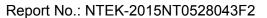
8.1 STANDARD REQUIREMENT

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

Report No.: NTEK-2015NT0528043F2

8.2 EUT ANTENNA

The EUT antenna is յ	permanent a	attached	antenna.	It comply	with	the	standard	requirement.
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9. EUT TEST PHOTO



