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Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 Report No.: SZEM180100087902

Email: ee.shenzhen@sgs.com Page: 1 of 94

FCC REPORT

Application No: SZEM1801000897RG

Applicant: Hisense International Co., Ltd.

Manufacturer: Hisense Communications Co., Ltd.

Factory: Hisense Communications Co., Ltd.

Product Name: Mobile Phone
Model No.(EUT): Hisense T17

Trade Mark: Hisense FCC ID: 2ADOBT17

Standards: 47 CFR Part 15, Subpart C(2018)

Test Method: KDB 558074 D01 DTS Meas Guidance v04

ANSI C63.10 (2013)

Date of Receipt: 2018-02-22

Date of Test: 2018-02-23 to 2018-03-06

Date of Issue: 2018-03-08

Test Result: PASS *

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

Authorized Signature:

Derek Yang

Derole yang

Wireless Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Report No.: SZEM180100087902

Page: 2 of 94

2 Version

Revision Record						
Version Chapter Date Modifier Remark						
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Authorized for issue by:		
Tested By	Mike Mu	2018-03-08
	(Mike Hu) /Project Engineer	Date
Checked By	John Hong	2018-03-08
	(Jim Huang) /Reviewer	Date



Report No.: SZEM180100087902

Page: 3 of 94

3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious 47 CFR Part 15, Subpart C Section Emissions 15.205/15.209		ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



Report No.: SZEM180100087902

Page: 4 of 94

4 Contents

			Page
1	CO	VER PAGE	1
2	VER	RSION	2
3	TES	ST SUMMARY	3
4	CON	NTENTS	4
5	GEN	NERAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF EUT	5
	5.3	TEST ENVIRONMENT AND MODE	
	5.4	DESCRIPTION OF SUPPORT UNITS	
	5.5 5.6	TEST LOCATION TEST FACILITY	
	5.6 5.7	DEVIATION FROM STANDARDS	
	5.8	ABNORMALITIES FROM STANDARD CONDITIONS	
	5.9	OTHER INFORMATION REQUESTED BY THE CUSTOMER	
	5.10	MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2)	
	5.11	EQUIPMENT LIST	9
6	TES	ST RESULTS AND MEASUREMENT DATA	
	6.1	ANTENNA REQUIREMENT	12
	6.2	CONDUCTED EMISSIONS	
	6.3	CONDUCTED PEAK OUTPUT POWER	
	6.4	6DB OCCUPY BANDWIDTH	-
	6.5	POWER SPECTRAL DENSITY	
	6.6 6.7	RF CONDUCTED SPURIOUS EMISSIONS	
	6.8	RADIATED SPURIOUS EMISSIONS	
	6.8.		-
	6.8.		
	6.9	RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	
7	DLL	OTOCDADUS - EUT CONSTDUCTIONAL DETAILS	04



Report No.: SZEM180100087902

Page: 5 of 94

5 General Information

5.1 Client Information

Applicant:	Hisense International Co., Ltd.		
Address of Applicant:	Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, 266071, China		
Manufacturer:	Hisense Communications Co., Ltd.		
Address of Manufacturer:	218 Qianwangang Road, Economic & Technological Development Zone, Qingdao, Shandong Province, P.R. China		
Factory:	Hisense Communications Co., Ltd.		
Address of Factory:	218 Qianwangang Road, Economic & Technological Development Zone, Qingdao, Shandong Province, P.R. China		

5.2 General Description of EUT

Product Name:	Mobile Phone		
Model No.:	Hisense T17		
Trade Mark:	Hisense		
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz		
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels		
Chaine Numbers.	IEEE 802.11n HT40: 7 Channels		
Channel Separation:	5MHz		
	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)		
Type of Modulation:	IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK)		
	IEEE for 802.11n(HT20): OFDM (64QAM,16QAM,QPSK,BPSK)		
Sample Type:	Portable Device		
Antenna Type:	PIFA		
Antenna Gain:	-0.3dBi		
Dower Cumby	DC3.8V (1 x 3.8V Rechargeable battery) 2450mAh		
Power Supply	Battery: Charge by DC 5V		
	Model:TPA-97050100UU		
AC adaptor:	Input: AC100-240V 50/60Hz 0.15A		
	Output:DC5.0V 1A		



Report No.: SZEM180100087902

Page: 6 of 94

Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

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:

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz



Report No.: SZEM180100087902

Page: 7 of 94

5.3 Test Environment and Mode

Operating Environment:						
Temperature:	25.0 °C					
Humidity:	50 % RH					
Atmospheric Pressure:	1010 mbar					
Test mode:						
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.					

5.4 Description of Support Units

The EUT has been tested independent unit.

5.5 Test Location

All tests were performed at:

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

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.

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 -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

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.



Report No.: SZEM180100087902

Page: 8 of 94

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

5.10 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	0.75dB
2	RF power density, conducted	2.84dB
3	Spurious emissions, conducted	0.75dB
		4.5dB (30MHz-1GHz)
4	Radiated Spurious emission test	4.8dB (1GHz-25GHz)
5	Conduct emission test	3.12 dB(9KHz- 30MHz)
6	Temperature test	1°C
7	Humidity test	3%
8	DC and low frequency voltages	0.5%



Report No.: SZEM180100087902

Page: 9 of 94

5.11 Equipment List

	Conducted Emission							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)		
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017-05-10	2018-05-10		
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2017-10-09	2018-10-09		
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2017-04-14	2018-04-14		
4	8 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T8- 02	EMC0120	2017-09-28	2018-09-28		
5	4 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T4- 02	EMC0121	2017-09-28	2018-09-28		
6	2 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T2- 02	EMC0122	2017-09-28	2018-09-28		
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2017-04-14	2018-04-14		
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-10-09	2018-10-09		

	RF connected test							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)		
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017-10-09	2018-10-09		
2	Signal Analyzer	Rohde &Schwarz	FSV	W005-02	2017-03-06	2018-03-06		
3	Signal Generator	Rohde &Schwarz	SML03	SEM006-02	2017-04-14	2018-04-14		
4	Power Meter	Rohde &Schwarz	NRVS	SEM014-02	2017-10-09	2018-10-09		
5	Power Sensor	Agilent Technologies	U2021XA	SEM009-01	2017-10-09	2018-10-09		



Report No.: SZEM180100087902

Page: 10 of 94

			RE in Chamb	er		
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	2017-05-10	2018-05-10
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2017-10-09	2018-10-09
3	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-11-01	2020-11-01
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	2017-11-24	2020-11-24
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2017-04-14	2018-04-14
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-10-09	2018-10-09
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	10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2017-05-10	2018-05-10	
2	EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2017-04-14	2018-04-14	
3	Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-29	
4	Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2017-07-06	2018-07-06	
5	.Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14	



Report No.: SZEM180100087902

Page: 11 of 94

	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	2017-05-10	2018-05-10		
2	EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-09	2017-07-19	2018-07-19		
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017-11-15	2020-11-15		
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017-10-09	2018-10-09		
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14		
6	Horn Antenna (18-26GHz)	ETS-Lindgren	3160	SEM003-12	2017-11-24	2020-11-24		
7	HornAntenna (26GHz-40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2015-02-12	2018-02-12		
8	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2017-10-09	2018-10-09		
9	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A		



Report No.: SZEM180100087902

Page: 12 of 94

6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -0.3dBi.



Report No.: SZEM180100087902

Page: 13 of 94

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					
	Frequency range (MHz)	Limit (dBuV) Quasi-peak Average				
	0.15.0.5	66 to 56*	Average 56 to 46*			
Limit:	0.15-0.5					
	0.5-5	56	46			
	5-30	60	50			
Test Procedure:	 Decreases with the logarithm of the frequency. The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 					
Test Setup:	Shielding Room EUT AC Mains LISN1	Ground Reference Plane	Test Receiver			

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Report No.: SZEM180100087902

Page: 14 of 94

Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
	Charge + Transmitting mode.
First Tool Mark	Through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.
Final Test Mode:	Charge + Transmitting mode.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



Report No.: SZEM180100087902

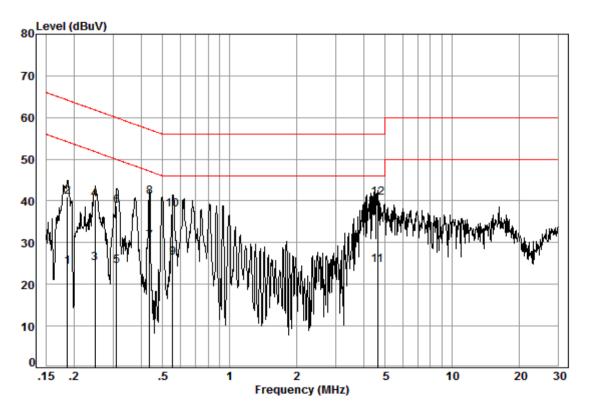
Page: 15 of 94

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: Line Job No. : 00879RG

Test mode: c

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.02	9.51	14.63	24.16	54.20	-30.04	Average
2	0.19	0.02	9.51	31.42	40.95	64.20	-23.25	QP
3	0.25	0.01	9.51	15.57	25.09	51.82	-26.73	Average
4	0.25	0.01	9.51	30.75	40.27	61.82	-21.55	QP
5	0.31	0.01	9.51	14.81	24.33	49.97	-25.64	Average
6	0.31	0.01	9.51	29.31	38.83	59.97	-21.14	QP
7	0.44	0.01	9.49	20.76	30.26	47.11	-16.85	Average
8	0.44	0.01	9.49	31.55	41.05	57.11	-16.06	QP
9	0.56	0.01	9.51	16.86	26.38	46.00	-19.62	Average
10	0.56	0.01	9.51	28.35	37.87	56.00	-18.13	QP
11	4.62	0.01	9.55	15.01	24.57	46.00	-21.43	Average
12	4.62	0.01	9.55	31.20	40.76	56.00	-15.24	QP

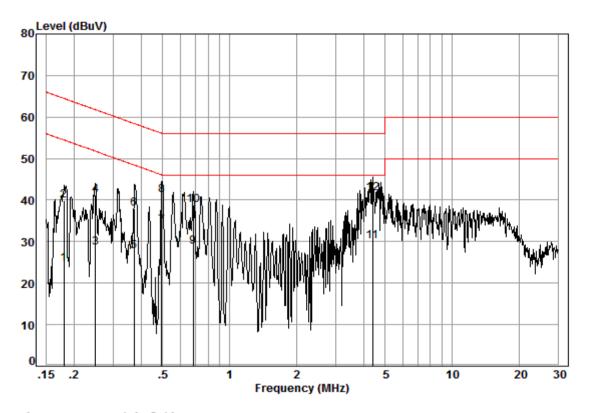
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Report No.: SZEM180100087902

Page: 16 of 94

Neutral Line:



Site : Shielding Room

Condition: Neutral Job No. : 00879RG

Test mode: c

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.02	9.58	14.94	24.54	54.50	-29.96	Average
2	0.18	0.02	9.58	30.33	39.93	64.50	-24.57	QP
3	0.25	0.01	9.58	18.96	28.55	51.78	-23.23	Average
4	0.25	0.01	9.58	31.71	41.30	61.78	-20.48	QP
5	0.37	0.01	9.58	18.06	27.65	48.47	-20.82	Average
6	0.37	0.01	9.58	28.37	37.96	58.47	-20.51	QP
7	0.49	0.01	9.60	24.28	33.89	46.10	-12.21	Average
8	0.49	0.01	9.60	31.59	41.20	56.10	-14.90	QP
9	0.69	0.02	9.62	19.14	28.78	46.00	-17.22	Average
10	0.69	0.02	9.62	29.16	38.80	56.00	-17.20	QP
11	4.41	0.01	9.68	20.48	30.17	46.00	-15.83	Average
12	4.41	0.01	9.68	31.89	41.58	56.00	-14.42	QP

Notes:

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

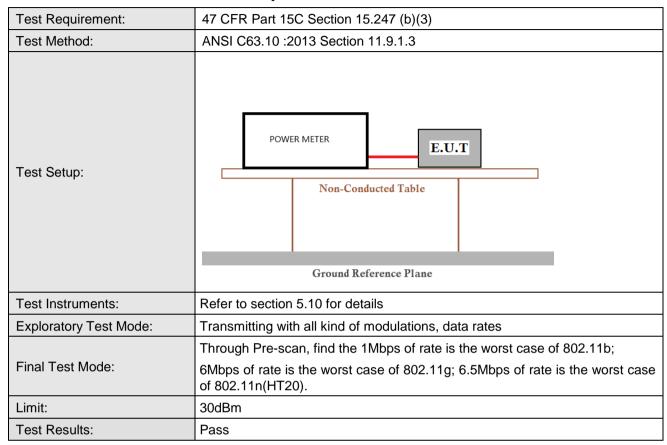
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Report No.: SZEM180100087902

Page: 17 of 94

6.3 Conducted Peak Output Power





Report No.: SZEM180100087902

Page: 18 of 94

Measurement Data

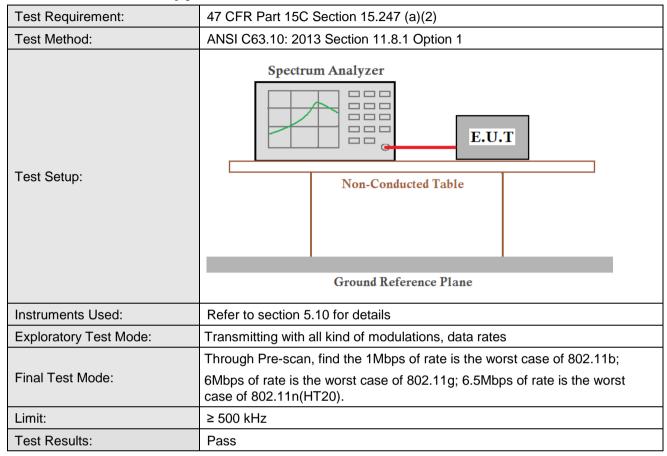
ieasurement Data						
	802.11b mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	16.24	30.00	Pass			
Middle	16.75	30.00	Pass			
Highest	15.82	30.00	Pass			
	802.11g mo	de				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	16.62	30.00	Pass			
Middle	17.15	30.00	Pass			
Highest	17.21	30.00	Pass			
	802.11n(HT20)	mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	15.69	30.00	Pass			
Middle	15.88	30.00	Pass			
Highest	16.28	30.00	Pass			



Report No.: SZEM180100087902

Page: 19 of 94

6.4 6dB Occupy Bandwidth





Report No.: SZEM180100087902

Page: 20 of 94

Measurement Data

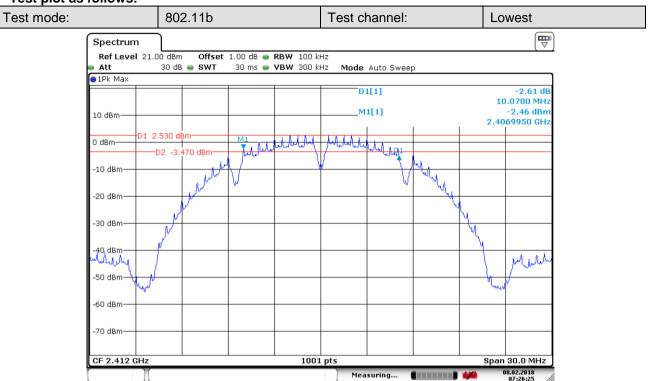
Weasurement Data							
	802.11b mode						
Test channel	6dB Occupy Bandwidth (MHz)	ccupy Bandwidth (MHz) Limit (kHz) Resul					
Lowest	10.07	≥500	Pass				
Middle	10.07	≥500	Pass				
Highest	10.07	≥500	Pass				
	802.11g mode						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	16.42	≥500	Pass				
Middle	16.39	≥500	Pass				
Highest	16.39	≥500	Pass				
	802.11n(HT20) mode						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	17.44 ≥500		Pass				
Middle	17.41 ≥500 Pas						
Highest							



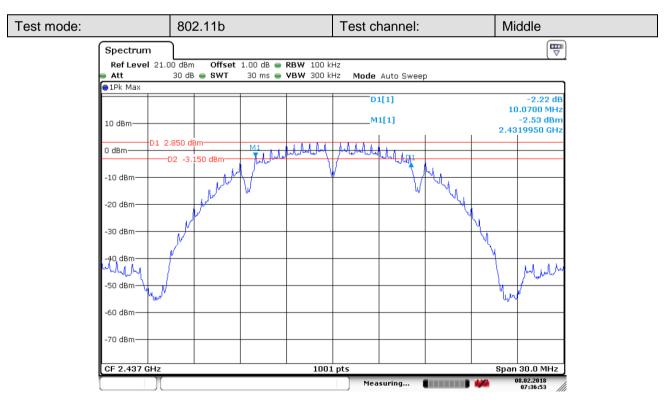
Report No.: SZEM180100087902

Page: 21 of 94

Test plot as follows:



Date: 8.FEB.2018 07:26:25

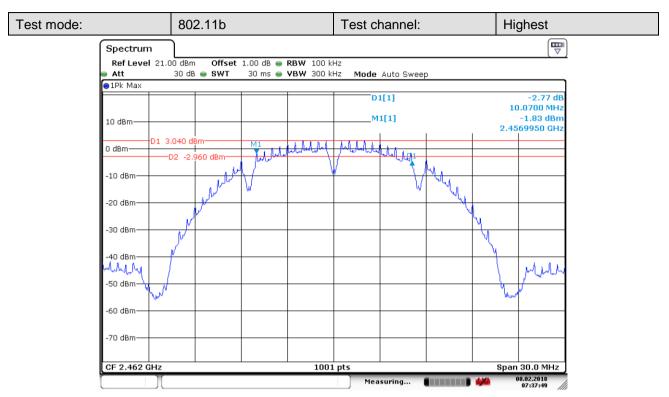


Date: 8.FEB.2018 07:36:53

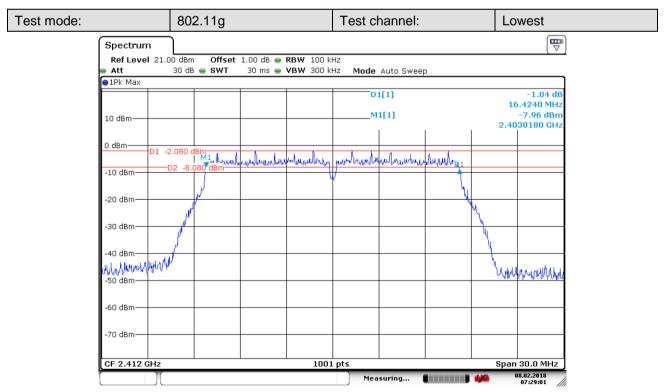


Report No.: SZEM180100087902

Page: 22 of 94



Date: 8.FEB.2018 07:37:50

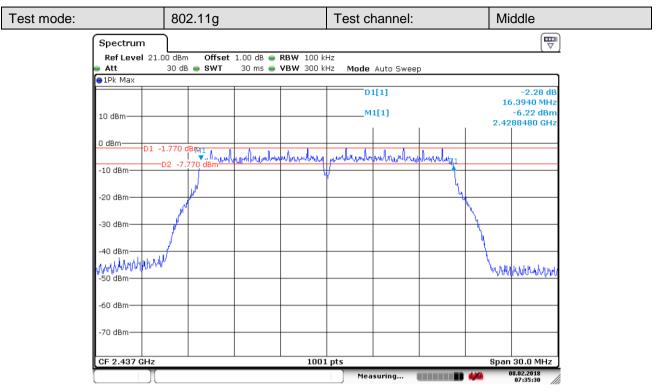


Date: 8.FEB.2018 07:29:01

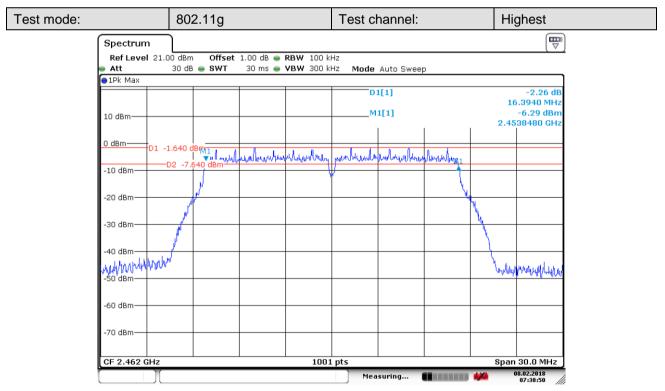


Report No.: SZEM180100087902

Page: 23 of 94



Date: 8.FEB.2018 07:35:30

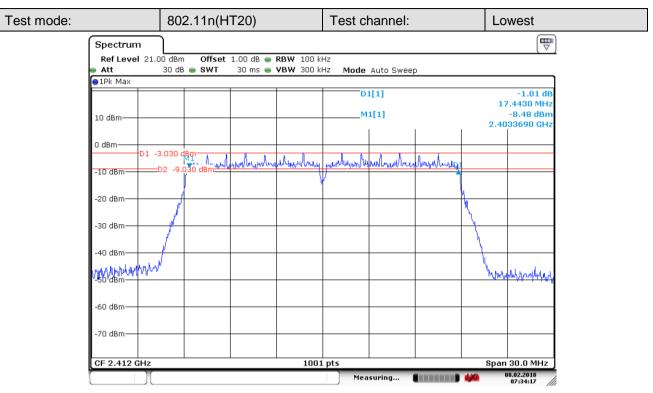


Date: 8.FEB.2018 07:38:50

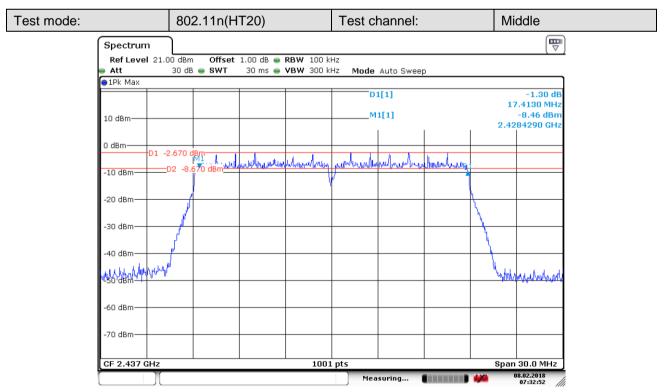


Report No.: SZEM180100087902

Page: 24 of 94



Date: 8.FEB.2018 07:34:17

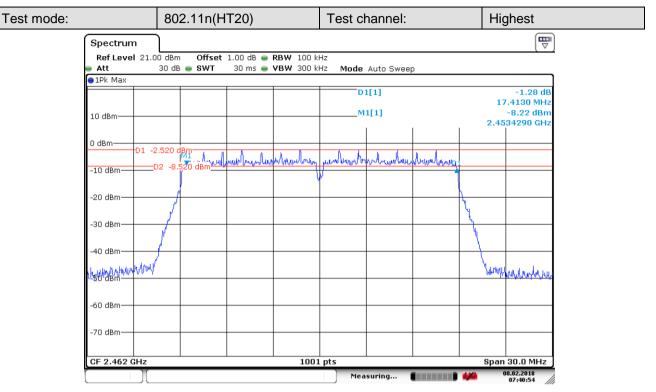


Date: 8.FEB.2018 07:32:52



Report No.: SZEM180100087902

Page: 25 of 94



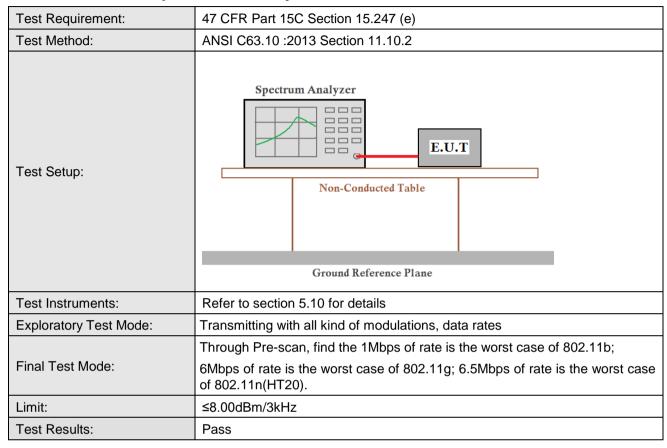
Date: 8.FEB.2018 07:40:54



Report No.: SZEM180100087902

Page: 26 of 94

6.5 Power Spectral Density





Report No.: SZEM180100087902

Page: 27 of 94

Measurement Data

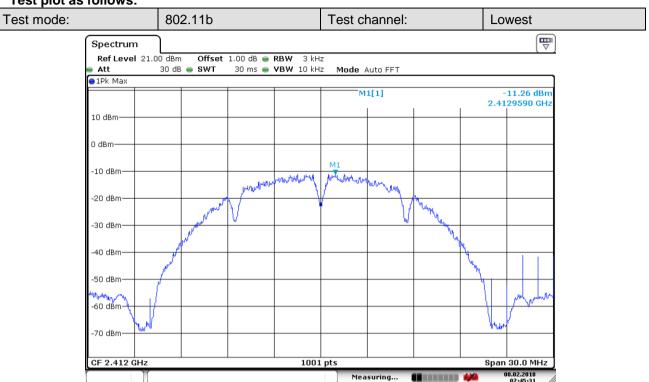
asurement Data							
	802.11b mode						
Test channel	Power Spectral Density (dBm/3kHz)	Result					
Lowest	-11.26	≤8.00	Pass				
Middle	-10.23	≤8.00	Pass				
Highest	-9.62	≤8.00	Pass				
	802.11g mode						
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result				
Lowest	-14.00	≤8.00	Pass				
Middle	-13.29	≤8.00	Pass				
Highest	-14.40	≤8.00	Pass				
	802.11n(HT20) mode						
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result				
Lowest	-15.02	≤8.00	Pass				
Middle	-15.12	≤8.00	Pass				
Highest	-14.79	≤8.00	Pass				



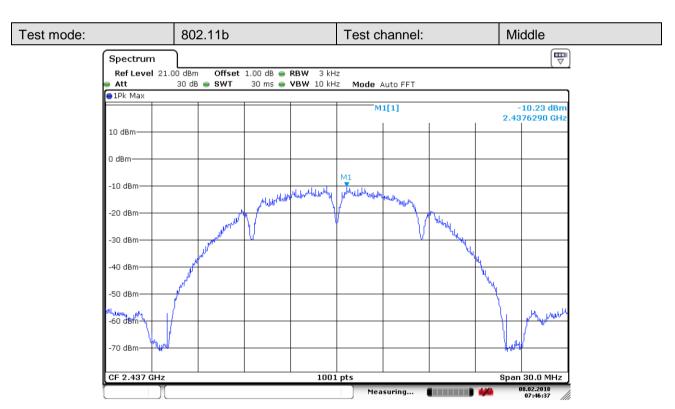
Report No.: SZEM180100087902

Page: 28 of 94

Test plot as follows:



Date: 8.FEB.2018 07:45:31

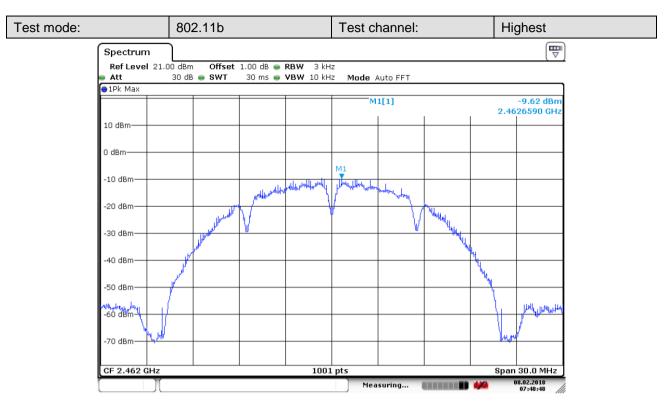


Date: 8.FEB.2018 07:46:37

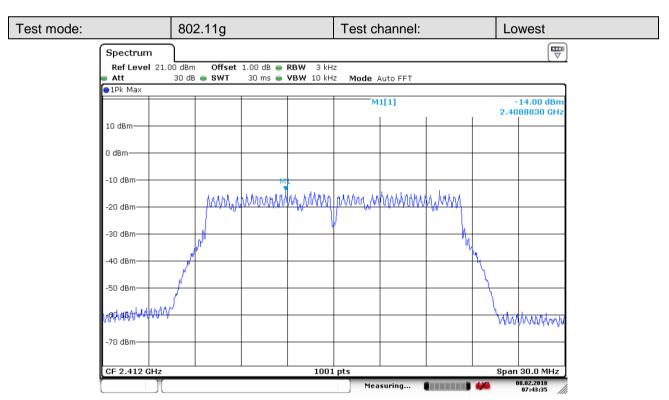


Report No.: SZEM180100087902

Page: 29 of 94



Date: 8.FEB.2018 07:48:48

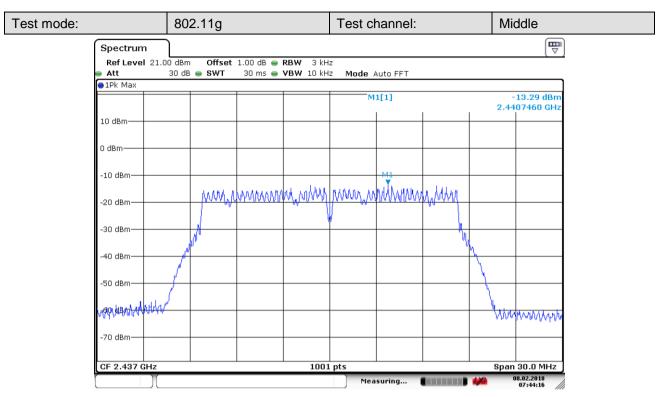


Date: 8.FEB.2018 07:43:35

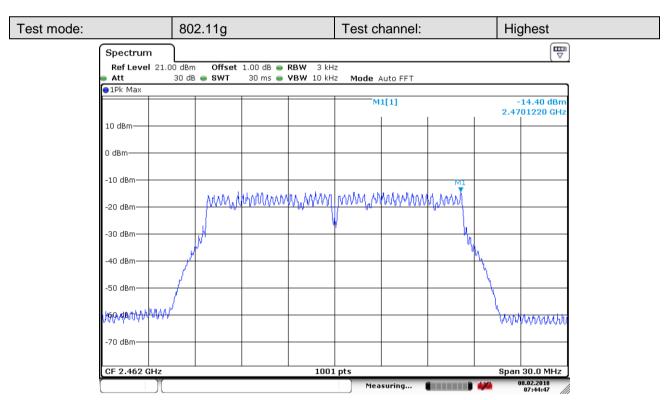


Report No.: SZEM180100087902

Page: 30 of 94



Date: 8.FEB.2018 07:44:17

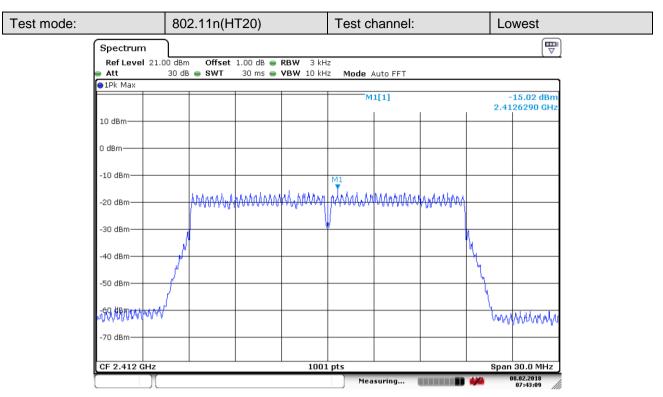


Date: 8.FEB.2018 07:44:47

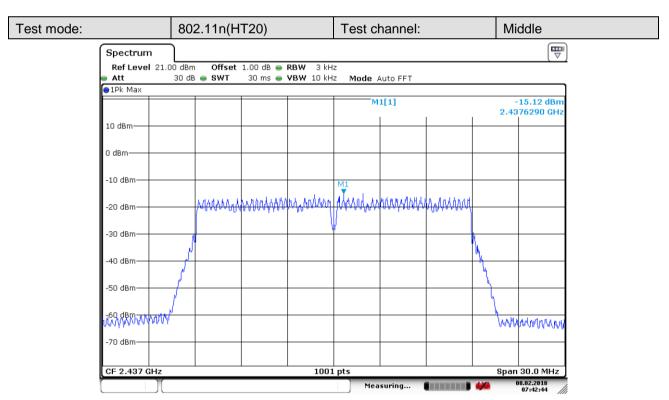


Report No.: SZEM180100087902

Page: 31 of 94



Date: 8.FEB.2018 07:43:09

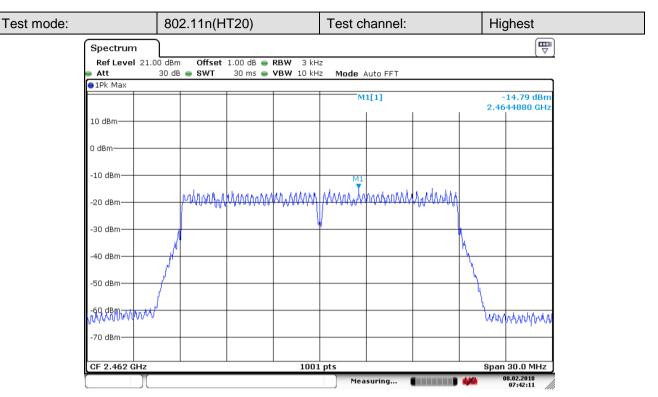


Date: 8.FEB.2018 07:42:45



Report No.: SZEM180100087902

Page: 32 of 94



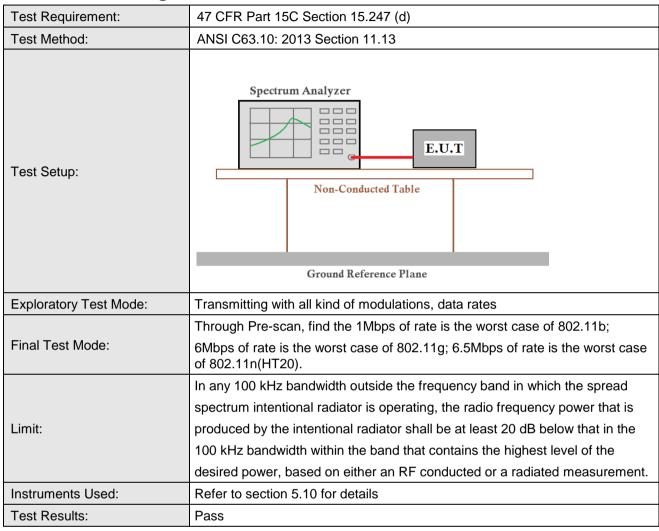
Date: 8.FEB.2018 07:42:11



Report No.: SZEM180100087902

Page: 33 of 94

6.6 Band-edge for RF Conducted Emissions

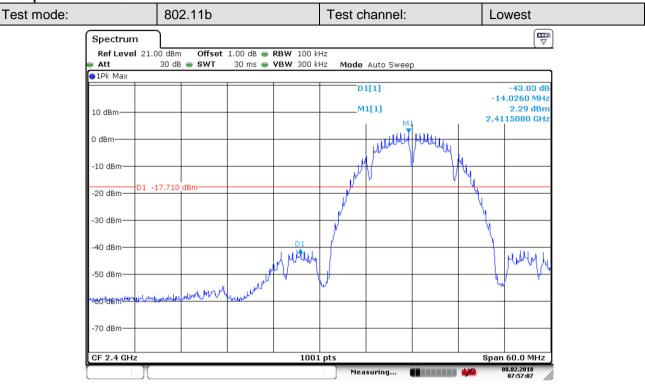




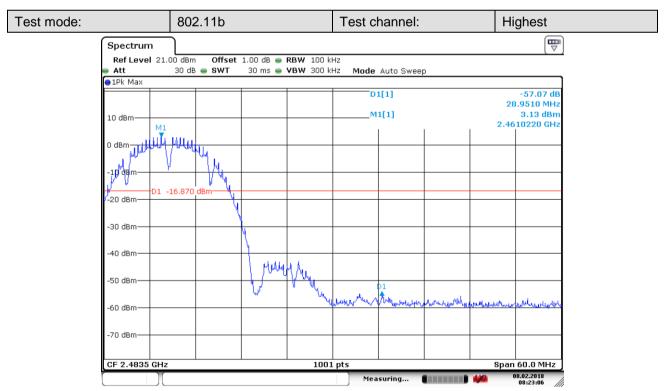
Report No.: SZEM180100087902

Page: 34 of 94

Test plot as follows:



Date: 8.FEB.2018 07:57:07

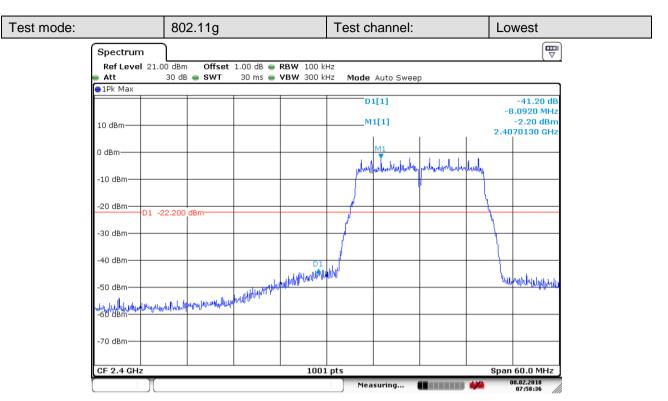


Date: 8.FEB.2018 08:23:06

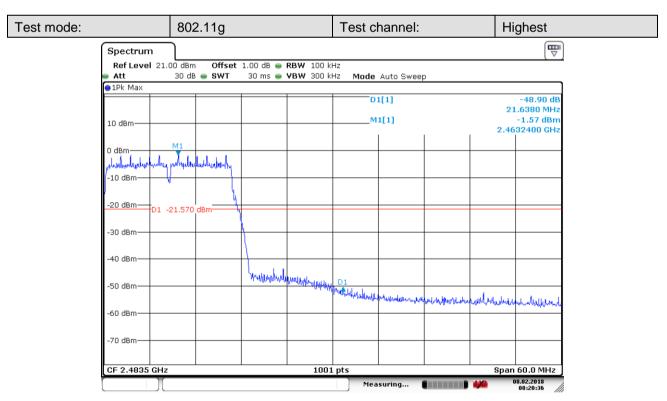


Report No.: SZEM180100087902

Page: 35 of 94



Date: 8.FEB.2018 07:58:36

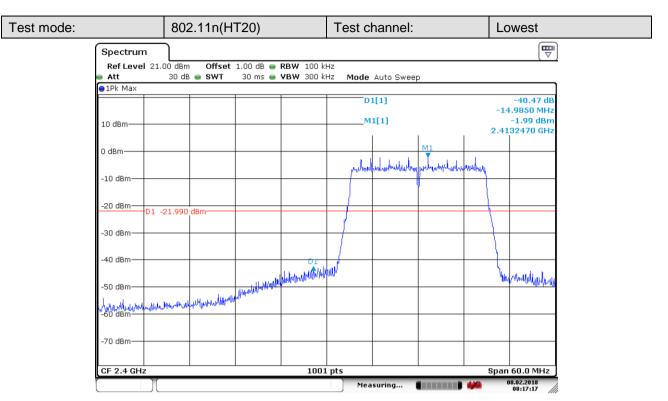


Date: 8.FEB.2018 08:20:37

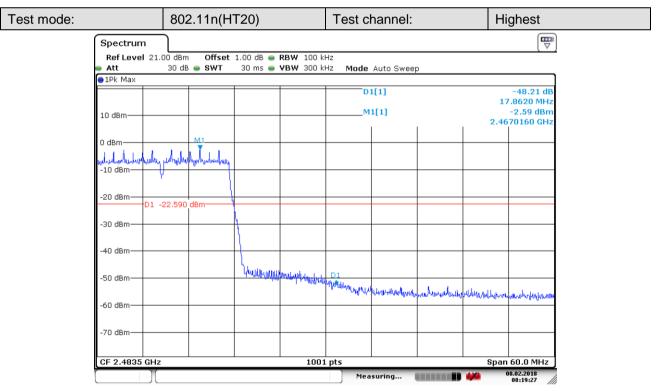


Report No.: SZEM180100087902

Page: 36 of 94



Date: 8.FEB.2018 08:17:17



Date: 8.FEB.2018 08:19:27



Report No.: SZEM180100087902

Page: 37 of 94

6.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)						
Test Method:	ANSI C63.10: 2013 Section 11.11						
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates						
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20.						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.						
Instruments Used:	Refer to section 5.10 for details						
Test Results:	Pass						

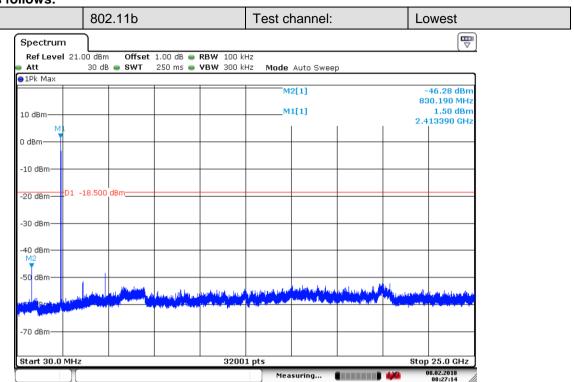


Report No.: SZEM180100087902

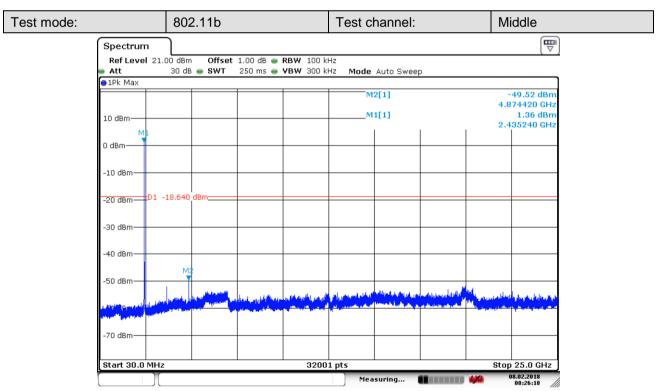
Page: 38 of 94

Test plot as follows:

Test mode:



Date: 8.FEB.2018 08:27:14

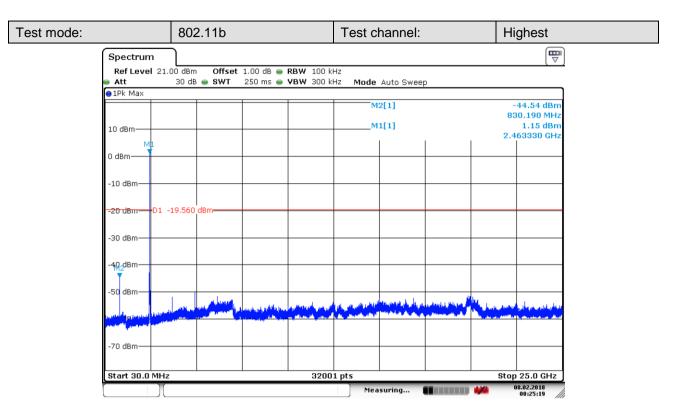


Date: 8.FEB.2018 08:26:18

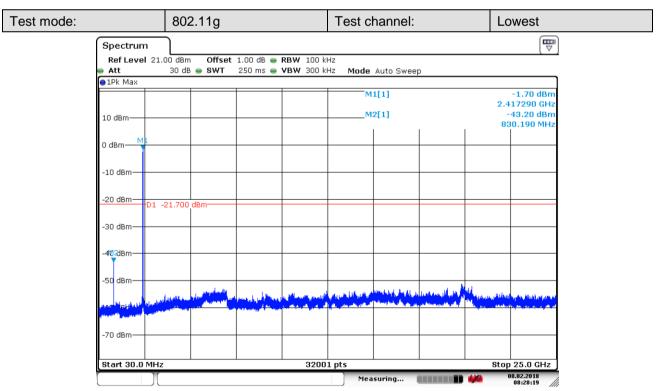


Report No.: SZEM180100087902

Page: 39 of 94



Date: 8.FEB.2018 08:25:19

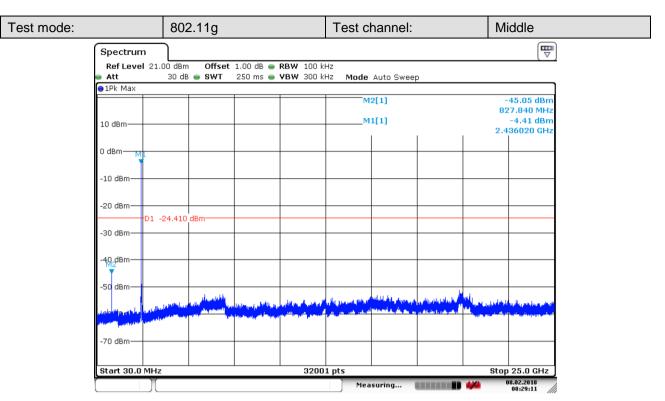


Date: 8.FEB.2018 08:28:19

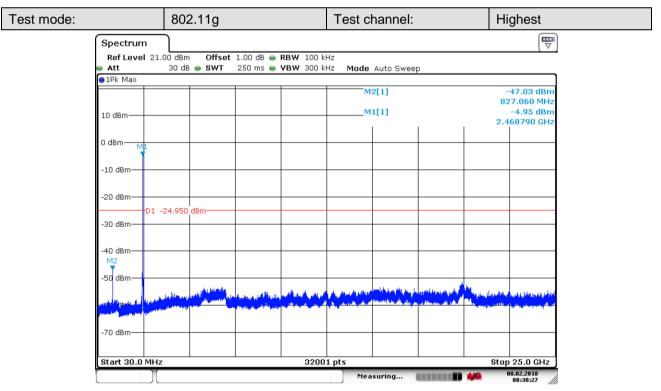


Report No.: SZEM180100087902

Page: 40 of 94



Date: 8.FEB.2018 08:29:11

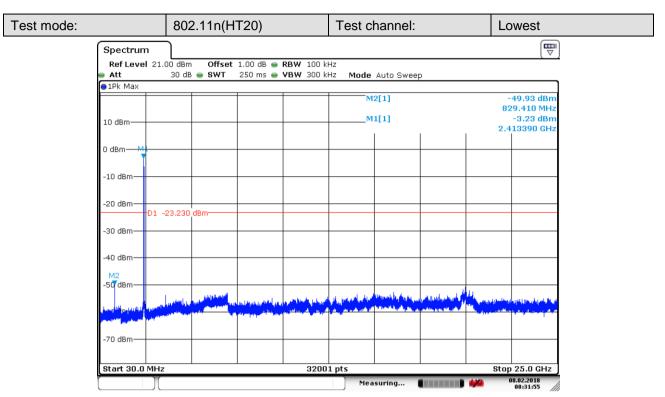


Date: 8.FEB.2018 08:30:27

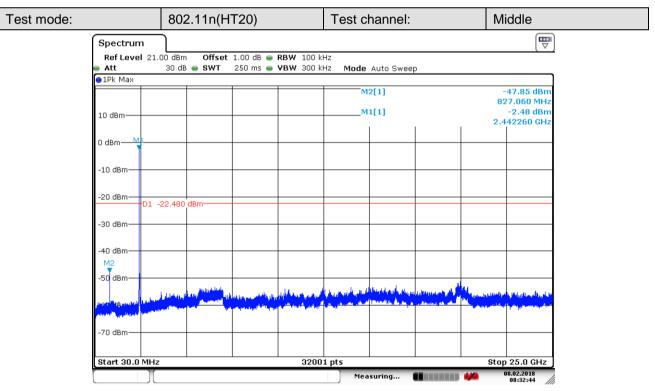


Report No.: SZEM180100087902

Page: 41 of 94



Date: 8.FEB.2018 08:31:55

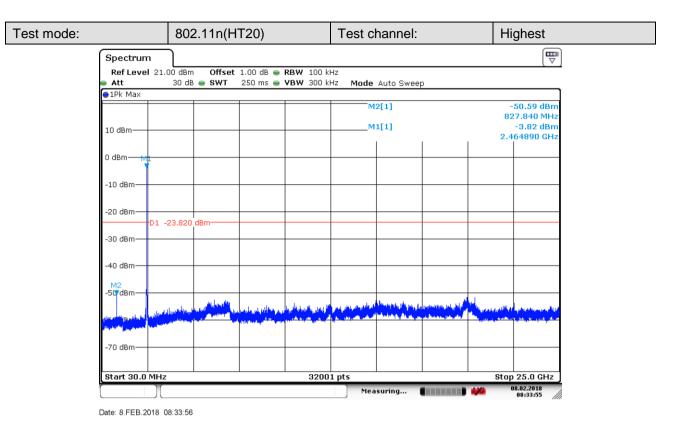


Date: 8.FEB.2018 08:32:44



Report No.: SZEM180100087902

Page: 42 of 94



Remark:

Scan from 9kHz to 25GHz, the disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, the amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



Report No.: SZEM180100087902

Page: 43 of 94

6.8 Radiated Spurious Emissions

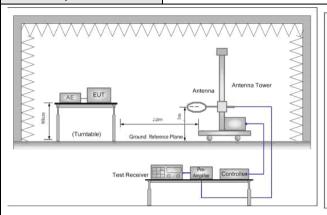
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205									
Test Method:	ANSI C63.10 :2013 Section 11.12									
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)									
	Frequency	Detector	RBW	VBW	Remark					
	0.009MHz-0.090MHz	z Peak	10kHz	30kHz	Peak					
	0.009MHz-0.090MHz	z Average	10kHz	30kHz	Average					
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak					
Receiver Setup:	0.110MHz-0.490MHz	z Peak	10kHz	30kHz	Peak					
	0.110MHz-0.490MHz	. Average	10kHz	30kHz	Average					
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak					
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak					
	Above 4011-	Peak	1MHz	3MHz	Peak					
	Above 1GHz	Peak	1MHz	10Hz	Average					
	Fraguenav	Field strength	Limit	Remark	Measurement					
	Frequency	(microvolt/meter)	(dBuV/m)	Remark	distance (m)					
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300					
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30					
	1.705MHz-30MHz	30	-	-	30					
	30MHz-88MHz	100	40.0	Quasi-peak	3					
Limit:	88MHz-216MHz	150	43.5	Quasi-peak	3					
	216MHz-960MHz	200	46.0	Quasi-peak	3					
	960MHz-1GHz	500	54.0	Quasi-peak	3					
	Above 1GHz	500	54.0	Average	3					
	Note: 15.35(b), Unless o	therwise specified,	the limit on p	eak radio fre	quency					
	emissions is 20dB above	the maximum peri	mitted avera	ge emission li	mit					
	applicable to the equipm	ent under test. This	s peak limit a	pplies to the t	otal peak					
	emission level rad	ated by the device.	ı							
		,								



Report No.: SZEM180100087902

Page: 44 of 94

Test Setup:



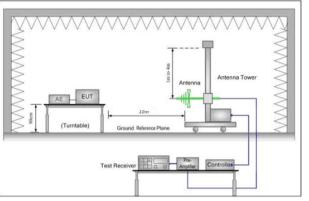


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

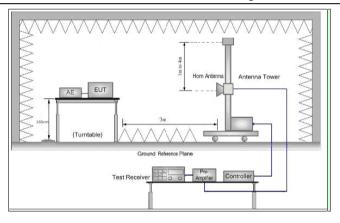


Figure 3. Above 1 GHz

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 or 10 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 or 10 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

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Report No.: SZEM180100087902

Page: 45 of 94

	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 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
	i. 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.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
	Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode.
	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case
	of 802.11n(HT20);
	For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



Report No.: SZEM180100087902

Page: 46 of 94

6.8.1 Radiated emission below 1GHz

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

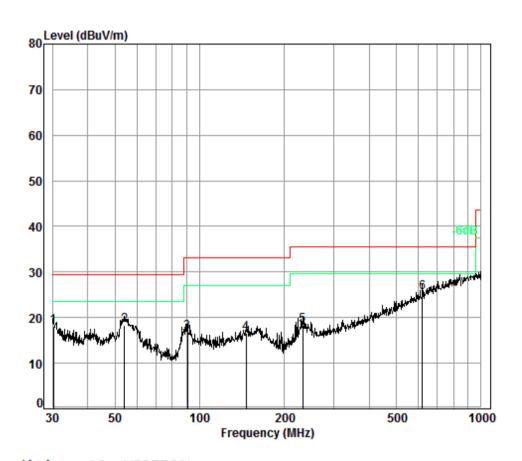
Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Over Limit (dB)	Ant. Polarization
30.32	18.17	8.10	27.00	28.63	40.00	-11.37	V
54.07	18.23	8.16	27.19	28.69	40.00	-11.31	V
90.54	16.68	6.82	22.74	27.14	43.50	-16.36	V
146.37	16.61	6.77	22.56	27.07	43.50	-16.43	V
232.53	18.21	8.14	27.13	28.67	46.00	-17.33	V
618.54	25.43	18.69	62.28	35.89	46.00	-10.11	V
40.56	13.02	4.48	14.92	23.48	40.00	-16.52	Н
56.79	13.50	4.73	15.77	23.96	40.00	-16.04	Н
160.91	15.86	6.21	20.70	26.32	43.50	-17.18	Н
549.02	21.79	12.29	40.96	32.25	46.00	-13.75	Н
647.39	23.93	15.72	52.41	34.39	46.00	-11.61	Н
887.61	26.50	21.13	70.45	36.96	46.00	-9.04	Н



Report No.: SZEM180100087902

Page: 47 of 94

30MHz~1GHz (QP)		
Test mode:	Charge + Transmitting	Vertical



Condition: 10m VERTICAL

Job No. : 00879RG Test Mode: WIFI

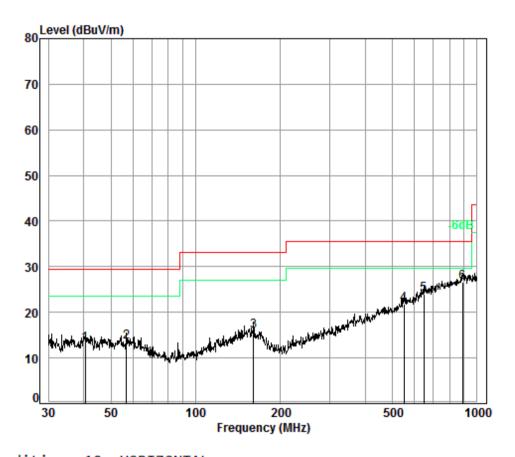
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.32	6.70	12.48	32.97	31.96	18.17	29.50	-11.33
2	54.07	6.98	12.45	32.98	31.78	18.23	29.50	-11.27
3	90.54	7.20	8.73	32.83	33.58	16.68	33.10	-16.42
4	146.37	7.43	13.18	32.75	28.75	16.61	33.10	-16.49
5	232.53	7.76	10.85	32.66	32.26	18.21	35.60	-17.39
6 pp	618.54	8.95	19.09	32.60	29.99	25.43	35.60	-10.17



Report No.: SZEM180100087902

Page: 48 of 94

Test mode: Charge + Transmitting Horizontal



Condition: 10m HORIZONTAL

Job No. : 00879RG Test Mode: WIFI

	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	40.56	6.80	13.27	32.99	25.94	13.02	29.50	-16.48
2	56.79	7.00	12.24	32.96	27.22	13.50	29.50	-16.00
3	160.91	7.50	13.30	32.73	27.79	15.86	33.10	-17.24
4	549.02	8.77	17.71	32.60	27.91	21.79	35.60	-13.81
5	647.39	9.02	19.50	32.60	28.01	23.93	35.60	-11.67
6 pp	887.61	9.50	22.06	32.51	27.45	26.50	35.60	-9.10

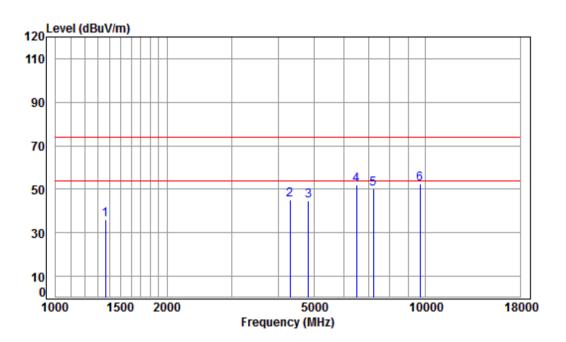


Report No.: SZEM180100087902

Page: 49 of 94

6.8.2 Transmitter emission above 1GHz

Test mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Vertical



Condition: 3m HORIZONTAL

Job No : 00879RG

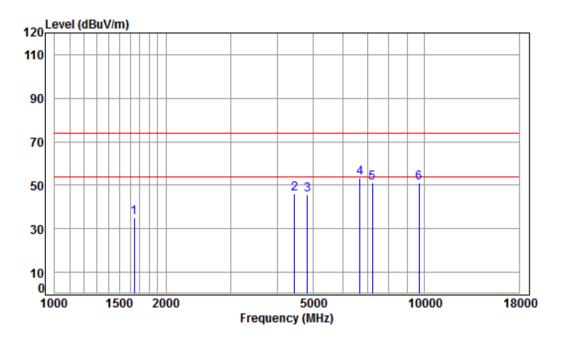
Mode : 2412 TX RSE Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1366.374	5.04	25.25	41.31	46.84	35.82	74.00	-38.18	peak
2	4304.400	7.34	33.60	42.38	46.54	45.10	74.00	-28.90	peak
3	4824.000	7.91	34.19	42.47	45.00	44.63	74.00	-29.37	peak
4	6507.536	11.52	35.12	41.21	46.63	52.06	74.00	-21.94	peak
5	7236.000	10.07	36.40	40.69	44.42	50.20	74.00	-23.80	peak
6 p	p 9648.000	10.77	37.53	37.68	41.79	52.41	74.00	-21.59	peak



Report No.: SZEM180100087902

Page: 50 of 94



Condition: 3m HORIZONTAL

Job No : 00879RG

> 1 2

> 3

5

Mode : 2412 TX RSE Note : 2.4G WIFI 11B

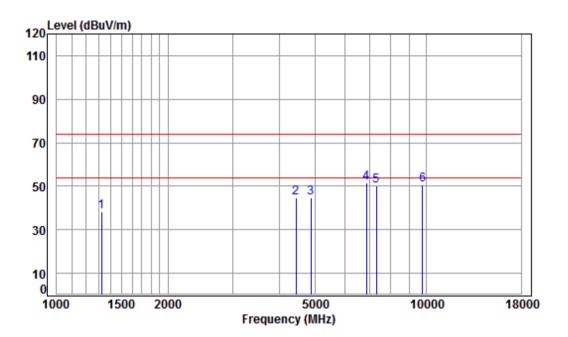
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 1644.019 5.30 26.44 41.50 45.00 35.24 74.00 -38.76 peak 4456.315 7.51 33.60 42.41 47.35 46.05 74.00 -27.95 peak 4824.000 7.91 34.19 42.47 46.13 45.76 74.00 -28.24 peak 35.67 41.07 47.62 4 pp 6698.373 10.97 53.19 74.00 -20.81 peak 7236.000 10.07 36.40 40.69 45.24 51.02 74.00 -22.98 peak 9648.000 10.77 37.53 37.68 40.70 51.32 74.00 -22.68 peak



Report No.: SZEM180100087902

Page: 51 of 94

Test mode:	802.11b	Test channel:	Middle	Remark:	Peak	Vertical



Condition: 3m HORIZONTAL

Job No : 00879RG

Mode : 2437 TX RSE Note : 2.4G WIFI 11B

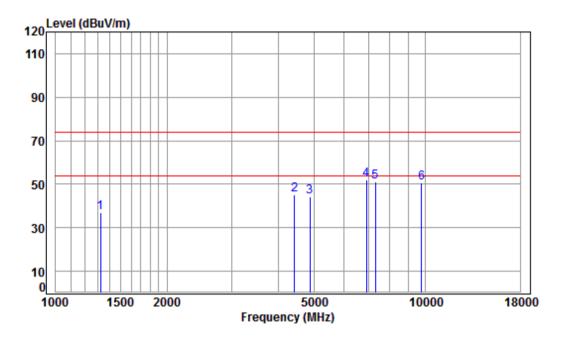
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1323.614	4.88	25.06	41.28	49.71	38.37	74.00	-35.63	peak
2	4430.628	7.48	33.60	42.41	45.92	44.59	74.00	-29.41	peak
3	4874.000	7.96	34.28	42.48	45.05	44.81	74.00	-29.19	peak
4 p	p 6874.906	10.47	36.16	40.94	46.08	51.77	74.00	-22.23	peak
5	7311.000	10.05	36.37	40.64	44.24	50.02	74.00	-23.98	peak
6	9748.000	10.82	37.55	37.54	39.91	50.74	74.00	-23.26	peak



Report No.: SZEM180100087902

Page: 52 of 94

Test mode:	802.11b	Test channel:	Middle	Remark:	Peak	Horizontal
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Condition: 3m VERTICAL

Job No : 00879RG

Mode : 2437 TX RSE Note : 2.4G WIFI 11B

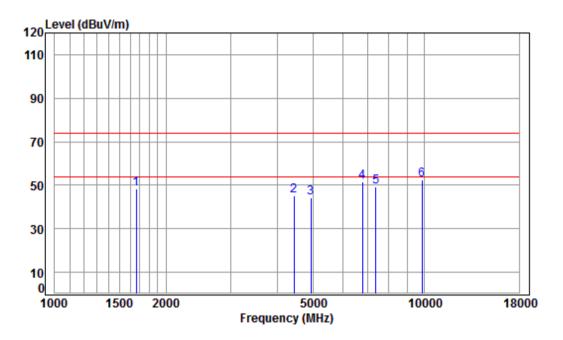
oce	. 2.4	G MILI	TID						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1323.614	4.88	25.06	41.28	48.30	36.96	74.00	-37.04	peak
2	4417.841	7.47	33.60	42.40	46.48	45.15	74.00	-28.85	peak
3	4874.000	7.96	34.28	42.48	44.31	44.07	74.00	-29.93	peak
4 pp	6914.763	10.36	36.27	40.91	46.16	51.88	74.00	-22.12	peak
5	7311.000	10.05	36.37	40.64	45.43	51.21	74.00	-22.79	peak
6	9748.000	10.82	37.55	37.54	39.77	50.60	74.00	-23.40	peak



Report No.: SZEM180100087902

Page: 53 of 94

Test mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical



Condition: 3m HORIZONTAL

Job No : 00879RG

> 1 2

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Mode : 2462 TX RSE Note : 2.4G WIFI 11B

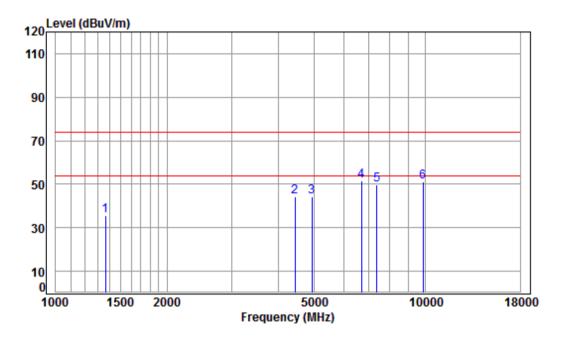
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 1663.137 5.27 26.52 41.51 57.88 48.16 74.00 -25.84 peak 4430.628 7.48 33.60 42.41 46.33 45.00 74.00 -29.00 peak 4924.000 8.01 34.37 42.49 44.57 44.46 74.00 -29.54 peak 51.50 74.00 -22.50 peak 6795.879 10.69 35.94 41.00 45.87 7386.000 10.03 36.34 40.59 43.50 49.28 74.00 -24.72 peak 6 pp 9848.000 10.87 37.57 37.41 41.31 52.34 74.00 -21.66 peak



Report No.: SZEM180100087902

Page: 54 of 94

Test mode: 802.11b	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m VERTICAL

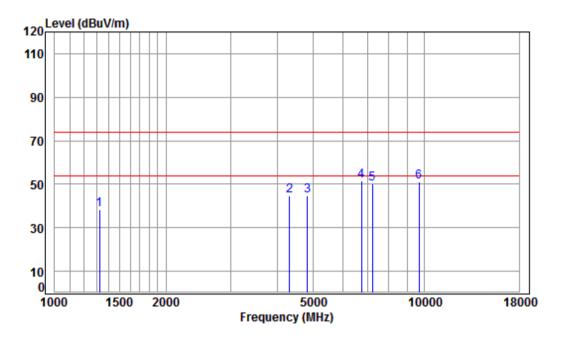
Job No : 00879RG Mode : 2462 TX RSE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1366.374								•
2	4430.628	7.48	33.60	42.41	45.57	44.24	74.00	-29.76	peak
3	4924.000	8.01	34.37	42.49	44.48	44.37	74.00	-29.63	peak
4 pp	6717.762	10.91	35.72	41.05	46.16	51.74	74.00	-22.26	peak
5	7386.000	10.03	36.34	40.59	44.10	49.88	74.00	-24.12	peak
6	9848.000	10.87	37.57	37.41	39.93	50.96	74.00	-23.04	peak



Report No.: SZEM180100087902

Page: 55 of 94



Condition: 3m HORIZONTAL

Job No : 00879RG

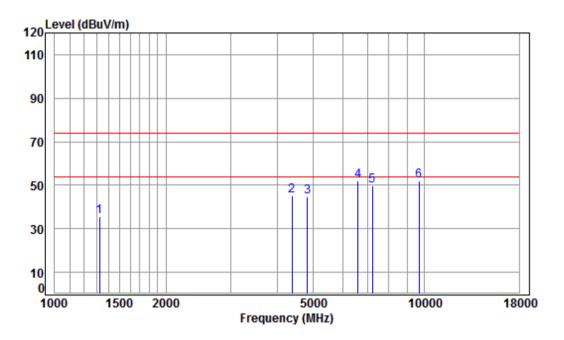
Mode : 2412 TX RSE Note : 2.4G WIFI 11G

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1323.614	4.88	25.06	41.28	49.78	38.44	74.00	-35.56	peak
2		4316.859	7.36	33.60	42.38	45.98	44.56	74.00	-29.44	peak
3		4824.000	7.91	34.19	42.47	45.10	44.73	74.00	-29.27	peak
4 p	ор	6756.708	10.80	35.83	41.03	46.13	51.73	74.00	-22.27	peak
5		7236.000	10.07	36.40	40.69	44.36	50.14	74.00	-23.86	peak
6		9648.000	10.77	37.53	37.68	40.49	51.11	74.00	-22.89	peak



Report No.: SZEM180100087902

Page: 56 of 94



Condition: 3m VERTICAL

: 00879RG Job No

1 2

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4

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Mode : 2412 TX RSE Note : 2.4G WIFI 11G

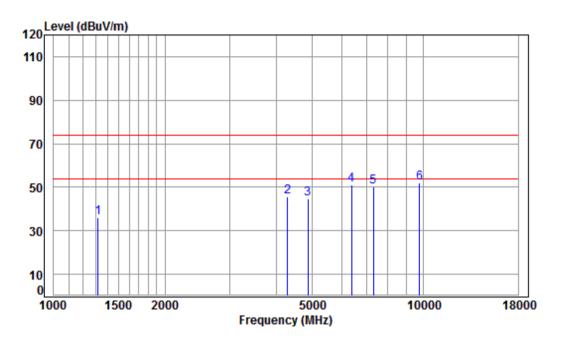
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 1323.614 4.88 25.06 41.28 47.12 35.78 74.00 -38.22 peak 4379.699 7.43 33.60 42.40 46.48 45.11 74.00 -28.89 peak 7.91 34.19 42.47 45.13 44.76 74.00 -29.24 peak 4824.000 6602.265 11.24 35.39 41.14 46.49 51.98 74.00 -22.02 peak 7236.000 10.07 36.40 40.69 44.11 49.89 74.00 -24.11 peak 6 pp 9648.000 10.77 37.53 37.68 41.54 52.16 74.00 -21.84 peak



Report No.: SZEM180100087902

Page: 57 of 94

Test mode:	802.11g	Test channel:	Middle	Remark:	Peak	Vertical



Condition: 3m HORIZONTAL

Job No : 00879RG

Mode : 2437 TX RSE Note : 2.4G WIFI 11G

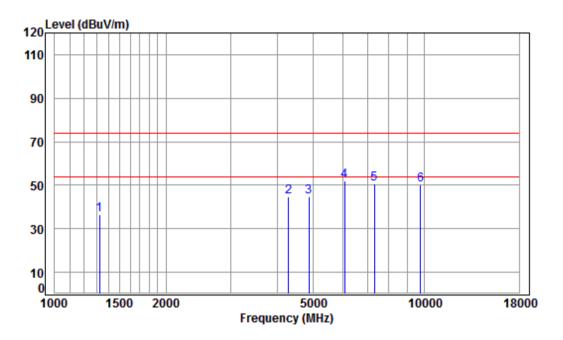
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1319.794	4.87	25.04	41.28	47.20	35.83	74.00	-38.17	peak
2		4291.977	7.33	33.60	42.38	46.91	45.46	74.00	-28.54	peak
3		4874.000	7.96	34.28	42.48	44.98	44.74	74.00	-29.26	peak
4		6377.195	11.31	35.00	41.31	46.27	51.27	74.00	-22.73	peak
5		7311.000	10.05	36.37	40.64	44.39	50.17	74.00	-23.83	peak
6	pp	9748.000	10.82	37.55	37.54	40.96	51.79	74.00	-22.21	peak



Report No.: SZEM180100087902

Page: 58 of 94

Test mode:	802.11g	Test channel:	Middle	Remark:	Peak	Horizontal



Condition: 3m VERTICAL

Job No : 00879RG Mode : 2437 TX RSE

Note : 2437 IX KSE Note : 2.4G WIFI 11G

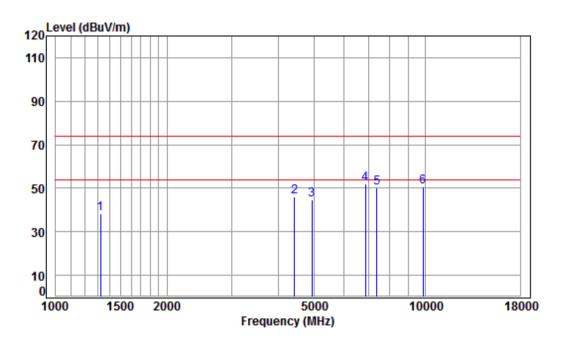
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1323.614	4.88	25.06	41.28	48.02	36.68	74.00	-37.32	peak
2	4291.977	7.33	33.60	42.38	46.27	44.82	74.00	-29.18	peak
3	4874.000	7.96	34.28	42.48	44.96	44.72	74.00	-29.28	peak
4 pp	6071.417	10.71	34.76	41.55	47.89	51.81	74.00	-22.19	peak
5	7311.000	10.05	36.37	40.64	44.65	50.43	74.00	-23.57	peak
6	9748.000	10.82	37.55	37.54	39.56	50.39	74.00	-23.61	peak



Report No.: SZEM180100087902

Page: 59 of 94

Test mode:	802.11g	Test channel:	Highest	Remark:	Peak	Vertical



Condition: 3m HORIZONTAL

Job No : 00879RG

Mode : 2462 TX RSE Note : 2.4G WIFI 11G

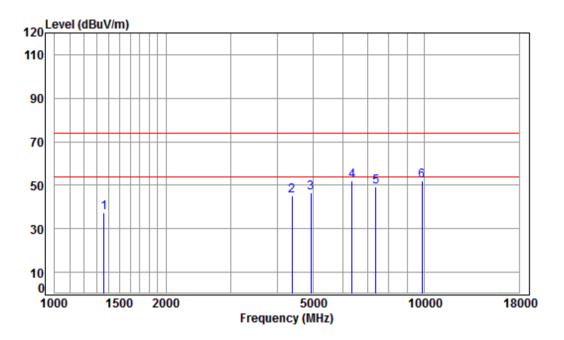
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1323.614	4.88	25.06	41.28	49.79	38.45	74.00	-35.55	peak
2		4417.841	7.47	33.60	42.40	47.27	45.94	74.00	-28.06	peak
3		4924.000	8.01	34.37	42.49	45.00	44.89	74.00	-29.11	peak
4	pp	6874.906	10.47	36.16	40.94	46.38	52.07	74.00	-21.93	peak
5		7386.000	10.03	36.34	40.59	44.19	49.97	74.00	-24.03	peak
6		9848.000	10.87	37.57	37.41	39.69	50.72	74.00	-23.28	peak



Report No.: SZEM180100087902

Page: 60 of 94

Test mode:	802.11g	Test channel:	Highest	Remark:	Peak	Horizontal



Condition: 3m VERTICAL Job No : 00879RG

Mode : 2462 TX RSE Note : 2.4G WIFI 11G

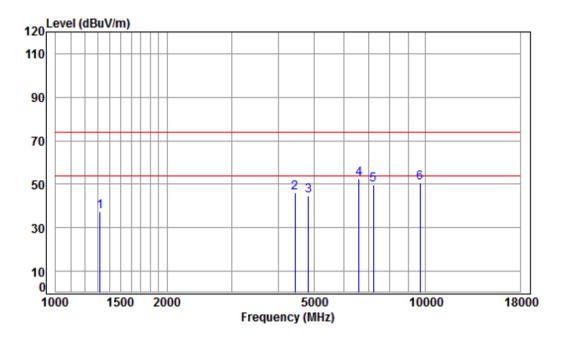
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 1362.430 5.02 25.23 41.31 48.39 37.33 74.00 -36.67 peak 1 2 4379.699 7.43 33.60 42.40 46.75 45.38 74.00 -28.62 peak 3 34.37 42.49 46.67 46.56 74.00 -27.44 peak 4924.000 8.01 34.99 41.32 46.97 4 6358.789 11.27 51.91 74.00 -22.09 peak 5 7386.000 10.03 36.34 40.59 43.40 49.18 74.00 -24.82 peak 6 pp 9848.000 10.87 37.57 37.41 40.88 51.91 74.00 -22.09 peak



Report No.: SZEM180100087902

Page: 61 of 94

Test mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m HORIZONTAL

Job No : 00879RG

Mode : 2412 TX RSE

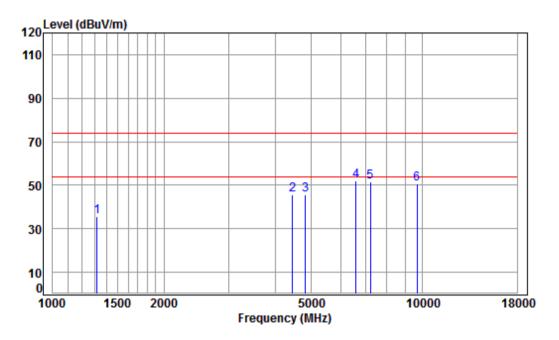
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.794								•
2	4443.453	7.50	33.60	42.41	47.18	45.87	74.00	-28.13	peak
3	4824.000	7.91	34.19	42.47	45.12	44.75	74.00	-29.25	peak
4 pp	6602.265	11.24	35.39	41.14	46.79	52.28	74.00	-21.72	peak
5	7236.000	10.07	36.40	40.69	43.94	49.72	74.00	-24.28	peak
6	9648.000	10.77	37.53	37.68	40.16	50.78	74.00	-23.22	peak



Report No.: SZEM180100087902

Page: 62 of 94

Test mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m VERTICAL

Job No : 00879RG

Mode : 2412 TX RSE

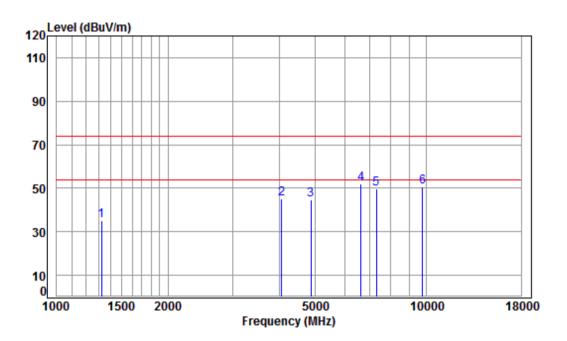
ore	. 2.4	G MILI	IIIV Z	•					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.794	4.87	25.04	41.28	47.06	35.69	74.00	-38.31	peak
2	4456.315	7.51	33.60	42.41	46.93	45.63	74.00	-28.37	peak
3	4824.000	7.91	34.19	42.47	46.22	45.85	74.00	-28.15	peak
4 p	6602.265	11.24	35.39	41.14	46.40	51.89	74.00	-22.11	peak
5	7236.000	10.07	36.40	40.69	45.73	51.51	74.00	-22.49	peak
6	9648.000	10.77	37.53	37.68	40.18	50.80	74.00	-23.20	peak



Report No.: SZEM180100087902

Page: 63 of 94

Test mode:	802.11n(HT20)	Test channel:	Middle	Remark:	Peak	Vertical
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Condition: 3m HORIZONTAL

Job No : 00879RG

Mode : 2437 TX RSE

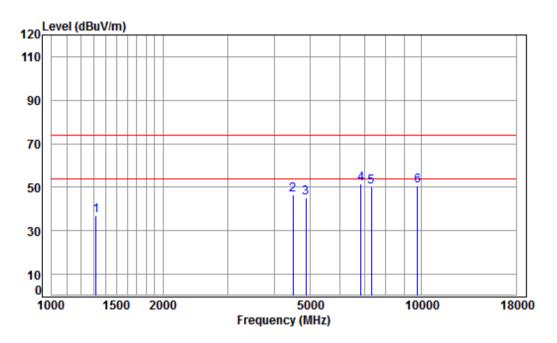
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1323.614								•
2	4062.629	7.06	33.60	42.34	46.72	45.04	74.00	-28.96	peak
3	4874.000	7.96	34.28	42.48	44.95	44.71	74.00	-29.29	peak
4 pp	6640.542	11.13	35.50	41.11	46.43	51.95	74.00	-22.05	peak
5	7311.000	10.05	36.37	40.64	43.95	49.73	74.00	-24.27	peak
6	9748.000	10.82	37.55	37.54	39.65	50.48	74.00	-23.52	peak



Report No.: SZEM180100087902

Page: 64 of 94

Test mode:	802.11n(HT20)	Test channel:	Middle	Remark:	Peak	Horizontal
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Condition: 3m VERTICAL

Job No : 00879RG

Mode : 2437 TX RSE

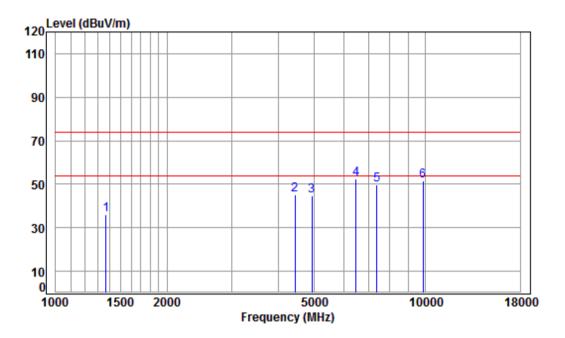
		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1319.794	4.87	25.04	41.28	48.19	36.82	74.00	-37.18	peak
2		4495.125	7.55	33.60	42.42	47.72	46.45	74.00	-27.55	peak
3		4874.000	7.96	34.28	42.48	45.39	45.15	74.00	-28.85	peak
4	рр	6855.063	10.53	36.10	40.96	46.08	51.75	74.00	-22.25	peak
5		7311.000	10.05	36.37	40.64	44.36	50.14	74.00	-23.86	peak
6		9748.000	10.82	37.55	37.54	39.63	50.46	74.00	-23.54	peak



Report No.: SZEM180100087902

Page: 65 of 94

Test mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m HORIZONTAL

Job No : 00879RG

Mode : 2462 TX RSE

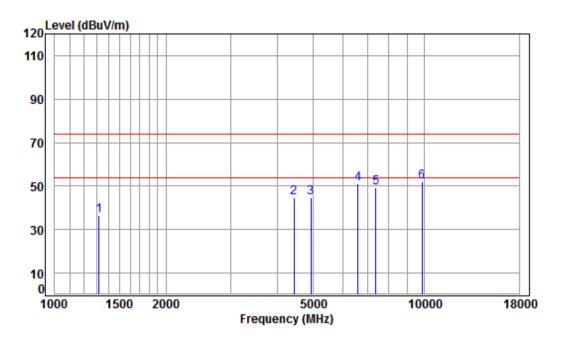
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1370.328	5.05	25.26	41.32	46.94	35.93	74.00	-38.07	peak
2	4443.453	7.50	33.60	42.41	46.40	45.09	74.00	-28.91	peak
3	4924.000	8.01	34.37	42.49	44.71	44.60	74.00	-29.40	peak
4 p	p 6488.754	11.52	35.09	41.22	46.93	52.32	74.00	-21.68	peak
5	7386.000	10.03	36.34	40.59	43.89	49.67	74.00	-24.33	peak
6	9848.000	10.87	37.57	37.41	40.64	51.67	74.00	-22.33	peak



Report No.: SZEM180100087902

Page: 66 of 94

Test mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m VERTICAL

Job No : 00879RG

Mode : 2462 TX RSE

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.794	4.87	25.04	41.28	47.84	36.47	74.00	-37.53	peak
2	4430.628	7.48	33.60	42.41	46.25	44.92	74.00	-29.08	peak
3	4924.000	8.01	34.37	42.49	44.80	44.69	74.00	-29.31	peak
4	6602.265	11.24	35.39	41.14	45.78	51.27	74.00	-22.73	peak
5	7386.000	10.03	36.34	40.59	43.53	49.31	74.00	-24.69	peak
6 pp	9848.000	10.87	37.57	37.41	40.97	52.00	74.00	-22.00	peak



Report No.: SZEM180100087902

Page: 67 of 94

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.

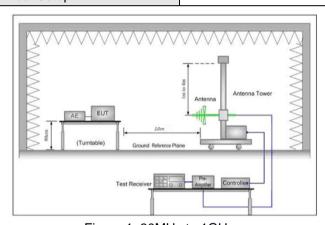


Report No.: SZEM180100087902

Page: 68 of 94

6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 2	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10: 2013 Section	า 11.12					
Test Site:	47 CFR Part 15C Section 15.209 and 15.205 ANSI C63.10: 2013 Section 11.12 Measurement Distance: 3m (Semi-Anechoic Chamber) Frequency Limit (dBuV/m @3m) Remark 30MHz-88MHz 40.0 Quasi-peak Value 88MHz-216MHz 43.5 Quasi-peak Value 216MHz-960MHz 46.0 Quasi-peak Value 960MHz-1GHz 54.0 Quasi-peak Value Above 1GHz 54.0 Average Value 74.0 Peak Value						
	Frequency	Limit (dBuV/m @3m)	Remark				
	30MHz-88MHz	40.0	Quasi-peak Value				
	88MHz-216MHz	43.5	Quasi-peak Value				
Limit:	216MHz-960MHz	46.0	Quasi-peak Value				
	960MHz-1GHz	54.0	Quasi-peak Value				
	Above 4011=	54.0	Average Value				
	Above IGHZ	74.0	Peak Value				
Test Setup:		•					



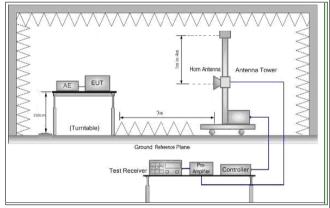


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



Report No.: SZEM180100087902

Page: 69 of 94

	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.					
Test Procedure:	e. For each suspected emission, the EUT was arranged to its worst cas and then the antenna was tuned to heights from 1 meter to 4 meter and the rotatable table was turned from 0 degrees to 360 degrees 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. 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.					
Evoloratory Toot Mada	Transmitting with all kind of modulations, data rates.					
Exploratory Test Mode:	Charge + Transmitting mode.					
	Pretest the EUT at Charge +Transmitting mode.					
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;					
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20);. Only the worst case is recorded in the report.					
Instruments Used:	Refer to section 5.10 for details					
Test Results:	Pass					

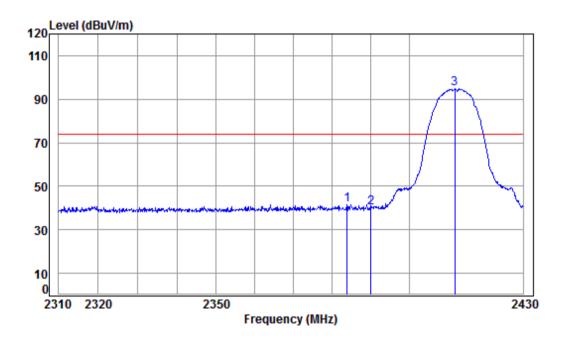


Report No.: SZEM180100087902

Page: 70 of 94

Test plot as follows:





Condition: 3m VERTICAL

Job No : 00879RG

Mode : 2412 Band edge

: 2.4G WIFI 11B

: 14.5

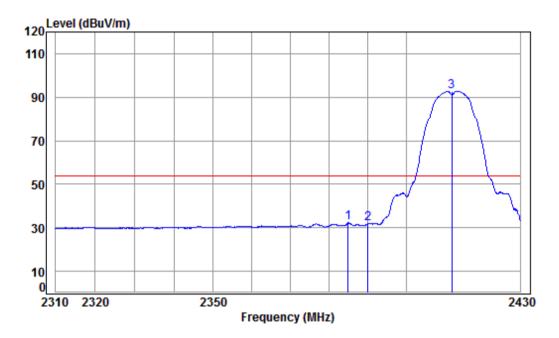
			_								
		Freq				Read Level				Remark	
	-	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB		—
1		2383.803	5.47	29.06	41.87	49.04	41.70	74.00	-32.30	Peak	
2		2390.000	5.47	29.08	41.87	47.60	40.28	74.00	-33.72	Peak	
3	pp	2412.000	5.50	29.14	41.88	101.98	94.74	74.00	20.74	Peak	



Report No.: SZEM180100087902

Page: 71 of 94

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Average	Vertical
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Condition: 3m VERTICAL Job No : 00879RG

Mode : 2412 Band edge

: 2.4G WIFI 11B

: 14.5

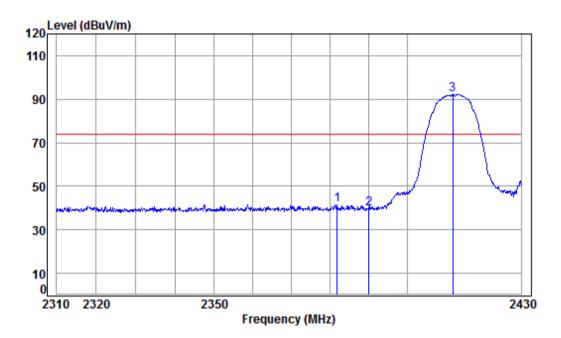
			_								
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										
		MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB		
1		2384.890	5.47	29.06	41.87	39.56	32.22	54.00	-21.78	Average	
2		2390.000	5.47	29.08	41.87	39.21	31.89	54.00	-22.11	Average	
3	pp	2412.000	5.50	29.14	41.88	100.07	92.83	54.00	38.83	Average	



Report No.: SZEM180100087902

Page: 72 of 94

	Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No : 00879RG

Mode : 2412 Band edge

: 2.4G WIFI 11B

: 14.5

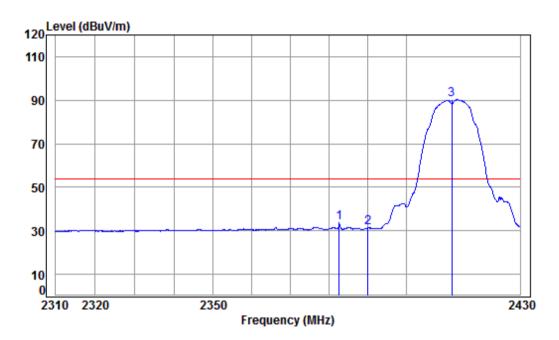
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2381.752	5.46	29.05	41.87	48.98	41.62	74.00	-32.38	peak
2		2390.000	5.47	29.08	41.87	47.24	39.92	74.00	-34.08	peak
3	pp	2412.000	5.50	29.14	41.88	99.53	92.29	74.00	18.29	peak



Report No.: SZEM180100087902

Page: 73 of 94

Worse case mode: 802.11b Test channel: Lowest Remark: Average Horizontal
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Condition: 3m HORIZONTAL

Job No : 00879RG

Mode : 2412 Band edge

: 2.4G WIFI 11B

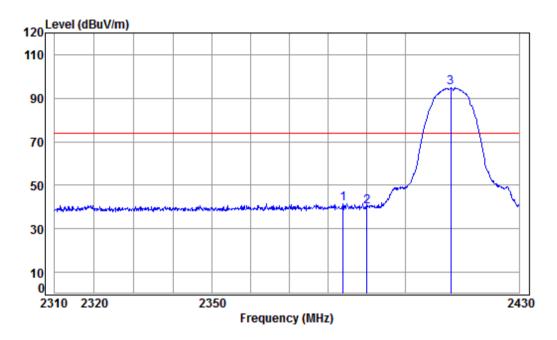
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
							•		
1	2382.596	5.46	29.06	41.87	40.89	33.54	54.00	-20.46	Average
2	2390.000	5.47	29.08	41.87	38.63	31.31	54.00	-22.69	Average
3 рр	2412.000	5.50	29.14	41.88	97.39	90.15	54.00	36.15	Average



Report No.: SZEM180100087902

Page: 74 of 94

Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL Job No : 00879RG

Mode : 2412 Band edge

: 2.4G WIFI 11B

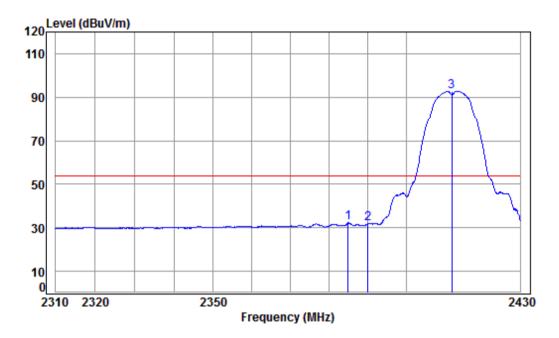
	Freq		Ant Factor						Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2383.803 2390.000 2412.000	5.47	29.08	41.87	47.60	40.28	74.00	-33.72	Peak



Report No.: SZEM180100087902

Page: 75 of 94

Worse case mode:	802.11b	Test channel:	Highest	Remark:	Average	Vertical
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Condition: 3m VERTICAL Job No : 00879RG

Mode : 2412 Band edge

: 2.4G WIFI 11B

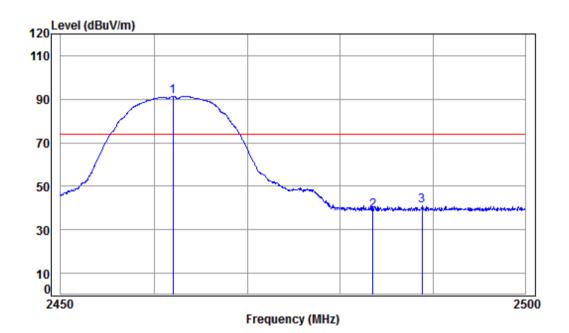
			_								
		Freq					Level			Remark	
	-	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB		_
		2384.890								_	
2		2390.000	5.47	29.08	41.87	39.21	31.89	54.00	-22.11	Average	
3	pp	2412.000	5.50	29.14	41.88	100.07	92.83	54.00	38.83	Average	



Report No.: SZEM180100087902

Page: 76 of 94

Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Horizontal
	00-11					



Condition: 3m HORIZONTAL

Job No : 00879RG

Mode : 2462 Band edge

: 2.4G WIFI 11B

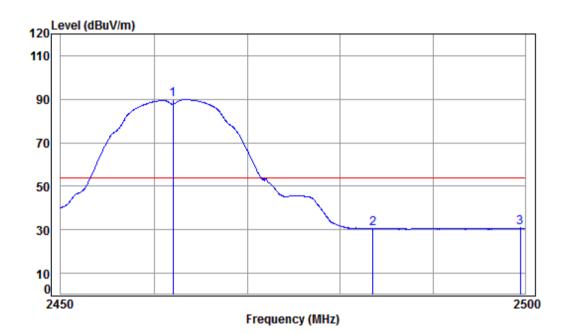
				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	5.57	29.29	41.90	98.35	91.31	74.00	17.31	peak
2	2483.500	5.60	29.35	41.91	45.71	38.75	74.00	-35.25	peak
3	2488.813	5.61	29.37	41.91	47.85	40.92	74.00	-33.08	peak



Report No.: SZEM180100087902

Page: 77 of 94

Worse case mode:	802.11b	Test channel:	Highest	Remark:	Average	Horizontal
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Condition: 3m HORIZONTAL

Job No : 00879RG

1 2

Mode : 2462 Band edge

: 2.4G WIFI 11B

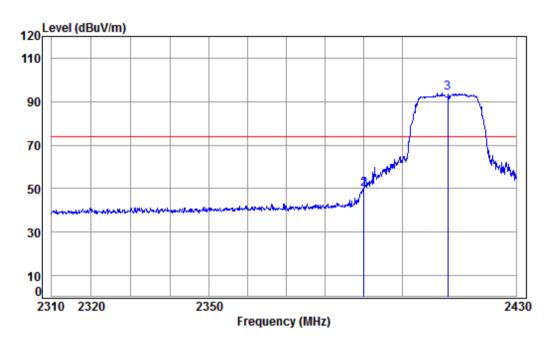
	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
рр	2462.000	5.57	29.29	41.90	96.83	89.79	54.00	35.79	Average
	2483.500	5.60	29.35	41.91	37.45	30.49	54.00	-23.51	Average
	2499.495	5.62	29.40	41.92	37.70	30.80	54.00	-23.20	Average



Report No.: SZEM180100087902

Page: 78 of 94

Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No : 00879RG

Mode : 2412 Band edge

: 2.4G WIFI 11G

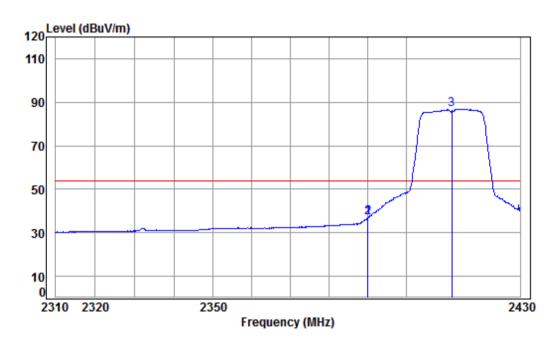
		Freq		Ant Factor						Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2389.968	5.47	29.08	41.87	57.04	49.72	74.00	-24.28	Peak
2		2390.000	5.47	29.08	41.87	57.04	49.72	74.00	-24.28	Peak
3	pp	2412.000	5.50	29.14	41.88	101.43	94.19	74.00	20.19	Peak



Report No.: SZEM180100087902

79 of 94 Page:

Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Average	Vertical
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Condition: 3m VERTICAL Job No : 00879RG

Mode : 2412 Band edge

: 2.4G WIFI 11G

: 11.5

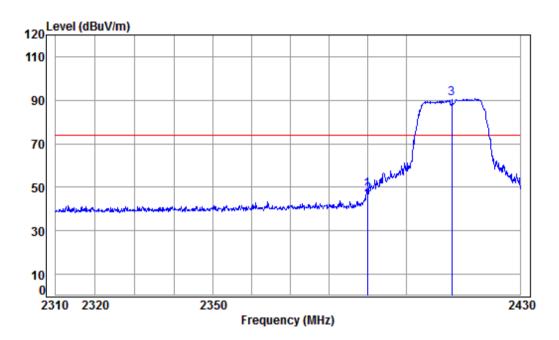
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.968	5.47	29.08	41.87	44.23	36.91	54.00	-17.09	Average	
2	2390.000	5.47	29.08	41.87	44.23	36.91	54.00	-17.09	Average	
3	pp 2412.000	5.50	29.14	41.88	93.96	86.72	54.00	32.72	Average	



Report No.: SZEM180100087902

Page: 80 of 94

Worse case mode:	802.11a	Test channel:	Lowest	Remark:	Peak	Horizontal
	9					



Condition: 3m HORIZONTAL

Job No : 00879RG

Mode : 2412 Band edge

: 2.4G WIFI 11G

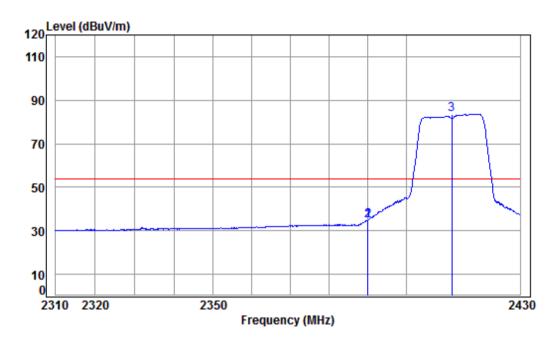
				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.847	5.47	29.08	41.87	56.37	49.05	74.00	-24.95	peak
2	2390.000	5.47	29.08	41.87	54.05	46.73	74.00	-27.27	peak
3	pp 2412.000	5.50	29.14	41.88	97.84	90.60	74.00	16.60	peak



Report No.: SZEM180100087902

Page: 81 of 94

Worse case mode:	802.11a	Test channel:	Lowest	Remark:	Average	Horizontal



Condition: 3m HORIZONTAL

Job No : 00879RG

Mode : 2412 Band edge

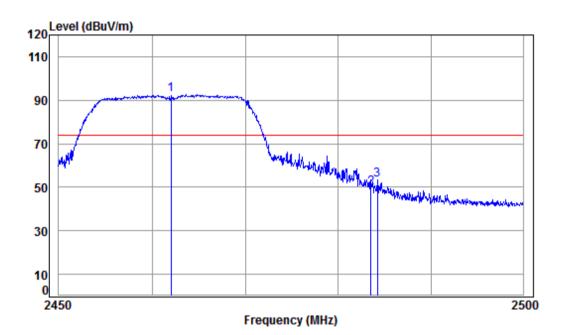
: 2.4G WIFI 11G

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2389.968	5.47	29.08	41.87	42.06	34.74	54.00	-19.26	Average
2		2390.000	5.47	29.08	41.87	42.06	34.74	54.00	-19.26	Average
3	pp	2412.000	5.50	29.14	41.88	90.81	83.57	54.00	29.57	Average



Report No.: SZEM180100087902

Page: 82 of 94



Condition: 3m VERTICAL

Job No : 00879RG

Mode : 2462 Band edge

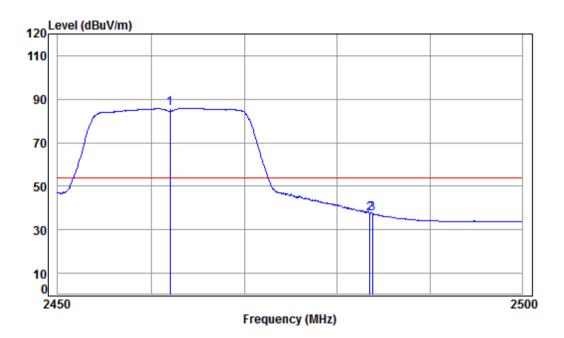
: 2.4G WIFI 11G

		_							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	5.57	29.29	41.90	99.51	92.47	74.00	18.47	Peak
2	2483.500	5.60	29.35	41.91	56.54	49.58	74.00	-24.42	Peak
3	2484.191	5.60	29.35	41.91	60.57	53.61	74.00	-20.39	Peak



Report No.: SZEM180100087902

Page: 83 of 94



Condition: 3m VERTICAL

Job No : 00879RG

Mode : 2462 Band edge

: 2.4G WIFI 11G

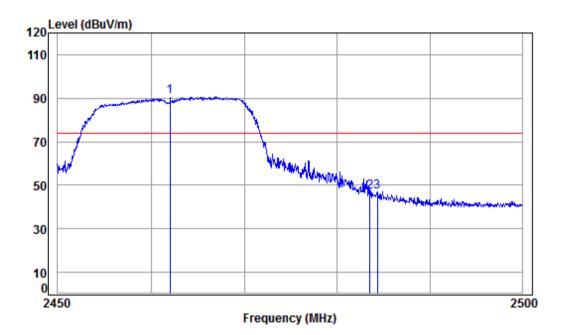
					Preamp					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2462.000								_
2		2483.500	5.60	29.35	41.91	44.42	37.46	54.00	-16.54	Average
3		2483.790	5.60	29.35	41.91	44.57	37.61	54.00	-16.39	Average



Report No.: SZEM180100087902

Page: 84 of 94

Worse case mode: 802.11g Test channel: Highest Remark: Peak Horizonta



Condition: 3m HORIZONTAL

Job No : 00879RG

Mode : 2462 Band edge

: 2.4G WIFI 11G

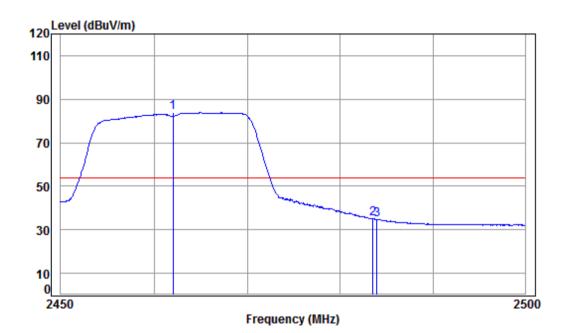
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	2462.000	5.57	29.29	41.90	97.68	90.64	74.00	16.64	peak
2		2483.500	5.60	29.35	41.91	53.97	47.01	74.00	-26.99	peak
3		2484.292	5.60	29.35	41.91	54.15	47.19	74.00	-26.81	peak



Report No.: SZEM180100087902

Page: 85 of 94

Worse case mode:	802.11g	Test channel:	Highest	Remark:	Average	Horizontal
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Condition: 3m HORIZONTAL

Job No : 00879RG

Mode : 2462 Band edge

: 2.4G WIFI 11G

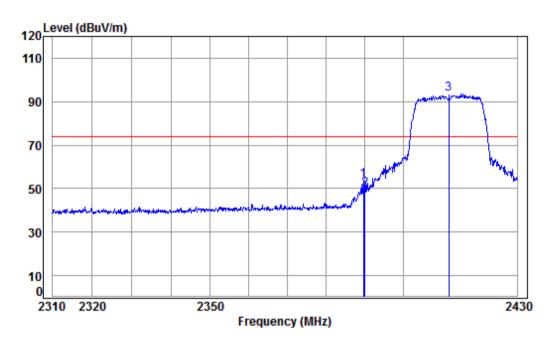
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
		2462.000 2483.500								_
3		2483.940	5.60	29.35	41.91	41.84	34.88	54.00	-19.12	Average



Report No.: SZEM180100087902

Page: 86 of 94

Worse case mode: 802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Vertical	l
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Condition: 3m VERTICAL

Job No : 00879RG

Mode : 2412 Band edge

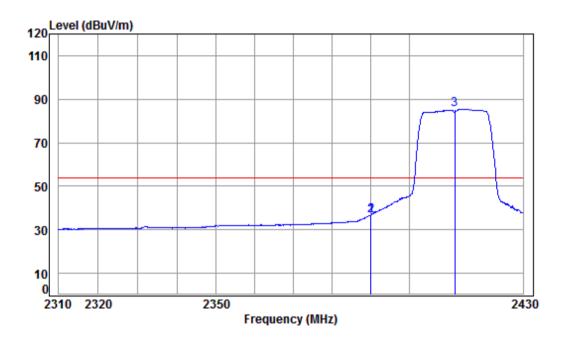
: 2.4G WIFI 11N 20

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2389.605	5.47	29.08	41.87	61.20	53.88	74.00	-20.12	Peak
2		2390.000	5.47	29.08	41.87	57.09	49.77	74.00	-24.23	Peak
3	pp	2412.000	5.50	29.14	41.88	101.00	93.76	74.00	19.76	Peak



Report No.: SZEM180100087902

Page: 87 of 94



Condition: 3m VERTICAL

Job No : 00879RG

Mode : 2412 Band edge

: 2.4G WIFI 11N 20

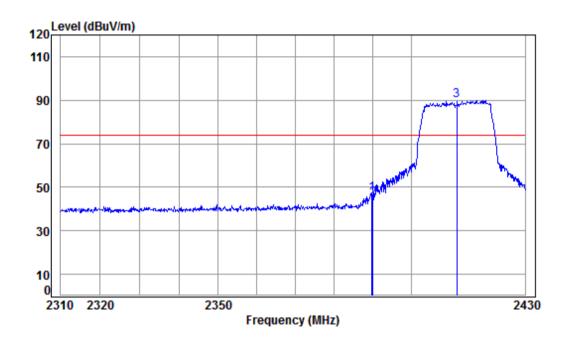
		Cablo	An+	Preamp	Road		Limit	Ovon	
	Freq			Factor					Remark
	MHz	dB		dB		dRuV/m	dRuV/m		
	11112	ub	ub/III	ub	ubuv	ubuv/III	ubuv/III	ub	
1	2389.968	5.47	29.08	41.87	43.98	36.66	54.00	-17.34	Average
2	2390.000	5.47	29.08	41.87	43.98	36.66	54.00	-17.34	Average
3	pp 2412.000	5.50	29.14	41.88	92.65	85.41	54.00	31.41	Average



Report No.: SZEM180100087902

Page: 88 of 94

Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Horizontal



Condition: 3m HORIZONTAL

Job No : 00879RG

Mode : 2412 Band edge

: 2.4G WIFI 11N 20

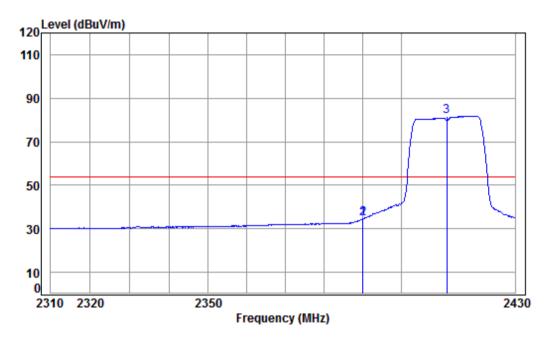
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2389.726	5.47	29.08	41.87	54.37	47.05	74.00	-26.95	peak
2		2390.000	5.47	29.08	41.87	51.91	44.59	74.00	-29.41	peak
3	pp	2412.000	5.50	29.14	41.88	97.08	89.84	74.00	15.84	peak



Report No.: SZEM180100087902

Page: 89 of 94

Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Horizontal	l
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Condition: 3m HORIZONTAL

Job No : 00879RG

Mode : 2412 Band edge

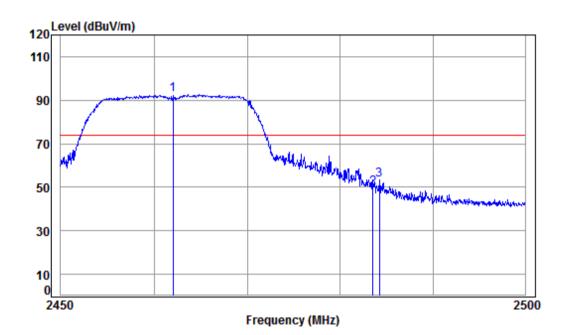
: 2.4G WIFI 11N 20

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.968 2390.000 2412.000	5.47	29.08	41.87	41.81	34.49	54.00	-19.51	Average



Report No.: SZEM180100087902

Page: 90 of 94



Condition: 3m VERTICAL

Job No : 00879RG

Mode : 2462 Band edge

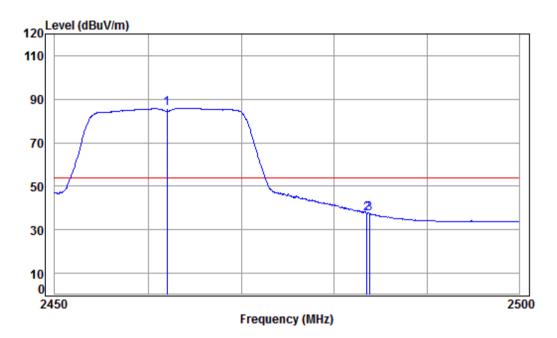
: 2.4G WIFI 11G

			_								
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	pp	2462.000	5.57	29.29	41.90	99.51	92.47	74.00	18.47	Peak	
2		2483.500	5.60	29.35	41.91	56.54	49.58	74.00	-24.42	Peak	
3		2484.191	5.60	29.35	41.91	60.57	53.61	74.00	-20.39	Peak	



Report No.: SZEM180100087902

Page: 91 of 94



Condition: 3m VERTICAL

Job No : 00879RG

Mode : 2462 Band edge

: 2.4G WIFI 11G

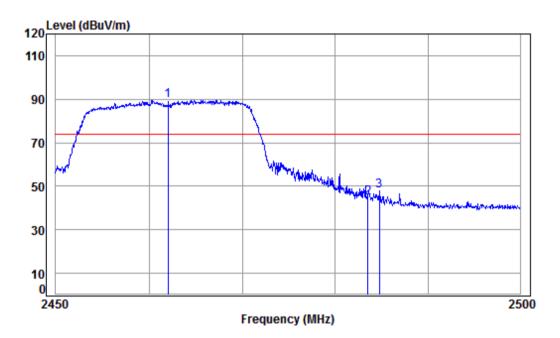
	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1 pp	2462.000	5.57	29.29	41.90	92.90	85.86	54.00	31.86	Average	
2	2483.500	5.60	29.35	41.91	44.42	37.46	54.00	-16.54	Average	
3	2483.790	5.60	29.35	41.91	44.57	37.61	54.00	-16.39	Average	



Report No.: SZEM180100087902

Page: 92 of 94

Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No : 00879RG

Mode : 2462 Band edge

: 2.4G WIFI 11N 20

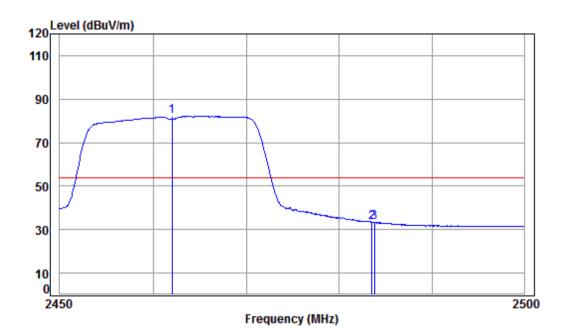
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	2462.000	5.57	29.29	41.90	96.59	89.55	74.00	15.55	peak
2		2483.500	5.60	29.35	41.91	51.90	44.94	74.00	-29.06	peak
3		2484.743	5.60	29.36	41.91	54.82	47.87	74.00	-26.13	peak



Report No.: SZEM180100087902

Page: 93 of 94

Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Average	Horizontal
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Condition: 3m HORIZONTAL

Job No : 00879RG

1

3

Mode : 2462 Band edge

: 2.4G WIFI 11N 20

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
pp	2462.000	5.57	29.29	41.90	89.15	82.11	54.00	28.11	Average	
	2483.500	5.60	29.35	41.91	40.29	33.33	54.00	-20.67	Average	
	2483.790	5.60	29.35	41.91	40.34	33.38	54.00	-20.62	Average	



Report No.: SZEM180100087902

Page: 94 of 94

Note:

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

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1801000879RG.