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Report No.: SZEM180700624402

Page: 1 of 115

FCC TEST REPORT

Application No: SZEM1807006244RG

Applicant: Huawei Technologies Co.,Ltd.

Address of Applicant Administration Building, Headquarters of Huawei Technologies Co., Ltd.,

Bantian, Longgang District, Shenzhen, 518129, P.R.C

Manufacturer: Huawei Technologies Co.,Ltd.

Address of Manufacturer Administration Building, Headquarters of Huawei Technologies Co., Ltd.,

Bantian, Longgang District, Shenzhen, 518129, P.R.C

Product Name: Tablet

Model No.(EUT): AGS2-W19
Trade Mark: HUAWEI

FCC ID: QISAGS2-W19

Standards: 47 CFR Part 15, Subpart C

Test Method KDB 558074 D01 DTS Meas Guidance v04

ANSI C63.10 (2013)

Date of Receipt: 2018-07-10

Date of Test: 2018-07-11 to 2018-07-23

Date of Issue: 2018-07-23

Test Result: PASS *

Authorized Signature:

Derek Yang

Derde 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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^{. *} In the configuration tested, the EUT complied with the standards specified above.



Report No.: SZEM180700624402

Page: 2 of 115

2 Version

Revision Record							
Version Chapter Date Modifier Remark							
01		2018-07-23		Original			

Authorized for issue by:		
Tested By	Mike Uu (Mike Hu) /Project Engineer	2018-07-23 Date
Checked By	David Chen (David Chen) /Reviewer	2018-07-23 Date



Report No.: SZEM180700624402

Page: 3 of 115

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 Emissions	47 CFR Part 15, Subpart C Section 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.: SZEM180700624402

Page: 4 of 115

Contents

	raye
1 COVER PAGE	1
2 VERSION	2
3 TEST SUMMARY	3
CONTENTS	4
4 GENERAL INFORMATION	5
4.1 CLIENT INFORMATION	5
4.2 GENERAL DESCRIPTION OF EUT	
4.3 TEST ENVIRONMENT AND MODE	
4.4 DESCRIPTION OF SUPPORT UNITS	
4.5 TEST LOCATION	
4.6 Test Facility	
4.7 DEVIATION FROM STANDARDS	
4.8 ABNORMALITIES FROM STANDARD CONDITIONS	
4.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER	
4.10 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, F 4.11 EQUIPMENT LIST	
5 TEST RESULTS AND MEASUREMENT DATA	
5.1 Antenna Requirement	
5.2 CONDUCTED EMISSIONS	
5.3 DUTY CYCLE	_
5.3.1 Part I - Test Results	
5.3.2 Part II - Test Plots	
5.4 CONDUCTED PEAK OUTPUT POWER	
5.5 6DB EMISSION BANDWIDTH	
5.6 POWER SPECTRAL DENSITY	
5.7 BAND-EDGE FOR RF CONDUCTED EMISSIONS	
5.8 RF CONDUCTED SPURIOUS EMISSIONS	
5.9 RADIATED SPURIOUS EMISSIONS	
5.9.1 Radiated emission below 1GHz	
5.9.2 Transmitter emission above 1GHz	
5.10 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	81
6 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	



Report No.: SZEM180700624402

Page: 5 of 115

4 General Information

4.1 Client Information

Applicant:	Huawei Technologies Co.,Ltd.
Address of Applicant:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Manufacturer:	Huawei Technologies Co.,Ltd.
Address of Manufacturer:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian Longgang District, Shenzhen, 518129, P.R.C

4.2 General Description of EUT

TIE OCHOIGH DCSO				
Product Name:	Tablet			
Model No.:	AGS2-W19			
Trade Mark:	HUAWEI			
Hardware Version:	A6t6e			
Software Version:	AGS2-W19 8.0.0.11 (C605)			
Operation Fraguency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz			
Operation Frequency:	IEEE 802.11n(HT40): 2422MHz to 2452MHz			
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels			
Charline 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)			
Type of Modulation.	IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,			
	QPSK,BPSK)			
Sample Type:	Portable Device			
Antenna Type:	PIFA			
Antenna Gain:	0.1dBi			
	Battery Model: HB2899C0ECW-C			
	Rated capacity: 4980mAh			
Power Supply	Nominal Voltage: +3.82V			
	Charging Voltage: +4.40V			
	Model: HW-050100U01			
AC adaptor:	Input: 100-240V ~50/60Hz 0.2A			
	Output: 5V === 1A			



Report No.: SZEM180700624402

Page: 6 of 115

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		
Operation	Frequency eac	h of channe	el (802.11n HT	40)			
Channel	Frequency	Channel	Frequency	Channel	Frequency		
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

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 for 802.11b/g/n (HT20)	Frequency for 802.11n (HT40)		
The Lowest channel	2412MHz	2422MHz		
The Middle channel	2437MHz	2437MHz		
The Highest channel	2462MHz	2452MHz		



Report No.: SZEM180700624402

Page: 7 of 115

4.3 Test Environment and Mode

Operating Environment:				
Temperature:	25.0 °C			
Humidity:	50 % RH			
Atmospheric Pressure:	101.30 KPa			
Test mode:				
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.			

4.4 Description of Support Units

The EUT has been tested independent unit.

4.5 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.

4.6 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 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 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.: SZEM180700624402

Page: 8 of 115

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.

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

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



Report No.: SZEM180700624402

Page: 9 of 115

4.11 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	2018/3/10	2019/3/9	
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2017/10/9	2018/10/9	
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2018/2/14	2019/2/13	
4	8 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T8- 02	EMC0120	2017/9/28	2018/9/28	
5	4 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T4- 02	EMC0121	2017/9/28	2018/9/28	
6	2 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T2- 02	EMC0122	2017/9/28	2018/9/28	
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018/2/14	2019/2/13	
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017/10/9	2018/10/9	

	RF conducted 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	2018/3/13	2019/3/12	
3	Signal Generator	Rohde &Schwarz	SML03	SEM006-02	2018/2/14	2019/2/13	
4	Power Meter	Rohde &Schwarz	NRVS	SEM014-02	2017/10/9	2018/10/9	
5	Power Sensor	Agilent Technologies	U2021XA	SEM009-01	2017/10/9	2018/10/9	



Report No.: SZEM180700624402

Page: 10 of 115

	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	2018/3/10	2019/3/9		
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2017/10/9	2018/10/9		
3	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/11/1	2020/11/1		
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	2018/2/14	2019/2/13		
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A		
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017/10/9	2018/10/9		
9	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2018/3/10	2019/3/9		

	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	2018/3/10	2019/3/9	
2	EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2018/2/14	2019/2/13	
3	Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016/6/29	2019/6/29	
4	Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2018/6/18	2019/6/17	
5	.Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015/8/14	2018/8/14	



Report No.: SZEM180700624402

Page: 11 of 115

	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	2018/3/10	2019/3/9	
2	EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-09	2018/6/18	2019/6/17	
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	2017/10/9	2018/10/9	
5	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-10	2017/10/17	2018/10/17	
6	Pre-Amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP- 2640-50	SEM005-08	2018/3/14	2019/3/14	
7	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/5/14	2020/5/13	
8	Horn Antenna (18-26GHz)	ETS-Lindgren	3160	SEM003-12	2017/11/24	2020/11/24	
9	HornAntenna (26GHz-40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2017/10/17	2020/10/16	
10	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2017/10/9	2018/10/9	
11	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A	



Report No.: SZEM180700624402

Page: 12 of 115

5 Test results and Measurement Data

5.1 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 0.1dBi.



Report No.: SZEM180700624402

Page: 13 of 115

5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10: 2013			
Test Frequency Range:	150kHz to 30MHz			
	Fraguency range (MHz)	Limi	t (dBuV)	
	Frequency range (MHz)	Quasi-peak	Average	
Limit:	0.15-0.5	66 to 56*	56 to 46*	
Lillit.	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the logarithn	n of the frequency.		
Test Procedure:	 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 			
Test Setup:	ANSI C63.10: 2013 on conducted measurement. Shielding Room Test Receiver LISN2 AC Mains Ground Reference Plane			

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Report No.: SZEM180700624402

Page: 14 of 115

Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
	Charge + Transmitting mode.
Final Took Made	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

Note1: Mode C=Telecom Idle+BT+WLAN 2.4G+GPS Rx+earphone+playing MP4+battery+adapter1

Note2: Only the worse test data had been displayed.



Report No.: SZEM180700624402

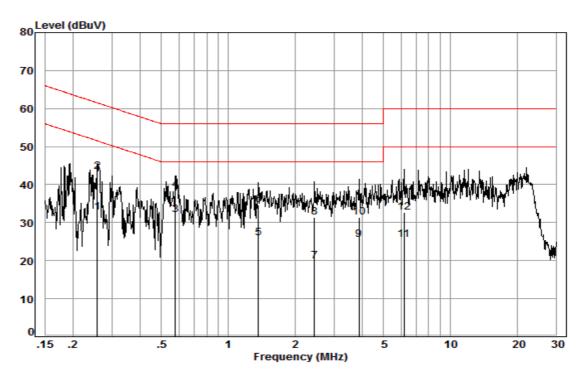
Page: 15 of 115

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. : 06244RG

Test mode: c

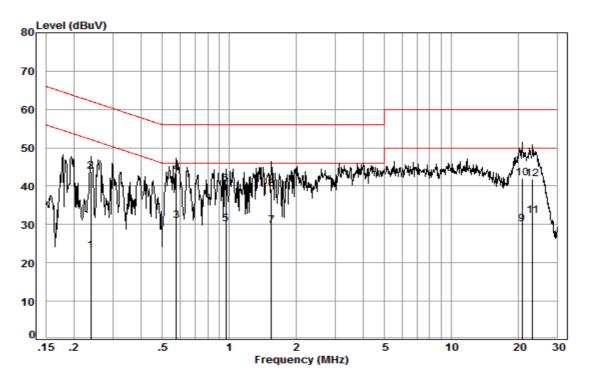
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.26	0.03	9.51	23.10	32.64	51.51	-18.87	Average
2	0.26	0.03	9.51	33.75	43.29	61.51	-18.22	QP
3	0.58	0.05	9.52	22.41	31.98	46.00	-14.02	Average
4	0.58	0.05	9.52	28.91	38.48	56.00	-17.52	QP
5	1.37	0.12	9.51	16.23	25.86	46.00	-20.14	Average
6	1.37	0.12	9.51	25.13	34.76	56.00	-21.24	QP
7	2.45	0.17	9.52	10.05	19.74	46.00	-26.26	Average
8	2.45	0.17	9.52	21.69	31.38	56.00	-24.62	QP
9	3.88	0.19	9.54	15.76	25.49	46.00	-20.51	Average
10	3.88	0.19	9.54	21.58	31.31	56.00	-24.69	QP
11	6.19	0.19	9.58	15.65	25.42	50.00	-24.58	Average
12	6.19	0.19	9.58	22.92	32.69	60.00	-27.31	QP



Report No.: SZEM180700624402

Page: 16 of 115

Neutral Line:



Site : Shielding Room

Condition: Neutral Job No. : 06244RG

Test mode: c

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.24	0.03	9.58	13.58	23.19	52.17	-28.98	Average
2	0.24	0.03	9.58	34.10	43.71	62.17	-18.46	QP
3	0.58	0.05	9.62	21.20	30.87	46.00	-15.13	Average
4	0.58	0.05	9.62	33.74	43.41	56.00	-12.59	QP
5	0.97	0.09	9.62	20.46	30.17	46.00	-15.83	Average
6	0.97	0.09	9.62	30.77	40.48	56.00	-15.52	QP
7	1.55	0.13	9.63	19.92	29.68	46.00	-16.32	Average
8	1.55	0.13	9.63	29.54	39.30	56.00	-16.70	QP
9	20.81	0.27	10.07	19.73	30.07	50.00	-19.93	Average
10	20.81	0.27	10.07	31.81	42.15	60.00	-17.85	QP
11	23.26	0.27	10.16	21.72	32.15	50.00	-17.85	Average
12	23.26	0.27	10.16	31.32	41.75	60.00	-18.25	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.



Report No.: SZEM180700624402

Page: 17 of 115

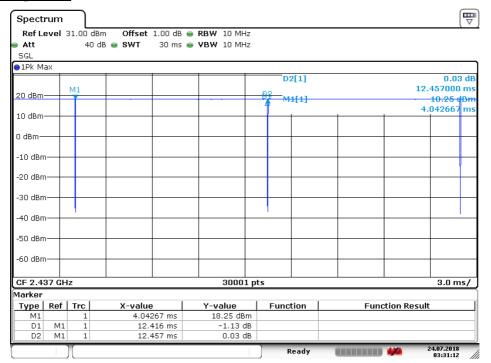
5.3 Duty Cycle

5.3.1 Part I - Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
11B	Ant 1: CH6	99
11G	Ant 1: CH6	97
11N_20	Ant 1: CH6	97
11N_40	Ant 1: CH6	95

5.3.2 Part II - Test Plots

5.3.2.1 11B @Ant 1



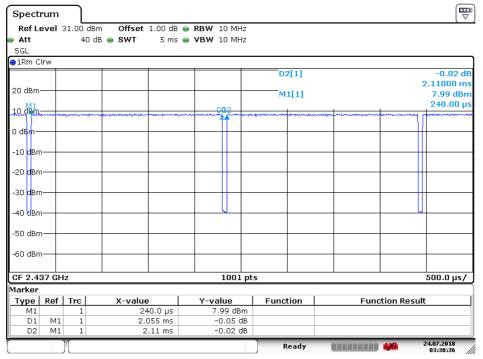
Date: 24 JUL.2018 03:31:12



Report No.: SZEM180700624402

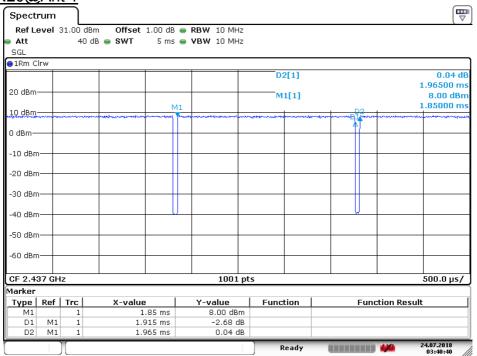
Page: 18 of 115

5.3.2.2 11G@Ant 1



Date: 24 JUL.2018 03:38:36

5.3.2.3 11N20@Ant 1



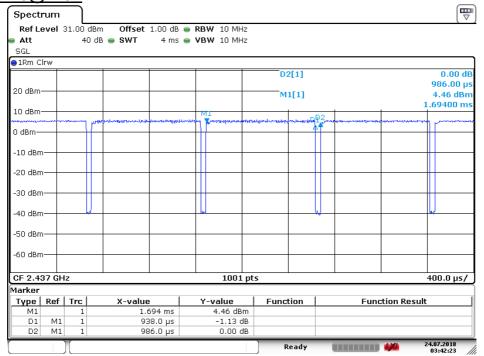
Date: 24 JUL 2018 03:40:40



Report No.: SZEM180700624402

Page: 19 of 115

5.3.2.4 11N40@Ant 1



Date: 24 JUL.2018 03:42:23



Report No.: SZEM180700624402

Page: 20 of 115

5.4 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)		
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3		
Test Setup:	POWER METER E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.10 for details		
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);13.5Mbps of rate is the worst case of 802.11n(HT40).		
Limit:	30dBm		
Test Results:	Pass		



Report No.: SZEM180700624402

Page: 21 of 115

Measurement Data

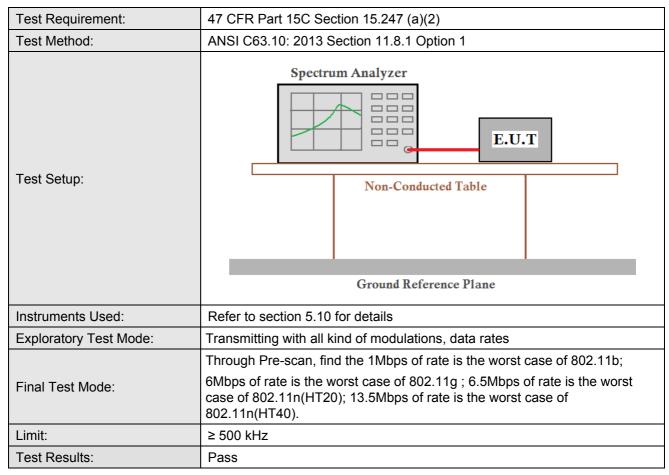
Measurement Data	Measurement Data				
	802.11b mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	18.24	30.00	Pass		
Middle	18.67	30.00	Pass		
Highest	18.78	30.00	Pass		
	802.11g mo	de			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	15.55	30.00	Pass		
Middle	15.95	30.00	Pass		
Highest	17.06	30.00	Pass		
	802.11n(HT20)	mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	15.73	30.00	Pass		
Middle	16.20	30.00	Pass		
Highest	16.10	30.00	Pass		
	802.11n(HT40)	mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	15.67	30.00	Pass		
Middle	15.90	30.00	Pass		
Highest	15.82	30.00	Pass		



Report No.: SZEM180700624402

Page: 22 of 115

5.5 6dB Emission Bandwidth





Report No.: SZEM180700624402

Page: 23 of 115

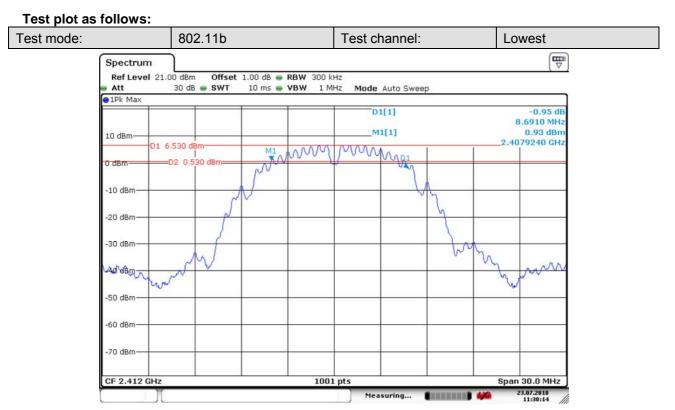
Measurement Data

Measurement Data						
	802.11b mode					
Test channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	8.69	≥500	Pass			
Middle	8.66	≥500	Pass			
Highest	8.69	≥500	Pass			
	802.11g mode					
Test channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	16.33	≥500	Pass			
Middle	16.51	≥500	Pass			
Highest	17.65	≥500	Pass			
	802.11n(HT20) mode					
Test channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	17.53	≥500	Pass			
Middle	17.62	≥500	Pass			
Highest	17.68	≥500	Pass			
	802.11n(HT40) mode					
Test channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	35.60	≥500	Pass			
Middle	35.84	≥500	Pass			
Highest	35.66	≥500	Pass			

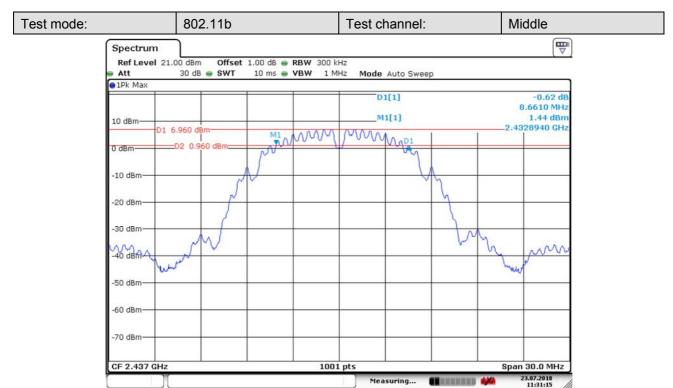


Report No.: SZEM180700624402

Page: 24 of 115



Date: 23.JUL.2018 11:30:14

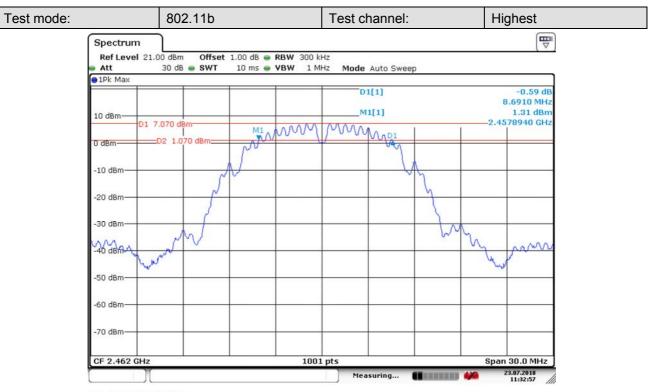


Date: 23.JUL.2018 11:31:15

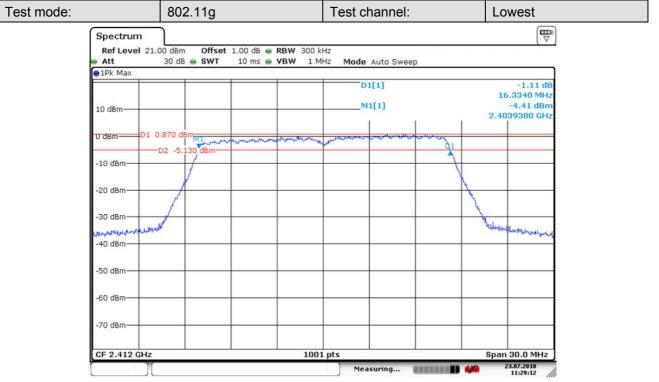


Report No.: SZEM180700624402

Page: 25 of 115





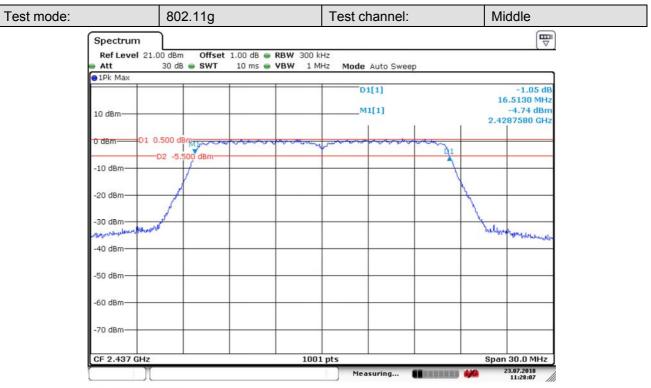


Date: 23.JUL.2018 11:29:12

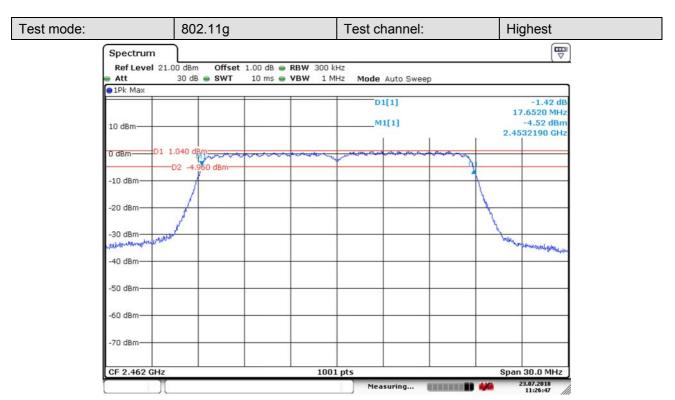


Report No.: SZEM180700624402

Page: 26 of 115



Date: 23.JUL.2018 11:28:07

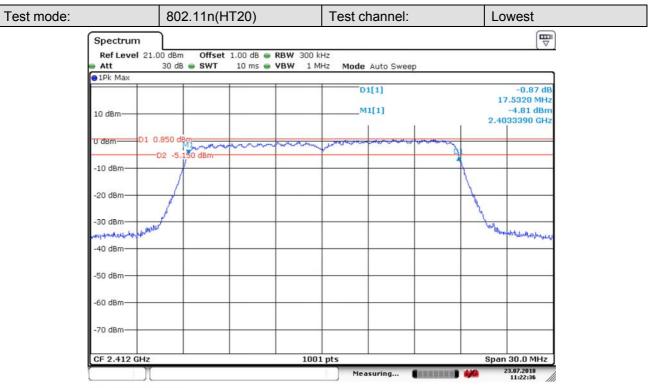


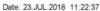
Date: 23.JUL.2018 11:26:47

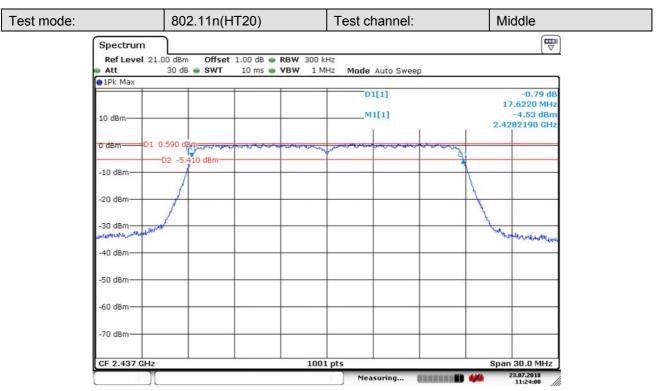


Report No.: SZEM180700624402

Page: 27 of 115





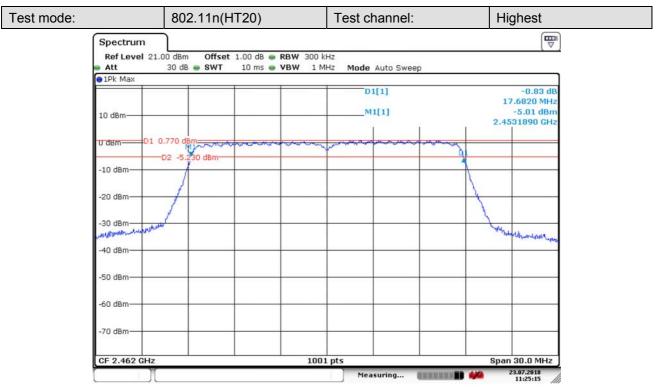


Date: 23.JUL.2018 11:23:59

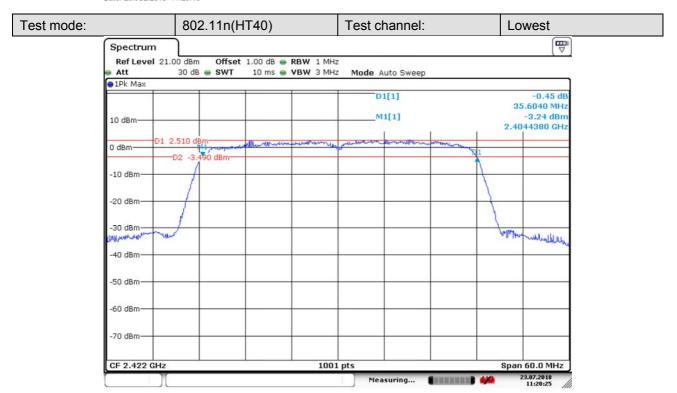


Report No.: SZEM180700624402

Page: 28 of 115



Date: 23.JUL.2018 11:25:15

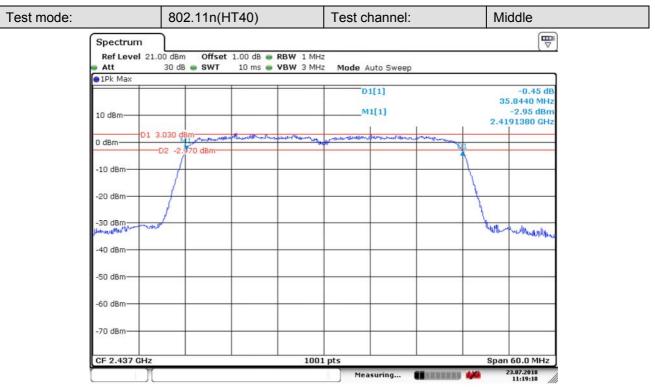


Date: 23.JUL.2018 11:20:25

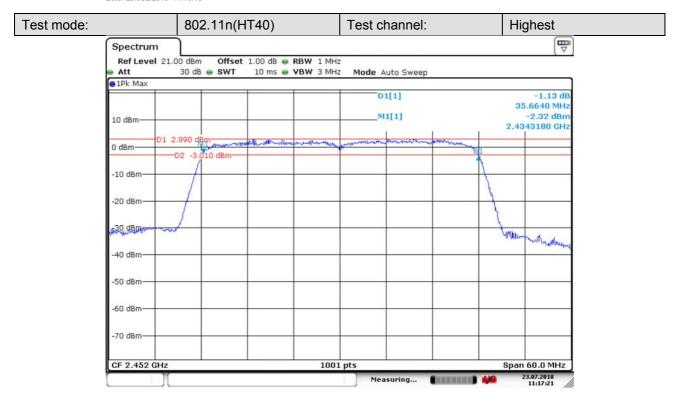


Report No.: SZEM180700624402

Page: 29 of 115







Date: 23.JUL.2018 11:17:21



Report No.: SZEM180700624402

Page: 30 of 115

5.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)		
Test Method:	ANSI C63.10 :2013 Section 11.10.2		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.10 for details		
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);13.5Mbps of rate is the worst case of 802.11n(HT40).		
Limit:	≤8.00dBm/3kHz		
Test Results:	Pass		



Report No.: SZEM180700624402

Page: 31 of 115

Measurement Data

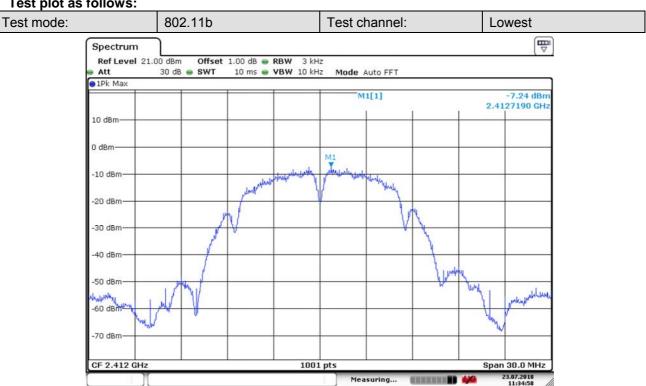
Measurement Data			
802.11b mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-7.24	≤8.00	Pass
Middle	-6.79	≤8.00	Pass
Highest	-6.72	≤8.00	Pass
802.11g mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-14.99	≤8.00	Pass
Middle	-14.68	≤8.00	Pass
Highest	-14.80	≤8.00	Pass
802.11n(HT20) mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-15.33	≤8.00	Pass
Middle	-14.71	≤8.00	Pass
Highest	-15.02	≤8.00	Pass
802.11n(HT40) mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-19.29	≤8.00	Pass
Middle	-19.07	≤8.00	Pass
Highest	-19.35	≤8.00	Pass



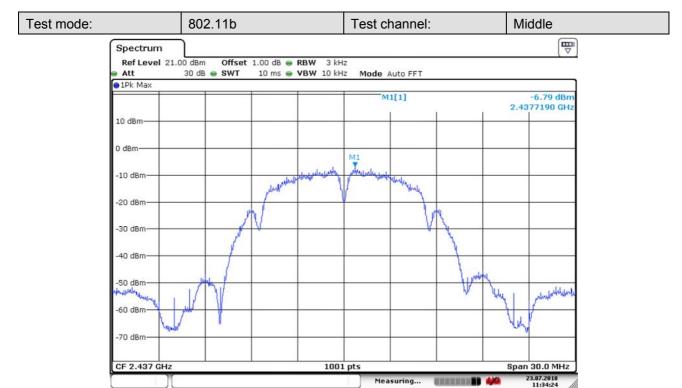
Report No.: SZEM180700624402

32 of 115 Page:

Test plot as follows:



Date: 23 JUL 2018 11:34:58

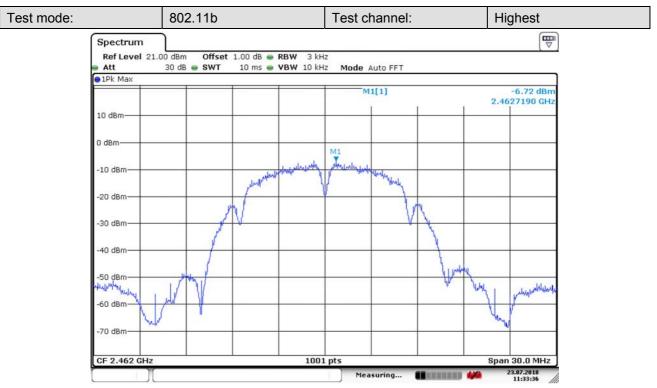


Date: 23.JUL.2018 11:34:25

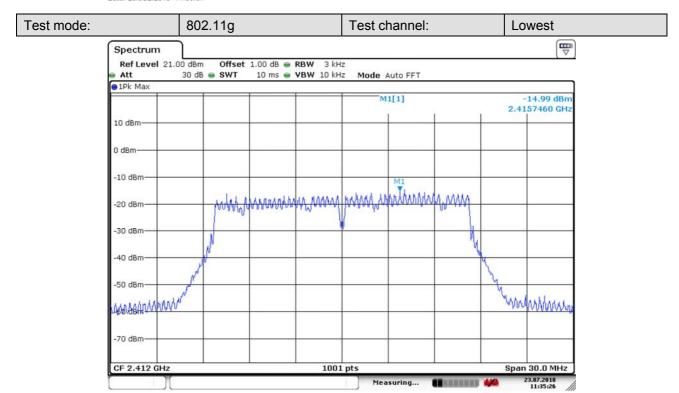


Report No.: SZEM180700624402

Page: 33 of 115





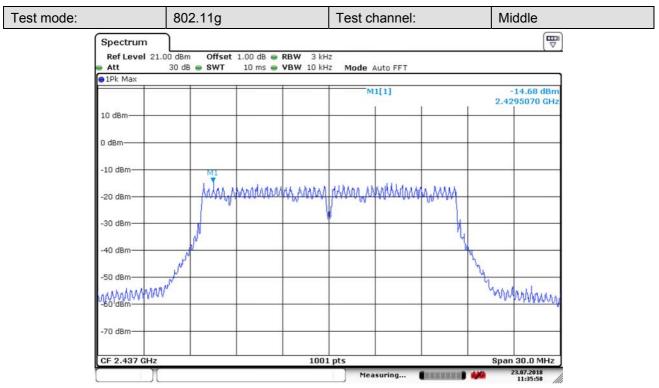


Date: 23.JUL.2018 11:35:26

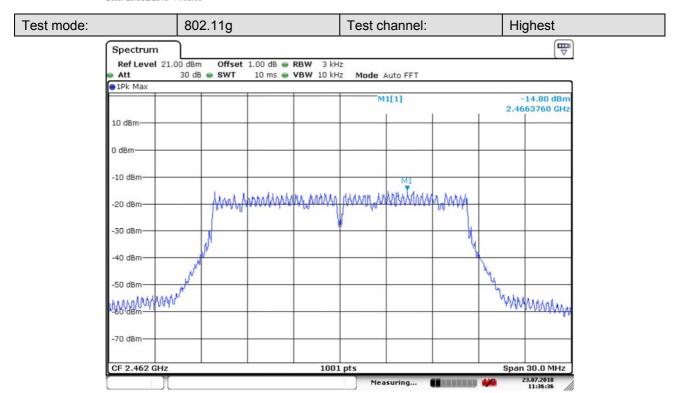


Report No.: SZEM180700624402

Page: 34 of 115





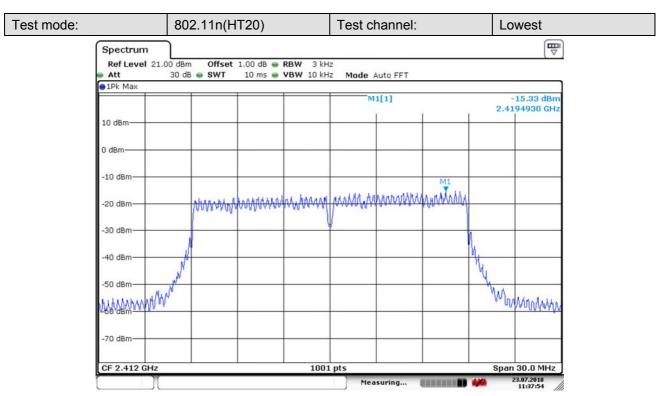


Date: 23.JUL.2018 11:36:36

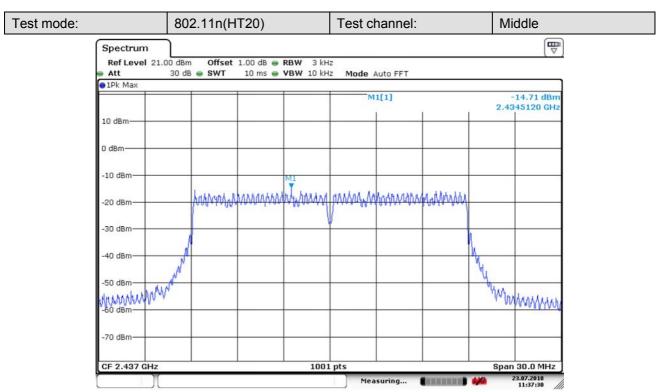


Report No.: SZEM180700624402

Page: 35 of 115



Date: 23.JUL.2018 11:37:54

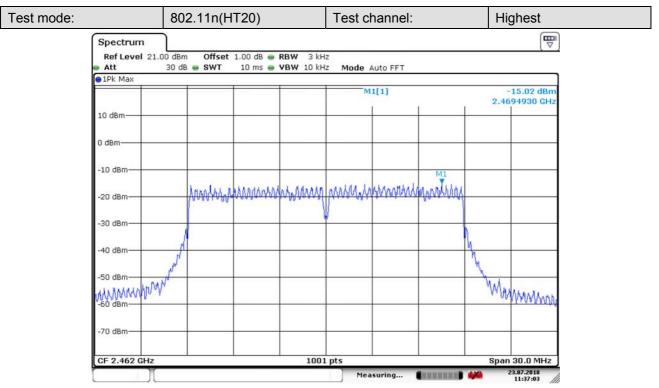


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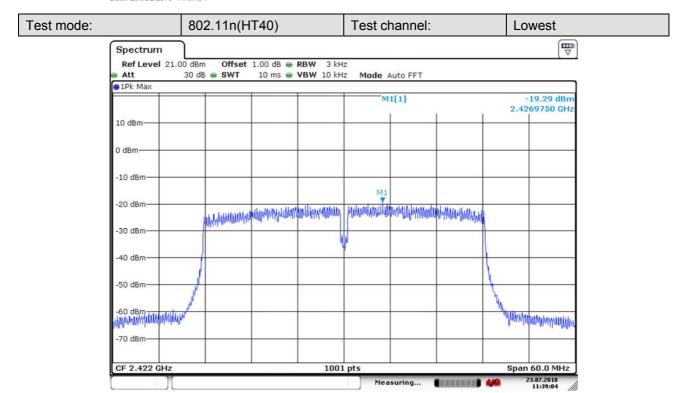


Report No.: SZEM180700624402

Page: 36 of 115





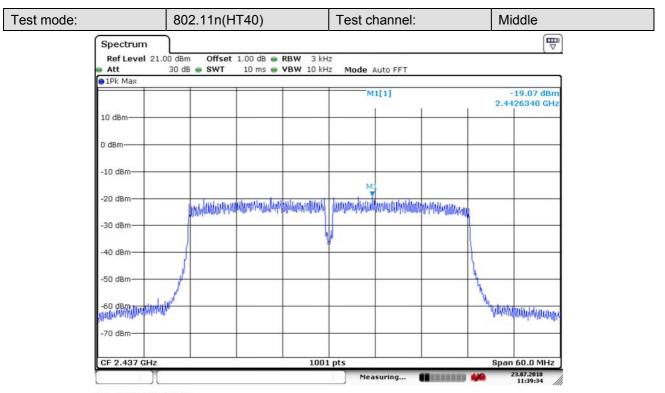


Date: 23.JUL.2018 11:39:04

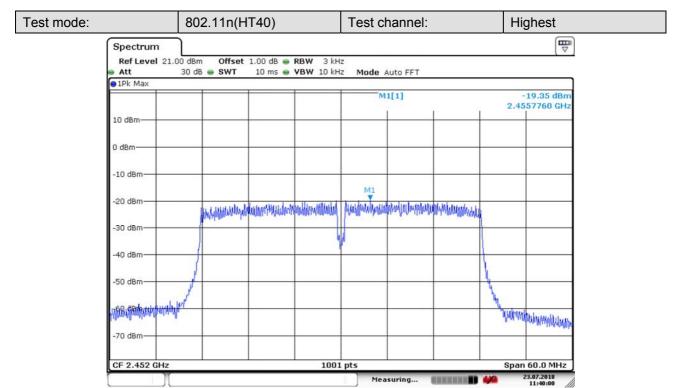


Report No.: SZEM180700624402

Page: 37 of 115



Date: 23.JUL.2018 11:39:35



Date: 23.JUL.2018 11:40:00



Report No.: SZEM180700624402

Page: 38 of 115

5.7 Band-edge for RF Conducted Emissions

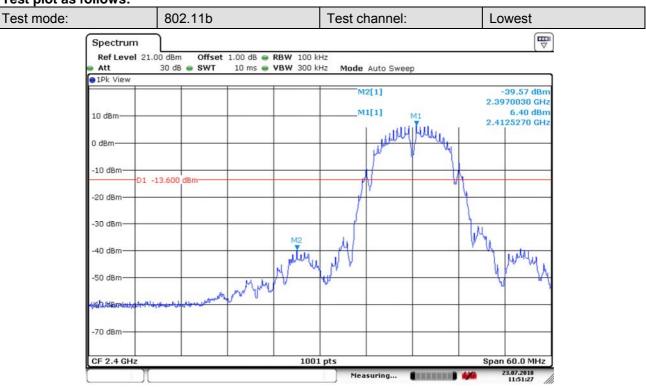
Test Requirement:	47 CFR Part 15C Section 15.247 (d)						
Test Method:	ANSI C63.10: 2013 Section 11.13						
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates						
Final Test Mode:	Through 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); 13.5Mbps of rate is the worst case of 802.11n(HT40).						
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						



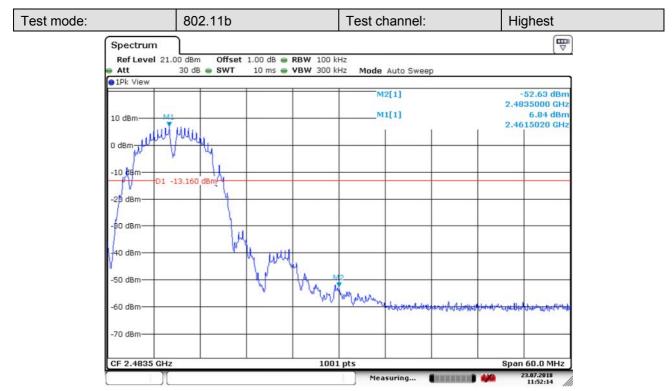
Report No.: SZEM180700624402

Page: 39 of 115

Test plot as follows:



Date: 23.JUL.2018 11:51:28

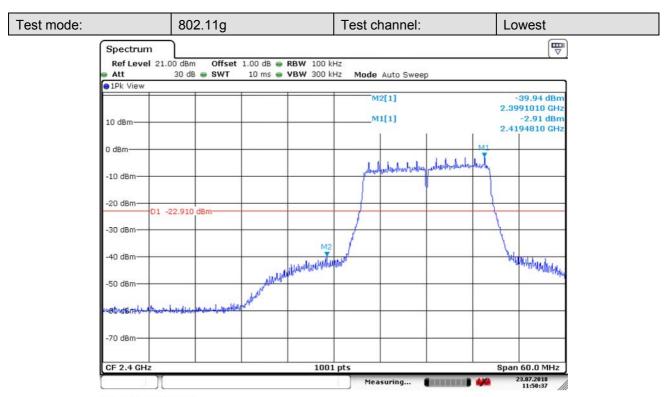


Date: 23.JUL.2018 11:52:14

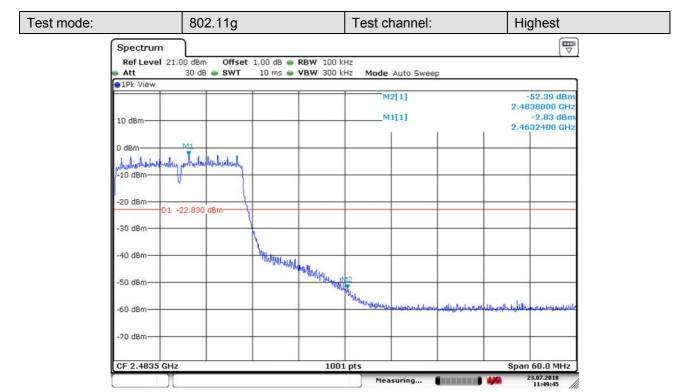


Report No.: SZEM180700624402

Page: 40 of 115





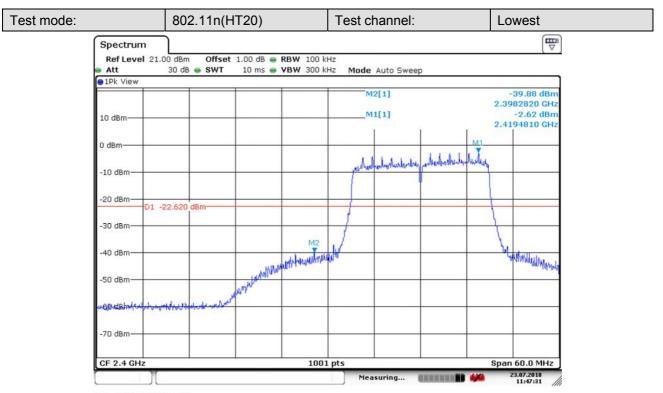


Date: 23.JUL.2018 11:49:45

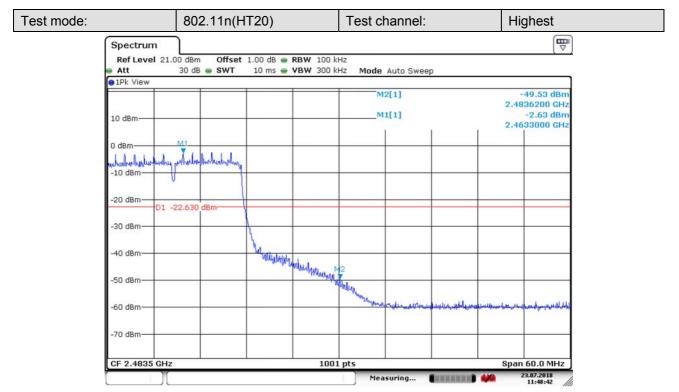


Report No.: SZEM180700624402

Page: 41 of 115



Date: 23.JUL.2018 11:47:31

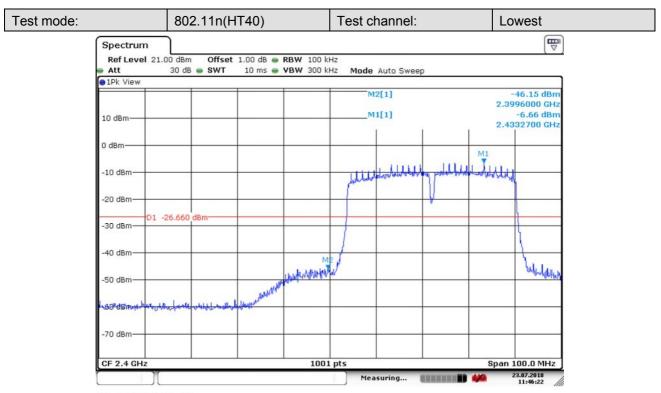


Date: 23.JUL.2018 11:48:43

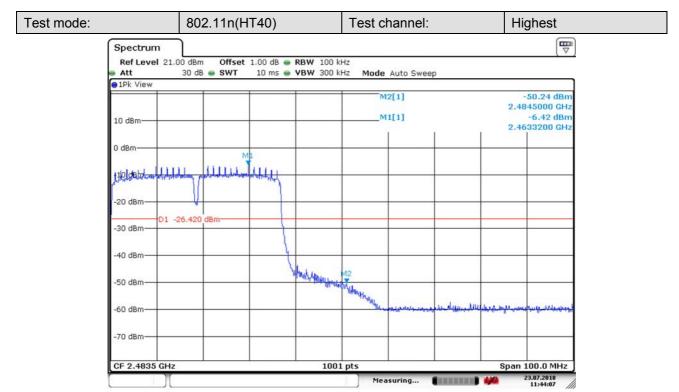


Report No.: SZEM180700624402

Page: 42 of 115







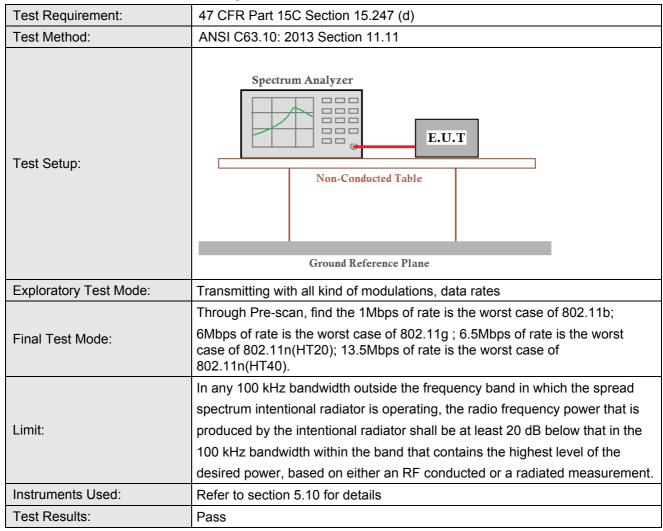
Date: 23.JUL.2018 11:44:08



Report No.: SZEM180700624402

Page: 43 of 115

5.8 RF Conducted Spurious Emissions



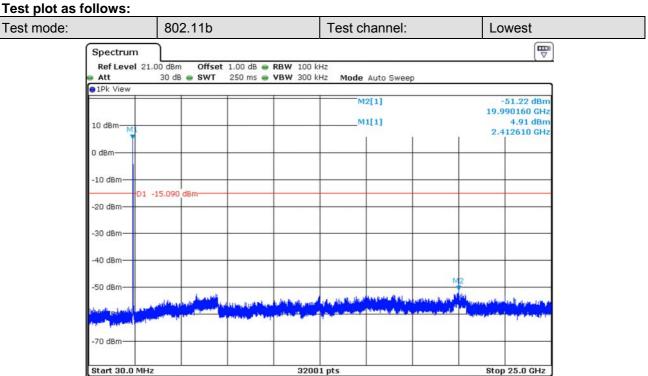


Report No.: SZEM180700624402

23.07.2018 11:56:29

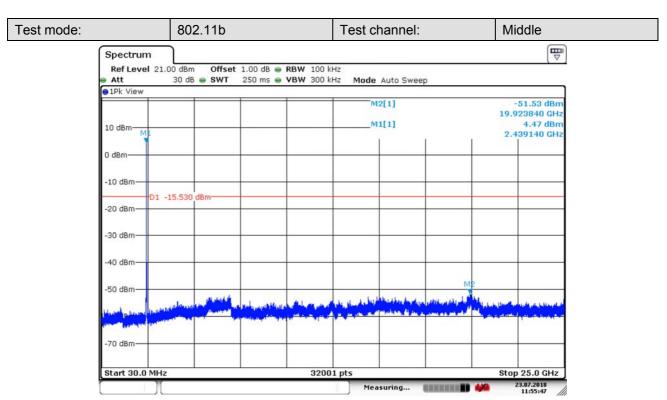
44 of 115 Page:

Test plot as follows:



Measuring...

Date: 23.JUL.2018 11:56:30

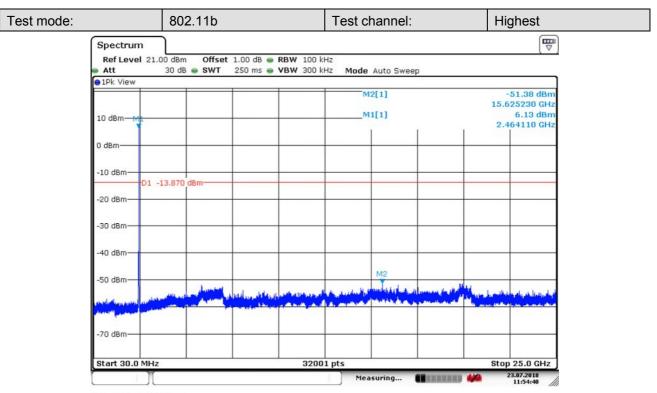


Date: 23.JUL.2018 11:55:47

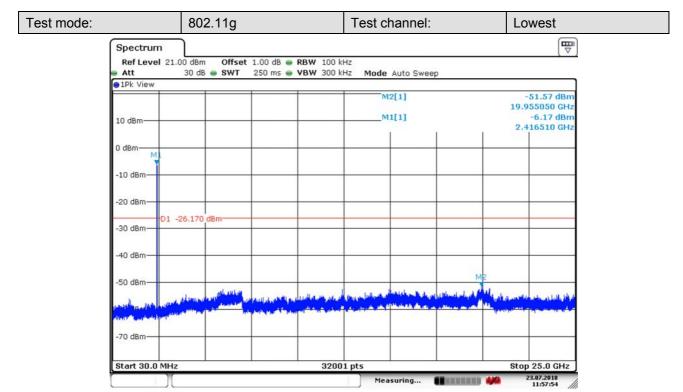


Report No.: SZEM180700624402

Page: 45 of 115



Date: 23.JUL.2018 11:54:40

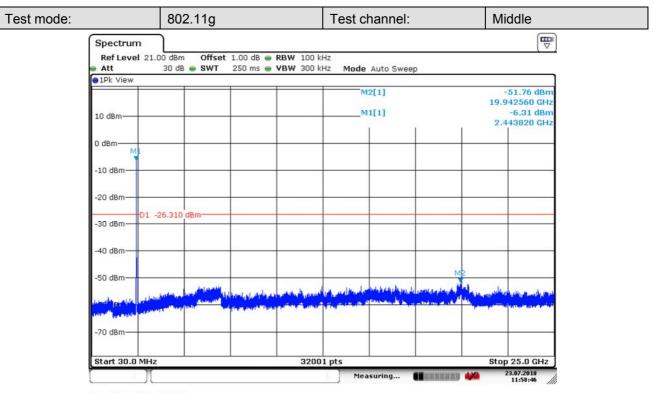


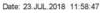
Date: 23.JUL.2018 11:57:54

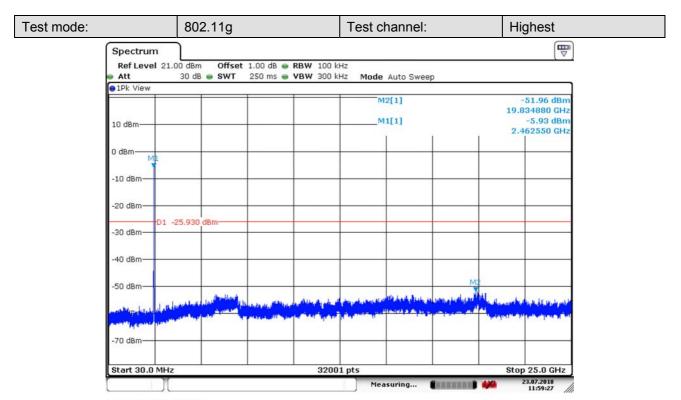


Report No.: SZEM180700624402

Page: 46 of 115





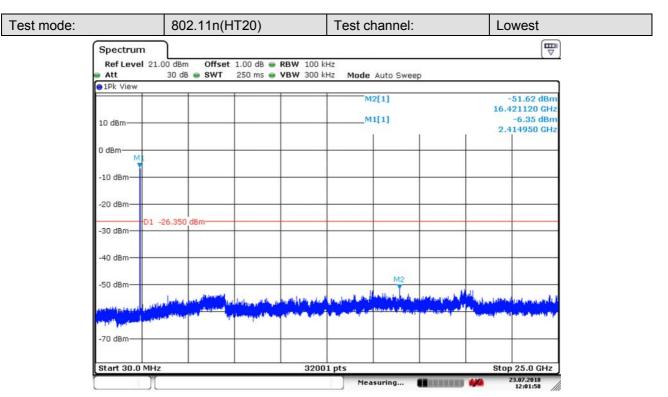


Date: 23.JUL.2018 11:59:27

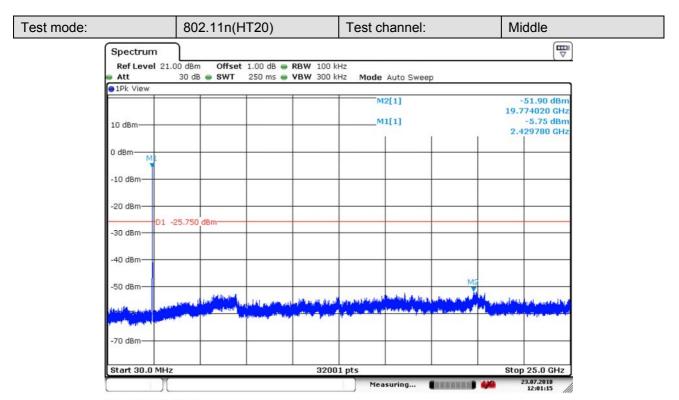


Report No.: SZEM180700624402

Page: 47 of 115



Date: 23.JUL.2018 12:01:59

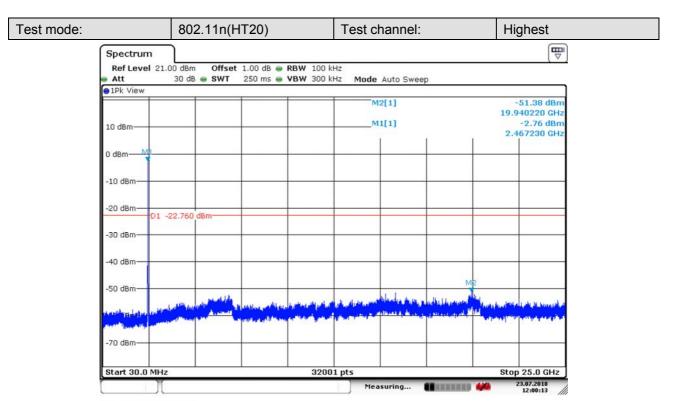


Date: 23.JUL.2018 12:01:16

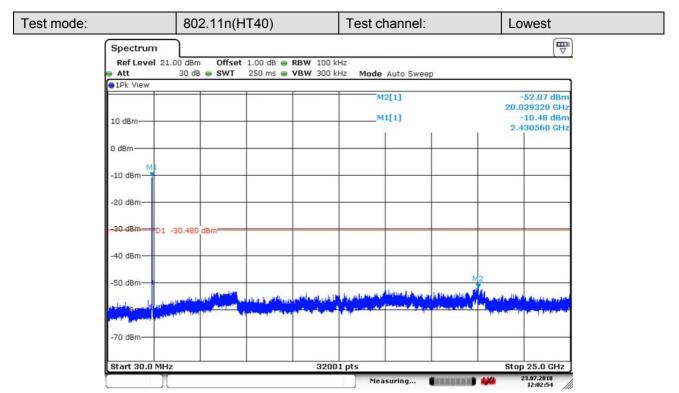


Report No.: SZEM180700624402

Page: 48 of 115



Date: 23.JUL.2018 12:00:13

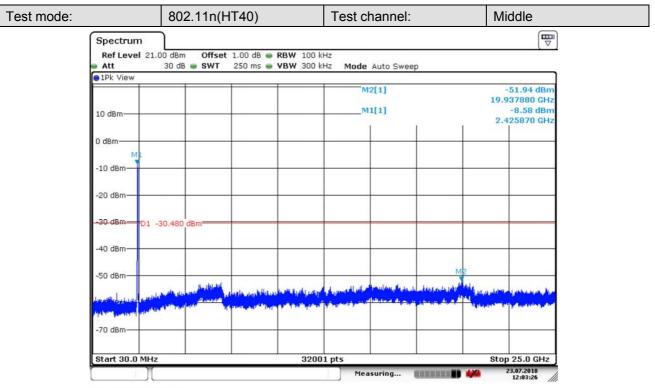


Date: 23.JUL.2018 12:02:54

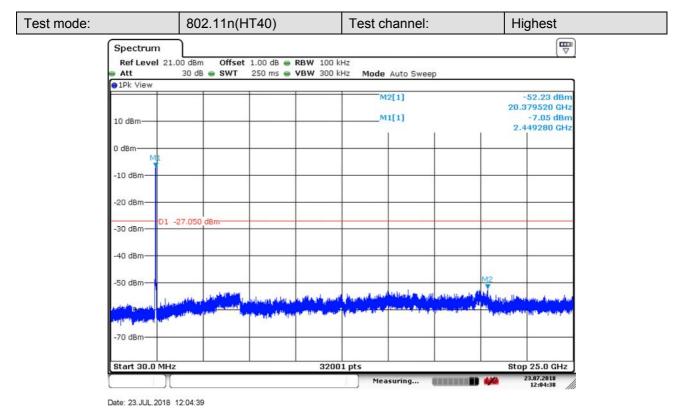


Report No.: SZEM180700624402

Page: 49 of 115



Date: 23.JUL.2018 12:03:27



Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz 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.

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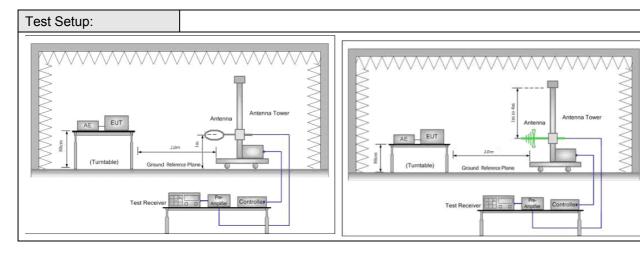


Report No.: SZEM180700624402

Page: 50 of 115

5.9 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	Peak	10kHz	30kHz	Peak				
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average				
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak				
Desciver Ceture	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak				
Receiver Setup:	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				
	Ab 2.12 4011-	Peak	1MHz	3MHz	Peak				
	Above 1GHz	Peak	1MHz	10Hz	Average				
	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measuremen t 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	otherwise specified	d, the limit on pea	k radio freque	ency				
	emissions is 20dB abov	ve the maximum pe	ermitted average	emission limit					
	applicable to the equ emission level radiated		. This peak lim	it applies to	the total peak				



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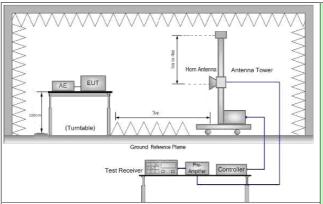


Report No.: SZEM180700624402

Page: 51 of 115

Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz



	Test receive Annual Controller
	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 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 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.



Report No.: SZEM180700624402

Page: 52 of 115

	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); 13.5Mbps of rate is the worst case of 802.11n(HT40)
	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.: SZEM180700624402

Page: 53 of 115

5.9.1 Radiated emission below 1GHz

Note1: Mode I= WiFi 2.4G RSE from 30MHz-1GHz

Note2: The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the

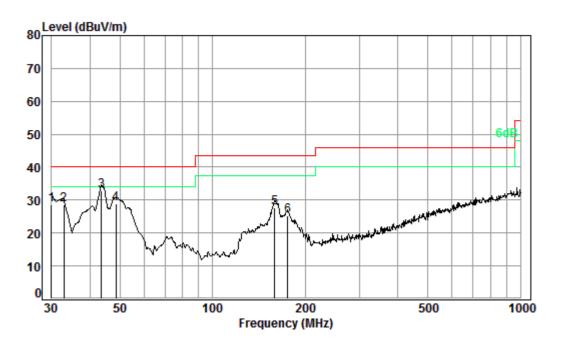
highest point could be found when testing, So only the worse test data had been displayed.



Report No.: SZEM180700624402

Page: 54 of 115

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



Condition: 3m VERTICAL Job No. : 06244RG

Test mode: 1

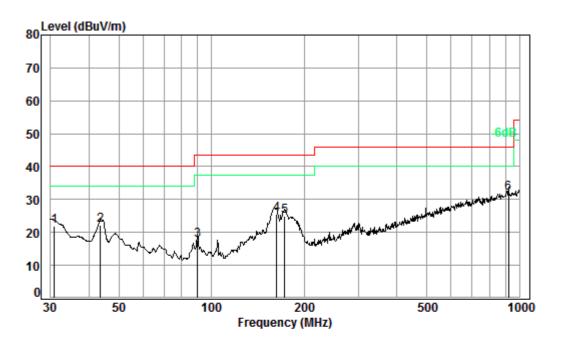
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.60	22.50	27.67	33.27	28.70	40.00	-11.30
2	32.86	0.60	20.92	27.66	34.64	28.50	40.00	-11.50
3 pp	43.51	0.68	16.26	27.62	43.40	32.72	40.00	-7.28
4	48.50	0.77	14.65	27.60	41.08	28.90	40.00	-11.10
5	159.23	1.33	15.43	27.52	38.47	27.71	43.50	-15.79
6	175.65	1.36	15.82	27.53	35.47	25.12	43.50	-18.38



Report No.: SZEM180700624402

Page: 55 of 115

Test mode:	Charge + Transmitting	Horizontal



Condition: 3m HORIZONTAL

Job No. : 06244RG

Test mode: 1

		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	30.85	0.60	22.01	27.67	26.90	21.84	40.00	-18.16
2	43.51	0.68	16.26	27.62	32.79	22.11	40.00	-17.89
3	90.22	1.10	13.12	27.51	30.81	17.52	43.50	-25.98
4	162.61	1.34	15.55	27.52	36.15	25.52	43.50	-17.98
5	172.60	1.36	15.76	27.52	35.49	25.09	43.50	-18.41
6 pp	922.52	3.62	29.92	27.00	25.30	31.84	46.00	-14.16

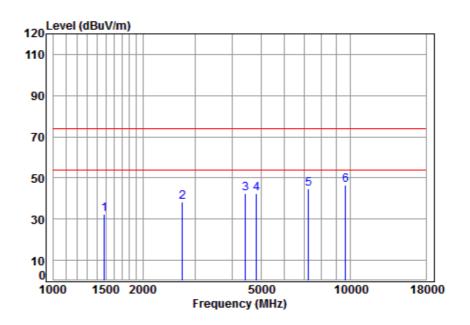


Report No.: SZEM180700624402

Page: 56 of 115

5.9.2 Transmitter emission above 1GHz

Test mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No : 6244RG Mode : 2412 RSE Note : 2.4G11B

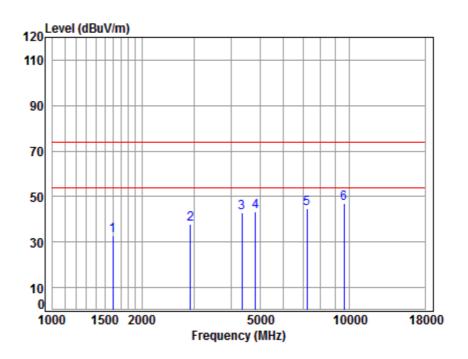
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1485.841	5.43	25.75	41.40	42.46	32.24	74.00	-41.76	peak
2		2718.469	5.79	29.71	42.00	44.88	38.38	74.00	-35.62	Peak
3		4430.628	7.48	33.48	42.41	44.08	42.63	74.00	-31.37	peak
4		4824.000	7.91	34.00	42.47	43.15	42.59	74.00	-31.41	peak
5		7236.000	10.07	36.09	40.69	39.02	44.49	74.00	-29.51	peak
6	pp	9648.000	10.77	37.69	37.68	35.60	46.38	74.00	-27.62	peak

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



Report No.: SZEM180700624402

Page: 57 of 115



Condition: 3m HORIZONTAL

Job No : 6244RG Mode : 2412 RSE Note : 2.4G11B

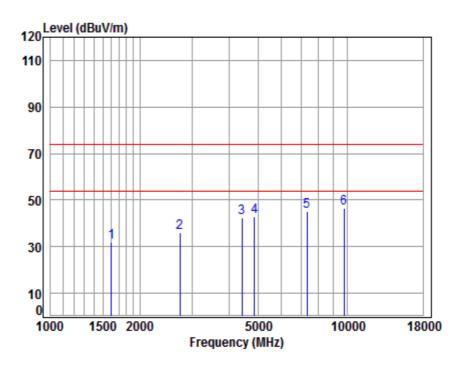
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	${\sf Factor}$	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4		4507 404	F 35	26.24	44 47	42.03	22.05	74.00	40.05	
1		1597.181	5.35	26.24	41.47	42.93	33.05	74.00	-40.95	реак
2		2913.740	5.92	30.55	42.07	43.42	37.82	74.00	-36.18	Peak
3		4354.454	7.40	33.35	42.39	44.46	42.82	74.00	-31.18	peak
4		4824.000	7.89	33.97	42.47	43.79	43.18	74.00	-30.82	peak
5		7206.000	10.08	36.07	40.71	39.07	44.51	74.00	-29.49	peak
6	pp	9608.000	10.75	37.67	37.74	36.18	46.86	74.00	-27.14	peak

Test mode:	802.11b	Test channel:	Middle	Remark:	Peak	Vertical
10001110000	0020	1 001 0110111011	·····aa.o		· oan	v or trour



Report No.: SZEM180700624402

Page: 58 of 115



Condition: 3m VERTICAL

Job No : 6244RG Mode : 2437 RSE Note : 2.4G11B

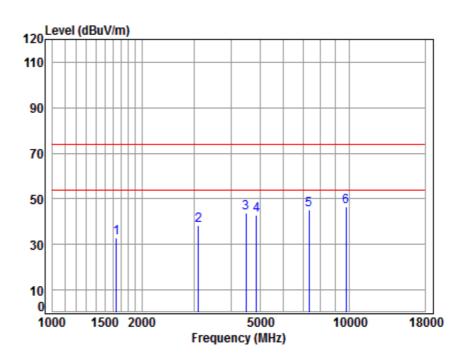
		Freq			Preamp Factor					Remark
	-	MHz	dB		dB					
1		1601.804	5.35	26.26	41.47	41.91	32.05	74.00	-41.95	peak
2		2726.337	5.79	29.75	42.00	42.69	36.23	74.00	-37.77	Peak
3		4417.841	7.47	33.46	42.40	44.00	42.53	74.00	-31.47	peak
4		4874.000	7.96	34.05	42.48	43.30	42.83	74.00	-31.17	peak
5		7311.000	10.05	36.15	40.64	39.58	45.14	74.00	-28.86	peak
6	pp	9748.000	10.82	37.75	37.54	35.65	46.68	74.00	-27.32	peak



Report No.: SZEM180700624402

Page: 59 of 115

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



Condition: 3m HORIZONTAL

Job No : 6244RG Mode : 2437 RSE Note : 2.4G11B

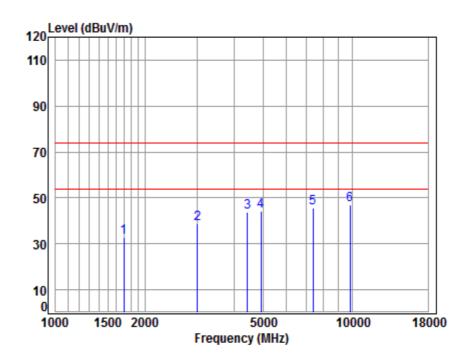
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			/			,	,		
1	1644.019	5.30	26.44	41.50	42.63	32.87	74.00	-41.13	peak
2	3105.037	6.09	31.08	42.13	43.13	38.17	74.00	-35.83	Peak
3	4495.125	7.55	33.59	42.42	44.92	43.64	74.00	-30.36	peak
4	4874.000	7.96	34.05	42.48	43.50	43.03	74.00	-30.97	peak
5									•
6 рр	9748.000								



Report No.: SZEM180700624402

Page: 60 of 115

Test mode: 802.11b Test channel: Highes	Remark: Peak	Vertical
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Condition: 3m VERTICAL

Job No : 6244RG Mode : 2462 RSE Note : 2.4G11B

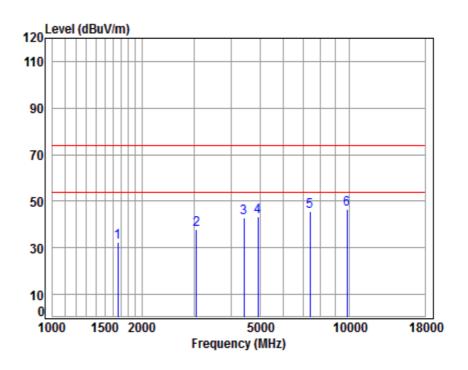
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	5.23	26.66	41.53	42.58	32.94	74.00	-41.06	peak
2	3007.868	5.99	30.91	42.10	44.09	38.89	74.00	-35.11	Peak
3	4430.628	7.48	33.48	42.41	45.08	43.63	74.00	-30.37	peak
4	4924.000	8.01	34.11	42.49	44.67	44.30	74.00	-29.70	peak
5	7386.000	10.03	36.21	40.59	40.19	45.84	74.00	-28.16	peak
6 p	p 9848.000	10.87	37.81	37.41	35.85	47.12	74.00	-26.88	peak



Report No.: SZEM180700624402

Page: 61 of 115

Test mode:	802.11b	Test channel:	Highest	Remark:	Peak	Horizontal
			J			



Condition: 3m HORIZONTAL

Job No : 6244RG Mode : 2462 RSE Note : 2.4G11B

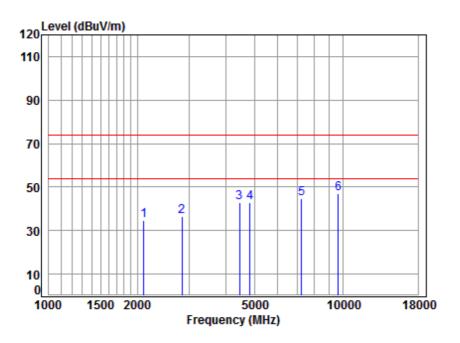
		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1663.137	5.27	26.52	41.51	42.08	32.36	74.00	-41.64	peak
2		3051.653	6.03	30.99	42.11	42.98	37.89	74.00	-36.11	Peak
3		4417.841	7.47	33.46	42.40	44.41	42.94	74.00	-31.06	peak
4		4924.000	8.01	34.11	42.49	43.58	43.21	74.00	-30.79	peak
5		7386.000	10.03	36.21	40.59	39.82	45.47	74.00	-28.53	peak
6		9848.000								•



Report No.: SZEM180700624402

Page: 62 of 115

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



Condition: 3m HORIZONTAL

Job No : 6244RG Mode : 2412 RSE Note : 2.4G11g

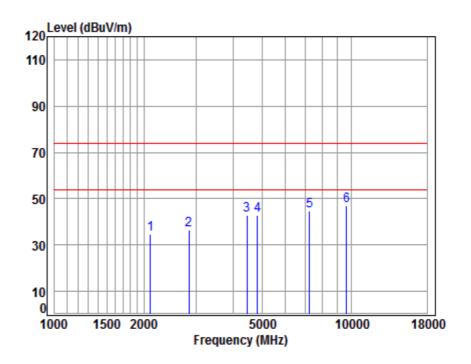
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2101.866	5.06	28.00	41.74	43.16	34.48	74.00	-39.52	Peak
2	2838.921	5.87	30.23	42.04	42.45	36.51	74.00	-37.49	Peak
3	4456.315	7.51	33.53	42.41	44.18	42.81	74.00	-31.19	peak
4	4824.000	7.91	34.00	42.47	43.61	43.05	74.00	-30.95	peak
5	7236.000	10.07	36.09	40.69	39.43	44.90	74.00	-29.10	peak
6 pp	9648.000	10.77	37.69	37.68	35.99	46.77	74.00	-27.23	peak



Report No.: SZEM180700624402

Page: 63 of 115

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



Condition: 3m HORIZONTAL

Job No : 6244RG Mode : 2412 RSE Note : 2.4G11g

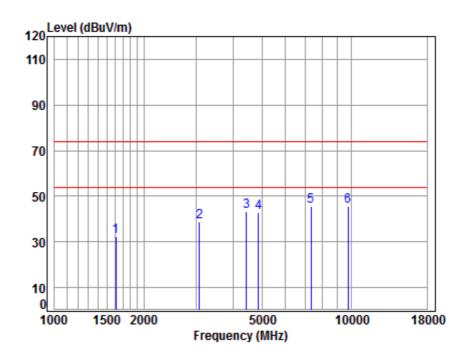
		Cable	Δnt	Preamp	Read		limit	Over	
	Freq			Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2101.866	5.06	28.00	41.74	43.16	34.48	74.00	-39.52	Peak
2	2838.921	5.87	30.23	42.04	42.45	36.51	74.00	-37.49	Peak
3	4456.315	7.51	33.53	42.41	44.18	42.81	74.00	-31.19	peak
4	4824.000	7.91	34.00	42.47	43.61	43.05	74.00	-30.95	peak
5	7236.000	10.07	36.09	40.69	39.43	44.90	74.00	-29.10	peak
6 p	p 9648.000	10.77	37.69	37.68	35.99	46.77	74.00	-27.23	peak



Report No.: SZEM180700624402

Page: 64 of 115

Test mode:	802.11g	Test channel:	Middle	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No : 6244RG Mode : 2437 RSE Note : 2.4G11g

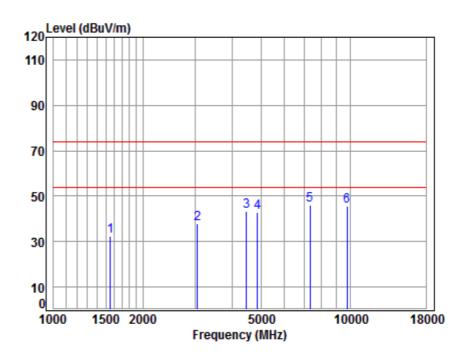
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1611.091	5.34	26.30	41.48	42.29	32.45	74.00	-41.55	peak
2	3078.229	6.06	31.03	42.12	43.66	38.63	74.00	-35.37	Peak
3	4430.628	7.48	33.48	42.41	44.58	43.13	74.00	-30.87	peak
4	4874.000	7.96	34.05	42.48	43.48	43.01	74.00	-30.99	peak
5 pp	7311.000	10.05	36.15	40.64	40.02	45.58	74.00	-28.42	peak
6	9748.000	10.82	37.75	37.54	34.52	45.55	74.00	-28.45	peak



Report No.: SZEM180700624402

Page: 65 of 115

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



Condition: 3m HORIZONTAL

Job No : 6244RG Mode : 2437 RSE Note : 2.4G11g

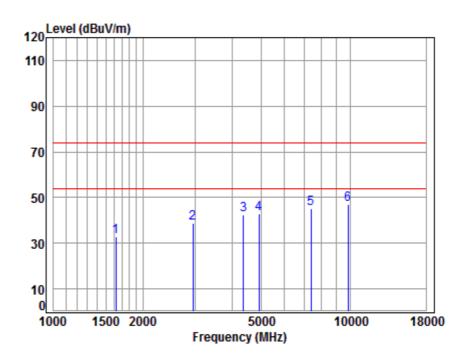
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1556.169	5.41	26.06	41.44	42.33	32.36	74.00	-41.64	peak
2	3060.486	6.04	31.00	42.12	43.10	38.02	74.00	-35.98	Peak
3	4469.214	7.53	33.55	42.41	44.51	43.18	74.00	-30.82	peak
4	4874.000	7.96	34.05	42.48	43.19	42.72	74.00	-31.28	peak
5 pp	7311.000	10.05	36.15	40.64	40.50	46.06	74.00	-27.94	peak
6	9748.000	10.82	37.75	37.54	34.75	45.78	74.00	-28.22	peak



Report No.: SZEM180700624402

Page: 66 of 115

rest mode: 802.11g rest channel: Highest Remark: Peak Vertical	Test mode:	802.11g	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No : 6244RG Mode : 2462 RSE Note : 2.4G11g

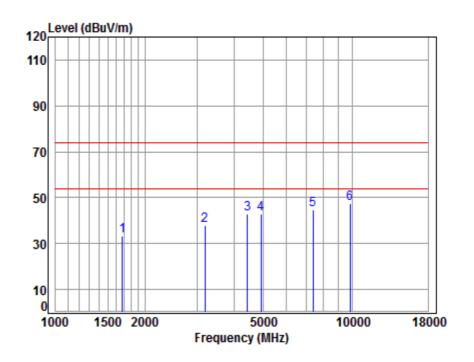
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1625.121	5.32	26.36	41.49	42.45	32.64	74.00	-41.36	peak
2		2956.155	5.95	30.72	42.09	44.12	38.70	74.00	-35.30	Peak
3		4367.058	7.41	33.37	42.39	44.26	42.65	74.00	-31.35	peak
4		4924.000	8.01	34.11	42.49	43.43	43.06	74.00	-30.94	peak
5		7386.000	10.03	36.21	40.59	39.50	45.15	74.00	-28.85	peak
6	pp	9848.000	10.87	37.81	37.41	35.72	46.99	74.00	-27.01	peak



Report No.: SZEM180700624402

Page: 67 of 115

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



Condition: 3m HORIZONTAL

Job No : 6244RG Mode : 2462 RSE Note : 2.4G11g

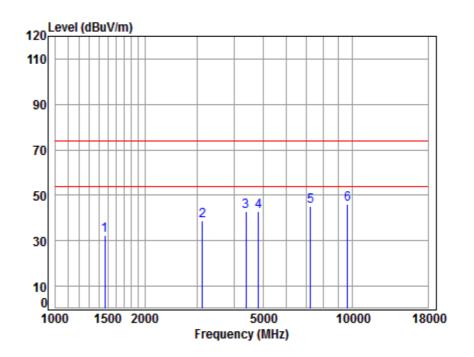
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	5.25	26.58	41.52	42.96	33.27	74.00	-40.73	peak
2	3186.869	6.17	31.21	42.15	42.48	37.71	74.00	-36.29	Peak
3	4430.628	7.48	33.48	42.41	44.44	42.99	74.00	-31.01	peak
4	4924.000	8.01	34.11	42.49	43.46	43.09	74.00	-30.91	peak
5	7386.000	10.03	36.21	40.59	39.13	44.78	74.00	-29.22	peak
6 рр	9848.000	10.87	37.81	37.41	36.15	47.42	74.00	-26.58	peak



Report No.: SZEM180700624402

Page: 68 of 115

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

Job No : 6244RG Mode : 2412 RSE Note : 2.4G11N20

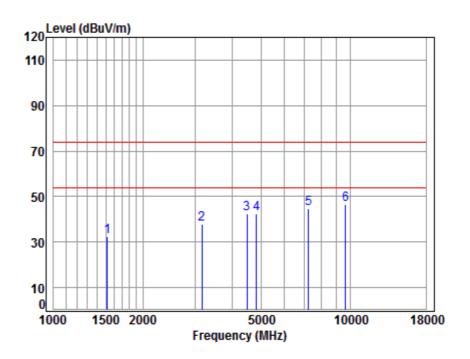
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1468.761	5.38	25.69	41.38	42.85	32.54	74.00	-41.46	peak
2	3132.079	6.11	31.12	42.13	43.63	38.73	74.00	-35.27	Peak
3	4392.376	7.44	33.42	42.40	44.37	42.83	74.00	-31.17	peak
4	4824.000	7.91	34.00	42.47	43.67	43.11	74.00	-30.89	peak
5	7236.000	10.07	36.09	40.69	39.69	45.16	74.00	-28.84	peak
6 pp	9648.000	10.77	37.69	37.68	35.32	46.10	74.00	-27.90	peak



Report No.: SZEM180700624402

Page: 69 of 115

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



Condition: 3m HORIZONTAL

Job No : 6244RG Mode : 2412 RSE Note : 2.4G11N20

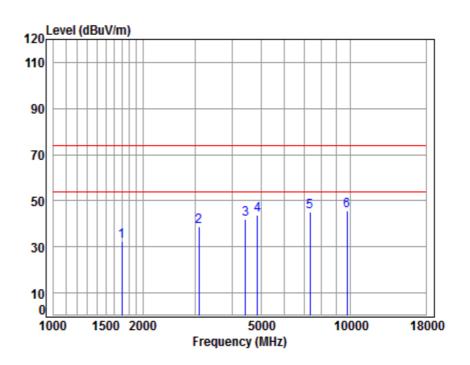
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	d Bu V/m	dB	
1	1516.210	5.46	25.87	41.42	42.58	32.49	74.00	-41.51	peak
2	3159.355	6.14	31.17	42.14	42.63	37.80	74.00	-36.20	Peak
3	4495.125	7.55	33.59	42.42	43.74	42.46	74.00	-31.54	peak
4	4824.000	7.91	34.00	42.47	42.99	42.43	74.00	-31.57	peak
5	7236.000	10.07	36.09	40.69	39.13	44.60	74.00	-29.40	peak
6 pp	9648.000	10.77	37.69	37.68	35.95	46.73	74.00	-27.27	peak



Report No.: SZEM180700624402

Page: 70 of 115

Test mode:	802.11n(HT20)	Test channel:	Middle	Remark:	Peak	Vertical



Condition: 3m VERTICAL

Job No : 6244RG Mode : 2437 RSE Note : 2.4G11N20

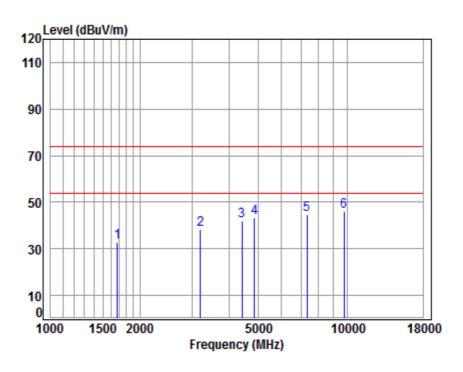
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1697.129	5.23	26.66	41.53	42.25	32.61	74.00	-41.39	peak
2		3087.140	6.07	31.05	42.12	43.62	38.62	74.00	-35.38	Peak
3		4443.453	7.50	33.50	42.41	43.58	42.17	74.00	-31.83	peak
4		4874.000	7.96	34.05	42.48	44.35	43.88	74.00	-30.12	peak
5		7311.000	10.05	36.15	40.64	39.58	45.14	74.00	-28.86	peak
6	pp	9748.000	10.82	37.75	37.54	34.54	45.57	74.00	-28.43	peak



Report No.: SZEM180700624402

Page: 71 of 115

Test mode:	802.11n(HT20)	Test channel:	Middle	Remark:	Peak	Horizontal



Condition: 3m HORIZONTAL

Job No : 6244RG Mode : 2437 RSE Note : 2.4G11N20

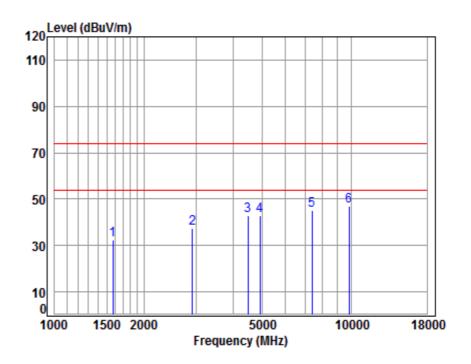
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	5.25	26.58	41.52	42.46	32.77	74.00	-41.23	peak
2	3196.094	6.18	31.23	42.15	43.11	38.37	74.00	-35.63	Peak
3	4417.841	7.47	33.46	42.40	43.48	42.01	74.00	-31.99	peak
4	4874.000	7.96	34.05	42.48	43.67	43.20	74.00	-30.80	peak
5	7311.000	10.05	36.15	40.64	39.18	44.74	74.00	-29.26	peak
6 pp	9748.000	10.82	37.75	37.54	35.14	46.17	74.00	-27.83	peak



Report No.: SZEM180700624402

Page: 72 of 115

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

Job No : 6244RG Mode : 2462 RSE Note : 2.4G11N20

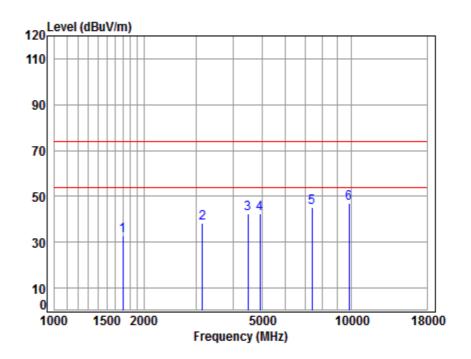
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.265	5.38	26.14	41.45	42.38	32.45	74.00	-41.55	peak
2	2922.174	5.93	30.58	42.07	43.19	37.63	74.00	-36.37	Peak
3	4482.150	7.54	33.57	42.41	44.08	42.78	74.00	-31.22	peak
4	4924.000	8.01	34.11	42.49	43.38	43.01	74.00	-30.99	peak
5	7386.000	10.03	36.21	40.59	39.30	44.95	74.00	-29.05	peak
6 рр	9848.000	10.87	37.81	37.41	35.82	47.09	74.00	-26.91	peak



Report No.: SZEM180700624402

Page: 73 of 115

Test mode: 802.11n(HT20) Test channel: Highest Remark: Peak Horizontal



Condition: 3m HORIZONTAL

Job No : 6244RG Mode : 2462 RSE Note : 2.4G11N20

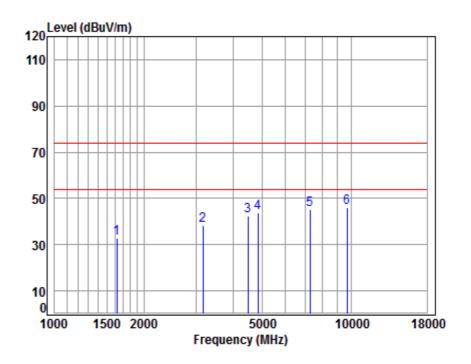
		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1		1697.129	5.23	26.66	41.53	42.36	32.72	74.00	-41.28	peak
2		3150.237	6.13	31.15	42.14	43.19	38.33	74.00	-35.67	Peak
3		4495.125	7.55	33.59	42.42	43.60	42.32	74.00	-31.68	peak
4		4924.000	8.01	34.11	42.49	42.90	42.53	74.00	-31.47	peak
5		7386.000	10.03	36.21	40.59	39.48	45.13	74.00	-28.87	peak
6	pp	9848.000	10.87	37.81	37.41	35.64	46.91	74.00	-27.09	peak



Report No.: SZEM180700624402

Page: 74 of 115

Test mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No : 6244RG Mode : 2422 RSE Note : 2.4G11N40

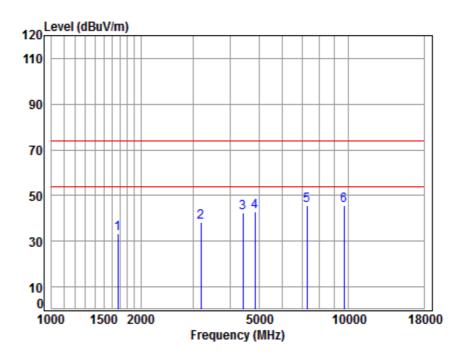
		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1620.431	5.32	26.34	41.48	42.75	32.93	74.00	-41.07	peak
2		3159.355	6.14	31.17	42.14	43.28	38.45	74.00	-35.55	Peak
3		4495.125	7.55	33.59	42.42	43.79	42.51	74.00	-31.49	peak
4		4844.000	7.93	34.02	42.48	44.17	43.64	74.00	-30.36	peak
5		7266.000	10.06	36.12	40.67	39.47	44.98	74.00	-29.02	peak
6	pp	9688.000	10.79	37.71	37.63	35.14	46.01	74.00	-27.99	peak



Report No.: SZEM180700624402

Page: 75 of 115

Test mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Horizontal



Condition: 3m HORIZONTAL

Job No : 6244RG Mode : 2422 RSE Note : 2.4G11N40

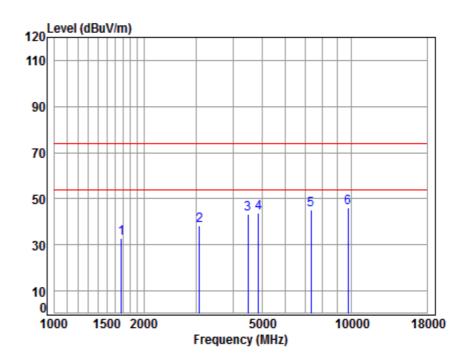
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1672.779	5.26	26.56	41.52	42.87	33.17	74.00	-40.83	peak
2		3186.869	6.17	31.21	42.15	42.93	38.16	74.00	-35.84	Peak
3		4417.841	7.47	33.46	42.40	44.02	42.55	74.00	-31.45	peak
4		4844.000	7.93	34.02	42.48	43.31	42.78	74.00	-31.22	peak
5		7266.000	10.06	36.12	40.67	40.10	45.61	74.00	-28.39	peak
6	pp	9688.000	10.79	37.71	37.63	34.82	45.69	74.00	-28.31	peak



Report No.: SZEM180700624402

Page: 76 of 115

Test mode: 802.11n(HT40) Test channel: Middle Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No : 6244RG Mode : 2437 RSE Note : 2.4G11N40

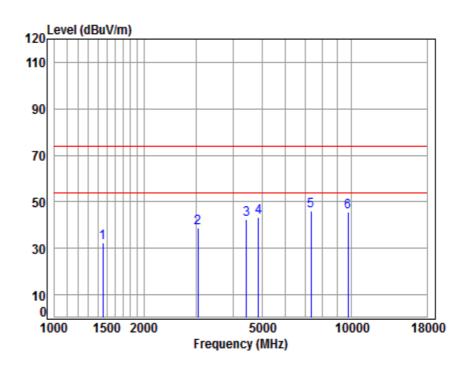
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
				•			•			
1		1682.477	5.25	26.60	41.52	42.68	33.01	74.00	-40.99	peak
2		3078.229	6.06	31.03	42.12	43.44	38.41	74.00	-35.59	Peak
3		4482.150	7.54	33.57	42.41	44.82	43.52	74.00	-30.48	peak
4		4874.000	7.96	34.05	42.48	44.21	43.74	74.00	-30.26	peak
5		7311.000	10.05	36.15	40.64	39.72	45.28	74.00	-28.72	peak
6	pp	9748.000	10.82	37.75	37.54	35.05	46.08	74.00	-27.92	peak



Report No.: SZEM180700624402

Page: 77 of 115

Test mode:	802.11n(HT40)	Test channel:	Middle	Remark:	Peak	Horizontal



Condition: 3m HORIZONTAL

Job No : 6244RG Mode : 2437 RSE Note : 2.4G11N40

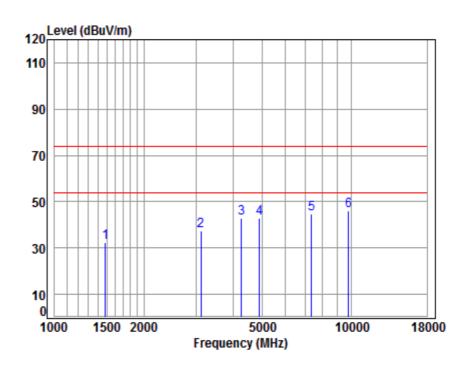
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1456.081	5.34	25.64	41.38	42.88	32.48	74.00	-41.52	peak
2	3042.846	6.02	30.97	42.11	43.81	38.69	74.00	-35.31	Peak
3	4443.453	7.50	33.50	42.41	43.69	42.28	74.00	-31.72	peak
4	4874.000	7.96	34.05	42.48	43.95	43.48	74.00	-30.52	peak
5 pp	7311.000	10.05	36.15	40.64	40.55	46.11	74.00	-27.89	peak
6	9748.000	10.82	37.75	37.54	34.63	45.66	74.00	-28.34	peak



Report No.: SZEM180700624402

Page: 78 of 115

Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Vertical



Condition: 3m VERTICAL

Job No : 6244RG Mode : 2452 RSE Note : 2.4G11N40

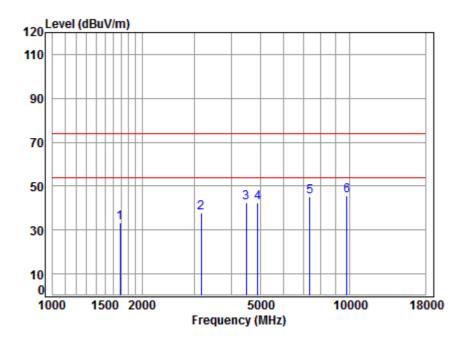
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	d Bu V/m	dB	
1	1485.841	5.43	25.75	41.40	42.48	32.26	74.00	-41.74	peak
2	3114.025	6.10	31.09	42.13	42.24	37.30	74.00	-36.70	Peak
3	4267.237	7.30	33.19	42.38	44.56	42.67	74.00	-31.33	peak
4	4904.000	7.99	34.09	42.48	43.36	42.96	74.00	-31.04	peak
5	7356.000	10.04	36.19	40.61	39.24	44.86	74.00	-29.14	peak
6 рр	9808.000	10.85	37.79	37.46	35.00	46.18	74.00	-27.82	peak



Report No.: SZEM180700624402

Page: 79 of 115

Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No : 6244RG Mode : 2452 RSE Note : 2.4G11N40

		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	
4	1607 347	E 24	26 62	44 50	42.04	22.20	74.00	40.72	
1	1687.347	5.24	26.62	41.52	42.94	33.28	74.00	-40.72	реак
2	3168.500	6.15	31.18	42.14	42.46	37.65	74.00	-36.35	Peak
3	4495.125	7.55	33.59	42.42	43.77	42.49	74.00	-31.51	peak
4	4904.000	7.99	34.09	42.48	42.70	42.30	74.00	-31.70	peak
5	7356.000	10.04	36.19	40.61	39.58	45.20	74.00	-28.80	peak
6 pp	9808.000	10.85	37.79	37.46	34.65	45.83	74.00	-28.17	peak



Report No.: SZEM180700624402

Page: 80 of 115

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 between 9KHz to 30MHz and 18GHz to 25GHz 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.
- 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.



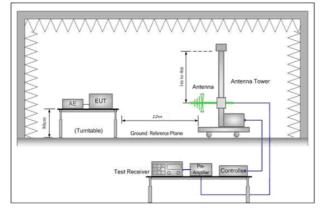
Report No.: SZEM180700624402

81 of 115 Page:

5.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section	15.209 and 15.205				
Test Method:	ANSI C63.10: 2013 Sectio	ANSI C63.10: 2013 Section 11.12				
Test Site:	Measurement Distance: 3r	n or 10m (Semi-Anechoic C	Chamber)			
	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 1GHz	54.0	Average Value			
	Above IGHZ	74.0	Peak Value			
Test Setup:						





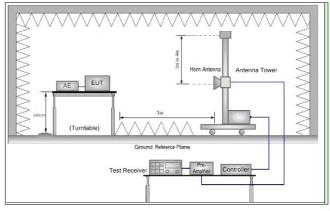


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



Report No.: SZEM180700624402

Page: 82 of 115

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 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 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. 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. Transmitting with all kind of modulations, data rates. Charge + Transmitting mode. Through Pre-scan, find the 1Mpps of rate is the worst case of 802.11p; 6.6Mbps of rate is the worst case of 802.11p; 6.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report.		
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 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 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. Exploratory Test Mode: Exploratory 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 802.11p; 6Mbps of rate is the worst case of 802.11n (HTA0). Only the worst case is recorded in the report.		meters above the ground at a 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest
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. 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. 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 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT20). Only the worst case is recorded in the report.		meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest
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. 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. Transmitting with all kind of modulations, data rates. 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(HT40). Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		antenna, which was mounted on the top of a variable-height antenna
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. 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. 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(HT40). Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the
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. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Charge + Transmitting 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); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details	Test Procedure:	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
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. Transmitting with all kind of modulations, data rates. Charge + Transmitting 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); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		
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. Transmitting with all kind of modulations, data rates. Charge + Transmitting 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); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each
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. Transmitting with all kind of modulations, data rates. Charge + Transmitting 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); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		h. Test the EUT in the lowest channel, the Highest channel
complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Charge + Transmitting 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); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		for Transmitting mode, And found the X axis positioning which it is
Charge + Transmitting 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); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		· · · · · · · · · · · · · · · · · · ·
Charge + Transmitting 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); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details	Evoloratory Test Mode:	Transmitting with all kind of modulations, data rates.
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); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Refer to section 5.10 for details	Exploratory rest wode.	Charge + Transmitting mode.
Final Test Mode: 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Refer to section 5.10 for details		Pretest the EUT at Charge +Transmitting mode.
case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Refer to section 5.10 for details		Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
Instruments Used: Refer to section 5.10 for details	Final Test Mode:	case of 802.11n(HT20); 13.5Mbps of rate is the worst case of
		Only the worst case is recorded in the report.
Test Results: Pass	Instruments Used:	Refer to section 5.10 for details
	Test Results:	Pass

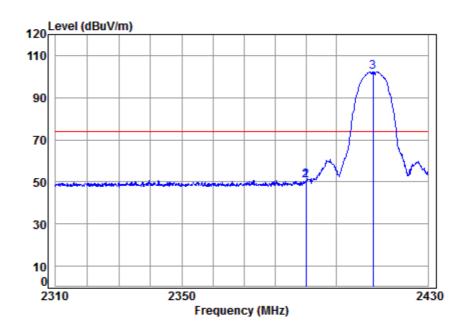


Report No.: SZEM180700624402

Page: 83 of 115

Test plot as follows:





Condition: 3m VERTICAL

Job No : 6244RG

Mode : 2412 Band edge Note : 2.4 Band Edge

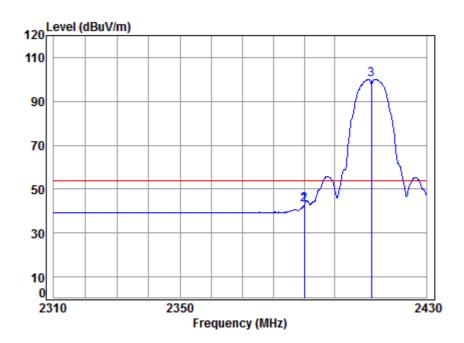
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2389.968	5.47	28.52	41.87	58.58	50.70	74.00	-23.30	Peak
2		2390.000	5.47	28.52	41.87	58.58	50.70	74.00	-23.30	Peak
3	pp	2412.000	5.50	28.56	41.88	110.02	102.20	74.00	28.20	Peak



Report No.: SZEM180700624402

Page: 84 of 115

Worse case mode: 802.11b Test channel: Lowest Remark: Average Vertical



Condition: 3m VERTICAL

Job No : 6244RG

Mode : 2412 Band edge Note : 2.4 Band Edge

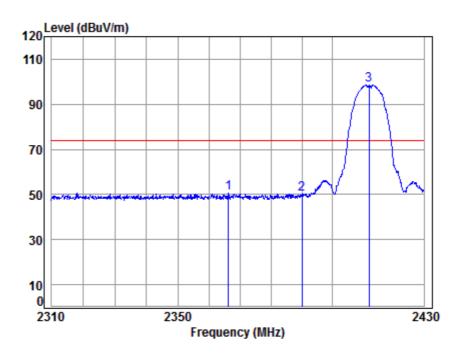
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		2389.968	5.47	28.52	41.87	50.65	42.77	54.00	-11.23	Average	
2		2390.000	5.47	28.52	41.87	50.65	42.77	54.00	-11.23	Average	
3	pp	2412.000	5.50	28.56	41.88	107.82	100.00	54.00	46.00	Average	



Report No.: SZEM180700624402

Page: 85 of 115

Worse case mode: 802.11b Test channel: Lowest Remark: Peak Horizontal



Condition: 3m HORIZONTAL

Job No : 6244RG

Mode : 2412 Band edge Note : 2.4 Band Edge

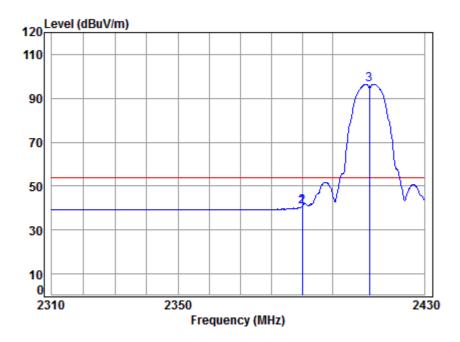
				_				_	
		Cable	Ant	Preamp	Read		Limit	Over	
	Frea	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2366.243	5 11	28 48	<i>1</i> 1 86	58 56	50 62	7/ 00	_23_38	noak
									•
2	2390.000	5.47	28.52	41.87	57.89	50.01	74.00	-23.99	peak
	2412.000								•
טע כ	2412.000	٥. ا	20.30	41.00	100.22	30.40	74.00	24.40	peak



Report No.: SZEM180700624402

Page: 86 of 115

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



Condition: 3m HORIZONTAL

Job No : 6244RG

Mode : 2412 Band edge Note : 2.4 Band Edge

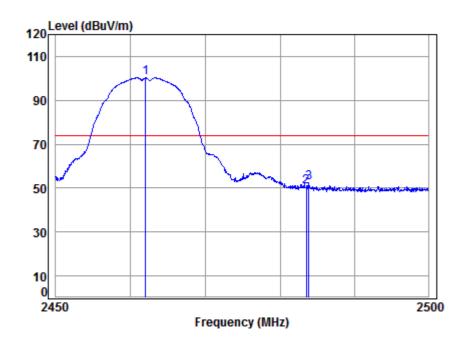
						Read					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	-										_
		MHZ	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		2200 060	E 47	20 52	<i>1</i> 1 07	49 63	40.75	E4 00	12.25	A.,	
T		2389.968	5.4/	20.52	41.0/	40.03	40.75	54.00	-13.25	Average	
2		2390.000	5.47	28.52	41.87	48.63	40.75	54.00	-13.25	Average	
3	ממ	2412.000	5.50	28.56	41.88	104.22	96.40	54.00	42.40	Average	



Report No.: SZEM180700624402

Page: 87 of 115

Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No : 6244RG

1 2 3

Mode : 2462 Band edge Note : 2.4 Band Edge

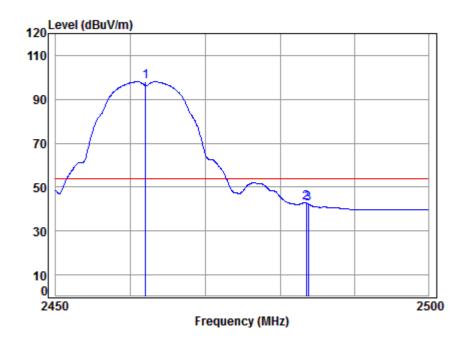
	Freq				Read Level			Over Limit	Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	2462.000	5.57	28.64	41.90	107.91	100.22	74.00	26.22	Peak
	2483.500	5.60	28.67	41.91	58.47	50.83	74.00	-23.17	Peak
	2483.840	5.60	28.67	41.91	59.99	52.35	74.00	-21.65	Peak



Report No.: SZEM180700624402

Page: 88 of 115

Worse case mode: 802.11b Test channel: Highest Remark: Average Vertical



Condition: 3m VERTICAL

Job No : 6244RG

Mode : 2462 Band edge Note : 2.4 Band Edge

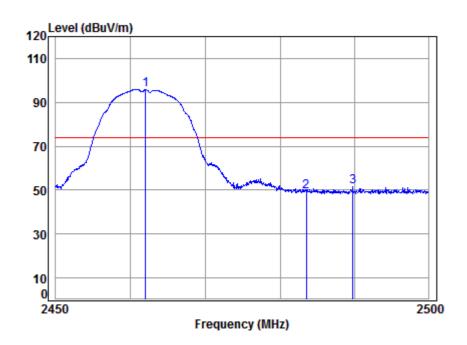
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 pp	2462.000	5.57	28.64	41.90	105.72	98.03	54.00	44.03	Average	
2	2483.500	5.60	28.67	41.91	50.31	42.67	54.00	-11.33	Average	
3	2483.790	5.60	28.67	41.91	49.99	42.35	54.00	-11.65	Average	



Report No.: SZEM180700624402

Page: 89 of 115

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



Condition: 3m HORIZONTAL

Job No : 6244RG

1 2 3

Mode : 2462 Band edge Note : 2.4 Band Edge

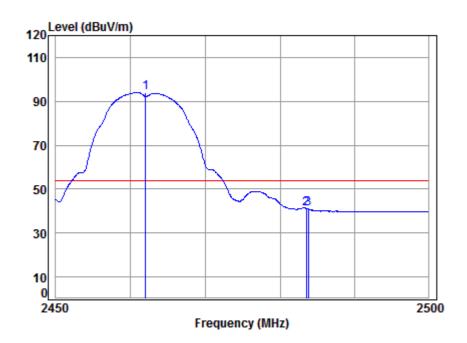
	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
рр	2462.000	5.57	28.64	41.90	103.57	95.88	74.00	21.88	peak
	2483.500	5.60	28.67	41.91	56.95	49.31	74.00	-24.69	peak
	2489.768	5.61	28.68	41.91	59.00	51.38	74.00	-22.62	peak



Report No.: SZEM180700624402

Page: 90 of 115

Worse case mode: 802.11b Test channel: Highest Remark: Average Horizontal



Condition: 3m HORIZONTAL

Job No : 6244RG

Mode : 2462 Band edge Note : 2.4 Band Edge

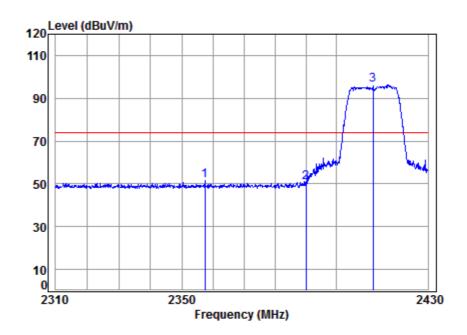
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 pp	2462.000	5.57	28.64	41.90	101.66	93.97	54.00	39.97	Average	
2	2483.500	5.60	28.67	41.91	48.92	41.28	54.00	-12.72	Average	
3	2483.790	5.60	28.67	41.91	48.54	40.90	54.00	-13.10	Average	



Report No.: SZEM180700624402

Page: 91 of 115

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

Job No : 6244RG

Mode : 2412 Band edge Note : 2.4G11g Band Edge

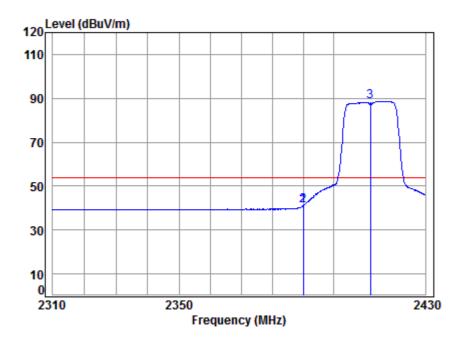
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2357.391	5.43	28.46	41.86	59.45	51.48	74.00	-22.52	Peak
2	2390.000	5.47	28.52	41.87	58.59	50.71	74.00	-23.29	Peak
3	pp 2412.000	5.50	28.56	41.88	104.03	96.21	74.00	22.21	Peak



Report No.: SZEM180700624402

Page: 92 of 115

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

Job No : 6244RG

1 2

Mode : 2412 Band edge Note : 2.4G11g Band Edge

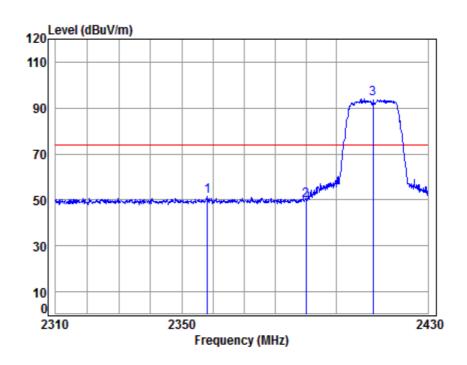
Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.968	5.47	28.52	41.87	49.01	41.13	54.00	-12.87	Average
2390.000	5.47	28.52	41.87	49.01	41.13	54.00	-12.87	Average
pp 2412.000	5.50	28.56	41.88	96.40	88.58	54.00	34.58	Average



Report No.: SZEM180700624402

Page: 93 of 115

Worse case mode: 802.11g Test channel: Lowest Remark: Peak Horizontal



Condition: 3m HORIZONTAL

Job No : 6244RG

Mode : 2412 Band edge Note : 2.4G11g Band Edge

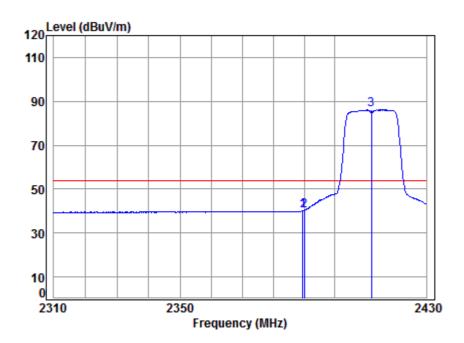
	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 3 pp	2358.227 2390.000 2412.000	5.47	28.52	41.87	57.51	49.63	74.00	-24.37	peak



Report No.: SZEM180700624402

Page: 94 of 115

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



Condition: 3m HORIZONTAL

Job No : 6244RG

Mode : 2412 Band edge Note : 2.4G11g Band Edge

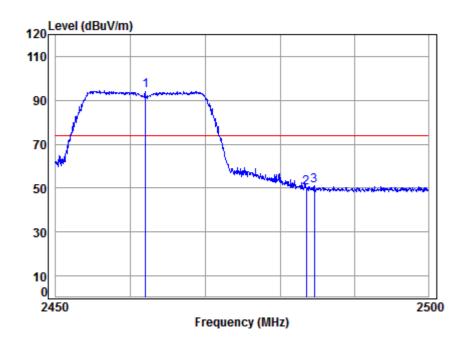
Frea			Preamp Factor					Remark
			dB				dB	
1 2389.605 2 2390.000 3 pp 2412.000	5.47	28.52	41.87	48.10	40.22	54.00	-13.78	Average



Report No.: SZEM180700624402

Page: 95 of 115

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

Job No : 6244RG

1 2 3

Mode : 2462 Band edge Note : 2.4G11g Band Edge

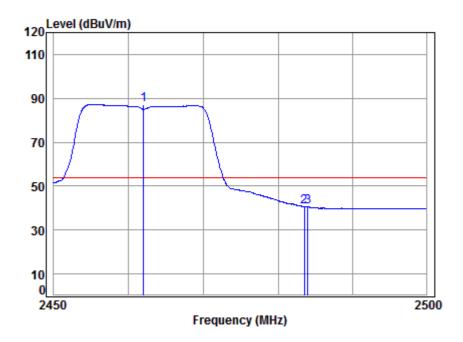
	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
рр	2462.000	5.57	28.64	41.90	101.91	94.22	74.00	20.22	Peak
	2483.500	5.60	28.67	41.91	57.69	50.05	74.00	-23.95	Peak
	2484.593	5.60	28.68	41.91	58.60	50.97	74.00	-23.03	Peak



Report No.: SZEM180700624402

Page: 96 of 115

Worse case mode: 802.11g Test channel: Highest Remark: Average Vertical



Condition: 3m VERTICAL

Job No : 6244RG

Mode : 2462 Band edge Note : 2.4G11g Band Edge

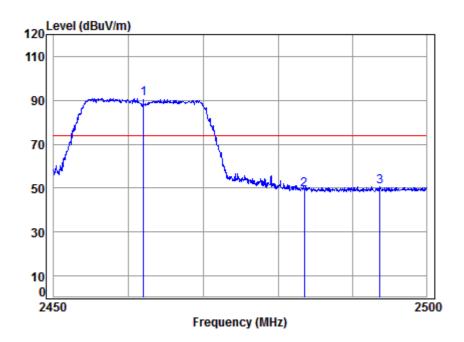
				Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2462	.000	5.57	28.64	41.90	94.85	87.16	54.00	33.16	Average
2 2483	.500	5.60	28.67	41.91	48.27	40.63	54.00	-13.37	Average
3 2483	.990	5.60	28.67	41.91	48.27	40.63	54.00	-13.37	Average



Report No.: SZEM180700624402

Page: 97 of 115

worse case mode: 802.11g Test channel: Highest Remark: Peak Horizontal		Worse case mode:	802.11g	Test channel:	Highest	Remark:	Peak	Horizontal	l
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Condition: 3m HORIZONTAL

Job No : 6244RG

1 2 3

Mode : 2462 Band edge Note : 2.4G11g Band Edge

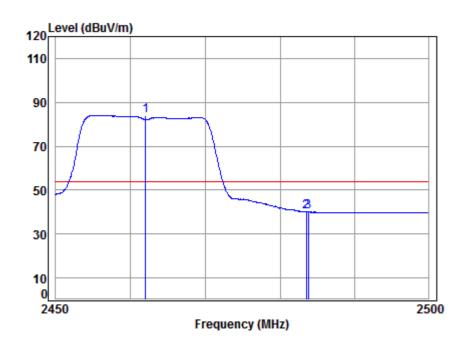
	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	2462.000	5.57	28.64	41.90	98.62	90.93	74.00	16.93	peak
	2483.500	5.60	28.67	41.91	56.80	49.16	74.00	-24.84	peak
	2493.695	5.61	28.69	41.91	58.40	50.79	74.00	-23.21	peak



Report No.: SZEM180700624402

Page: 98 of 115

Worse case mode: 802.11g Test channel: Highest Remark: Average Horizontal



Condition: 3m HORIZONTAL

Job No : 6244RG

1 2 3

Mode : 2462 Band edge Note : 2.4G11g Band Edge

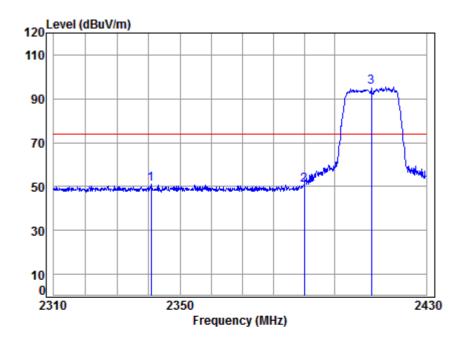
	Freq			Preamp Factor						
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
l pp	2462.000	5.57	28.64	41.90	91.72	84.03	54.00	30.03	Average	
2	2483.500	5.60	28.67	41.91	47.68	40.04	54.00	-13.96	Average	
3	2483.790	5.60	28.67	41.91	47.70	40.06	54.00	-13.94	Average	



Report No.: SZEM180700624402

Page: 99 of 115

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



Condition: 3m VERTICAL

Job No : 6244RG

Mode : 2412 Band edge

Note : 2.4G11n20 Band Edge

: 7

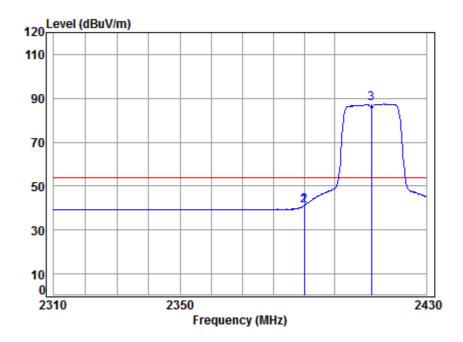
		Freq				Read Level				Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2340.736	5.41	28.43	41.85	58.91	50.90	74.00	-23.10	Peak
2		2390.000	5.47	28.52	41.87	58.31	50.43	74.00	-23.57	Peak
3	pp	2412.000	5.50	28.56	41.88	103.18	95.36	74.00	21.36	Peak



Report No.: SZEM180700624402

Page: 100 of 115

| Worse case mode: | 802.11n(HT20) | Test channel: | Lowest | Remark: | Average | Vertical



Condition: 3m VERTICAL

Job No : 6244RG

Mode : 2412 Band edge

Note : 2.4G11n20 Band Edge

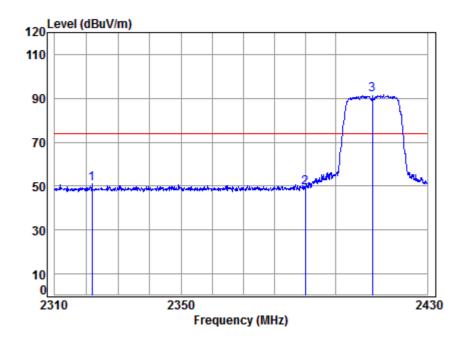
	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	2389.968	5.47	28.52	41.87	48.84	40.96	54.00	-13.04	Average	
2	2390.000	5.47	28.52	41.87	48.84	40.96	54.00	-13.04	Average	
3	pp 2412.000	5.50	28.56	41.88	95.21	87.39	54.00	33.39	Average	



Report No.: SZEM180700624402

Page: 101 of 115

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

Job No : 6244RG

1 2

Mode : 2412 Band edge

Note : 2.4G11n20 Band Edge

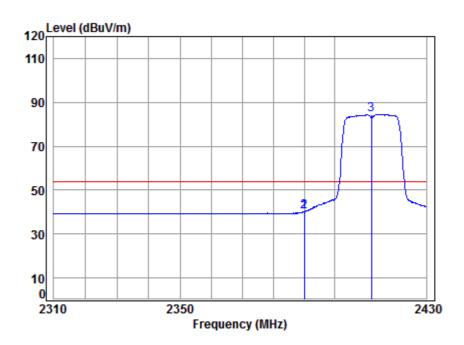
	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2321.728	5.38	28.40	41.84	59.03	50.97	74.00	-23.03	peak
	2390.000	5.47	28.52	41.87	57.25	49.37	74.00	-24.63	peak
ממ	2412.000	5.50	28.56	41.88	99.68	91.86	74.00	17.86	peak



Report No.: SZEM180700624402

Page: 102 of 115

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



Condition: 3m HORIZONTAL

Job No : 6244RG

Mode : 2412 Band edge

Note : 2.4G11n20 Band Edge

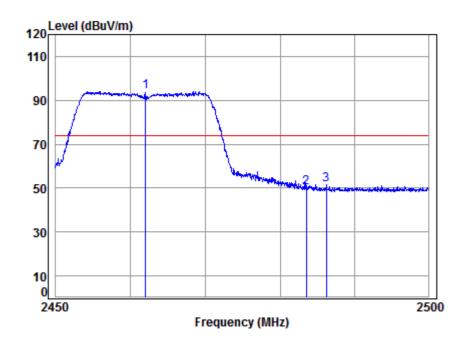
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.968	5.47	28.52	41.87	47.91	40.03	54.00	-13.97	Average	
2	2390.000	5.47	28.52	41.87	47.91	40.03	54.00	-13.97	Average	
3 r	op 2412.000	5.50	28.56	41.88	92.26	84.44	54.00	30.44	Average	



Report No.: SZEM180700624402

Page: 103 of 115

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

Job No : 6244RG

1 2 3

Mode : 2462 Band edge

Note : 2.4G11n20 Band Edge

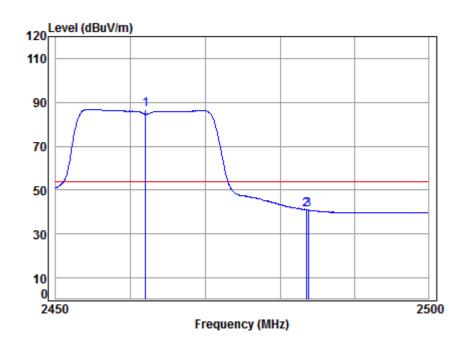
	Freq							Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	2462.000	5.57	28.64	41.90	101.65	93.96	74.00	19.96	Peak
	2483.500	5.60	28.67	41.91	57.99	50.35	74.00	-23.65	Peak
	2486,199	5.60	28.68	41.91	59.03	51.40	74.00	-22.60	Peak



Report No.: SZEM180700624402

Page: 104 of 115

Worse case mode: 802.11n(HT20) Test channel: Highest Remark: Average Vertical



Condition: 3m VERTICAL

Job No : 6244RG

1 2 3

Mode : 2462 Band edge

Note : 2.4G11n20 Band Edge

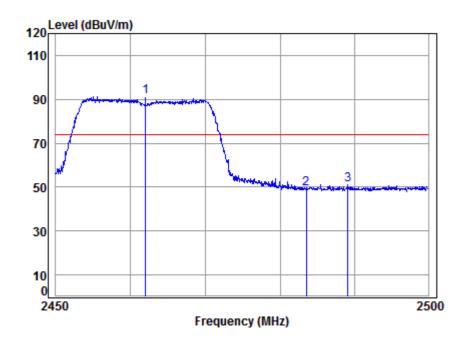
	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
l pp	2462.000	5.57	28.64	41.90	94.52	86.83	54.00	32.83	Average	
2	2483.500	5.60	28.67	41.91	48.72	41.08	54.00	-12.92	Average	
3	2483.790	5.60	28.67	41.91	48.56	40.92	54.00	-13.08	Average	



Report No.: SZEM180700624402

Page: 105 of 115

Worse case mode: 802.11n(HT20) Test channel: Highest Remark: Pe



Condition: 3m HORIZONTAL

Job No : 6244RG

1 2 3

Mode : 2462 Band edge

Note : 2.4G11n20 Band Edge

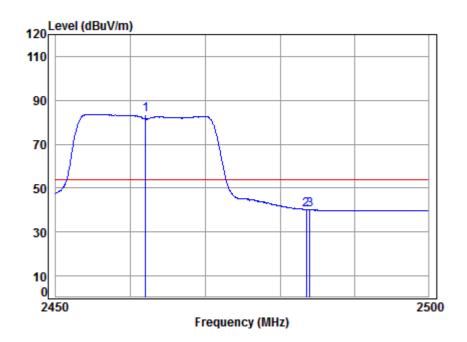
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	2462.000	5.57	28.64	41.90	98.89	91.20	74.00	17.20	peak
	2483.500	5.60	28.67	41.91	57.05	49.41	74.00	-24.59	peak
	2489.114	5.61	28.68	41.91	58.64	51.02	74.00	-22.98	peak



Report No.: SZEM180700624402

Page: 106 of 115

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

Job No : 6244RG

1 2 3

Mode : 2462 Band edge

Note : 2.4G11n20 Band Edge

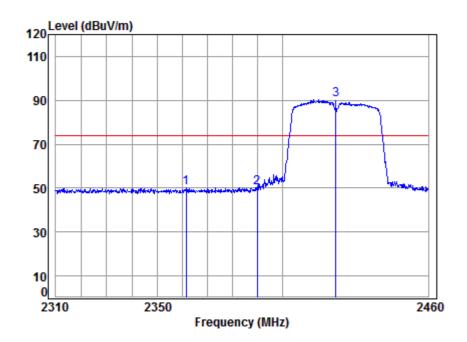
Freq Loss Factor Factor Level Level Line Limit Remark	
MHz dB dB/m dB dBuV dBuV/m dBuV/m dB	
pp 2462.000 5.57 28.64 41.90 91.28 83.59 54.00 29.59 Averag	
2483.500 5.60 28.67 41.91 47.82 40.18 54.00 -13.82 Average 2483.990 5.60 28.67 41.91 47.93 40.29 54.00 -13.71 Average	



Report No.: SZEM180700624402

Page: 107 of 115

Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Vertical



Condition: 3m VERTICAL

Job No : 6244RG

Mode : 2422 Band edge

Note : 2.4G11n40 Band Edge

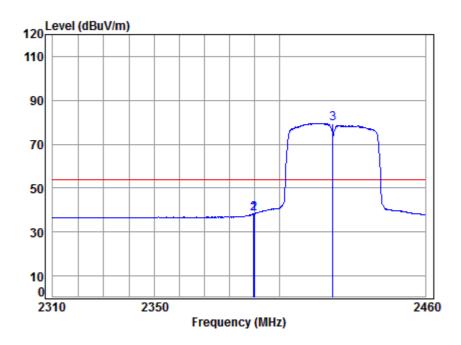
	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 3 pp	2361.430 2390.000 2422.000	5.47	28.52	41.87	58.16	50.28	74.00	-23.72	Peak



Report No.: SZEM180700624402

Page: 108 of 115

| Worse case mode: | 802.11n(HT40) | Test channel: | Lowest | Remark: | Average | Vertical



Condition: 3m VERTICAL

Job No : 6244RG

Mode : 2422 Band edge

Note : 2.4G11n40 Band Edge

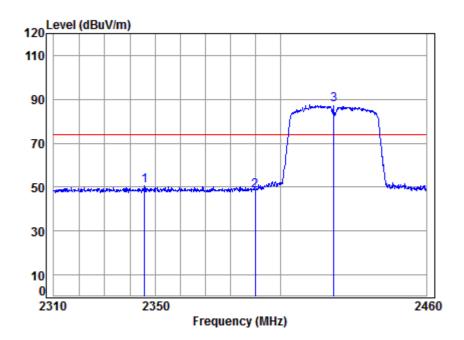
	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	2389.827	5.47	28.52	41.87	46.11	38.23	54.00	-15.77	Average	
2	2390.000	5.47	28.52	41.87	46.18	38.30	54.00	-15.70	Average	
3	pp 2422.000	5.52	28.57	41.89	87.37	79.57	54.00	25.57	Average	



Report No.: SZEM180700624402

109 of 115 Page:

Worse case mode: 802.11n(HT40) Test channel: Lowest Remark: Peak
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Condition: 3m HORIZONTAL

Job No : 6244RG

Mode : 2422 Band edge

: 2.4G11n40 Band Edge Note

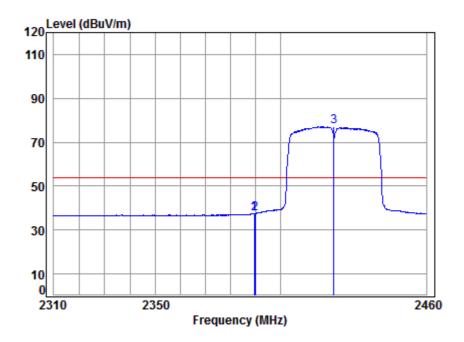
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2345.734	5.41	28.44	41.85	58.45	50.45	74.00	-23.55	peak
2	2390.000	5.47	28.52	41.87	56.40	48.52	74.00	-25.48	peak
3 pp	2422.000	5.52	28.57	41.89	95.46	87.66	74.00	13.66	peak



Report No.: SZEM180700624402

Page: 110 of 115

Worse case mode: | 802.11n(HT40) | Test channel: | Lowest | Remark: | Average | Horizontal



Condition: 3m HORIZONTAL

Job No : 6244RG

Mode : 2422 Band edge

Note : 2.4G11n40 Band Edge

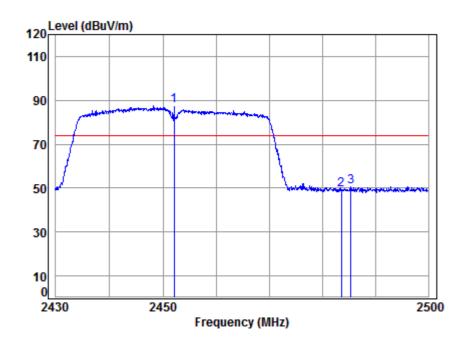
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		2389.526	5.47	28.52	41.87	45.44	37.56	54.00	-16.44	Average	
2		2390.000	5.47	28.52	41.87	45.37	37.49	54.00	-16.51	Average	
3	pp	2422.000	5.52	28.57	41.89	85.01	77.21	54.00	23.21	Average	



Report No.: SZEM180700624402

Page: 111 of 115

Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Peal



Condition: 3m VERTICAL

Job No : 6244RG

1 2 3

Mode : 2452 Band edge

Note : 2.4G11n40 Band Edge

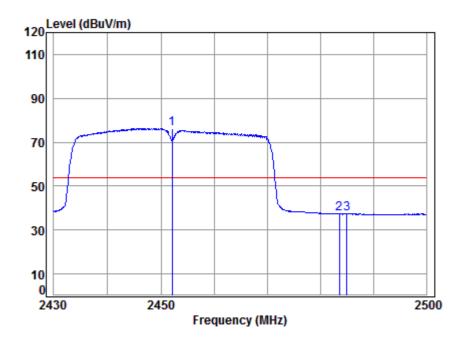
	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
рр	2452.000	5.56	28.62	41.90	95.32	87.60	74.00	13.60	Peak
	2483.500	5.60	28.67	41.91	57.12	49.48	74.00	-24.52	Peak
	2485,276	5.60	28.68	41.91	58.22	50.59	74.00	-23.41	Peak



Report No.: SZEM180700624402

112 of 115 Page:

802.11n(HT40) Test channel: Remark: Worse case mode: Highest Average Vertical



Condition: 3m VERTICAL

Job No : 6244RG

Mode : 2452 Band edge

: 2.4G11n40 Band Edge Note

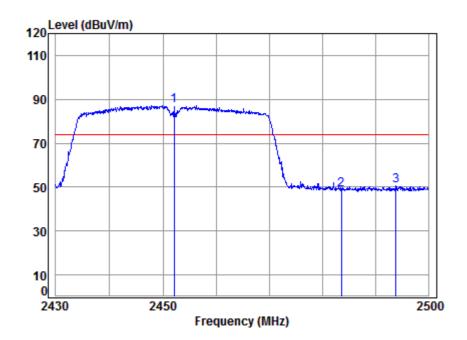
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 pp	2452.000	5.56	28.62	41.90	84.12	76.40	54.00	22.40	Average	
2	2483.500	5.60	28.67	41.91	45.06	37.42	54.00	-16.58	Average	
3	2484.923	5.60	28.68	41.91	45.10	37.47	54.00	-16.53	Average	



Report No.: SZEM180700624402

Page: 113 of 115

Worse case mode: 8	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No : 6244RG

1 2 3

Mode : 2452 Band edge

Note : 2.4G11n40 Band Edge

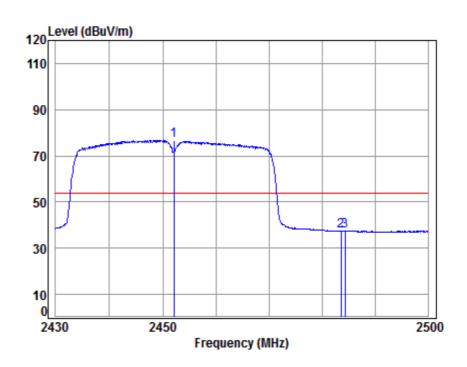
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
рр	2452.000	5.56	28.62	41.90	94.91	87.19	74.00	13.19	peak
	2483.500	5.60	28.67	41.91	56.50	48.86	74.00	-25.14	peak
	2493.831	5.61	28.69	41.91	58.12	50.51	74.00	-23.49	peak



Report No.: SZEM180700624402

Page: 114 of 115

Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Average Horizontal



Condition: 3m HORIZONTAL

Job No : 6244RG

1 2 3

Mode : 2452 Band edge

Note : 2.4G11n40 Band Edge

	Freq			Preamp Factor					Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
рр	2452.000								_	
	2483.500								_	



Report No.: SZEM180700624402

Page: 115 of 115

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

6 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1807006244RG.

The End