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Nanshan District, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM160500330701

Fax: +86 (0) 755 2671 0594 Page 1 of 37

TEST REPORT

Application No. :SZEM1605003307CRApplicant:Winspeed Co., LtdManufacturer:Winspeed Co., Ltd

Product Name: NIALA Deskset - Wireless

Model No.(EUT): SL-640304-BK-US

Add Model No.: SL-640304-XX-YY("XX" could be from "A-Z", what stands for the different product

color; "YY" could be from "A-Z", what stands for the different printing version of

keyboard)

Trade Mark: SPEEDLINK FCC ID: 2AEDNA33

Standards: 47 CFR Part 15, Subpart C (2015)

Date of Receipt: 2016-05-16

Date of Test: 2016-05-18 to 2016-05-24

Date of Issue: 2016-05-27

Test Result: PASS *

Authorized Signature:



Jack Zhang EMC Laboratory Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf.

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

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^{*} In the configuration tested, the EUT detailed in this report complied with the standards specified above.



Report No.: SZEM160500330701

Page: 2 of 37

2 Version

Revision Record							
Version	Chapter	Date	Modifier	Remark			
00		2016-05-27		Original			

Authorized for issue by:		
Tested By	Gebin Sun	2016-05-24
	(Gebin Sun) /Project Engineer	Date
Prepared By	Joyce Shi	2016-05-27
	(Joyce Shi) /Clerk	Date
Checked By	Eric Fu	2016-05-27
	(Eric Fu) /Reviewer	Date

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Report No.: SZEM160500330701

Page: 3 of 37

3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 (2013)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 (2013)	PASS
Field Strength of the Fundamental Signal			PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section 15.249 (a)/15.209	ANSI C63.10 (2013)	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.249(a)/15.205	ANSI C63.10 (2013)	PASS
20dB Occupied 47 CFR Part 15, Subpart C Section 15.215 (c)		ANSI C63.10 (2013)	PASS



Report No.: SZEM160500330701

Page: 4 of 37

4 Contents

			Page
1	CO	/ER PAGE	1
2	VER	RSION	2
		T SUMMARY	
3			
4	CON	NTENTS	4
5	GEN	NERAL INFORMATION	5
5	.1	CLIENT INFORMATION	5
_	.2	GENERAL DESCRIPTION OF EUT.	
5	.3	TEST ENVIRONMENT AND MODE	
5	.4	DESCRIPTION OF SUPPORT UNITS	7
5	.5	TEST LOCATION	
5	.6	TEST FACILITY	
•	.7	DEVIATION FROM STANDARDS	
_	.8	ABNORMALITIES FROM STANDARD CONDITIONS	
_	.9	OTHER INFORMATION REQUESTED BY THE CUSTOMER	
5	.10	EQUIPMENT LIST	9
6	TES	T RESULTS AND MEASUREMENT DATA	12
6	.1	ANTENNA REQUIREMENT	12
_	.2	CONDUCTED EMISSIONS	
6	.3	Spurious Emissions	17
6	.4	RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	25
6	.5	20dB Bandwidth	31
7	PHC	DTOGRAPHS	34
7	.1	CONDUCTED EMISSION TEST SETUP	34
7	.2	RADIATED EMISSION TEST SETUP	
7	.3	RADIATED Spurious Emission Test Setup	35
7	4	EUT CONSTRUCTIONAL DETAILS	36-37

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Report No.: SZEM160500330701

Page: 5 of 37

5 General Information

5.1 Client Information

Applicant:	Winspeed Co., Ltd
Address of Applicant:	14F-1, No.2 Jian-Ba Rd., Chung-Ho District, New Taipei, Taiwan
Manufacturer:	Winspeed Co., Ltd
Address of Manufacturer:	14F-1, No.2 Jian-Ba Rd., Chung-Ho District, New Taipei, Taiwan

5.2 General Description of EUT

Name:	NIALA Deskset - Wireless
Model No.:	SL-640304-BK-US
Trade Mark :	SPEEDLINK
RF Function (Frequency):	2.4GHz(2408 MHz-2474 MHz)
Modulation Type:	GFSK
Sample Type:	Portable production
Antenna Type:	Integral
Antenna Gain:	0dBi
EUT power supply:	Supplied by PC

Remark:

Model No.: SL-640304-XX-YY("XX" could be from "A-Z", what stands for the different product color; "YY" could be from "A-Z", what stands for the different printing version of keyboard)

Only the model SL-640304-BK-US was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, only different on product color and printing version of keyboard.



Report No.: SZEM160500330701

Page: 6 of 37

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency		
1CH	2408 MHz	12CH	2430 MHz	23CH	2454 MHz		
2CH	2410 MHz	13CH	2432 MHz	24CH	2456 MHz		
3CH	2412 MHz	14CH	2434 MHz	25CH	2458 MHz		
4CH	2414 MHz	15CH	2436 MHz	26CH	2460 MHz		
5CH	2416 MHz	16CH	2438 MHz	27CH	2462 MHz		
6CH	2418 MHz	17CH	2440 MHz	28CH	2464 MHz		
7CH	2420 MHz	18CH	2444 MHz	29CH	2466 MHz		
8CH	2422 MHz	19CH	2446 MHz	30CH	2468 MHz		
9CH	2424 MHz	20CH	2448 MHz	31CH	2470 MHz		
10CH	2426 MHz	21CH	2450 MHz	32CH	2472 MHz		
11CH	2428 MHz	22CH	2452 MHz	33CH	2474 MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below.

Channel	Frequency
The Lowest channel(CH1)	2408MHz
The Middle channel(CH17)	2440MHz
The Highest channel(CH33)	2474MHz



Report No.: SZEM160500330701

Page: 7 of 37

5.3 Test Environment and Mode

Operating Environment:	Operating Environment:				
Temperature:	25.0 °C				
Humidity:	55 % RH				
Atmospheric Pressure:	1015 mbar				
Test mode:					
Transmitting mode:	Keep the EUT in transmitting mode with modulation.				

5.4 Description of Support Units

The EUT has been tested independently.

5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



Report No.: SZEM160500330701

Page: 8 of 37

5.6 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

• FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



Report No.: SZEM160500330701

Page: 9 of 37

5.10 Equipment List

	Conducted Emiss	sion				
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2016-05-13	2017-05-13
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2015-10-09	2016-10-09
3	LISN	ETS- LINDGREN	3816/2	SEM007-02	2016-04-25	2017-04-25
4	8 Line ISN	Fischer Custom Communication s Inc.	FCC- TLISN-T8- 02	EMC0120	2015-08-30	2016-08-30
5	4 Line ISN	Fischer Custom Communication s Inc.	FCC- TLISN-T4- 02	EMC0121	2015-08-30	2016-08-30
6	2 Line ISN	Fischer Custom Communication s Inc.	FCC- TLISN-T2- 02	EMC0122	2015-08-30	2016-08-30
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2016-04-25	2017-04-25
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2015-10-09	2016-10-09



Report No.: SZEM160500330701

Page: 10 of 37

	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS- LINDGREN	N/A	SEM001-01	2016-05-13	2017-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2015-09-16	2016-09-16
3	BiConiLog Antenna (26-3000MHz)	ETS- LINDGREN	3142C	SEM003-01	2014-11-01	2017-11-01
4	Double-ridged horn (1-18GHz)	ETS- LINDGREN	3117	SEM003-11	2015-10-17	2018-10-17
5	Horn Antenna (18-26GHz)	ETS- LINDGREN	3160	SEM003-12	2014-11-24	2017-11-24
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2016-04-25	2017-04-25
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2015-10-09	2016-10-09
9	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2015-05-13	2018-05-13

	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2016-05-13	2017-05-13
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEM004-04	2016-04-25	2017-04-25
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2015-10-09	2016-10-09
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
6	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2015-10-09	2016-10-09
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A



Report No.: SZEM160500330701

Page: 11 of 37

	RF connected test					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
	4. 1			, ,	(yyyy-mm-dd)	(yyyy-mm-dd)
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2015-10-09	2016-10-09
0	Crantum Analysas	Rohde &	רכם	CEM004.00	0015 10 17	0010 10 17
2	Spectrum Analyzer	Schwarz	FSP	SEM004-06	2015-10-17	2016-10-17
0	Cianal Canauatau	Rohde &	CM 00	CEMOOC OO	2016-04-25	0017.04.05
3	Signal Generator	Schwarz	SML03	SEM006-02	2016-04-25	2017-04-25
	Power Meter	Rohde &	NRVS	SEM014-02	2015-10-09	2016 10 00
4	rower weter	Schwarz	INUAS	3EIVIU14-U2	2015-10-09	2016-10-09



Report No.: SZEM160500330701

Page: 12 of 37

6 Test results and Measurement Data

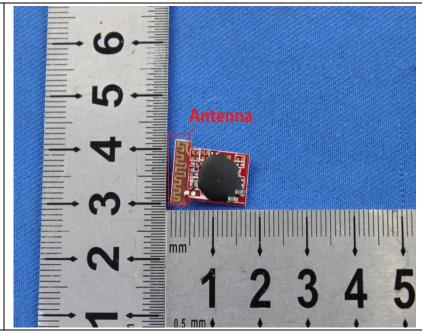
6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203

15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:



The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.



Report No.: SZEM160500330701

Page: 13 of 37

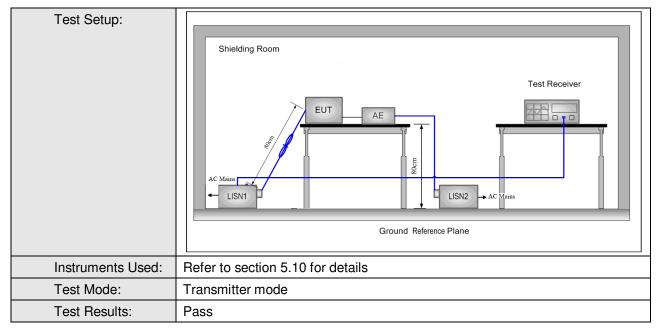
6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150KHz to 30MHz						
Limit:	Francisco (MIII)	Limit (dBuV)					
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarith	nm of the frequency.	_				
Test Procedure:	 The mains terminal disturble shielded room. The EUT was connected Impedance Stabilization linear impedance. The power connected to a second ground reference plane in being measured. A multiple power cables to LISN was not exceeded. The tabletop EUT was plathe ground reference plate EUT was placed on the harmonic of the EUT shall be plane. The vertical ground horizontal ground reference plane. The vertical ground horizontal ground reference plane for LISN plane. This distance was and the EUT. All other unwas at least 0.8 m from to lin order to find the maxing equipment and all of the according to ANSI C63.1 	to AC power source the Network) which provide ower cables of all other and LISN 2, which was in the same way as the pole socket outlet strip was a single LISN provided acced upon a non-metal near And for floor-standinorizontal ground reference plane was not plane. The LISN 1 unit under test and both sometiment of the EUT and assimilated to the relationship of the EUT and assimilated to the relationship of the relat	arough a LISN 1 (Line es a 50Ω/50μH + 5Ω r units of the EUT shonded to the LISN 1 for the unit was used to connect the the rating of the llic table 0.8m above ing arrangement, the ence plane, eference plane. The ground reference bonded to the was placed 0.8 m anded to a ground e ground reference oints of the LISN 1 sociated equipment tive positions of the changed				



Report No.: SZEM160500330701

Page: 14 of 37





Report No.: SZEM160500330701

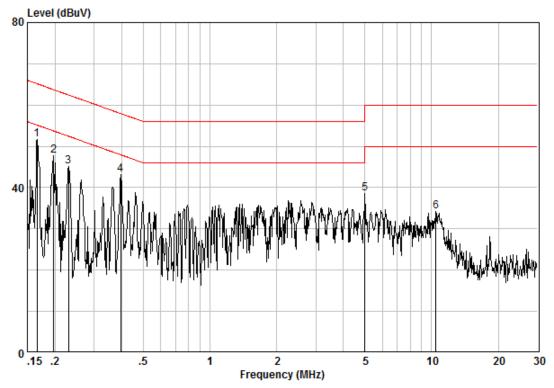
Page: 15 of 37

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Site : Shielding Room Condition : CE LINE Job.No : 3307CR Test Mode : TX

	Freq		LISN Factor			Limit Line		Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 @	0.16589	0.02	9.82	41.73	51.57	55.16	-3.59	Peak
2	0.19758	0.02	9.83	37.84	47.69	53.71	-6.02	Peak
3	0.23040	0.02	9.83	35.16	45.02	52.44	-7.42	Peak
4	0.39553	0.01	9.85	33.32	43.18	47.95	-4.77	Peak
5	5.005	0.01	10.12	28.38	38.51	50.00	-11.49	Peak
6	10.452	0.01	10.15	24.06	34.22	50.00	-15.78	Peak

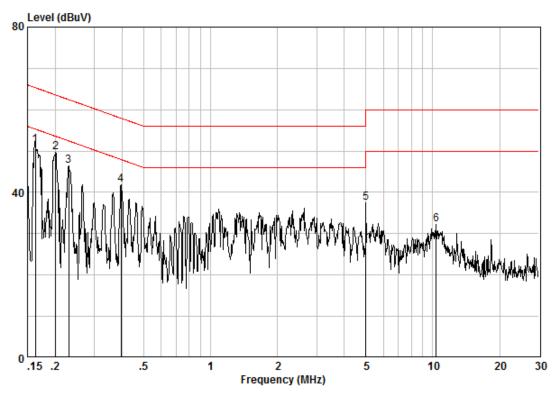
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Report No.: SZEM160500330701

Page: 16 of 37

Neutral Line:



Site : Shielding Room Condition : CE NEUTRAL Job.No : 3307CR Test Mode : TX

	Freq		LISN Factor				Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 @	0.16241	0.02	9.80	41.65	51.47	55.34	-3.87	Peak
2 @	0.20075	0.02	9.85	39.84	49.71	53.58	-3.87	Peak
3	0.23040	0.02	9.85	36.64	46.51	52.44	-5.92	Peak
4	0.39553	0.01	9.87	31.97	41.85	47.95	-6.10	Peak
5	5.005	0.01	10.13	27.28	37.42	50.00	-12.58	Peak
6	10.342	0.01	10.14	22.05	32.20	50.00	-17.80	Peak

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



Report No.: SZEM160500330701

Page: 17 of 37

6.3 Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.249 and 15.209											
Test Method:	ANSI C63.10: 2013	/11 I	J.2 → J ANA 13.20									
Test Site:	Measurement Distance:	3m	(Semi-Anechoi	c Chamber	.)							
Receiver Setup:	Frequency		Detector	RBW		VBW	F	Remark				
	0.009MHz-0.090MHz	<u>,</u>	Peak	10kHz		30KHz		Peak				
	0.009MHz-0.090MHz	<u>, </u>	Average	10kHz		30KHz	A	verage				
	0.090MHz-0.110MHz	<u>'</u>	Quasi-peak	10kHz		30KHz	Qι	asi-peak				
	0.110MHz-0.490MHz	<u>.</u>	Peak	10kHz		30KHz		Peak				
	0.110MHz-0.490MHz	<u>'</u>	Average	10kHz		30KHz	Д	verage				
	0.490MHz -30MHz		Quasi-peak	10kHz		30kHz	Qι	asi-peak				
	30MHz-1GHz		Quasi-peak	100 kHz		300KHz	Qι	asi-peak				
	Above 1GHz		Peak	1MHz		3MHz		Peak				
	7,0000 10112		Peak	1MHz		10Hz		verage				
Limit: (Spurious Emissions)	Frequency	Frequency Fiel (micr		Limit (dBuV/m)		Remark		Measurement distance (m)				
	0.009MHz-0.490MHz	2	2400/F (kHz)	-		-		300				
	0.490MHz-1.705MHz	2	4000/F (kHz)	-		-		30				
	1.705MHz-30MHz		30	-		-		30				
	30MHz-88MHz		100	40.	0.	Quasi-pea	k	3				
	88MHz-216MHz		150	43.	.5	Quasi-peak		3				
	216MHz-960MHz		200	46.	0.	Quasi-pea	k	3				
	960MHz-1GHz		500	54.	0.	Quasi-pea	k	3				
	Above 1GHz		500	54.	0.	Average		3				
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency is 20dB above the maximum permitted average emission limit applica equipment under test. This peak limit applies to the total peak emis radiated by the device.												
Limit:	Frequency		Limit (dBuV/	m @3m)		Remark						
(Field strength of the	2400MHz-2483.5MH	94.0			Average Val							
fundamental signal)	2400WII 12-2403.3WIT	۷	114.0	0		Peak Value	е					

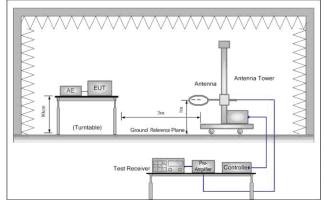
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Report No.: SZEM160500330701

Page: 18 of 37

Test Setup:



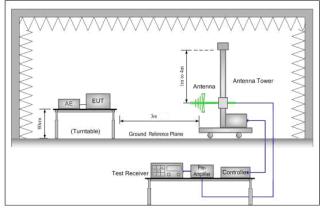


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

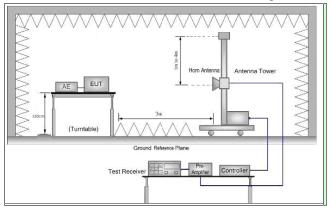


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be



Report No.: SZEM160500330701

Page: 19 of 37

	re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel, the middle channel, the Highest channel The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting mode,
Final Test Mode:	Pretest the EUT at Transmitting mode, found the Transmitting mode which it is worse case Only the worst case is recorded in the report.
Test Results:	Pass



Report No.: SZEM160500330701

Page: 20 of 37

Measurement Data

6.3.1.1 Field Strength Of The Fundamental Signal

Peak value:

Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2407.523	28.64	5.35	38.11	93.47	89.35	114	-24.65	Horizontal
2407.523	28.64	5.35	38.11	87.34	83.22	114	-30.78	Vertical
2440.518	28.79	5.38	38.11	92.95	89.01	114	-24.99	Horizontal
2440.518	28.79	5.38	38.11	86.97	83.03	114	-30.97	Vertical
2474.507	28.94	5.4	38.12	93.74	89.96	114	-24.04	Horizontal
2473.432	28.94	5.4	38.12	86	82.22	114	-31.78	Vertical

Remark:

The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

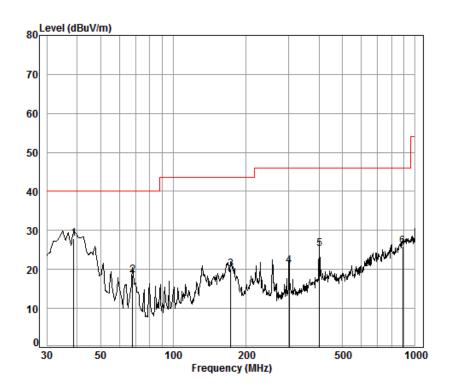


Report No.: SZEM160500330701

Page: 21 of 37

6.3.1.2 Spurious Emissions

30MHz~1GHz		
Test mode:	Transmitting mode	Vertical



Condition: 3m Vertical

Job No. : 3307CR Test mode: TX mode

	Cable	Ant	Preamp	Read		Limit	0ver
Freq	Loss	Factor	Factor	Level	Level	Line	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
38.75	0.60	16.62	25.98	36.66	27.90	40.00	-12.10
67.91	0.80	5.05	25.93	38.59	18.51	40.00	-21.49
172.60	1.36	9.10	25.80	35.43	20.09	43.50	-23.41
301.42	1.90	11.27	25.70	33.44	20.91	46.00	-25.09
401.84	2.21	12.47	25.66	36.28	25.30	46.00	-20.70
887.61	3.55	21.28	25.15	26.18	25.86	46.00	-20.14
	38.75 67.91 172.60 301.42 401.84	Freq Loss MHz dB 38.75 0.60 67.91 0.80 172.60 1.36 301.42 1.90 401.84 2.21	Freq Loss Factor MHz dB dB/m 38.75 0.60 16.62 67.91 0.80 5.05 172.60 1.36 9.10 301.42 1.90 11.27 401.84 2.21 12.47	Freq Loss Factor Factor MHz dB dB/m dB 38.75 0.60 16.62 25.98 67.91 0.80 5.05 25.93 172.60 1.36 9.10 25.80 301.42 1.90 11.27 25.70 401.84 2.21 12.47 25.66	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 38.75 0.60 16.62 25.98 36.66 67.91 0.80 5.05 25.93 38.59 172.60 1.36 9.10 25.80 35.43 301.42 1.90 11.27 25.70 33.44 401.84 2.21 12.47 25.66 36.28	Freq Loss Factor Factor Level Level Level MHz dB dB/m dB dBuV dBuV/m 38.75 0.60 16.62 25.98 36.66 27.90 67.91 0.80 5.05 25.93 38.59 18.51 172.60 1.36 9.10 25.80 35.43 20.09 301.42 1.90 11.27 25.70 33.44 20.91 401.84 2.21 12.47 25.66 36.28 25.30	38.75

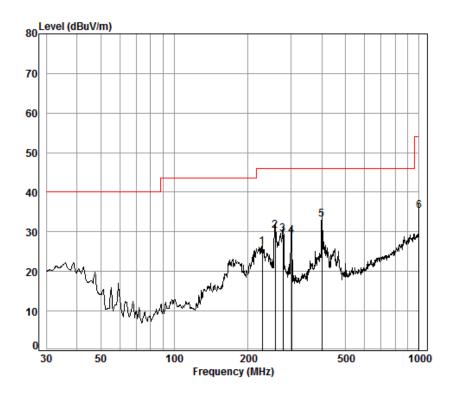
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Report No.: SZEM160500330701

Page: 22 of 37

Test mode: Transmitting mode Horizontal



Condition: 3m Horizontal

Job No. : 3307CR Test mode: TX mode

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	228.49	1.56	7.73	25.75	42.62	26.16	46.00	-19.84
2	258.33	1.71	9.37	25.73	45.02	30.37	46.00	-15.63
3	278.07	1.81	10.05	25.71	43.28	29.43	46.00	-16.57
4	301.42	1.90	11.27	25.70	41.54	29.01	46.00	-16.99
5 pp	400.43	2.20	12.34	25.66	44.23	33.11	46.00	-12.89
6	1000.00	3.70	22.30	24.40	33.82	35.42	54.00	-18.58

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Report No.: SZEM160500330701

Page: 23 of 37

Above 1GH	Z										
Test mode:		Trans	mitting	Test char	nnel:	Low	vest	Remark:		Pea	ak
Frequency (MHz)	Fa	enna ctor 3/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV		Level (dBuV/m)	Limit Line (dBuV/m)	Ove Lim (dE	nit	Polarization
3814.467	32	2.91	7.75	38.49	45.58	}	47.75	74	-26.	25	Vertical
4816.000	34	.12	8.88	38.75	44.01		48.26	74	-25.	74	Vertical
6639.063	35	5.18	10.12	38.15	44.30)	51.45	74	-22.	55	Vertical
7224.000	35	5.59	10.69	37.63	40.26	;	48.91	74 -2		09	Vertical
9632.000	37	'.10	12.51	36.31	33.81		47.11 74		-26.	89	Vertical
12676.420	37	'.94	14.65	37.82	37.89)	52.66	74	-21.34		Vertical
3792.453	32	2.87	7.74	38.48	45.91		48.04	74	-25.	96	Horizontal
4816.000	34	.12	8.88	38.75	44.91		49.16	74	-24.	84	Horizontal
6157.871	34	.78	10.36	38.75	45.62		52.01	74	-21.	99	Horizontal
7224.000	35	5.59	10.69	37.63	39.60)	48.25	74	-25.	75	Horizontal
9632.000	37	'.10	12.51	36.31	33.60		46.90	74	-27.	10	Horizontal
12603.270	37	'.90	14.44	37.75	36.96	;	51.55	74	-22.	45	Vertical

Test mode:	Test mode:		mitting	Test char	Test channel:		iddle	Remark:		Peak	
Frequency (MHz)	Fa	enna .ctor 3/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV		Level (dBuV/m)	Limit Line (dBuV/m)	Ov Lim (dE	nit	Polarization
3825.521	32	2.93	7.75	38.49	46.30		48.49	74	-25.	51	Vertical
4880.000	34	l.18	8.97	38.76	45.97	,	50.36	74	-23.	64	Vertical
6639.063	35	5.18	10.12	38.15	45.40)	52.55	74	-21.	45	Vertical
7320.000	35	5.54	10.72	37.59	41.87	,	50.54	74	-23.	46	Vertical
9760.000	37	'.10	12.58	36.14	38.89)	52.43	74	-21.	57	Vertical
12530.530	37	'.83	14.24	37.68	38.11		52.50	74	-21.	50	Vertical
3803.444	32	2.90	7.74	38.49	44.75	j	46.90	74	-27.	10	Horizontal
4880.000	34	l.18	8.97	38.76	44.15		48.54	74	-25.	46	Horizontal
6140.076	34	1.77	10.38	38.78	45.94		52.31	74	-21.	69	Horizontal
7320.000	35	5.54	10.72	37.59	41.28	;	49.95	74	-24.	05	Horizontal
9760.000	37	'.10	12.58	36.14	38.94		52.48	74	-21.	52	Horizontal
12676.420	37	'.94	14.65	37.82	37.45)	52.22	74	-21.	78	Horizontal

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Report No.: SZEM160500330701

Page: 24 of 37

Test mode:	Transm	nitting	Test char	nnel:	Highest	Remark:	Р	eak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3881.276	32.98	7.77	38.52	46.14	48.37	74	-25.63	Vertical
4948.000	34.25	9.07	38.78	47.39	51.93	74	-22.07	Vertical
6658.303	35.17	10.15	38.13	45.25	52.44	74	-21.56	Vertical
7424.000	35.56	10.76	37.55	39.47	48.24	74	-25.76	Vertical
9896.000	37.20	12.65	35.96	37.34	51.23	74	-22.77	Vertical
11757.650	37.50	14.30	36.94	37.50	52.36	74	-21.64	Vertical
3803.444	32.90	7.74	38.49	45.24	47.39	74	-26.61	Horizontal
4948.000	34.25	9.07	38.78	46.90	51.44	74	-22.56	Horizontal
6619.878	35.19	10.10	38.18	45.00	52.11	74	-21.89	Horizontal
7424.000	35.56	10.76	37.55	37.91	46.68	74	-27.32	Horizontal
9896.000	37.20	12.65	35.96	39.10	52.99	74	-21.01	Horizontal
12603.270	37.90	14.44	37.75	38.15	52.74	74	-21.26	Horizontal

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

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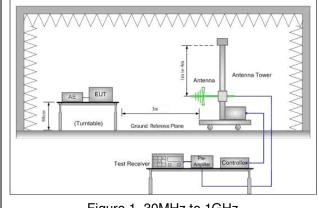
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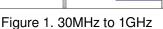
25 of 37 Page:

6.4 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10: 2013	ANSI C63.10: 2013							
Test site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Limit(band edge):	harmonics, shall be attenuate fundamental or to the gener	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.							
	Frequency Limit (dBuV/m @3m) Remark								
	30MHz-88MHz	Quasi-peak Value							
	88MHz-216MHz 43.5 Quasi-pe 216MHz-960MHz 46.0 Quasi-pe								
	960MHz-1GHz 54.0 Quasi-peak V								
	Above 10Uz	54.0	Average Value						
	Above 1GHz 74.0 Peak V								
Toot Cotup:		•	•						







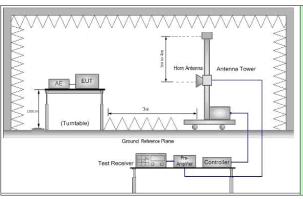


Figure 2. Above 1 GHz

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Report No.: SZEM160500330701

Page: 26 of 37

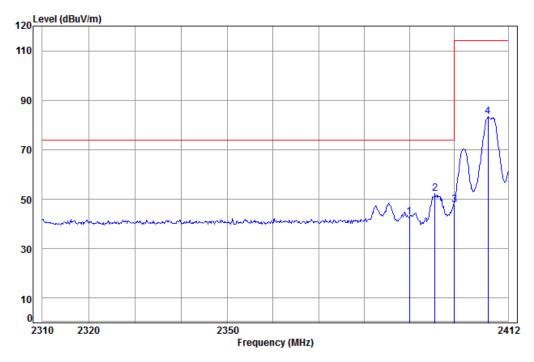
Test Procedure:	 a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. Repeat above procedures until all frequencies measured was complete.
Instruments Used:	Refer to section 5.10 for details
Test Mode:	Transmitting with GFSK modulation.
	Transmitting mode
Test Results:	Pass



Report No.: SZEM160500330701

Page: 27 of 37

Band edge (Radiated Emission)								
Worse case mode:	Transmitting	Test channel:	Lowest	Remark:	Peak	Vertical		



Condition: 3m VERTICAL Job No: : 3307CR

Mode: : 2408 Band edge

: D

	F			Preamp				
	Freq	LOSS	Factor	Factor	rever	revel	Line	Limit
	MHz			dB		dBuV/m	dBuV/m	
	11112	ub	ub/III	ub	ubuv	ubuv/III	ubuv/III	ub
1	2390.00	5.34	28.57	38.11	47.03	42.83	74.00	-31.17
2 pp	2395.69	5.34	28.59	38.11	56.42	52.24	74.00	-21.76
3	2400.00	5.34	28.60	38.11	51.96	47.79	74.00	-26.21
4	2407.52	5.35	28.64	38.11	87.34	83.22	114.00	-30.78

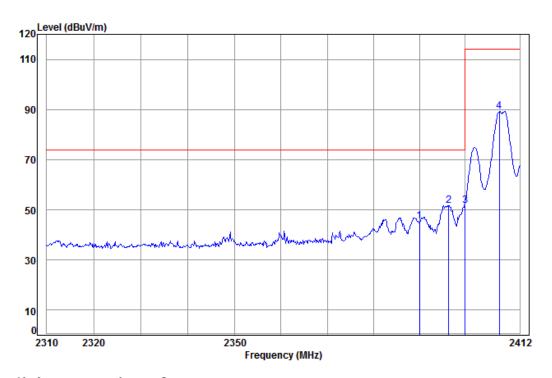
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Report No.: SZEM160500330701

Page: 28 of 37

Worse case mode: Transmitting Test channel: Lowest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 3307CR

Mode: : 2408 Band edge

: D

0ver	Limit		Read	Preamp	Ant	Cable		
Limit	Line	Level	Level	Factor	Factor	Loss	Freq	
dB	dBuV/m	dBuV/m	dBuV	dB	dB/m	dB	MHz	-
-28.68	74.00	45.32	49.52	38.11	28.57	5.34	2390.00	1
-22.34	74.00	51.66	55.84	38.11	28.59	5.34	2396.42	2
-22.24	74.00	51.76	55.93	38.11	28.60	5.34	2400.00	3 рр
-24.65	114.00	89.35	93.47	38.11	28.64	5.35	2407.52	4

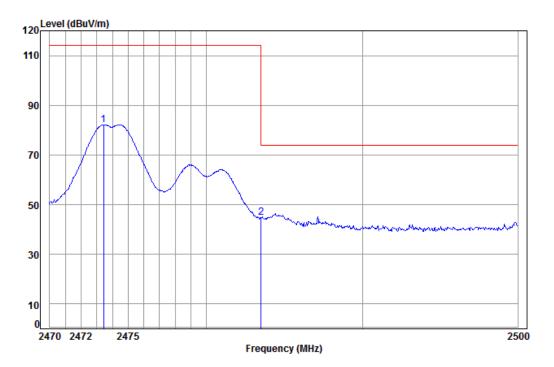
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Report No.: SZEM160500330701

Page: 29 of 37

Worse case mode: Transmitting Test channel: Highest Remark: Peak Vertical



Condition: 3m VERTICAL Job No: : 3307CR

Mode: : 2474 Band edge

: D

Ant Preamp Cable Read Limit 0ver Frea Loss Factor Factor Level Level Line Limit dB dB/m dBuV dBuV/m dBuV/m 2473.43 5.40 28.94 38.12 86.00 82.22 114.00 -31.78 38.12 48.44 44.71 74.00 -29.29 2483.50 5.41 28.98

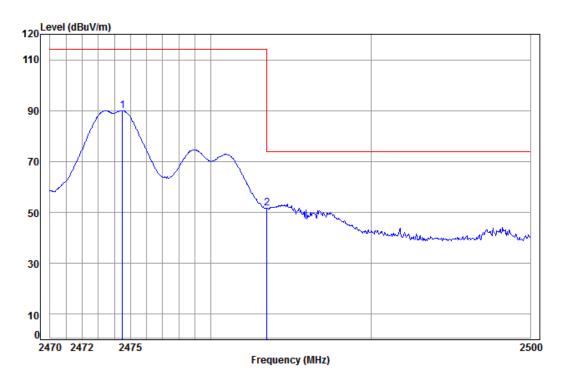
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Report No.: SZEM160500330701

Page: 30 of 37

Worse case mode: Transmitting Test channel: Highest Remark: Peak Horizontal



Condition: 3m HORIZONTAL

Job No: : 3307CR

Mode: : 2474 Band edge

: D

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
рр	2474.51 2483.50							

Note:

1

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

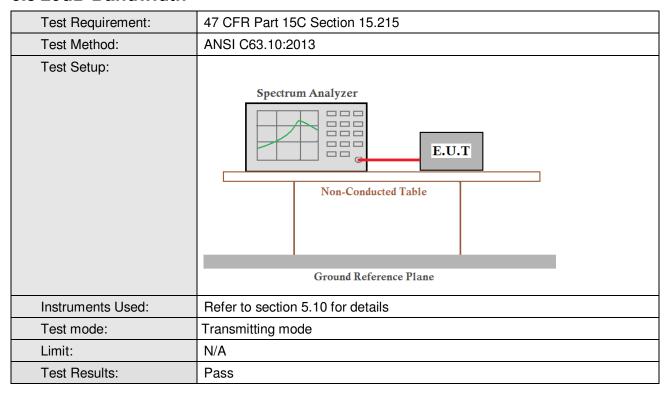
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor



Report No.: SZEM160500330701

Page: 31 of 37

6.5 20dB Bandwidth



Measurement Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	2.13	Pass
Middle	2.13	Pass
Highest	2.15	Pass

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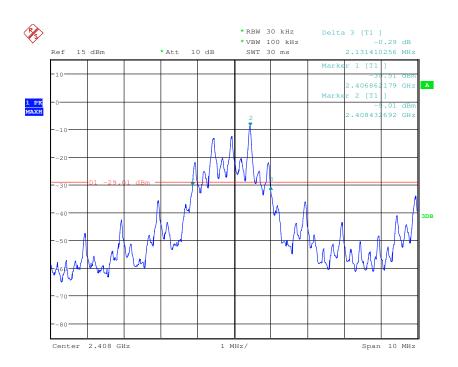


Report No.: SZEM160500330701

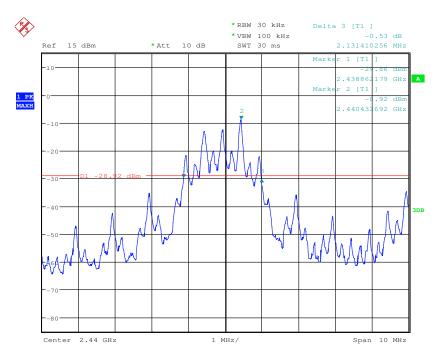
Page: 32 of 37

Test plot as follows:

Test channel: Lowest





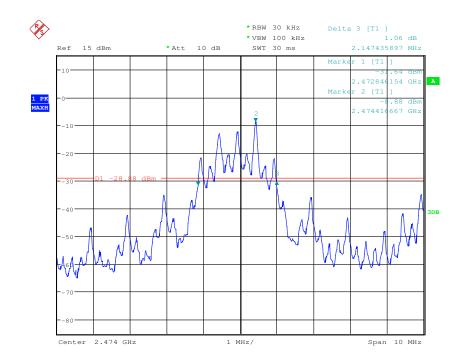




Report No.: SZEM160500330701

Page: 33 of 37

Test channel: Highest



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Report No.: SZEM160500330701

Page: 34 of 37

7 Photographs

Test Model No.: SL-640304-BK-US

7.1 Conducted Emission Test Setup



7.2 Radiated Emission Test Setup

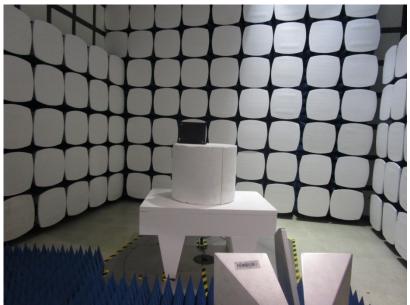




Report No.: SZEM160500330701

Page: 35 of 37

7.3 Radiated Spurious Emission Test Setup

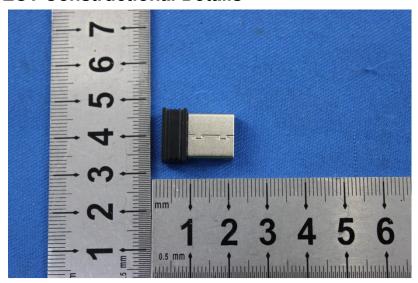


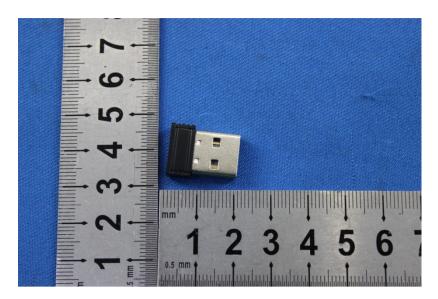


Report No.: SZEM160500330701

Page: 36 of 37

7.4 EUT Constructional Details







Report No.: SZEM160500330701

Page: 37 of 37

