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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT **AND INDUSTRY CANADA RSS 247 CLASS II & IV PC REPORT**

Product Name: 802.11 a/b/g/n/ac and Bluetooth Module

acer **Brand Name:**

7265NGW Model No.:

Model Difference: N/A

FCC ID: HLZ7265NG

IC: 1754F-7265NG

E2/2017/30023 **Report No.:**

Apr. 06, 2017 **Issue Date:**

FCC Rule Part: §15.407

IC Rule Part: RSS-247 issue 2:2017

Acer Incorporated **Prepared for:**

8F., NO. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist.,

New Taipei City 221, Taiwan

SGS Taiwan Ltd. Prepared by:

> **Electronics & Communication Laboratory** No.2, Keji 1st Rd., Guishan District, Taoyuan

City, Taiwan 333



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VERIFICATION OF COMPLIANCE

Acer Incorporated **Applicant:**

8F., NO. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City

221, Taiwan

802.11 a/b/g/n/ac and Bluetooth Module **Product Name:**

acer **Brand Name:**

Model No.: 7265NGW

Model Difference: N/A

FCC ID: HLZ7265NG

IC: 1754F-7265NG

File Number: E2/2017/30023

Date of test: Mar. 08, 2017 ~ Mar. 30, 2017

Date of EUT Received: Mar. 08, 2017

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Aken Huang	Date:	Apr. 06, 2017
Prepared By:	Aken Huang/Engineer Karen Huang	Date:	Apr. 06, 2017
Approved By:	Jim Chang / Asst. Manager	Date:	Apr. 06, 2017

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Revision History

Report Number	Revision	Description	Issue Date
E2/2017/30023	Rev.00	Initial creation of document	Apr. 06, 2017

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1. GENERAL INFORMATION

1.1. Product Description

General Information of Host:

Product Name of Host:	Notebook Computer		
Brand Name:	acer		
Marketing Name of Host:	SF113-31		
Model No. of Host:	N17P2		
Model Difference:	N/A		
Hardware Version:	R1.1		
Software Version:	Win 10		
Model No. of BT/WLAN Module:	7265NGW		
Module FCC ID:	HLZ7265NG		
Module IC:	1754F-72	65NG	
Scope:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow system level ap- proval of the module in this specific host.		
Class II & Class IV Per-		b/g/n/ac and Bluetooth Module	
missive change:		ED IN Notebook Computer	
	11.25Vdc from Rechargeable Li-polymer Battery Pack or 19V by AC/DC Power Adapter		
Power Supply:	Battery:	Model No.: AP16A4K, Supplier: SEW	
	Adapter:	Model No.:ADP-45HE D, Supplier: Delta Electronics, Inc	

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WLAN 5GHz:

VVL/ (IV JOI	WLAN 5GHZ.					
Wi-Fi	Frequency Range	Channels	Rated Power (Avg.) / Average Rated Power(EIRP)	Modulation Technology	Type of Emission	
	5150~5250	4	Avg. Power: 14.31dBm EIRP: 14.30dBm		17M4D7W	
11a	5250~5350	4	Avg. Power: 15.33dBm EIRP: 14.83dBm	OFDM	17M5D7W	
IIa	5470~5725	12	Avg. Power: 13.07dBm EIRP: 15.11dBm	OFDM	18M4D7W	
	5725~5850	5	Avg. Power: 14.93dBm EIRP: 15.88dBm		16M7D7W	
	HT20 / VHT20 5150~5250	4	Avg. Power: 14.38dBm EIRP:17.38dBm		18M4D7W	
11n /	HT20 / VHT20 5250~5350	4	Avg. Power:16.54dBm EIRP:19.05dBm	OFDM	18M5D7W	
ac_20M	HT20 / VHT20 5470~5725	12	Avg. Power:14.04dBm EIRP:17.68dBm	OI DIVI	18M4D7W	
	HT20 / VHT20 5725~5850	5	Avg. Power:16.48dBm EIRP:20.44dBm		17M8D7W	
	HT40 / VHT40 5150-5250	2	Avg. Power: 16.35dBm EIRP:19.35dBm		36M6D7W	
11n /	HT40 / VHT40 5250-5350	2	Avg. Power: 18.44dBm EIRP: 20.95dBm	OFDM	36M7D7W	
ac_40M	HT40 / VHT40 5470-5725	6	Avg. Power: 16.70dBm EIRP: 20.34dBm	OI DIVI	36M6D7W	
	HT40 / VHT40 5725-5850	2	Avg. Power:17.55dBm EIRP: 21.51dBm		36M0D7W	
	VHT80 5150~5250	1	Avg. Power: 14.32dBm EIRP: 17.32dBm		75M5D7W	
11ac_80M	VHT80 5250~5350	1	Avg. Power: 14.60dBm EIRP: 17.11dBm	OFDM	75M5D7W	
TTAC_OUNT	VH180 5470~5725	3	Avg. Power:14.52dBm EIRP: 18.16dBm		75M6D7W	
	VHT80 5725-5850	1	Avg. Power: 16.56dBm EIRP: 20.52dBm		75M1D7W	



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	PIFA Antenna,
	1. Main:
	Gain: -2.28dBi (5150~5250MHz)
	Gain: -0.9dBi (5250~5350MHz)
	Gain: 0.63dBi (5470~5725MHz)
Antenna Designation	Gain: 0.95dBi (5725~5850MHz)
7 thoma Booignation	
	2. Aux:
	Gain: -0.01dBi (5150~5250MHz)
	Gain: -0.50dBi (5250~5350MHz)
	Gain: -0.720dBi (5470~5725MHz)
	Gain: -1.24dBi (5725~5850MHz)
Modulation type	CCK, DQPSK, DBPSK for DSSS
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM
	802.11 a: 6/9/12/18/24/36/48/54 Mbps
	802.11 n_20MHz: 6.5 - 144.4Mbps
Transition Rate:	802.11 n_40MHz: 13.5 – 300.0Mbps
Transilion Rate.	802.11 ac_20MHz: 6.5 –173.3Mbps
	802.11 ac_40MHz: 13.5 -400.0Mbps
	802.11 ac_80MHz: 29.3 – 866.7Mbps

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1.2. Related Submittal(s) / Grant (s)

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

FCC KDB 662911 D01 Multiple Transmitter Output

FCC KDB 644545 D03 Guidance for IEEE 802.11ac v01

Canada RSS-247 issue 2 May 2017

RSS-Gen Issue 4 Nov. 2014

ANSI C63.10:2013

Note:

All test items have been performed and record as per the above standards.

1.3. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333. (TAF code 0513)

FCC Registration Numbers are: 735305

Canada Registration Number: 4620A-5

1.4. Special Accessories

There are no special accessories used while test was conducted.

1.5. Equipment Modifications

There was no modification incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3. Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plan. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping" the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4. Measurement Results Explanation Example For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5. Configuration of Tested System

Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A

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3. SUMMARY OF TEST RESULT

FCC / IC Rules	Description Of Test	Result
§15.407(a) (1) (2)	The Maximum Output Power Measurement	Compliant
RSS-247 §6.2.1~ 4 (1)	The Maximum Gutput I ewel Medeurement	
§15.407(b) (1) (2) (3)(6) (7)	Undesirable Emission –	Compliant
RSS-247 §6.2.1~ 4 (2)	Radiated Measurement	
§15.203	Antonno Doguiroment	Compliant
§15.407(a)	Antenna Requirement	

4. DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

4 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
42	5210 MHz

Operated band in 5250 MHz ~5350 MHz:

4 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
58	5290 MHz

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Operated band in 5470 MHz ~5725 MHz:

12 channels are provided for 802.11a, 802.11n HT20, 802.11ac VHT20

provided for 662:11d; 662:11m_11126; 662:11d6_111126				
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY	
100	5500 MHz	124	5620 MHz	
104	5520 MHz	128	5640 MHz	
108	5540 MHz	132	5660 MHz	
112	5560 MHz	136	5680 MHz	
116	5580 MHz	140	5700 MHz	
120	5600 MHz	144	5720	

6 channels are provided for 802.11n_HT40, 802.11ac_VHT40

Γ.							
	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY			
	102	5510 MHz	126	5630 MHz			
	110	5550 MHz	134	5670 MHz			
	118	5590 MHz	142	5710			

3 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
106	5530 MHz
122	5610 MHz
138	5690 MHz

Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

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	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
	149	5745 MHz	161	5805 MHz
	153	5765 MHz	165	5825 MHz
	157	5785 MHz		

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
155	5775 MHz

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RADIATED EMISSION TEST.

KADIATEDE	RADIATED EMISSION TEST:					
	RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	40	OFDM	6	Aux
802.11a	5260~5320	52 to 64	60	OFDM	6	Aux
802.11a	5500~5700	100 to 140	140	OFDM	6	MAIN
802.11a	5745~5825	149 to 165	157	OFDM	6	MAIN
		В	ANDEDGE			
802.11a	E490 E240	26 to 49	36	OFDM	6	Aux
802.11n_HT20	5180~5240	36 to 48	30	OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	F000 F000	5000 504 04	0.4	OFDM	6	Aux
802.11n_HT20	5260~5320	52 to 64	64	OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	FF00 F700	100 to 110	100 110	OFDM	6	MAIN
802.11n_HT20	5500~5700	100 to 140	100, 140	OFDM	MCS8	MIMO
802.11n_HT40	5510~5670	102 to 134	102, 134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106	OFDM	MCS8	MIMO
802.11a	E74E E00E	140 to 165	140 465	OFDM	6	MAIN
802.11n_HT20	5745~5825 149 to 165	149, 165	OFDM	MCS8	MIMO	
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5755	155	155	OFDM	MCS8	MIMO

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n/ac WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

Remark: The device will not operate in 5600~5650MHz band for IC.

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ANTENNA PORT CONDUCTED MEASUREMENT:

	CONDUCTED TEST					
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	E100 E240	36 to 48	26 40 49	OFDM	6	Aux
802.11n_HT20	5180~5240	30 10 40	36,40,48	OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52 60 64	OFDM	6	Aux
802.11n_HT20	5260~5320	52 10 64	52,60,64	OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	FF00 F700	100 to 110	100 120 140	OFDM	6	MAIN
802.11n_HT20	5500~5700	100 to 140	100,120,140	OFDM	MCS8	MIMO
802.11n_HT40	5510~5670	102 to 134	102,118,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122	OFDM	MCS8	MIMO
802.11a	5745 500F			OFDM	6	MAIN
802.11n_HT20	5745~5825 149 t	149 to 165	149,157,165	OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5755	155	155	OFDM	MCS8	MIMO

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MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	
AC Power Line Conducted Emission	+/- 2.586 dB	
26 dB and 99% Emission Bandwidth	+/- 123.36 Hz	
The Maximum Output Power Measurement	+/- 1.42 dB	
Peak Power Spectral Density Measurement	+/- 1.55 dB	
Peak Excursion Measurement	+/- 1.55 dB	
Undesirable Emission –	+/- 1.55 dB	
Conducted Measurement	17 1.00 db	
Transmission in case of Absence of Information	+/- 1.55 dB	
Frequency Stability	+/- 123.36 Hz	
TPC and DFS Measurement	+/- 123.36 Hz	
Temperature	+/- 0.8 °C	
Humidity	+/- 4.7 %	
DC / AC Power Source	DC= +/- 1%, AC=+/- 0.2%	

Radiated Spurious Emission:

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	9kHz-30MHz: +/-2.87dB	
	30MHz - 180MHz: +/- 3.37dB	
Measurement uncertainty (Polarization : Vertical)	180MHz -417MHz: +/- 3.19dB	
(1 Olanzation : Vertical)	0.417GHz-1GHz: +/- 3.19dB	
	1GHz - 18GHz: +/- 4.04dB	
	18GHz - 40GHz: +/- 4.04dB	

	9kHz-30MHz: +/-2.87dB				
Magaurament uncertainty	30MHz - 167MHz: +/- 4.22dB				
Measurement uncertainty (Polarization : Horizontal)	167MHz -500MHz: +/- 3.44dB				
(Foldinzation : Florizontal)	0.5GHz-1GHz: +/- 3.39dB				
	1GHz - 18GHz: +/- 4.08dB				
	18GHz - 40GHz: +/- 4.08dB				

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

6.1 Standard Applicable:

OPERZTION Band		EUT CATEGORY	LIMIT
U-NII-1		Access Point (Mater device)	1 Watt(30dBm)
		Fixed point-to-point Acess Ponit	1 Watt(30dBm)
	V	Mobile and portable clinet device	250mW(23.98dBm)
U-NII-2A	V		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	V		1 Watt(30dBm)

According to RSS-247 §6.2.1~ 4 (1)

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or 10 + 10 log10 B
5250~5350 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log10 B EIRP shall not exceed 1.0 W or 17 + 10 log10 B, dBm
5470-5600 MHz and 5650-5725 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log10 B EIRP shall not exceed 1.0 W or 17 + 10 log10 B, dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W
Note: B is the 99% emiss	sion bandwidth in MHz.

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.

Note: Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain = -0.01+3.01=3dBi (5150MHz-5250MHz)

Effective Legacy Gain = -0.50+3.01=2.51dBi (5250MHz-5350MHz)

Effective Legacy Gain = 0.63+3.01=3.64dBi (5470MHz-5725MHz)

Effective Legacy Gain = 0.95+3.01=3.96dBi (5725MHz-5850MHz)

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6.2 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
- 3. Set the offset 10*log(1/x), n HT20=0.10, n HT40=0.12
- 4. Record the max. reading.
- 5. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
- 6. Employing step 1 to 4 obtaining per-chain basis in MIMO operation, and sum the power in linear to result the output of MIMO operation at frequency of interest (, where MIMO is applicable).

Note: For EIRP/ERP measurement complying with RSS-247 §6.2.1~ 4 (1), the formula as deduced in 1.3.2 of KDB 412172 D01 is used to calculate. ERP/EIRP = Pt + Gt - Lc, where Pt= transmitter output power measured directly at antenna port, expressing in dBm, and Gt = gain of the transmitting antenna in dBi that can be referred in antenna spec provided by the manufacturer in section 1.1, Lc = signal attenuation in the cable between the transmitting port and antenna.

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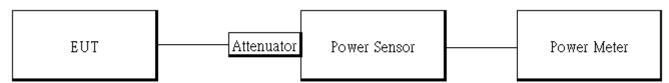


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6.3 Measurement Equipment Used:

	Conducted Emission Test Site											
Name of Equip- ment	Manufacturer	Model	Serial Num- ber	Calibration Date	Calibra- tion Due							
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017							
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017							
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017							
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017							
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017							
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017							
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2016	12/11/2017							
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017							
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017							

6.4 Test Set-up:



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6.5 Measurement Result

802.11a

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.55	22.646	23.98	PASS
40	5200	14.31	26.977	23.98	PASS
48	5240	14.19	26.242	23.98	PASS
52	5260	15.33	34.119	23.98 or 11+10log(B) =25.35	PASS
60	5300	15.15	32.734	23.98 or 11+10log(B) =25.26	PASS
64	5320	13.02	20.045	23.98 or 11+10log(B) =25.19	PASS
100	5500	13.07	20.277	23.98 or 11+10log(B) =25.06	PASS
120	5600	14.48	28.054	23.98 or 11+10log(B) =25.14	PASS
140	5700	12.98	19.861	23.98 or 11+10log(B) =25.08	PASS
149	5745	14.93	31.117	30	PASS
157	5785	14.69	29.444	30	PASS
165	5825	14.93	31.117	30	PASS

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802.11n_HT20 (MIMO)

	F	AVERAGE	POWER (dBm)	TOTAL	TOTAL	REQUIRED	
СН	Frequency (MHz)	CHAIN 0	CHAIN 1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESULT
36	5180	11.22	11.33	14.29	26.827	23.98	PASS
40	5200	11.12	11.46	14.30	26.938	23.98	PASS
48	5240	11.06	11.65	14.38	27.386	23.98	PASS
52	5260	13.55	13.25	16.41	43.781	23.98 or 11+10log(B) =25.36	PASS
60	5300	13.51	13.54	16.54	45.033	23.98 or 11+10log(B) =25.24	PASS
64	5320	11.78	11.37	14.59	28.775	23.98 or 11+10log(B) =25.11	PASS
100	5500	10.42	10.36	13.40	21.880	23.98 or 11+10log(B) =25.15	PASS
120	5600	13.95	14.47	17.23	52.821	23.98 or 11+10log(B) =25.14	PASS
140	5700	11.21	10.85	14.04	25.375	23.98 or 11+10log(B) =25.23	PASS
149	5745	13.31	13.08	16.21	41.752	30	PASS
157	5785	12.87	13.16	16.03	40.066	30	PASS
165	5825	13.26	13.67	16.48	44.465	30	PASS

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802.11n_HT40 (MIMO)

	-	AVERAGE	POWER (dBm)	TOTAL	TOTAL	REQUIRED	
СН	Frequency (MHz)	CHAIN 0	CHAIN 1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESULT
38	5190	9.65	9.83	12.75	18.842	23.98	PASS
46	5230	13.43	13.25	16.35	43.152	23.98	PASS
54	5270	15.38	15.47	18.44	69.751	23.98 or 11+10log(B) =27.77	PASS
62	5310	11.31	10.88	14.11	25.767	23.98 or 11+10log(B) =27.49	PASS
102	5510	11.43	11.32	14.39	27.451	23.98 or 11+10log(B) =27.50	PASS
118	5590	13.72	13.66	16.70	46.774	23.98 or 11+10log(B) =27.54	PASS
134	5670	13.97	14.38	16.65	46.238	23.98 or 11+10log(B) =27.55	PASS
151	5755	13.38	15.42	17.53	56.611	30	PASS
159	5795	13.44	15.42	17.55	56.914	30	PASS

802.11ac_VHT80 (MIMO)

	F	AVERAGE	POWER (dBm)	TOTAL	TOTAL	REQUIRED	
СН	Frequency (MHz)	CHAIN 0	CHAIN 1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESULT
42	5210	11.62	10.98	14.32	27.053	23.98	PASS
58	5290	11.65	11.52	14.60	28.812	23.98 or 11+10log(B) =30.17	PASS
106	5530	11.55	11.47	14.52	28.317	23.98 or 11+10log(B) =30.15	PASS
122	5610	13.83	14.47	17.17	52.144	23.98 or 11+10log(B) =30.14	PASS
155	5775	13.09	13.97	16.56	45.290	23.98	PASS

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^{*} Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.



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ERP/EIRP Measurement:

802.11a

002.11	u						
СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.55	22.646		13.54	23.01 or 10+10log(B) =22.41	PASS
40	5200	14.31	26.977	-0.01	14.30	23.01 or 10+10log(B) =22.42	PASS
48	5240	14.19	26.242		14.18	23.01 or 10+10log(B) =22.42	PASS
52	5260	15.33	34.119		14.83	30 or 17+10log(B) =29.44	PASS
60	5300	15.15	32.734	-0.50	14.65	30 or 17+10log(B) =29.43	PASS
64	5320	13.02	20.045		12.52	30 or 17+10log(B) =29.41	PASS
100	5500	13.07	20.277	0.63	13.70	30 or 17+10log(B) =29.40	PASS
140	5700	13.07	20.277	0.03	13.70	30 or 17+10log(B) =29.44	PASS
149	5745	14.93	31.117		15.88	30	PASS
157	5785	14.69	29.444	0.95	15.64	30	PASS
165	5825	14.93	31.117		15.88	30	PASS

^{*} Note: EIRP = Average Power + Gain

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802.11n_HT20 (MIMO)

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.29	26.827		17.29	23.01 or 10+10log(B) =22.65	PASS
40	5200	14.30	26.938	3.00	17.30	23.01 or 10+10log(B) =22.65	PASS
48	5240	14.38	27.386		17.38	23.01 or 10+10log(B) =22.65	PASS
52	5260	16.41	43.781		18.92	30 or 17+10log(B) =29.67	PASS
60	5300	16.54	45.033	2.51	19.05	30 or 17+10log(B) =29.67	PASS
64	5320	14.59	28.775		17.10	30 or 17+10log(B) =29.65	PASS
100	5500	13.40	21.880	3.64	17.04	30 or 17+10log(B) =29.64	PASS
140	5700	14.04	25.375	3.04	17.68	30 or 17+10log(B) =29.66	PASS
149	5745	16.21	41.752		20.17	30	PASS
157	5785	16.03	40.066	3.96	19.99	30	PASS
165	5825	16.48	44.465		20.44	30	PASS

802.11ac_HT40 (MIMO)

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.75	18.842	3.00	15.75	23.01 or 10+10log(B) =25.61	PASS
46	5230	16.35	43.152	3.00	19.35	23.01 or 10+10log(B) =25.63	PASS
54	5270	18.44	69.751	2.51	20.95	30 or 17+10log(B) =32.65	PASS
62	5310	14.11	25.767	2.51	16.62	30 or 17+10log(B) =32.62	PASS
102	5510	14.39	27.451		18.03	30 or 17+10log(B) =32.61	PASS
118	5590	16.70	46.774	3.64	20.34	30 or 17+10log(B) =32.63	PASS
134	5670	16.65	46.238		20.29	30 or 17+10log(B) =32.63	PASS
151	5755	17.53	56.611	3.96	21.49	30	PASS
159	5795	17.55	56.914	5.90	21.51	30	PASS

^{*} Note: EIRP = Average Power + Gain

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802.11ac_VHT80 (MIMO)

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
42	5210	14.32	27.053	3.00	17.32	23.01 or 10+10log(B) =28.78	PASS
58	5290	14.60	28.812	2.51	17.11	30 or 17+10log(B) =35.78	PASS
106	5530	14.52	28.317	3.64	18.16	30 or 17+10log(B) =35.79	PASS
155	5775	16.56	45.290	3.96	20.52	30	PASS

* Note: EIRP = Average Power + Gain

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7. UNDESIRABLE EMISSION - RADIATED MEASUREMENT

7.1 Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- 1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- 2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	LIMIT			
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m			
	PK: 74 (dBμV/m)	AV 54 (dBµV/m)		
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m		
15.407(b)(1)				
15.407(b)(2)	PK: -27 (dBm/MHz)	PK: 68.3 (dBµV/m)		
15.407(b)(3)				
15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4		

^{*1} beyond 75 MHz or more above of the bandedge.

EIRP = $((E^*d)^2) / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts..

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^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.



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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/F(KHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dB\mu V/m) = 20 \log Emission level (dB\mu V/m)$

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7.2 Measurement Equipment Used:

SGS 966 Chamber No.C							
Name of Equip- ment	Manufacturer	Model			Calibration Due		
EMI Test Receiver	R&S	ESU 40	100363	04/12/2016	04/11/2017		
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2016	12/22/2017		
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017		
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017		
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2016	07/23/2017		
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2016	12/11/2017		
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2016	12/11/2017		
Pre Amplifier	R&S	SCU-18	10204	12/12/2016	12/11/2017		
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2016	12/11/2017		
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2016	12/11/2017		
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017		
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2016	12/11/2017		
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2016	12/11/2017		
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2016	12/11/2017		
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2016	12/11/2017		
Attenuator	WOKEN	218FS-10	RF27	12/12/2016	12/11/2017		
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018		
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018		
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017		
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.		
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.		
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.		
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.		

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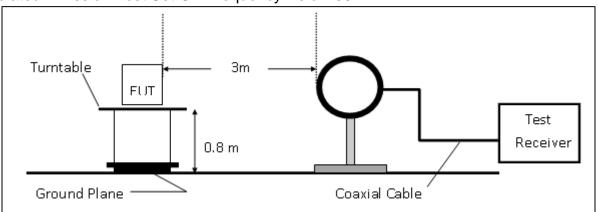
No.134 WuKunoRoand.NewTaipeilindustrialPark WukuDistrict NewTaipeiCity.Taiwan24803/新北市市股區新北產業園區五工路134 號



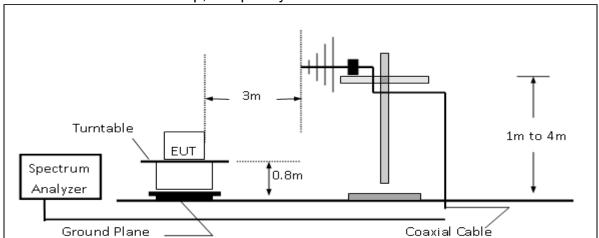
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7.3 Test SET-UP

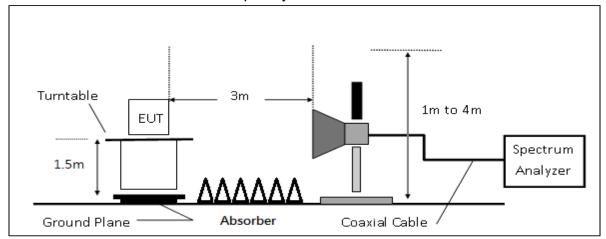
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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7.4 Measurement Procedure

- The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
- The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequen-3. cy> 1GHz above ground plane.
- The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) 6. and Quasi-peak (QP) at frequency below 1 GHz.
- Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency 7. above 1 GHz.
- Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
- 9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 11. Repeat above procedures until all frequency measured were complete.

7.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)			
	RA = Reading Amplitude	AG = Amplifier Gain			
	AF = Antenna Factor				

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) - Pre Amplifier Gain(dB)

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Note:

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency.

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

7.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

7.7 Measurement Result

Refer to attach tabular data sheets.

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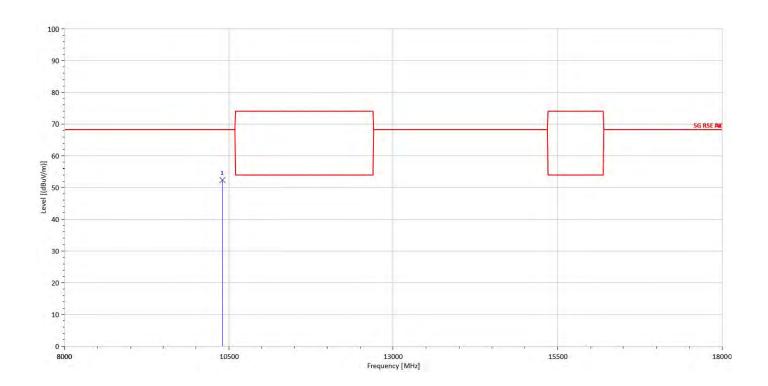
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Radiated Spurious Emission Measurement Result Above 1GHz Worst-Case Data: 802.11a, 5150~5250 MHz

Operation Mode: 802.11a Test Date: 2017/3/28

Fundamental Frequency: Temp. / Humi.: 5200 MHz 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol. : Vertical E2



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
10400.00	Н	Peak	30.58	21.80	52.38	68.3	-15.92

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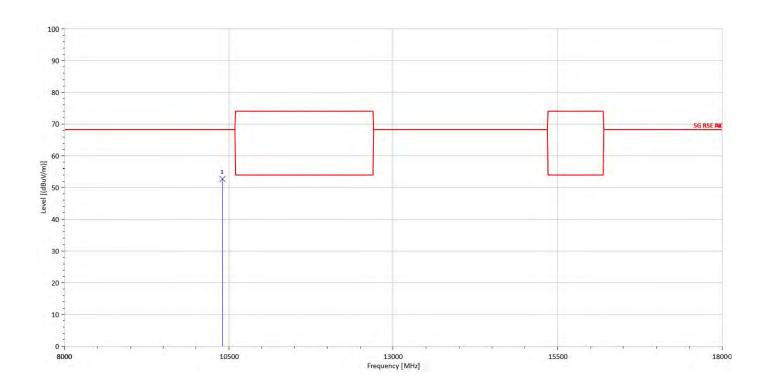


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Operation Mode: Test Date: 802.11a 2017/3/28

Temp. / Humi.: Fundamental Frequency: 5200 MHz 22.7deg_C/57RH

Operation Band: Test Engineer: Tx CH Mid Ashton EUT Pol.: Measurement Antenna Pol. : E2 Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
10400.00	Н	Peak	30.94	21.80	52.74	68.3	-15.56

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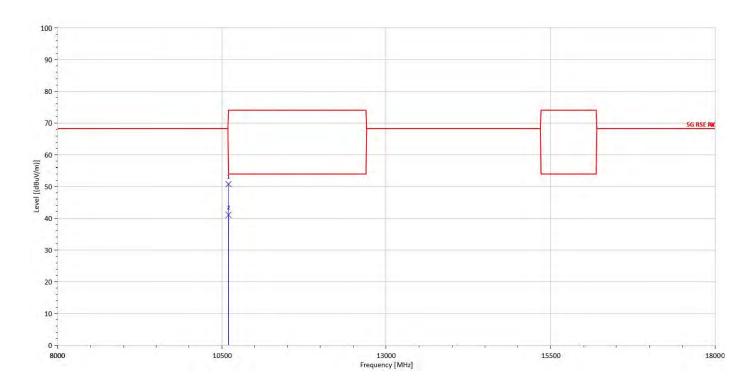
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode: 802.11a Test Date: 2017/3/28

Fundamental Frequency: Temp. / Humi.: 5300 MHz 22.7deg_C/57RH

Operation Band: Test Engineer: Tx CH Mid Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10600.00	Н	Peak	30.63	20.17	50.80	74	-23.20
10600.00	Н	Average	20.91	20.17	41.08	54	-12.92

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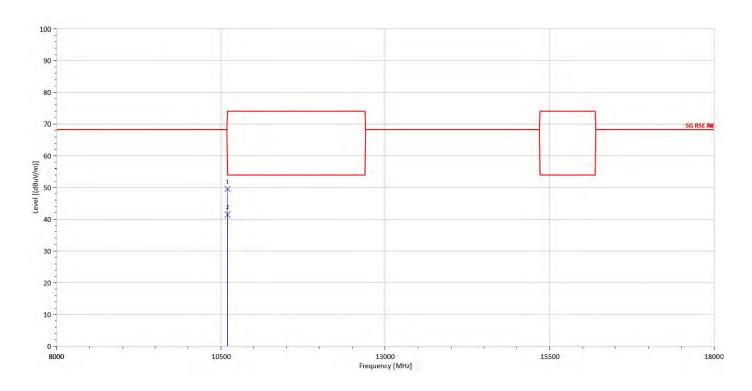


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Operation Mode: Test Date: 802.11a 2017/3/28

5300 MHz Temp. / Humi.: Fundamental Frequency: 22.7deg_C/57RH

Operation Band: Test Engineer: Tx CH Mid Ashton EUT Pol.: Measurement Antenna Pol. : E2 Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBμV/m	dBµV/m	dB
10600.00	Н	Peak	29.44	20.17	49.60	74	-24.40
10600.00	Н	Average	21.31	20.17	41.48	54	-12.52

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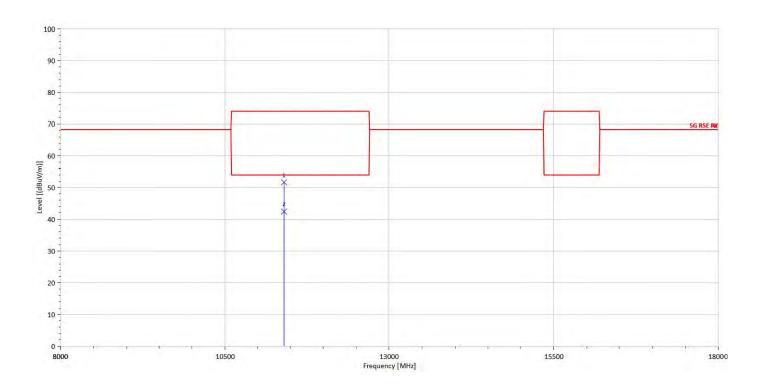
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode: 802.11a Test Date: 2017/3/28

Fundamental Frequency: Temp. / Humi.: 5700 MHz 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @ 3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
11400.00	Н	Peak	30.45	21.22	51.67	74	-22.33
11400.00	Н	Average	21.15	21.22	42.37	54	-11.63

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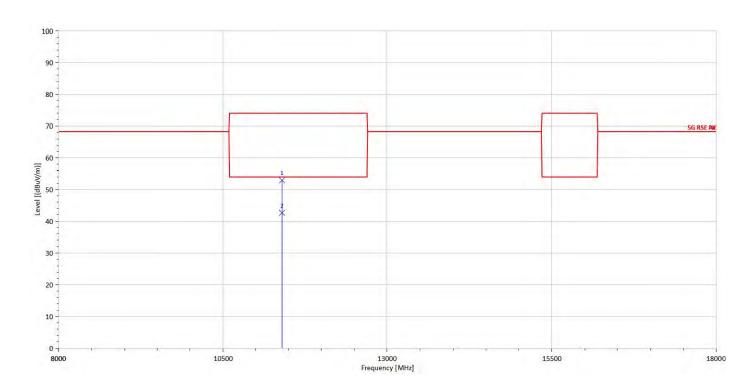


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Operation Mode: Test Date: 802.11a 2017/3/28

Temp. / Humi.: Fundamental Frequency: 5700 MHz 22.7deg_C/57RH

Operation Band: Test Engineer: Tx CH Mid Ashton EUT Pol.: Measurement Antenna Pol. : E2 Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	Н	Peak	31.74	21.22	52.96	74	-21.04
11400.00	Н	Average	21.41	21.22	42.63	54	-11.37

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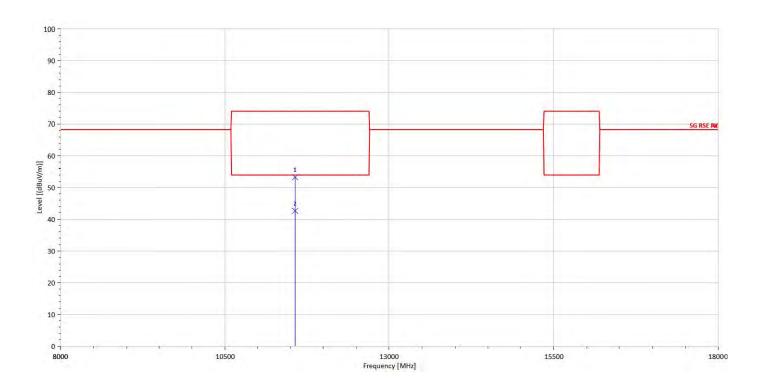
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode: 802.11a Test Date: 2017/3/28

Fundamental Frequency: Temp. / Humi.: 5785 MHz 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
11570.00	Н	Peak	31.89	21.44	53.33	74	-20.67
11570.00	Н	Average	21.18	21.44	42.62	54	-11.38

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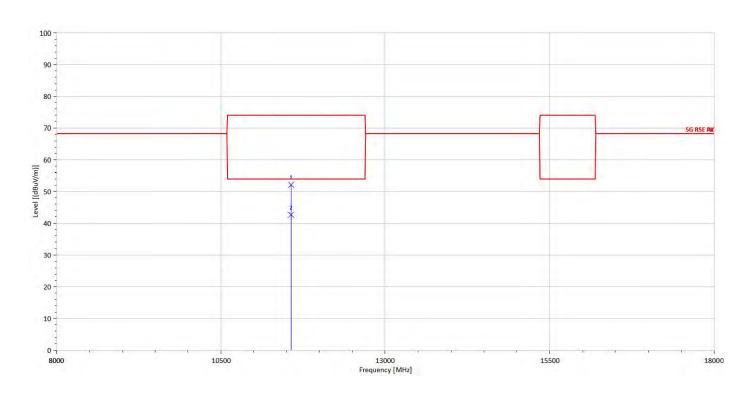


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Operation Mode: Test Date: 802.11a 2017/3/28

Temp. / Humi.: Fundamental Frequency: 5785 MHz 22.7deg_C/57RH

Operation Band: Test Engineer: Tx CH Mid Ashton EUT Pol.: Measurement Antenna Pol. : E2 Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
11570.00	Н	Peak	30.73	21.44	52.17	74	-21.83
11570.00	Н	Average	21.18	21.44	42.62	54	-11.38

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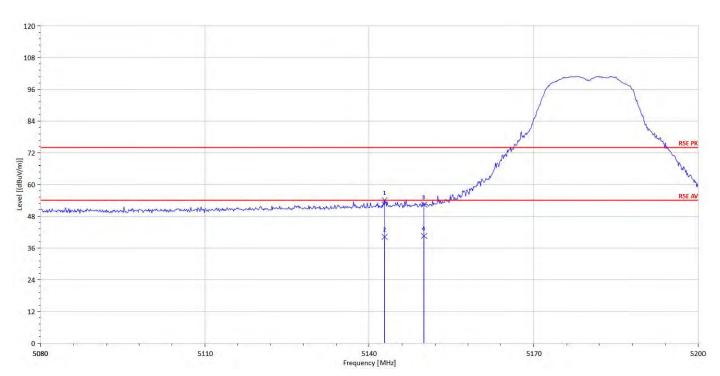
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Band edge falling to restricted band 802.11a mode

Operation Mode: 802.11a Test Date: 2017/3/27

22.7deg_C/57RH Fundamental Frequency: 5180 MHz Temp. / Humi.:

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Vertical E2



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5142.76	S	Peak	45.88	8.15	54.03	74	-19.97
5142.76	S	Average	32.08	8.15	40.23	54	-13.77
5150.00	E	Peak	44.17	8.19	52.36	74	-21.64
5150.00	Е	Average	32.39	8.19	40.58	54	-13.42

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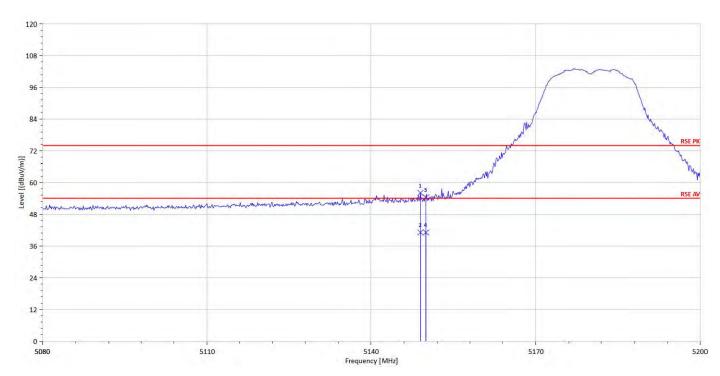


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Operation Mode: 802.11a Test Date: 2017/3/27

Fundamental Frequency: 5180 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5149.00	S	Peak	47.88	8.19	56.07	74	-17.93
5149.00	S	Average	32.97	8.19	41.16	54	-12.84
5150.00	E	Peak	46.17	8.19	54.36	74	-19.64
5150.00	Е	Average	32.93	8.19	41.12	54	-12.88

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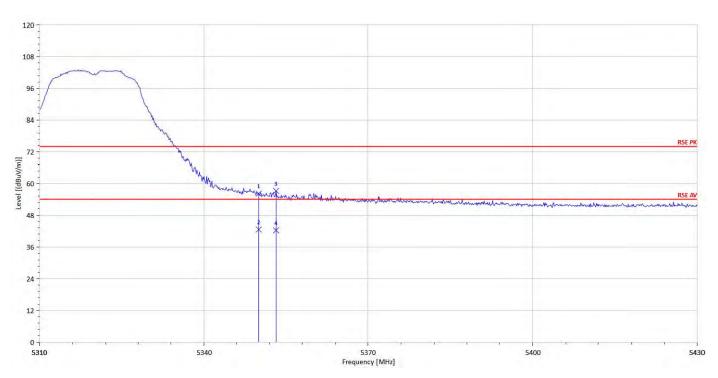


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Operation Mode: Test Date: 802.11a 2017/3/27

Temp. / Humi.: Fundamental Frequency: 5320 MHz 22.7deg_C/57RH

Operation Band: Test Engineer: BE CH High Ashton EUT Pol.: Measurement Antenna Pol.: E2 Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	Е	Peak	47.21	8.96	56.17	74	-17.83
5350.00	E	Average	33.70	8.96	42.66	54	-11.34
5353.20	S	Peak	48.24	8.98	57.22	74	-16.78
5353.20	S	Average	33.35	8.98	42.33	54	-11.67

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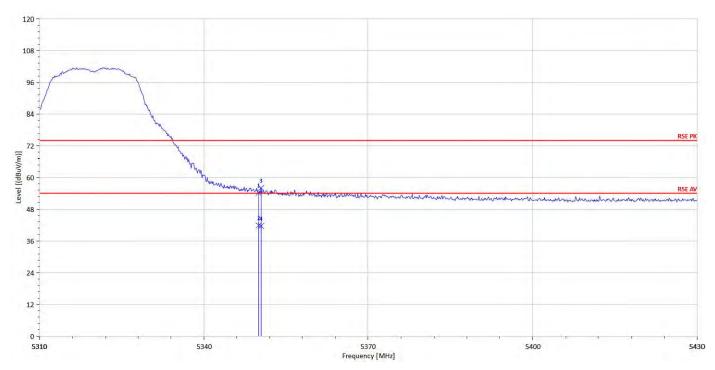


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Operation Mode: Test Date: 2017/3/27 802.11a

Fundamental Frequency: 5320 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Horizontal E2



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	45.26	8.96	54.22	74	-19.78
5350.00	Ε	Average	32.91	8.96	41.87	54	-12.13
5350.44	S	Peak	47.05	8.97	56.02	74	-17.98
5350.44	S	Average	32.73	8.97	41.70	54	-12.30

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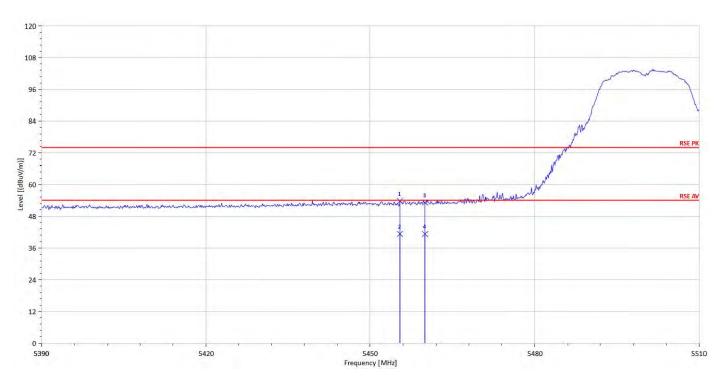


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Operation Mode: Test Date: 802.11a 2017/3/27

Fundamental Frequency: 5500 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Test Engineer: **BE CH Low** Ashton Vertical EUT Pol.: Measurement Antenna Pol.: E2



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5455.40	S	Peak	44.81	8.93	53.74	74	-20.26
5455.40	S	Average	32.45	8.93	41.38	54	-12.62
5460.00	E	Peak	44.25	8.88	53.13	74	-20.87
5460.00	Е	Average	32.43	8.88	41.31	54	-12.69

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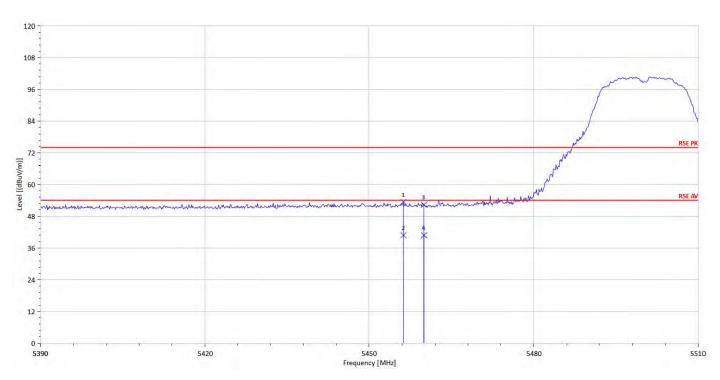


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Operation Mode: Test Date: 802.11a 2017/3/27

Fundamental Frequency: 5500 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Test Engineer: **BE CH Low** Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5456.24	S	Peak	44.46	8.92	53.38	74	-20.62
5456.24	S	Average	31.94	8.92	40.86	54	-13.14
5460.00	Е	Peak	43.41	8.88	52.30	74	-21.70
5460.00	E	Average	31.96	8.88	40.84	54	-13.16

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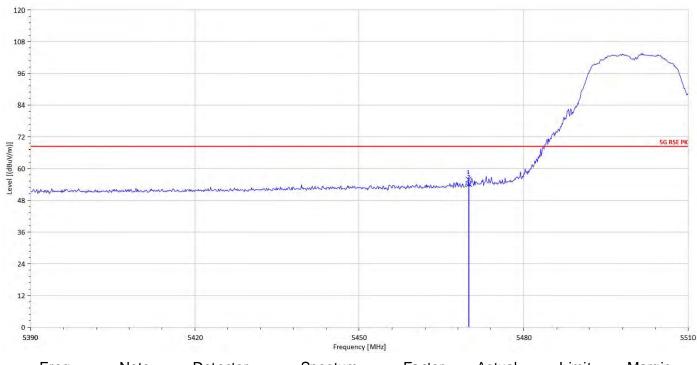


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Operation Mode: 802.11a Test Date: 2017/3/27

Fundamental Frequency: 5500 MHz Temp. / Humi. : 22.7deg C/57RH

Operation Band: BE CH Low RSE Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
5469.92	S	Peak	47.01	8.79	55.80	68.3	-12.50
5470.00	Е	Peak	45.30	8.79	54.09	68.3	-14.21

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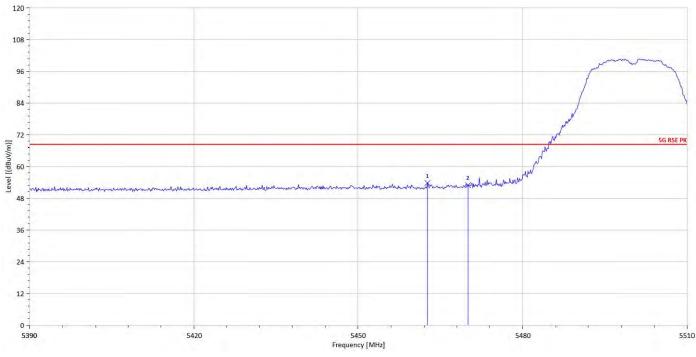


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Operation Mode: 802.11a Test Date: 2017/3/27

Fundamental Frequency: 5500 MHz Temp. / Humi. : 22.7deg C/57RH

Operation Band: BE CH Low RSE Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5462.60	S	Peak	44.87	8.86	53.73	68.3	-14.57
5470.00	E	Peak	44.09	8.79	52.88	68.3	-15.42

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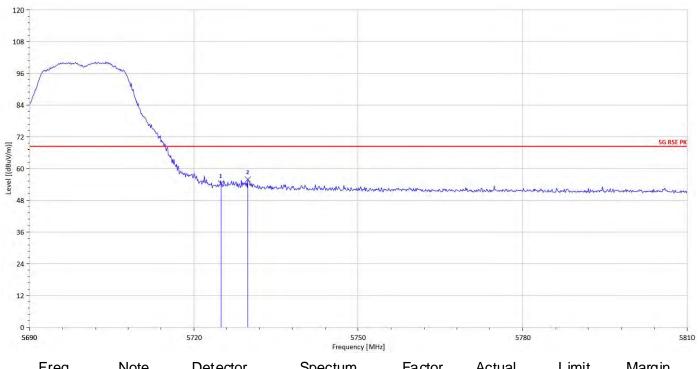


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Operation Mode: Test Date: 2017/3/27 802.11a

Fundamental Frequency: 5700 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
5725.00	Е	Peak	45.04	9.30	54.34	68.3	-13.96	
5729.84	S	Peak	46.55	9.29	55.85	68.3	-12.45	

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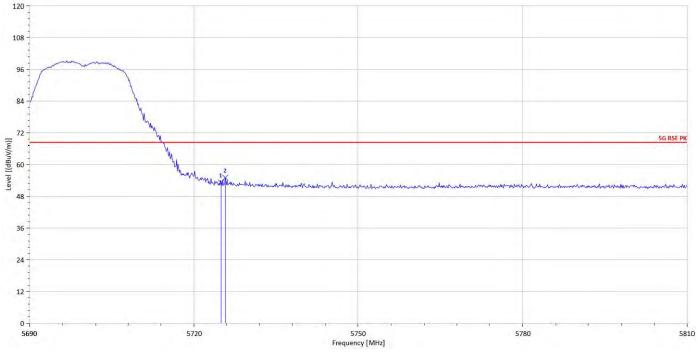


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Operation Mode: Test Date: 2017/3/27 802.11a

Fundamental Frequency: 5700 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Horizontal E2



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5725.00	Е	Peak	43.78	9.30	53.08	68.3	-15.22
5725.76	S	Peak	45.70	9.30	55.00	68.3	-13.30

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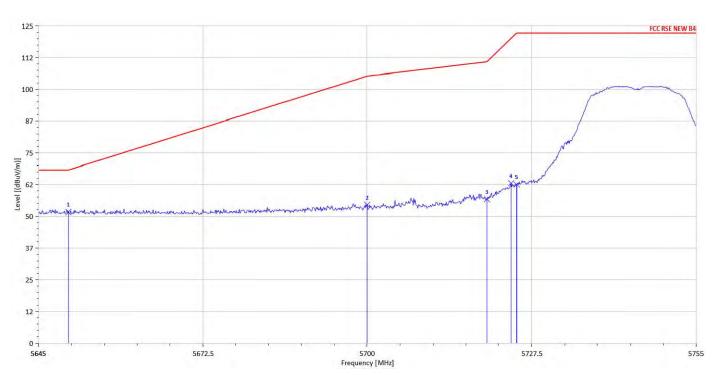


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Operation Mode: Test Date: 802.11a 2017/3/27

Fundamental Frequency: 5745 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Test Engineer: **BE CH Low** Ashton EUT Pol.: Measurement Antenna Pol.: Vertical E2



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5650.00	S	Peak	42.34	9.33	51.67	68.23	-16.56
5700.00	S	Peak	45.01	9.44	54.45	105.23	-50.78
5720.00	S	Peak	47.41	9.28	56.69	110.83	-54.14
5724.09	S	Peak	53.75	9.30	63.05	120.1548	-57.11
5725.00	Е	Peak	53.22	9.30	62.52	122.23	-59.71

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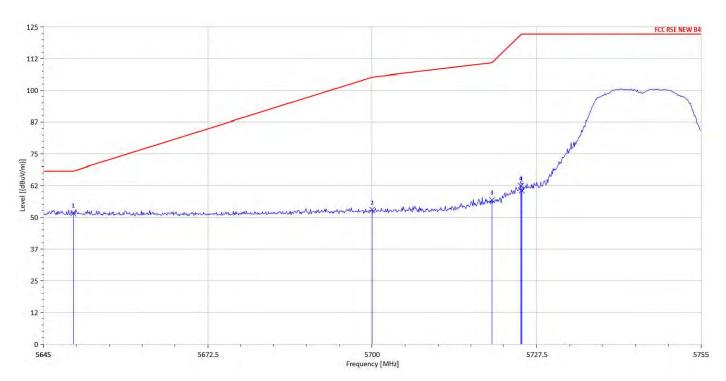


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Operation Mode: 802.11a Test Date: 2017/3/27

Fundamental Frequency: 5745 MHz Temp. / Humi.: 22.7deg C/57RH

Test Engineer: Operation Band: BE CH Low Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5650.00	S	Peak	42.30	9.33	51.63	68.23	-16.60
5700.00	S	Peak	43.46	9.44	52.90	105.23	-52.33
5720.00	S	Peak	47.48	9.28	56.76	110.83	-54.07
5724.86	S	Peak	53.17	9.30	62.47	121.9105	-59.44
5725.00	E	Peak	51.17	9.30	60.47	122.23	-61.76

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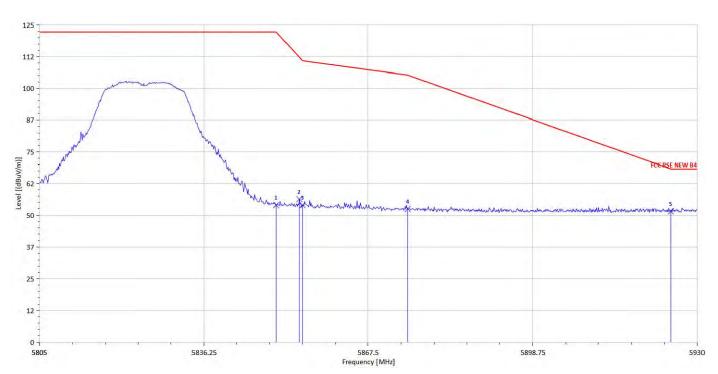


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Operation Mode: Test Date: 802.11a 2017/3/27

5825 MHz Temp. / Humi.: Fundamental Frequency: 22.7deg_C/57RH

Operation Band: Test Engineer: BE CH High Ashton EUT Pol.: Measurement Antenna Pol.: E2 Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	Е	Peak	44.45	9.49	53.94	122.23	-68.29
5854.38	S	Peak	46.74	9.57	56.31	112.255	<i>-</i> 55.94
5855.00	S	Peak	44.32	9.58	53.90	110.83	<i>-</i> 56.93
5875.00	S	Peak	42.86	9.63	52.49	105.23	-52.74
5925.00	S	Peak	41.56	10.01	51.57	68.23	-16.66

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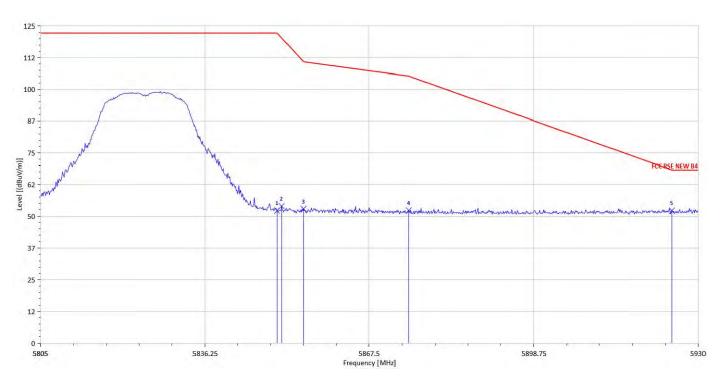


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Operation Mode: Test Date: 802.11a 2017/3/27

Temp. / Humi.: 22.7deg_C/57RH Fundamental Frequency: 5825 MHz

Operation Band: Test Engineer: BE CH High Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	42.72	9.49	52.20	122.23	-70.03
5850.88	S	Peak	44.42	9.50	53.93	120.235	-66.31
5855.00	S	Peak	43.28	9.58	52.86	110.83	<i>-</i> 57.97
5875.00	S	Peak	42.63	9.63	52.26	105.23	-52.97
5925.00	S	Peak	42.17	10.01	52.18	68.23	-16.05

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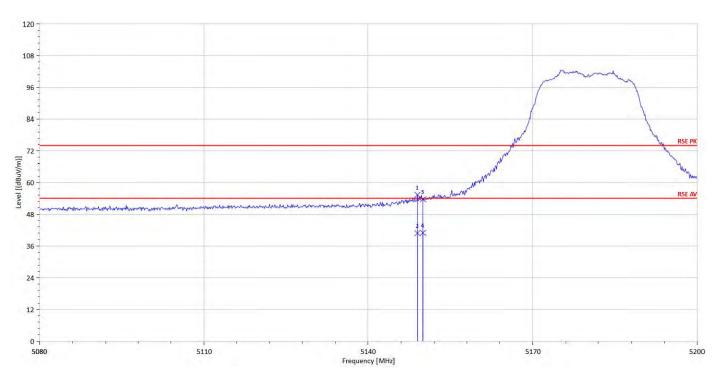
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Band edge falling to restricted band 802.11n_HT20 mode

Operation Mode: 802.11n20 Test Date: 2017/3/27

Fundamental Frequency: 22.7deg_C/57RH 5180 MHz Temp. / Humi.:

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Vertical E2



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5149.00	S	Peak	47.14	8.19	55.32	74	-18.68
5149.00	S	Average	32.68	8.19	40.87	54	-13.13
5150.00	Е	Peak	45.44	8.19	53.63	74	-20.37
5150.00	Ε	Average	32.82	8.19	41.01	54	-12.99

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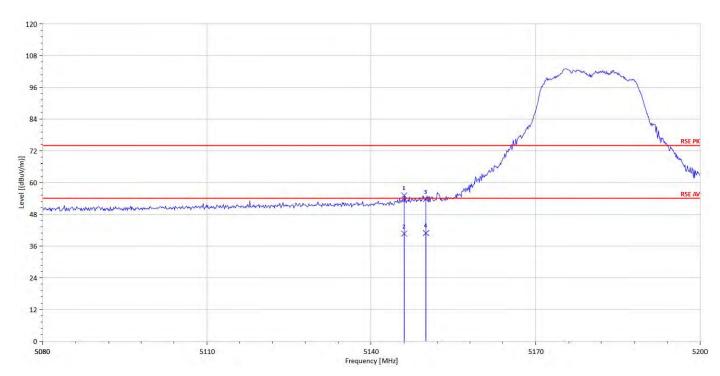


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Operation Mode: 802.11n20 Test Date: 2017/3/27

Fundamental Frequency: 5180 MHz Temp. / Humi.: 22.7deg C/57RH

Test Engineer: Operation Band: BE CH Low Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5146.00	S	Peak	46.93	8.17	55.09	74	-18.91
5146.00	S	Average	32.52	8.17	40.69	54	-13.31
5150.00	E	Peak	45.45	8.19	53.64	74	-20.36
5150.00	Е	Average	32.72	8.19	40.91	54	-13.09

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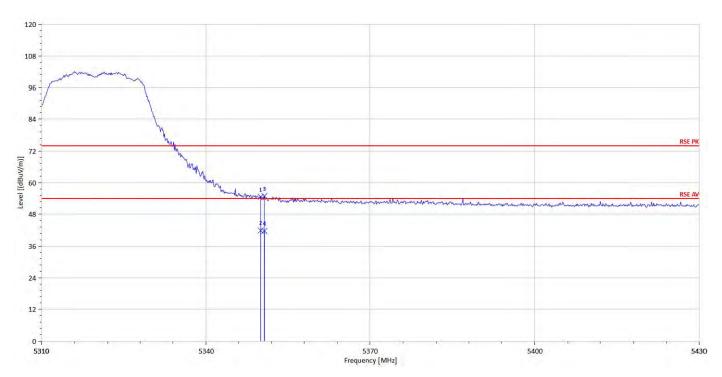


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Operation Mode: 802.11n20 Test Date: 2017/3/27

Fundamental Frequency: 5320 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	Е	Peak	45.68	8.96	54.65	74	-19.35
5350.00	E	Average	32.97	8.96	41.93	54	-12.07
5350.68	S	Peak	45.96	8.98	54.93	74	-19.07
5350.68	S	Average	32.81	8.98	41.79	54	-12.21

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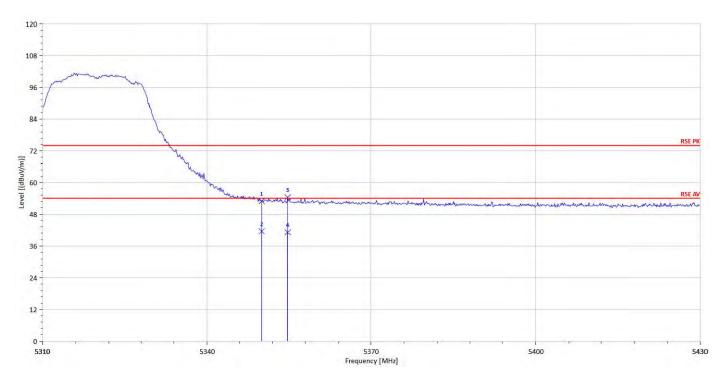


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Operation Mode: 802.11n20 Test Date: 2017/3/27

Fundamental Frequency: 5320 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Test Engineer: BE CH High **Ashton** EUT Pol.: Measurement Antenna Pol.: E2 Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	43.96	8.96	52.93	74	-21.07
5350.00	Е	Average	32.61	8.96	41.57	54	-12.43
5354.76	S	Peak	45.40	8.97	54.37	74	-19.63
5354.76	S	Average	32.25	8.97	41.22	54	-12.78

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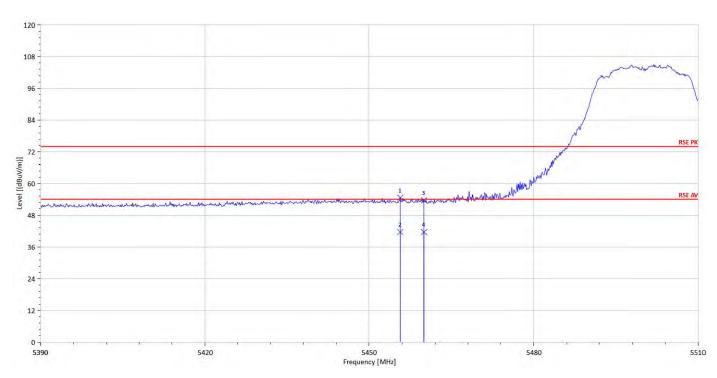


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Operation Mode: Test Date: 802.11n20 2017/3/27

Fundamental Frequency: 5500 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Test Engineer: **BE CH Low** Ashton Vertical EUT Pol.: Measurement Antenna Pol.: E2



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5455.64	S	Peak	45.67	8.92	54.59	74	-19.41
5455.64	S	Average	32.75	8.92	41.67	54	-12.33
5460.00	E	Peak	44.73	8.88	53.62	74	-20.38
5460.00	E	Average	32.78	8.88	41.66	54	-12.34

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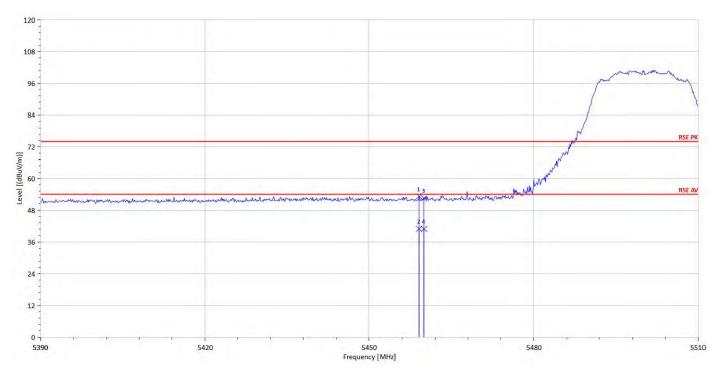


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Operation Mode: 802.11n20 Test Date: 2017/3/27

Fundamental Frequency: 5500 MHz Temp. / Humi.: 22.7deg C/57RH

Test Engineer: Operation Band: BE CH Low Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5459.12	S	Peak	44.31	8.89	53.20	74	-20.80
5459.12	S	Average	32.12	8.89	41.01	54	-12.99
5460.00	E	Peak	43.59	8.88	52.48	74	-21.52
5460.00	Е	Average	32.09	8.88	40.97	54	-13.03

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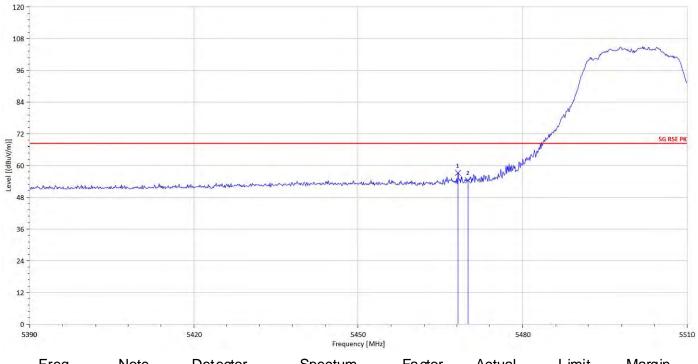


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Operation Mode: 802.11n20 Test Date: 2017/3/27

Fundamental Frequency: 5500 MHz Temp. / Humi. : 22.7deg C/57RH

Operation Band: BE CH Low RSE Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5468.24	S	Peak	48.41	8.80	57.22	68.3	-11.08
5470.00	E	Peak	45.57	8.79	54.36	68.3	-13.94

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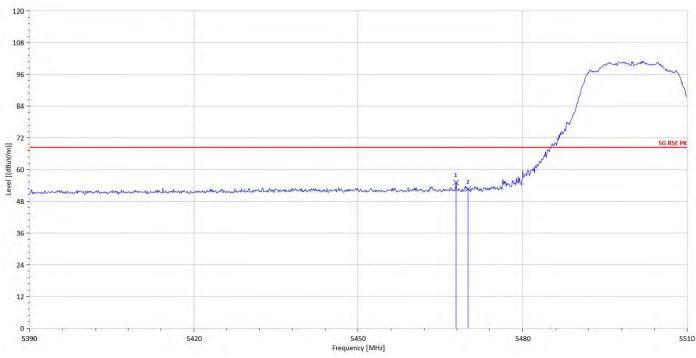


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Operation Mode: 802.11n20 Test Date: 2017/3/27

Fundamental Frequency: 5500 MHz Temp. / Humi. : 22.7deg C/57RH

Operation Band: BE CH Low RSE Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5467.88	S	Peak	46.27	8.81	55.08	68.3	-13.22
5470.00	E	Peak	43.82	8.79	52.61	68.3	-15.69

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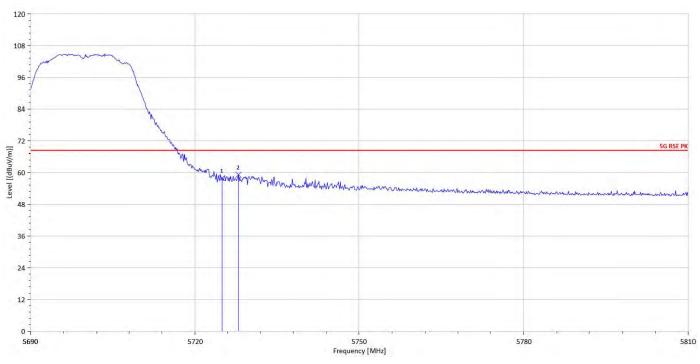


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Operation Mode: Test Date: 802.11n20 2017/3/27

Temp. / Humi.: Fundamental Frequency: 5700 MHz 22.7deg_C/57RH

Operation Band: Test Engineer: BE CH High Ashton EUT Pol.: Measurement Antenna Pol.: E2 Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5725.00	Е	Peak	48.56	9.30	57.86	68.3	-10.44
5727.92	S	Peak	49.85	9.30	59.15	68.3	- 9.15

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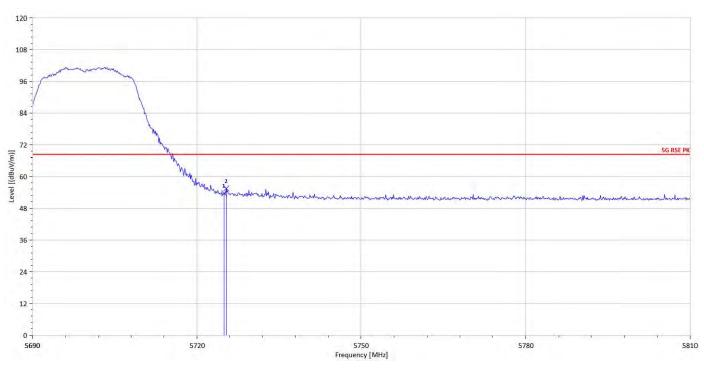


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Operation Mode: Test Date: 802.11n20 2017/3/27

Temp. / Humi.: Fundamental Frequency: 5700 MHz 22.7deg_C/57RH

Operation Band: Test Engineer: BE CH High Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Peak	44.32	9.30	53.62	68.3	-14.68
5725.40	S	Peak	46.18	9.30	55.48	68.3	-12.82

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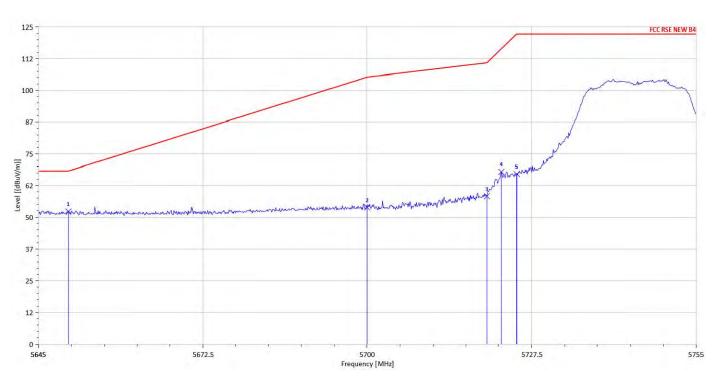


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Operation Mode: Test Date: 802.11n20 2017/3/27

Fundamental Frequency: 5745 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Test Engineer: **BE CH Low** Ashton EUT Pol.: Measurement Antenna Pol.: Vertical E2



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5650.00	S	Peak	42.84	9.33	52.17	68.23	-16.06
5700.00	S	Peak	44.40	9.44	53.84	105.23	-51.39
5720.00	S	Peak	49.00	9.28	58.28	110.83	-52.55
5722.44	S	Peak	58.64	9.29	67.93	116.3931	-48.46
5725.00	Е	Peak	57.78	9.30	67.08	122.23	-55.15

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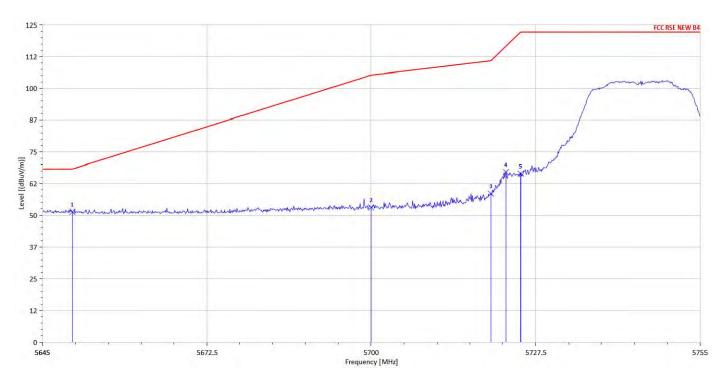


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Operation Mode: 802.11n20 Test Date: 2017/3/27

Fundamental Frequency: 5745 MHz Temp. / Humi.: 22.7deg C/57RH

Test Engineer: Operation Band: BE CH Low Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5650.00	S	Peak	42.05	9.33	51.39	68.23	-16.84
5700.00	S	Peak	43.57	9.44	53.01	105.23	-52.22
5720.00	S	Peak	49.21	9.28	58.50	110.83	-52.33
5722.55	S	Peak	57.77	9.29	67.06	116.6436	-49.58
5725.00	E	Peak	57.18	9.30	66.48	122.23	-55.75

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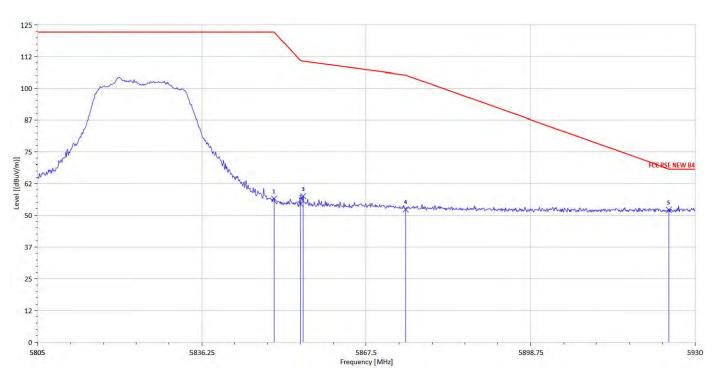


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Operation Mode: Test Date: 802.11n20 2017/3/27

Temp. / Humi.: Fundamental Frequency: 5825 MHz 22.7deg_C/57RH

Operation Band: Test Engineer: BE CH High Ashton EUT Pol.: Measurement Antenna Pol.: E2 Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	Е	Peak	47.06	9.49	56.54	122.23	-65.69
5855.00	S	Peak	44.77	9.58	54.35	110.83	-56.48
5855.50	S	Peak	47.92	9.59	57.51	110.69	-53.18
5875.00	S	Peak	42.68	9.63	52.31	105.23	-52.92
5925.00	S	Peak	42.11	10.01	52.13	68.23	-16.10

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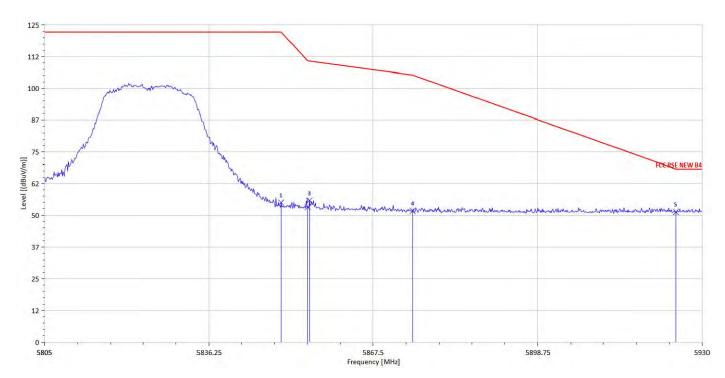


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Operation Mode: 802.11n20 Test Date: 2017/3/27

Fundamental Frequency: 5825 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Test Engineer: BE CH High **Ashton** EUT Pol.: Measurement Antenna Pol.: E2 Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	45.47	9.49	54.96	122.23	-67.27
5855.00	S	Peak	43.53	9.58	53.11	110.83	-57.72
5855.38	S	Peak	46.18	9.59	55.77	110.725	-54.95
5875.00	S	Peak	42.10	9.63	51.74	105.23	-53.49
5925.00	S	Peak	41.29	10.01	51.31	68.23	-16.92

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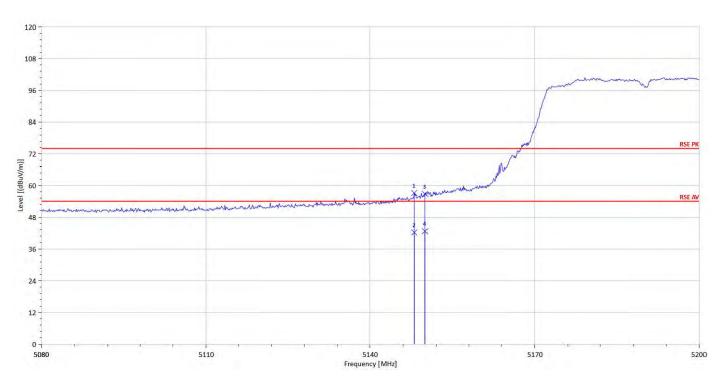
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Band edge falling to restricted band 802.11n_HT40 mode

Operation Mode: 802.11n40 Test Date: 2017/3/27

Fundamental Frequency: 22.7deg_C/57RH 5190 MHz Temp. / Humi.:

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Vertical E2



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5148.04	S	Peak	48.98	8.18	57.16	74	-16.84
5148.04	S	Average	34.13	8.18	42.31	54	-11.69
5150.00	Е	Peak	48.60	8.19	56.79	74	-17.21
5150.00	Ε	Average	34.56	8.19	42.75	54	-11.25

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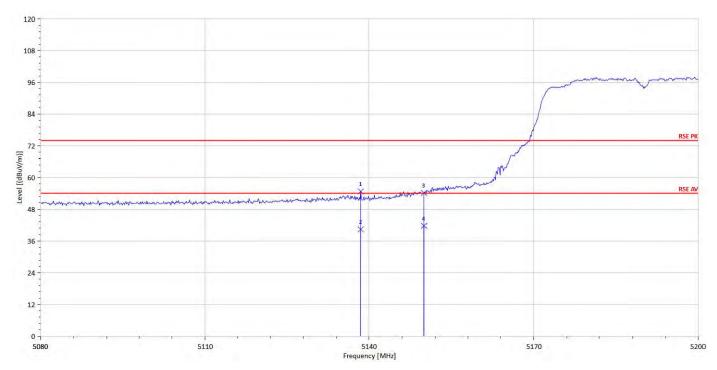


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Operation Mode: 802.11n40 Test Date: 2017/3/27

Fundamental Frequency: 5190 MHz Temp. / Humi.: 22.7deg C/57RH

Test Engineer: Operation Band: BE CH Low Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5138.44	S	Peak	46.59	8.12	54.71	74	-19.29
5138.44	S	Average	32.27	8.12	40.39	54	-13.61
5150.00	E	Peak	45.98	8.19	54.17	74	-19.83
5150.00	E	Average	33.59	8.19	41.78	54	-12.22

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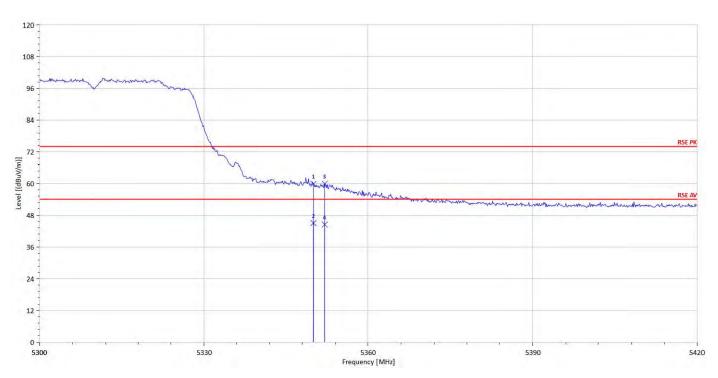


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Operation Mode: Test Date: 802.11n40 2017/3/27

Fundamental Frequency: Temp. / Humi.: 5310 MHz 22.7deg_C/57RH

Operation Band: Test Engineer: BE CH High Ashton EUT Pol.: Measurement Antenna Pol.: E2 Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	Е	Peak	50.95	8.96	59.91	74	-14.09
5350.00	Ε	Average	36.14	8.96	45.10	54	-8.90
5352.08	S	Peak	50.95	9.00	59.95	74	-14.05
5352.08	S	Average	35.55	9.00	44.55	54	-9.45

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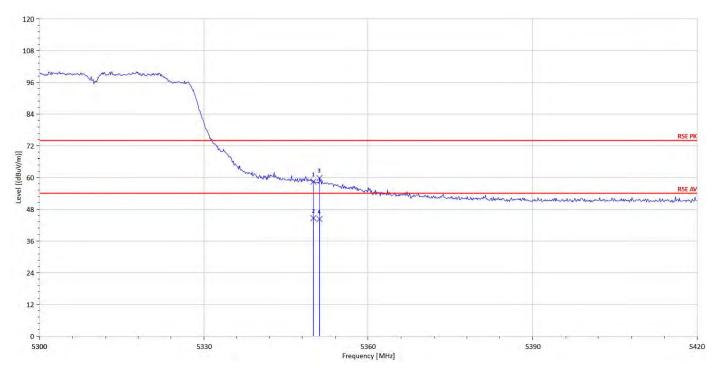


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Operation Mode: 802.11n40 Test Date: 2017/3/27

Fundamental Frequency: 5310 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Test Engineer: BE CH High **Ashton** EUT Pol.: Measurement Antenna Pol.: E2 Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	49.46	8.96	58.43	74	-15.57
5350.00	E	Average	35.75	8.96	44.71	54	-9.29
5351.12	S	Peak	50.85	8.98	59.83	74	-14.17
5351.12	S	Average	35.39	8.98	44.37	54	-9.63

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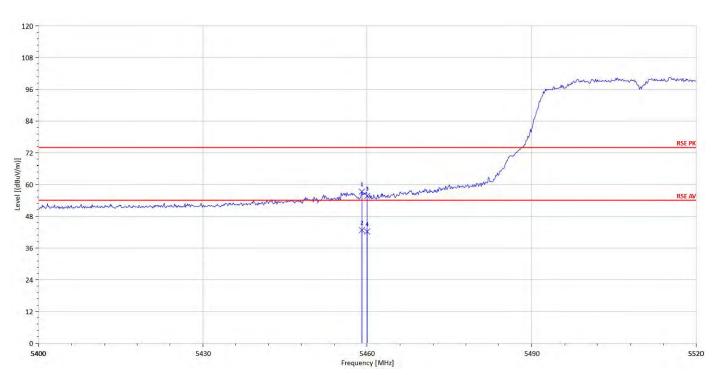


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Operation Mode: Test Date: 802.11n40 2017/3/27

Fundamental Frequency: 5510 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Test Engineer: **BE CH Low** Ashton EUT Pol.: Measurement Antenna Pol.: Vertical E2



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5459.04	S	Peak	48.46	8.89	57.35	74	-16.65
5459.04	S	Average	33.91	8.89	42.80	54	-11.20
5460.00	E	Peak	46.78	8.88	55.66	74	-18.34
5460.00	E	Average	33.36	8.88	42.24	54	-11.76

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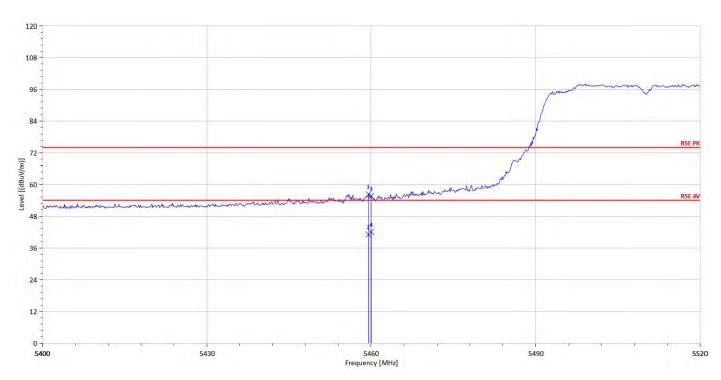


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Operation Mode: Test Date: 802.11n40 2017/3/27

Fundamental Frequency: 5510 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Test Engineer: **BE CH Low** Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5459.52	S	Peak	47.46	8.89	56.34	74	-17.66
5459.52	S	Average	32.23	8.89	41.12	54	-12.88
5460.00	E	Peak	46.78	8.88	55.66	74	-18.34
5460.00	E	Average	33.22	8.88	42.10	54	-11.90

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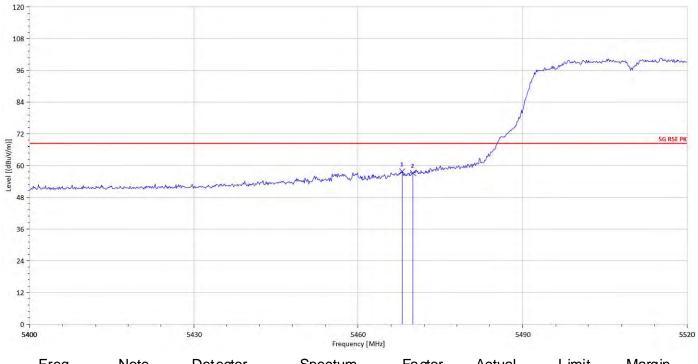


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Operation Mode: 802.11n40 Test Date: 2017/3/27

Fundamental Frequency: 5510 MHz Temp. / Humi. : 22.7deg C/57RH

Operation Band: BE CH Low RSE Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5468.04	S	Peak	48.94	8.81	57.75	68.3	-10.55
5470.00	E	Peak	48.36	8.79	57.15	68.3	-11.15

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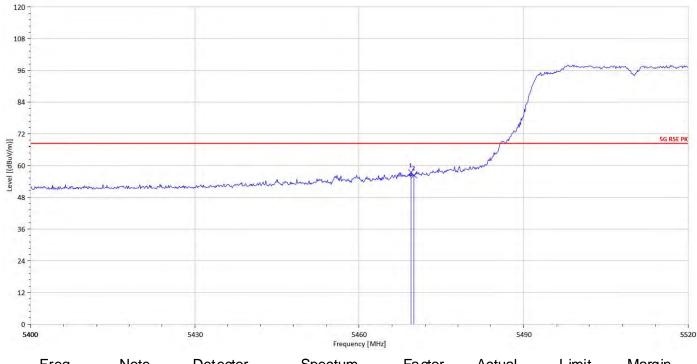


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Operation Mode: 802.11n40 Test Date: 2017/3/27

Fundamental Frequency: 5510 MHz Temp. / Humi. : 22.7deg C/57RH

Operation Band: BE CH Low RSE Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5469.48	S	Peak	48.62	8.79	57.41	68.3	-10.89
5470.00	E	Peak	47.51	8.79	56.30	68.3	-12.00

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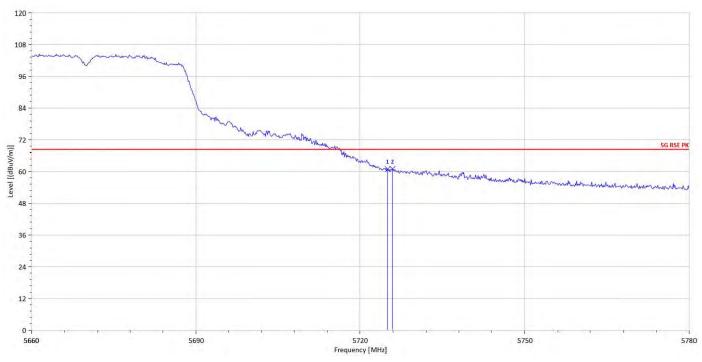


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Operation Mode: Test Date: 802.11n40 2017/3/27

Fundamental Frequency: 5670 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Test Engineer: BE CH High Ashton EUT Pol.: Measurement Antenna Pol.: E2 Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5725.00	Е	Peak	51.64	9.30	60.94	68.3	-7.36
5725.88	S	Peak	51.71	9.30	61.02	68.3	-7.28

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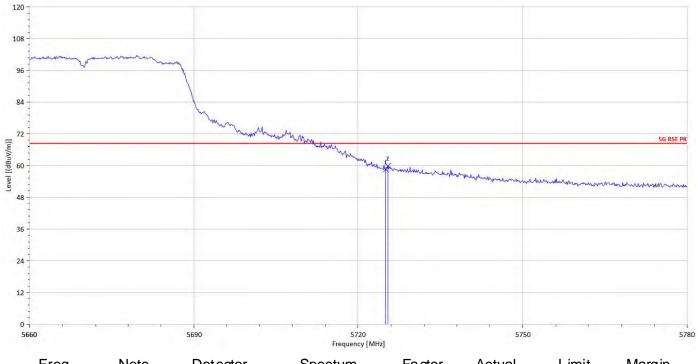


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Operation Mode: Test Date: 2017/3/27 802.11n40

Fundamental Frequency: 5670 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Test Engineer: BE CH High **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



	Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin	
			Mode	Reading Level		FS	@3m		
_	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
	5725.00	Е	Peak	49.22	9.30	58.52	68.3	-9.78	_
	5725.40	S	Peak	50.58	9.30	59.89	68.3	- 8.41	

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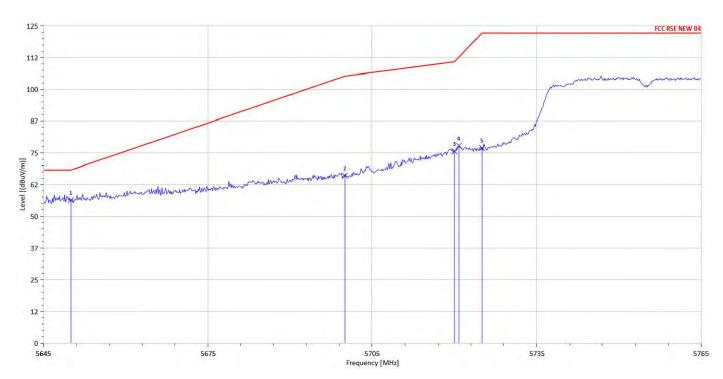


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Operation Mode: 802.11n40 Test Date: 2017/3/27

Fundamental Frequency: 5755 MHz Temp. / Humi.: 22.7deg C/57RH

Test Engineer: Operation Band: BE CH Low Ashton EUT Pol.: Measurement Antenna Pol.: E2 Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5650.00	S	Peak	46.98	9.33	56.31	68.23	-11.92
5700.00	S	Peak	56.56	9.44	66.00	105.23	-39.23
5720.00	S	Peak	66.31	9.28	75.59	110.83	-35.24
5720.84	S	Peak	68.51	9.28	77.79	112.7448	-34.95
5725.00	E	Peak	67.65	9.30	76.95	122.23	-45.28

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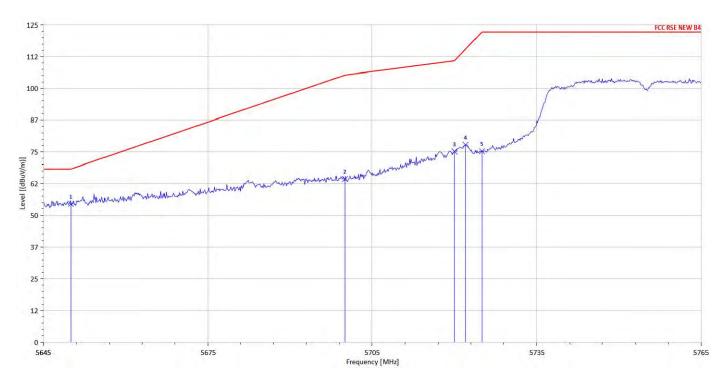


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Operation Mode: 802.11n40 Test Date: 2017/3/27

Fundamental Frequency: 5755 MHz Temp. / Humi.: 22.7deg C/57RH

Test Engineer: Operation Band: BE CH Low Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5650.00	S	Peak	45.11	9.33	54.44	68.23	-13.79
5700.00	S	Peak	54.85	9.44	64.29	105.23	-40.94
5720.00	S	Peak	65.82	9.28	75.10	110.83	-35.73
5722.04	S	Peak	68.47	9.29	77.76	115.4813	-37.72
5725.00	E	Peak	65.88	9.30	75.19	122.23	-47.04

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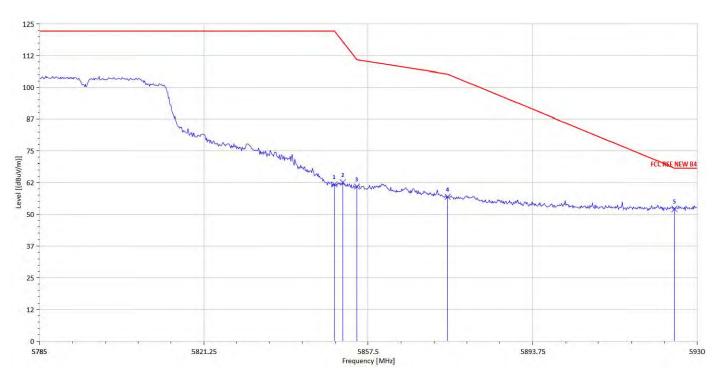


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Operation Mode: Test Date: 802.11n40 2017/3/27

Fundamental Frequency: 5795 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Test Engineer: BE CH High Ashton EUT Pol.: Measurement Antenna Pol.: E2 Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	52.30	9.49	61.79	122.23	-60.44
5851.85	S	Peak	53.12	9.52	62.65	118.0229	-55.38
5855.00	S	Peak	51.35	9.58	60.93	110.83	-49.90
5875.00	S	Peak	47.21	9.63	56.84	105.23	-48.39
5925.00	S	Peak	42.12	10.01	52.13	68.23	-16.10

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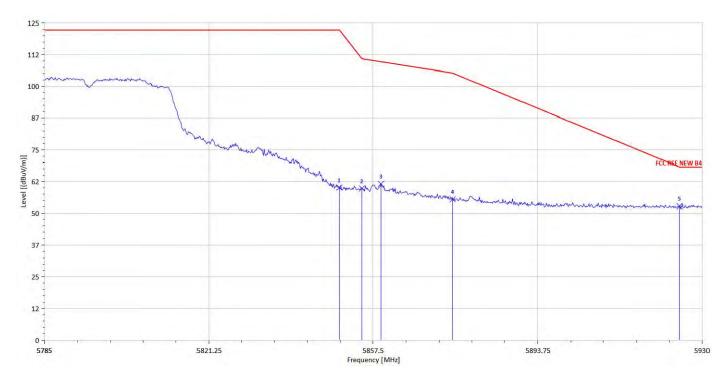


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Operation Mode: 802.11n40 Test Date: 2017/3/27

Fundamental Frequency: 5795 MHz Temp. / Humi.: 22.7deg C/57RH

Test Engineer: Operation Band: BE CH High **Ashton** EUT Pol.: Measurement Antenna Pol.: E2 Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	Е	Peak	50.67	9.49	60.15	122.23	-62.08
5855.00	S	Peak	50.20	9.58	59.78	110.83	-51.05
5859.24	S	Peak	51.93	9.66	61.59	109.6427	-48.05
5875.00	S	Peak	45.83	9.63	55.47	105.23	-49.76
5925.00	S	Peak	42.73	10.01	52.74	68.23	-15.49

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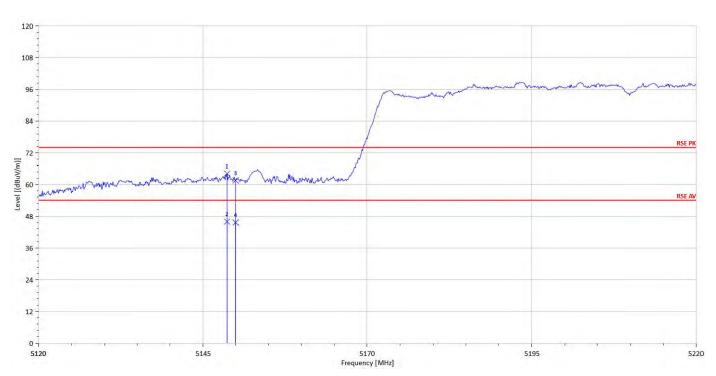
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Band edge falling to restricted band 802.11ac VHT80 mode

Operation Mode: 802.11ac80 Test Date: 2017/3/27

Fundamental Frequency: 22.7deg_C/57RH 5210 MHz Temp. / Humi. :

Operation Band: **BE CH Low** Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol. : Vertical E2



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5148.70	S	Peak	55.99	8.18	64.18	74	-9.82
5148.70	S	Average	37.86	8.18	46.04	54	-7.96
5150.00	Е	Peak	53.38	8.19	61.57	74	-12.43
5150.00	Ε	Average	37.52	8.19	45.71	54	-8.29

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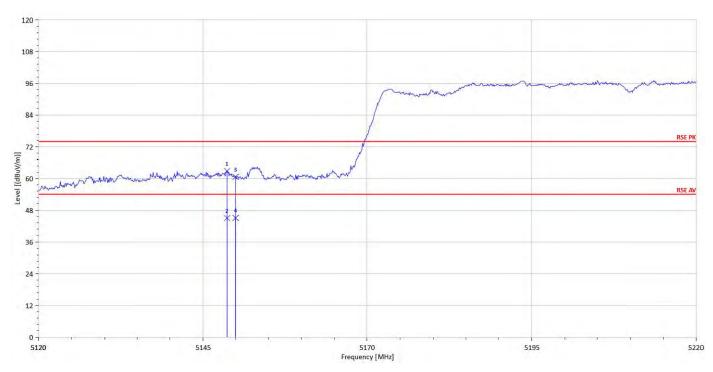


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Operation Mode: 802.11ac80 Test Date: 2017/3/27

Fundamental Frequency: 5210 MHz Temp. / Humi. : 22.7deg C/57RH

Operation Band: **BE CH Low** Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5148.70	S	Peak	54.72	8.18	62.90	74	-11.10
5148.70	S	Average	36.92	8.18	45.10	54	-8.90
5150.00	E	Peak	52.48	8.19	60.68	74	-13.32
5150.00	Е	Average	36.97	8.19	45.16	54	-8.84

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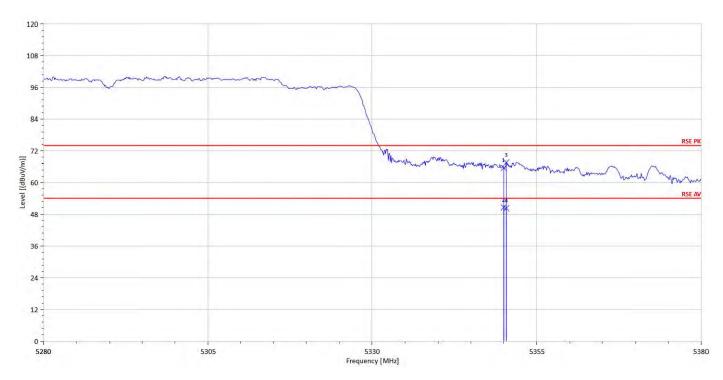


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Operation Mode: 802.11ac80 Test Date: 2017/3/27

Fundamental Frequency: 5290 MHz Temp. / Humi. : 22.7deg C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	56.59	8.96	65.56	74	-8.44
5350.00	E	Average	41.58	8.96	50.54	54	-3.46
5350.40	S	Peak	58.60	8.97	67.57	74	-6.43
5350.40	S	Average	41.31	8.97	50.28	54	-3.72

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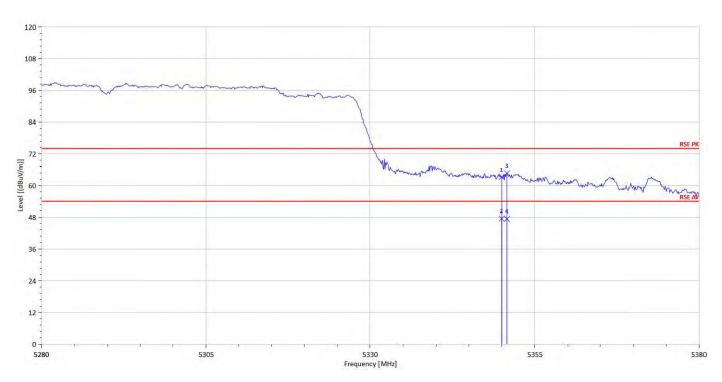


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Test Date: Operation Mode: 802.11ac80 2017/3/27

Fundamental Frequency: 5290 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Test Engineer: BE CH High Ashton EUT Pol.: Measurement Antenna Pol. : E2 Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	Е	Peak	54.33	8.96	63.30	74	-10.70
5350.00	E	Average	38.61	8.96	47.57	54	-6.43
5350.80	S	Peak	55.72	8.98	64.69	74	-9.31
5350.80	S	Average	38.43	8.98	47.41	54	-6.59

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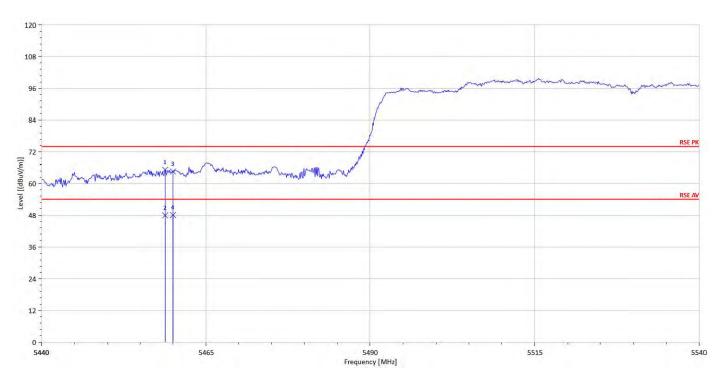


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Operation Mode: 802.11ac80 Test Date: 2017/3/27

Fundamental Frequency: 5530 MHz Temp. / Humi. : 22.7deg C/57RH

Operation Band: **BE CH Low** Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5458.80	S	Peak	56.38	8.89	65.27	74	-8.73
5458.80	S	Average	39.14	8.89	48.03	54	<i>-</i> 5.97
5460.00	Е	Peak	55.73	8.88	64.61	74	-9.39
5460.00	E	Average	39.30	8.88	48.18	54	-5.82

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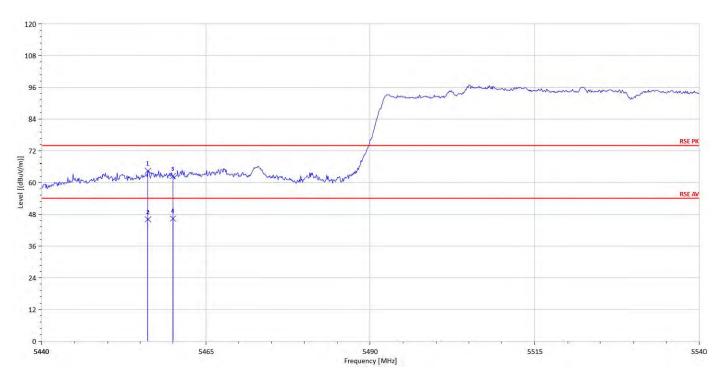


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Operation Mode: 802.11ac80 Test Date: 2017/3/27

Fundamental Frequency: 5530 MHz Temp. / Humi. : 22.7deg C/57RH

Operation Band: **BE CH Low** Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5456.20	S	Peak	55.60	8.92	64.52	74	-9.48
5456.20	S	Average	37.25	8.92	46.17	54	-7.83
5460.00	E	Peak	53.63	8.88	62.51	74	-11.49
5460.00	E	Average	37.55	8.88	46.43	54	-7.57

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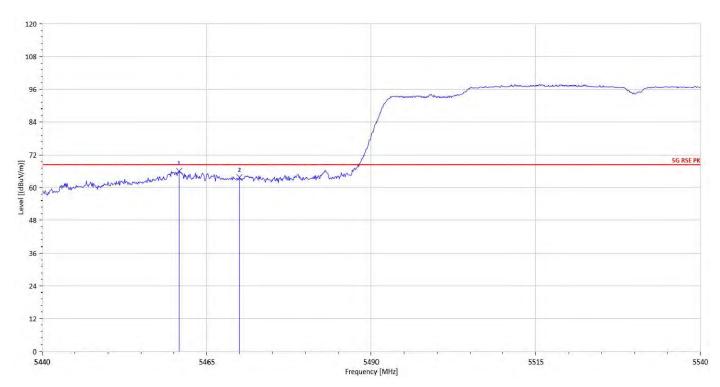


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Operation Mode: 802.11ac80 Test Date: 2017/3/27

Fundamental Frequency: 5530 MHz Temp. / Humi. : 22.7deg C/57RH

Operation Band: BE CH Low RSE Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5460.8	8 S	Peak	57.19	8.88	66.07	68.3	-2.23
5470	Е	Peak	54.9	8.79	63.69	68.3	-4.61

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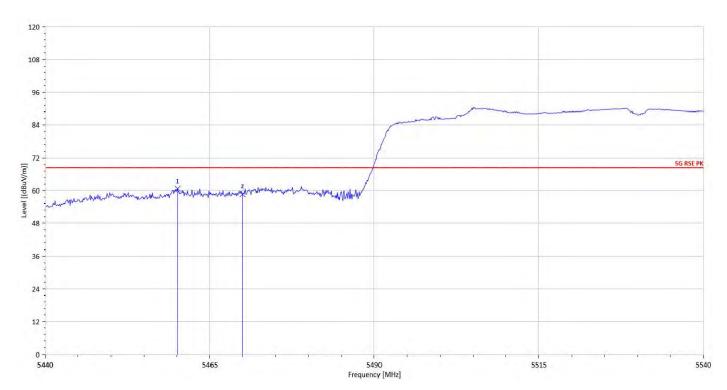


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Operation Mode: 802.11ac80 Test Date: 2017/3/27

Fundamental Frequency: 5530 MHz Temp. / Humi. : 22.7deg C/57RH

Operation Band: BE CH Low RSE Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5460.1	S	Peak	51.74	8.88	60.62	68.3	-7.68
5470	Е	Peak	49.93	8.79	58.71	68.3	-9.59

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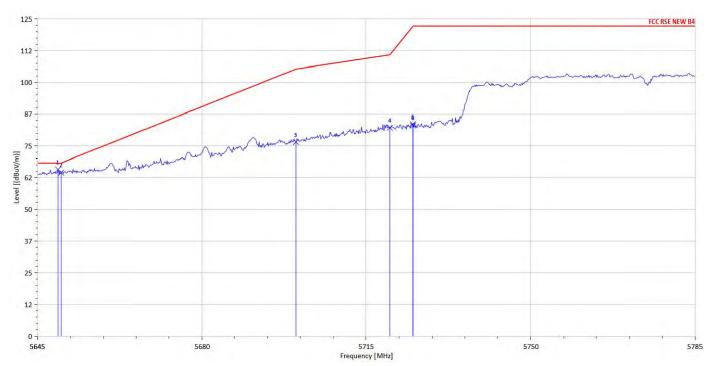


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Operation Mode: 802.11ac80 Test Date: 2017/3/27

Fundamental Frequency: 5775 MHz Temp. / Humi. : 22.7deg C/57RH

Operation Band: **BE CH Low** Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5649.34	S	Peak	56.38	9.34	65.72	68.23	-2.51
5650.00	S	Peak	55.11	9.33	64.44	68.23	-3.79
5700.00	S	Peak	67.02	9.44	76.46	105.23	-28.77
5720.00	S	Peak	72.87	9.28	82.15	110.83	-28.68
5724.94	S	Peak	74.29	9.30	83.59	122.0931	-38.51
5725.00	E	Peak	73.74	9.30	83.04	122.23	-39.19

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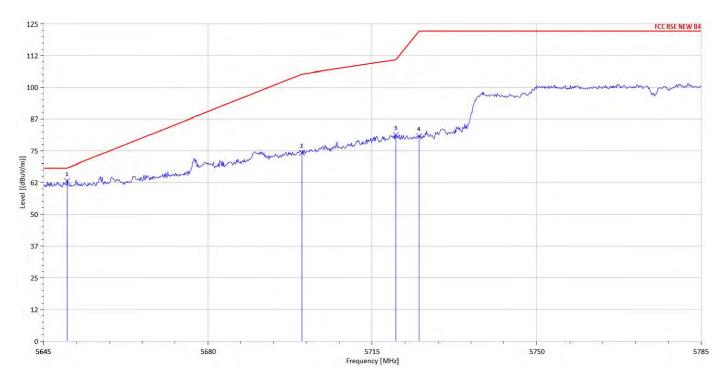


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Operation Mode: 802.11ac80 Test Date: 2017/3/27

Fundamental Frequency: 5775 MHz Temp. / Humi. : 22.7deg C/57RH

Operation Band: **BE CH Low** Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5650.00	S	Peak	53.71	9.33	63.04	68.23	-5.19
5700.00	S	Peak	64.73	9.44	74.16	105.23	-31.07
5720.00	S	Peak	71.94	9.28	81.22	110.83	-29.61
5725.00	Е	Peak	71.45	9.30	80.75	122.23	-41.48

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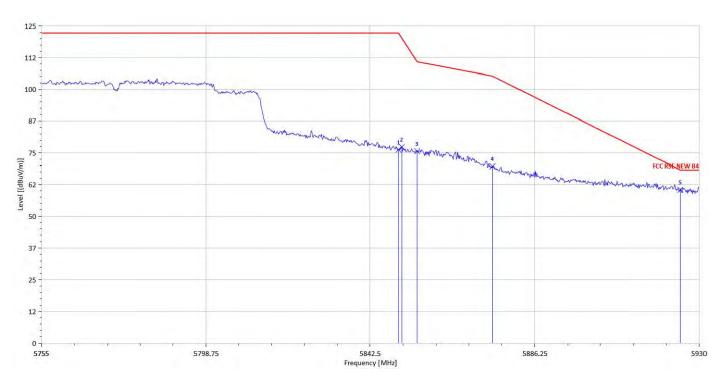


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Operation Mode: Test Date: 802.11ac80 2017/3/27

Fundamental Frequency: 5775 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Test Engineer: BE CH High Ashton EUT Pol.: Measurement Antenna Pol. : E2 Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	66.72	9.49	76.21	122.23	-46.02
5850.90	S	Peak	67.80	9.51	77.31	120.1782	-42.87
5855.00	S	Peak	66.02	9.58	75.60	110.83	-35.23
5875.00	S	Peak	60.00	9.63	69.63	105.23	-35.60
5925.00	S	Peak	50.41	10.01	60.42	68.23	-7.81

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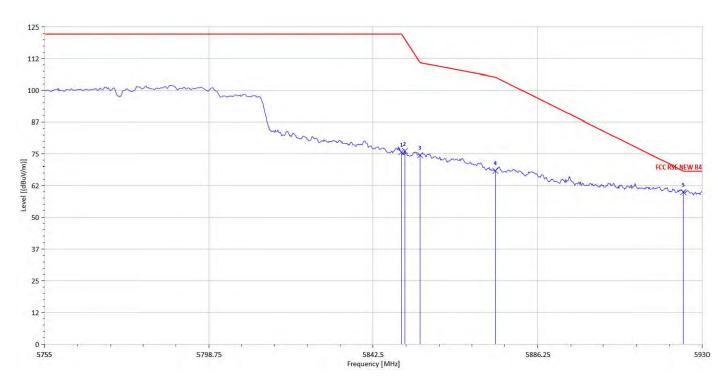


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Operation Mode: 802.11ac80 Test Date: 2017/3/27

Fundamental Frequency: 5775 MHz Temp. / Humi. : 22.7deg C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	66.18	9.49	75.67	122.23	-46.56
5850.90	S	Peak	66.56	9.51	76.06	120.1782	-44.12
5855.00	S	Peak	64.82	9.58	74.40	110.83	-36.43
5875.00	S	Peak	58.73	9.63	68.36	105.23	-36.87
5925.00	S	Peak	49.92	10.01	59.93	68.23	-8.30

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ANTENNA REQUIREMENT

8.1 **Standard Applicable**

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device. If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

8.2 Antenna Connected Construction

An embedded-in antenna design is used.

The antenna is designed with permanent attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

~ End of Report ~

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