

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION CLASS II PERMISSIVE CHANGE TEST REPORT OF

Product Name: SX-PCEAC2
Brand Name: silex technology, inc.
Model No.: SX-PCEAC2
Model Difference: N/A
FCC ID: N6C-SXPCEAC2
Report No.: ER/2017/C0087
Issue Date: Jun 01, 2018
FCC Rule Part: §15.407
Prepared for: silex technology, Inc.
2-3-1Hikaridai, Seika-cho, Souraku-gun,
Kyoto 619-0237, Japan
SGS Taiwan Ltd.
Electronics & Communication Laboratory
Prepared by: No.134, Wu Kung Road, New Taipei Industrial
Park, Wuku District, New Taipei City, Taiwan
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VERIFICATION OF COMPLIANCE

Applicant: silex technology, Inc.
2-3-1Hikaridai, Seika-cho, Souraku-gun, Kyoto 619-0237, Japan

Product Name: SX-PCEAC2

Brand Name: silex technology, inc.

Model No.: SX-PCEAC2

Model Difference: N/A

FCC ID: N6C-SXPCEAC2

File Number: ER/2017/C0087

Date of Test: Dec. 20, 2017~ May 17, 2018

Date of EUT Received: Dec. 13, 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:

Cooper Hsu

Date:

Jun 01, 2018

Cooper Hsu / Engineer

Prepared By:

Yuri Tsai

Date:

Jun 01, 2018

Yuri Tsai / Clerk

Approved By:

Jim Chang

Date:

Jun 01, 2018

Jim Chang / Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2017/C0087	Rev.00	Initial creation of document	Jun 01, 2018

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	SX-PCEAC2
Brand Name:	silex technology, inc.
Model No.:	SX-PCEAC2
Model Difference:	N/A
Software version:	N/A
Hardware version:	N/A
Power Supply:	DC 3.3V

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WLAN 5GHz:

Wi-Fi 802.11	Frequency Range	Channels	Modulation Technology
a	5150~5250	4	OFDM
	5250~5350	4	
	5470~5725	12	
	5725-5850	5	
n_HT ac_VHT 20M	5150~5250	4	OFDM
	5250~5350	4	
	5470~5725	11	
	5725-5850	5	
n_HT ac_VHT 40M	5150~5250	2	OFDM
	5250~5350	2	
	5470~5725	5	
	5725-5850	2	
ac_VHT 80M	5150~5250	1	OFDM
	5250~5350	1	
	5470~5725	2	
	5725-5850	1	
Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only		
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 - 150.0Mbps 802.11 ac_20MHz: 6.5 –86.7Mbps 802.11 ac_40MHz: 13.5 -200.0Mbps 802.11 ac_80MHz: 29.3 – 433.3Mbps		

Class II Permissive Change

Scope:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow new antennas to be included in this authorization.
CIIPC:	Adding new antennas to this certified module under FCC ID: N6C-SXPCEAC2

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Antenna Type	Supplier	Antenna Part No.	Freq.	Peak Antenna Gain (dBi)	Worst Antenna Gain
PCB antenna	Unictron	H2B1PC1A1C(AA258)	5GHz	3.20	
		H2B1PD1A1C(AA222)		3.00	
ROD antenna	STAF	1019-013A		4.00	V
	Sansei Denki	ANTDC-108A0		2.00	
		ANTDC-108B0		2.00	
		ANTDP-027A0		2.10	
		ANTDP-039A0		2.10	

Note: Pre-scanned was done on the above 7 antennas, the 1019-013A results higher emission at 5GHz. Therefore, the completed set of measurement was done on the antenna to be presented on this test report.

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output

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.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 (TAF code 0513)

FCC Registration Number and Designation Number are: 509634 / TW0001

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 placed on a 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 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50 uH 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 placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. 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 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.

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2.4 Configuration of Tested System

Fig. 2-1 Radiated Emission



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Notebook	Lenovo	L440	R9-007LAZ	Shielded	Unshielded
2.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.407(b)	Undesirable Radiated Emissions	Compliant
§15.203 §15.407(a)	Antenna Requirement	Compliant

4 DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
36	5180
40	5200
44	5220
48	5240

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
38	5190
46	5230

802.11ac VHT80 Mode	
channel	Frequency
42	5210

Operated band in 5250 MHz ~5350 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
channel	Frequency
52	5260
56	5280
60	5300
64	5320

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
54	5270
62	5310

802.11ac VHT80 Mode	
Channel	Frequency
58	5290

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Operated band in 5500 MHz ~5700 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
102	5510
110	5550
118	5590
126	5630
134	5670

802.11ac VHT80 Mode	
channel	Frequency
106	5530
122	5610

Operated band in 5745 MHz ~5850 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
149	5745
153	5765
157	5785
161	5805
165	5825

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
151	5755
159	5795

802.11ac VHT80 Mode	
channel	Frequency
155	5775

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

UNWANTED EMISSION TEST:

UNWANTED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	SISO
802.11a	5260~5320	52 to 64	60	OFDM	6	SISO
802.11a	5500~5720	100 to 140	116	OFDM	6	SISO
802.11a	5745~5825	149 to 165	157	OFDM	6	SISO
UNWANTED 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	36,44,48	OFDM	6	SISO
802.11n_HT20				OFDM	MCS8	SISO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	SISO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	SISO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	SISO
802.11n_HT20				OFDM	MCS8	SISO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	SISO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	SISO

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500~5720	100 to 144	100,116,140	OFDM	6	SISO
802.11n_HT20				OFDM	MCS8	SISO
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS8	SISO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	SISO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	SISO
802.11n_HT20				OFDM	MCS8	SISO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	SISO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	SISO

Note:

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.

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5 MEASUREMENT UNCERTAINTY

Radiated Spurious Emission:

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

Measurement uncertainty (Polarization : Horizontal)	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	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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6 UNDESIRABLE RADIATED EMISSION MEASUREMENT (RADIATED VER-SUS CONDUCTED)

6.1 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)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)		
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. *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.		

$EIRP = (E \cdot d)^2 / 30$, 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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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 (dBμV/m) = 20 log Emission level (dBμV/m)

6.2 Measurement Equipment Used

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	12/29/2016	12/28/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/04/2017	08/03/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2017	12/11/2018
Loop Antenna	ETS.LINDGREN	6502	148045	09/26/2017	09/25/2018
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/10/2017	05/09/2018
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/09/2018	04/08/2019
EMI Test Receiver	R&S	ESCI7	100760	06/06/2017	06/05/2018
Pre-Amplifier	HP	8449B	3008A00578	01/02/2017	01/01/2018
Pre-Amplifier	HP	8447D	2944A07676	01/02/2017	01/01/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2017	01/01/2018
Attenuator	Mini-Circuit	BW-S10W2+	TBD	01/02/2017	01/01/2018
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	01/02/2017	01/01/2018
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2017	01/01/2018

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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966 Chamber					
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Pre-Amplifier	HP	8449B	3008A00578	01/02/2018	01/01/2019
Pre-Amplifier	HP	8447D	2944A07676	01/02/2018	01/01/2019
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2018	01/01/2019
Attenuator	Mini-Circuit	BW-S10W2+	TBD	01/02/2018	01/01/2019
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	01/02/2018	01/01/2019
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2018	01/01/2019

NOTE: N.C.R refers to Not Calibrated Required.

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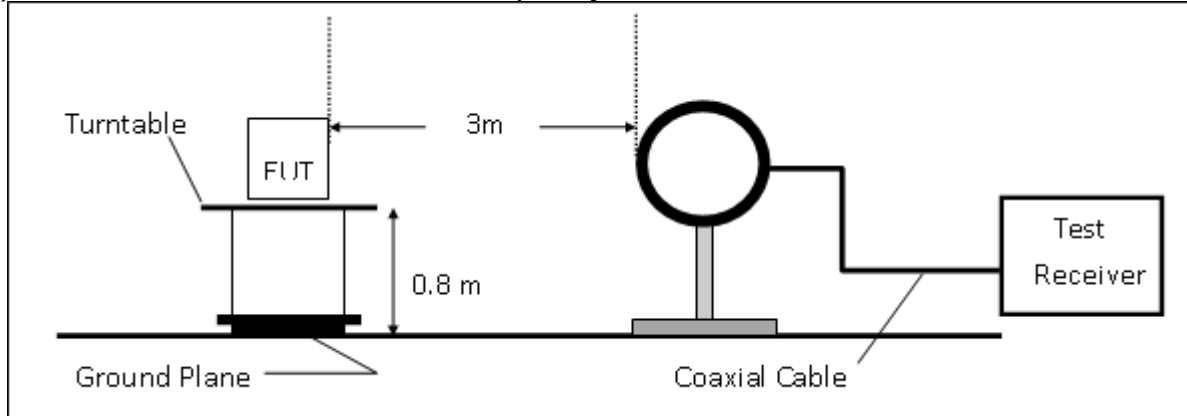
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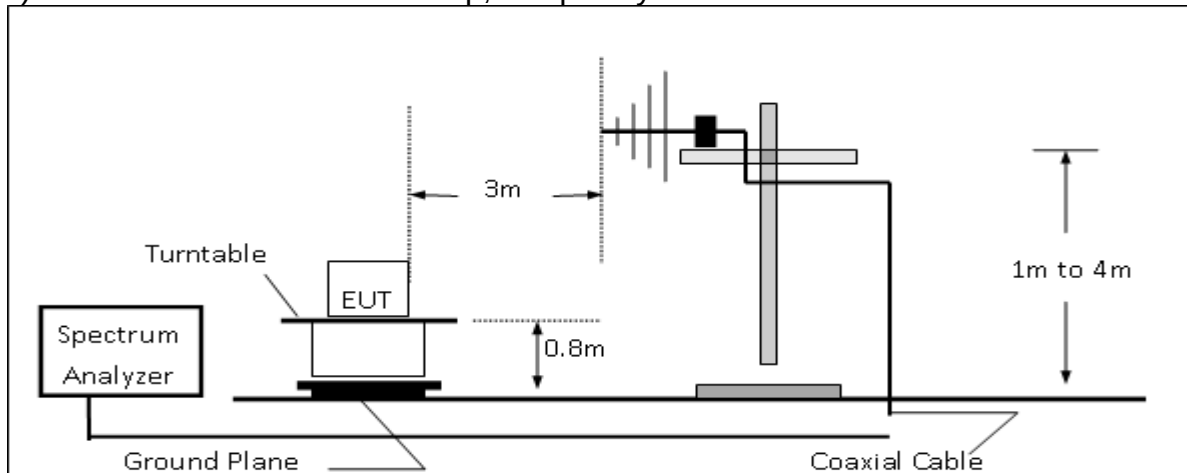
6.3 Test SET-UP

For Radiated Configuration:

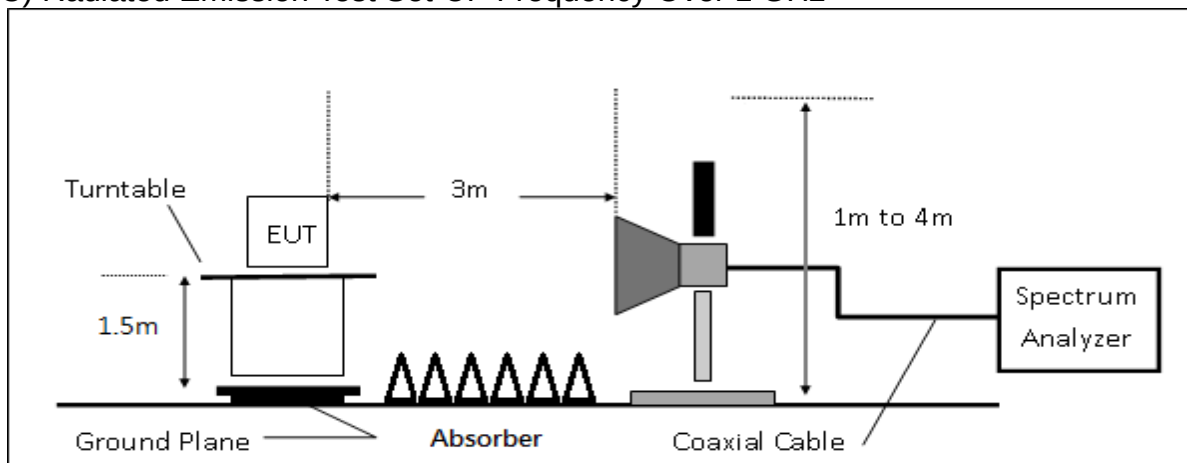
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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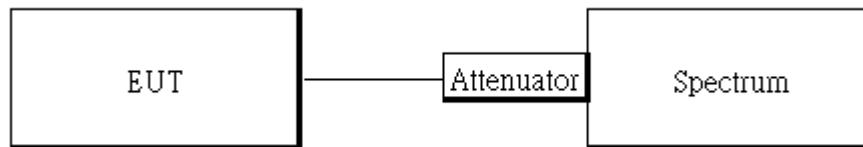
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For Conducted Configuration:**6.4 Measurement Procedure**

Following FCC KDB 789033 D02 General UNII Test Procedures:

Radiated versus Conducted Measurements.

The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.

The following steps was performed:

1. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
2. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT
3. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater
4. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)

Note:

- a. For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands.
- b. For the band edge the gain for the specific band may have been used.
- c. In restricted bands below 1000 MHz, add upper bound on ground plane reflection:

For $f = 30 - 1000$ MHz, add 4.7 dB.

The conducted emission test was considered some factor to compute test result.

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5 For all of Radiation emission test

- 5.1 The EUT was placed on a turn table which is 0.8m above ground plane.
- 5.2 The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
- 5.3 The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 5.4 The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 5.5 EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5.6 Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
- 5.7 Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
- 5.8 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.
- 5.9 Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5.10 And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 5.11 Repeat above procedures until all frequency measured were complete.

6.5 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(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note :

“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

6.6 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.

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6.7 Measurement Result

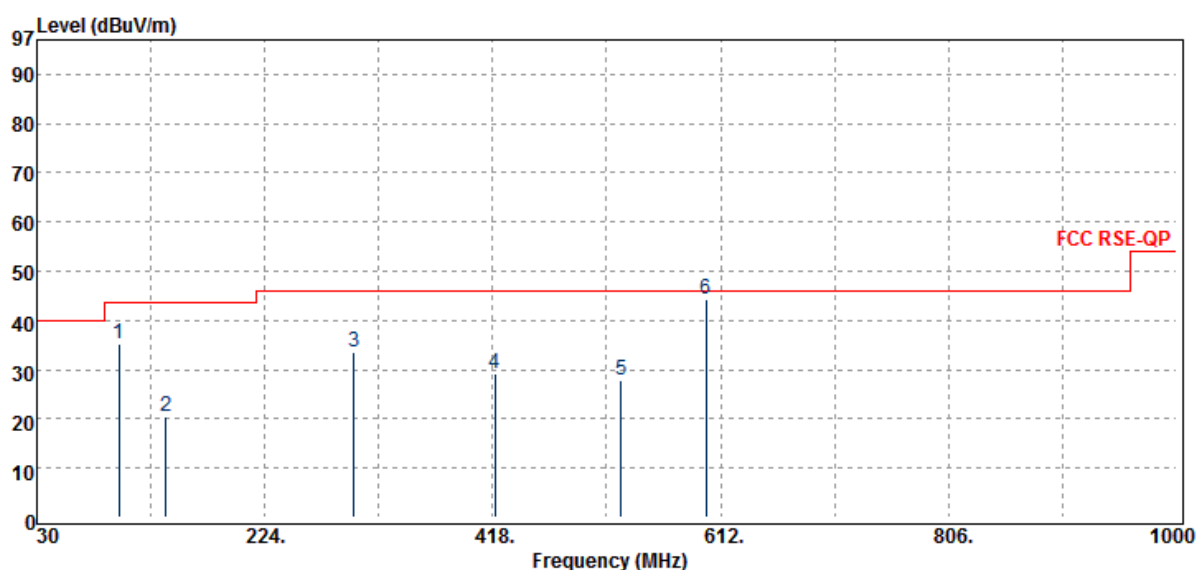
Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

PIFA Antenna:

Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	47.79	-12.67	35.12	43.50	-8.38
139.61	S	Peak	28.92	-8.41	20.51	43.50	-22.99
299.66	S	Peak	39.45	-5.93	33.52	46.00	-12.48
419.94	S	Peak	32.54	-3.39	29.15	46.00	-16.85
527.61	S	Peak	29.33	-1.32	28.01	46.00	-17.99
599.39	S	Peak	44.61	-0.27	44.34	46.00	-1.66

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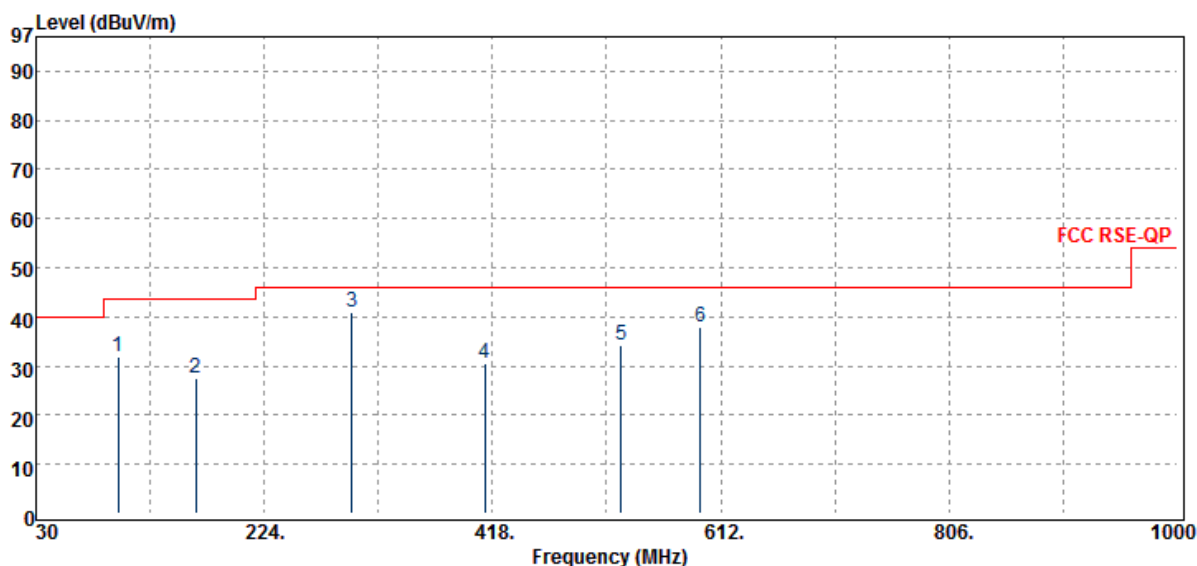
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Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	44.66	-12.67	31.99	43.50	-11.51
165.80	S	Peak	34.82	-7.40	27.42	43.50	-16.08
298.69	S	Peak	47.00	-5.95	41.05	46.00	-4.95
411.21	S	Peak	34.11	-3.63	30.48	46.00	-15.52
527.61	S	Peak	35.72	-1.32	34.40	46.00	-11.60
594.54	S	Peak	37.79	0.08	37.87	46.00	-8.13

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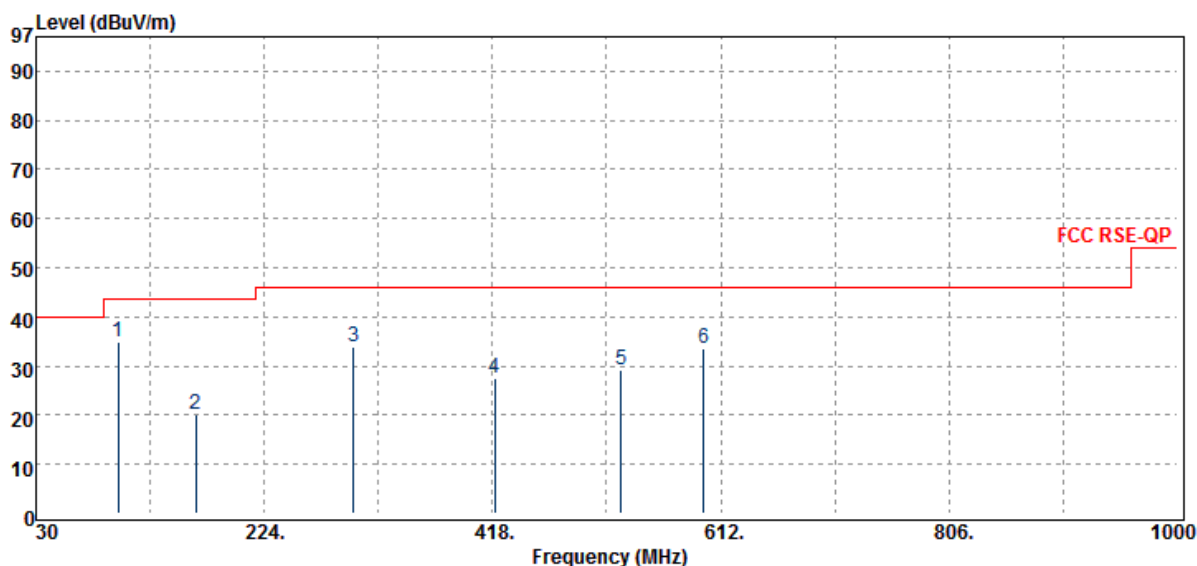
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Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	47.47	-12.67	34.80	43.50	-8.70
165.80	S	Peak	27.58	-7.40	20.18	43.50	-23.32
299.66	S	Peak	39.72	-5.93	33.79	46.00	-12.21
419.94	S	Peak	30.85	-3.39	27.46	46.00	-18.54
527.61	S	Peak	30.55	-1.32	29.23	46.00	-16.77
597.45	S	Peak	33.63	-0.19	33.44	46.00	-12.56

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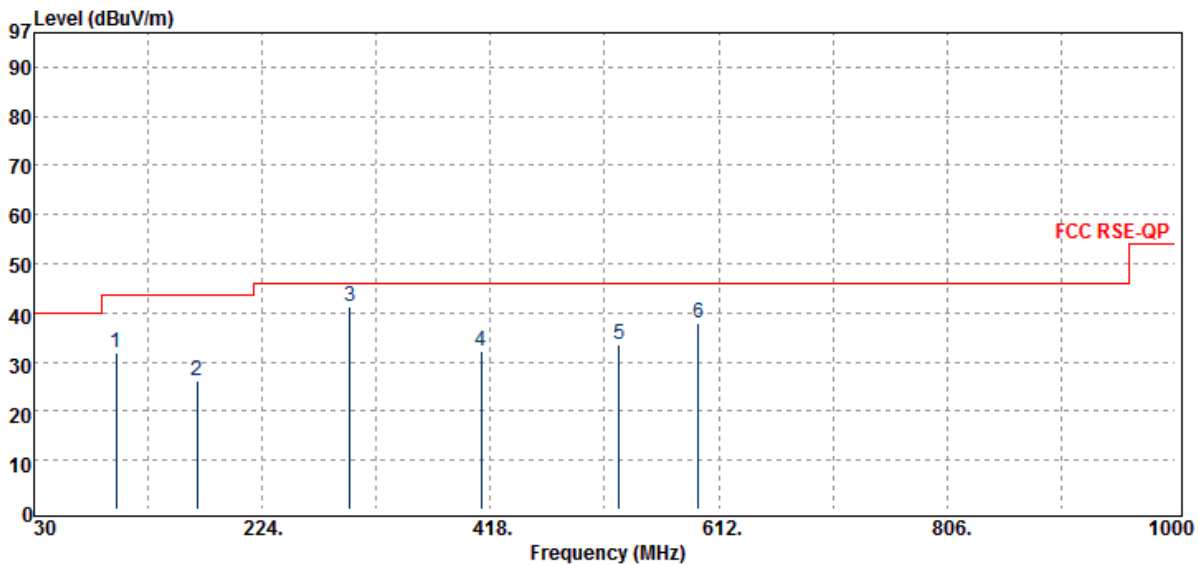
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Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	44.63	-12.67	31.96	43.50	-11.54
168.71	S	Peak	33.76	-7.52	26.24	43.50	-17.26
298.69	S	Peak	47.25	-5.95	41.30	46.00	-4.70
410.24	S	Peak	35.95	-3.62	32.33	46.00	-13.67
527.61	S	Peak	34.93	-1.32	33.61	46.00	-12.39
594.54	S	Peak	37.88	0.08	37.96	46.00	-8.04

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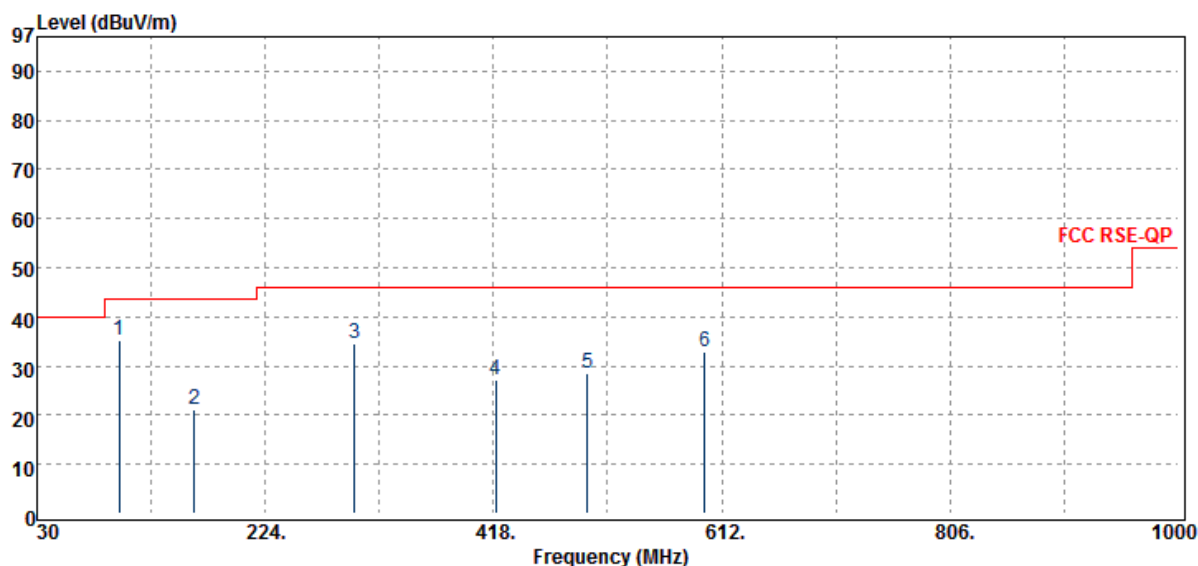
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Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	47.85	-12.67	35.18	43.50	-8.32
163.86	S	Peak	28.49	-7.45	21.04	43.50	-22.46
299.66	S	Peak	40.44	-5.93	34.51	46.00	-11.49
419.94	S	Peak	30.61	-3.39	27.22	46.00	-18.78
497.54	S	Peak	30.92	-2.38	28.54	46.00	-17.46
597.45	S	Peak	33.05	-0.19	32.86	46.00	-13.14

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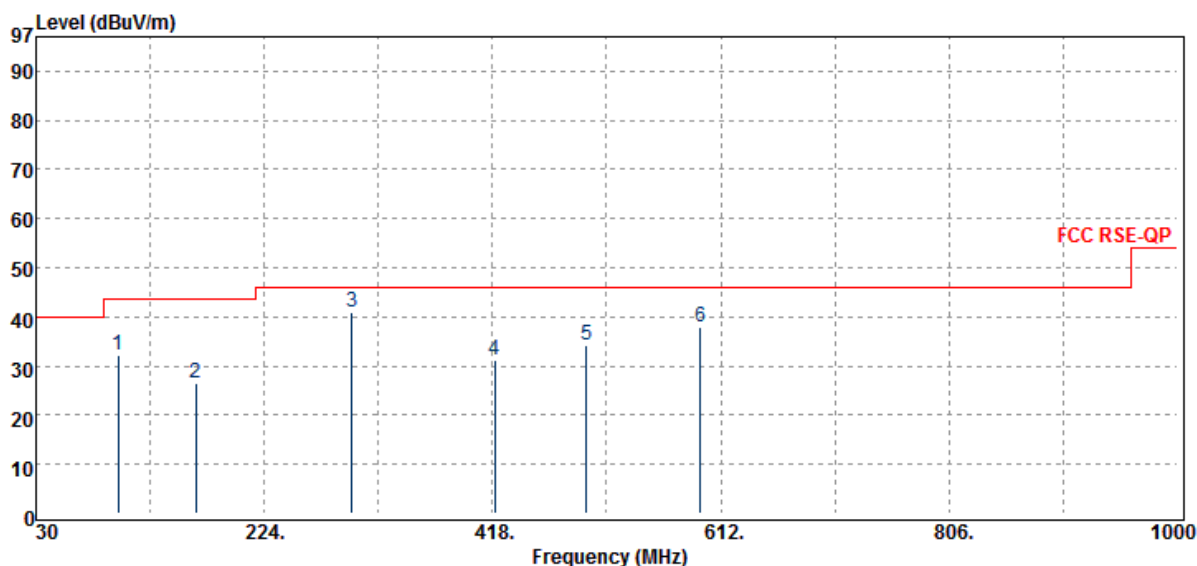
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Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	44.92	-12.67	32.25	43.50	-11.25
165.80	S	Peak	33.97	-7.40	26.57	43.50	-16.93
298.69	S	Peak	46.74	-5.95	40.79	46.00	-5.21
419.94	S	Peak	34.56	-3.39	31.17	46.00	-14.83
497.54	S	Peak	36.74	-2.38	34.36	46.00	-11.64
594.54	S	Peak	37.75	0.08	37.83	46.00	-8.17

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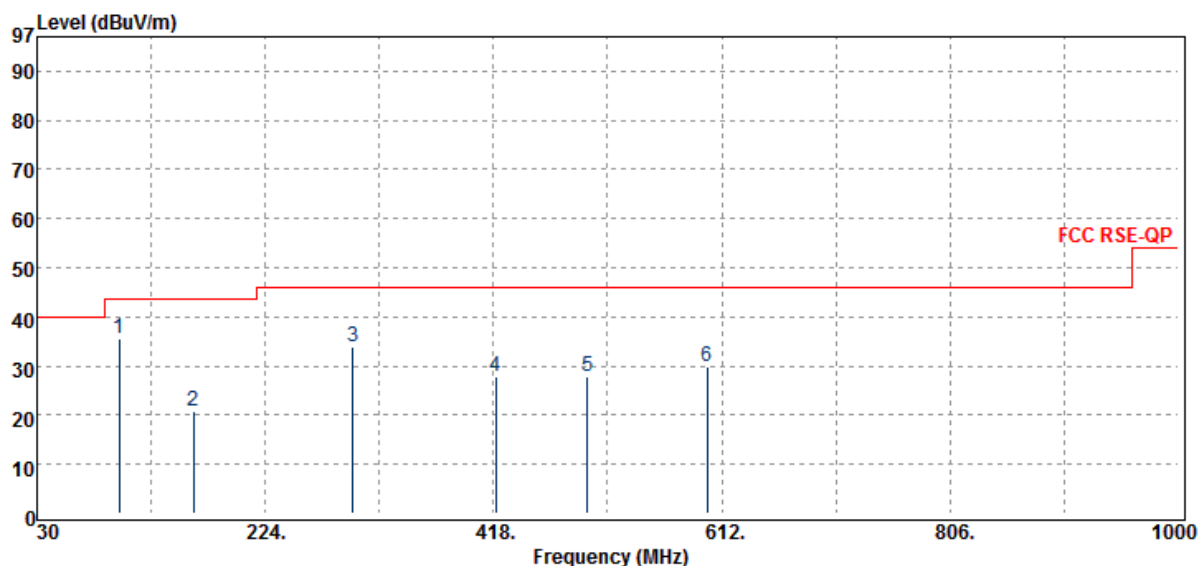
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Member of SGS Group

Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	48.17	-12.67	35.50	43.50	-8.00
162.89	S	Peak	28.20	-7.48	20.72	43.50	-22.78
298.69	S	Peak	39.89	-5.95	33.94	46.00	-12.06
419.94	S	Peak	31.15	-3.39	27.76	46.00	-18.24
497.54	S	Peak	30.36	-2.38	27.98	46.00	-18.02
599.39	S	Peak	30.20	-0.27	29.93	46.00	-16.07

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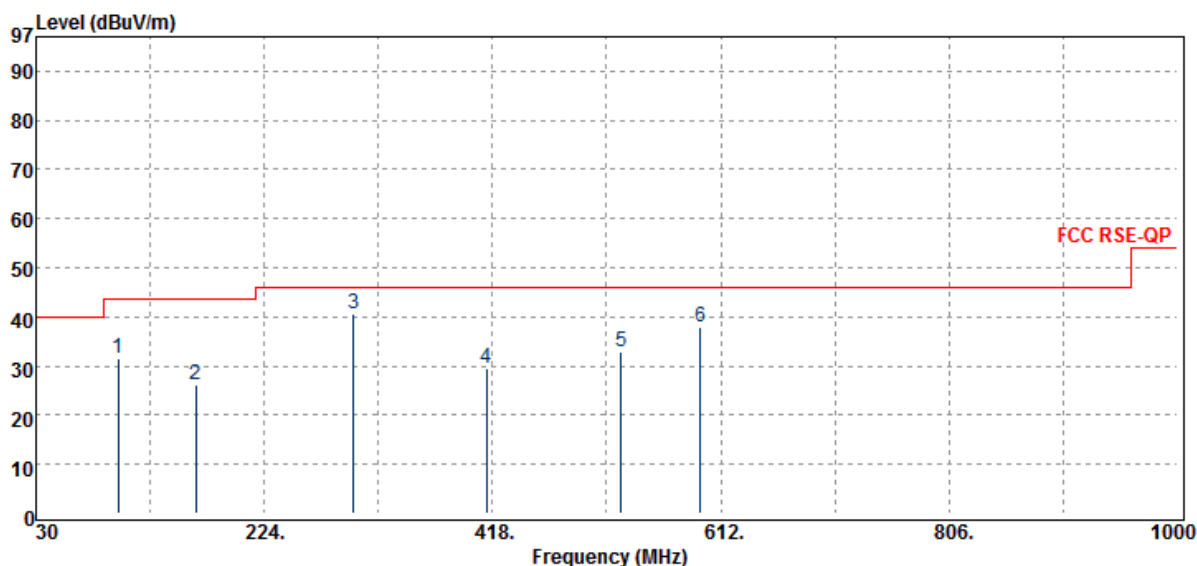
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Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	44.20	-12.67	31.53	43.50	-11.97
165.80	S	Peak	33.55	-7.40	26.15	43.50	-17.35
299.66	S	Peak	46.60	-5.93	40.67	46.00	-5.33
413.15	S	Peak	32.82	-3.38	29.44	46.00	-16.56
527.61	S	Peak	34.35	-1.32	33.03	46.00	-12.97
594.54	S	Peak	37.96	0.08	38.04	46.00	-7.96

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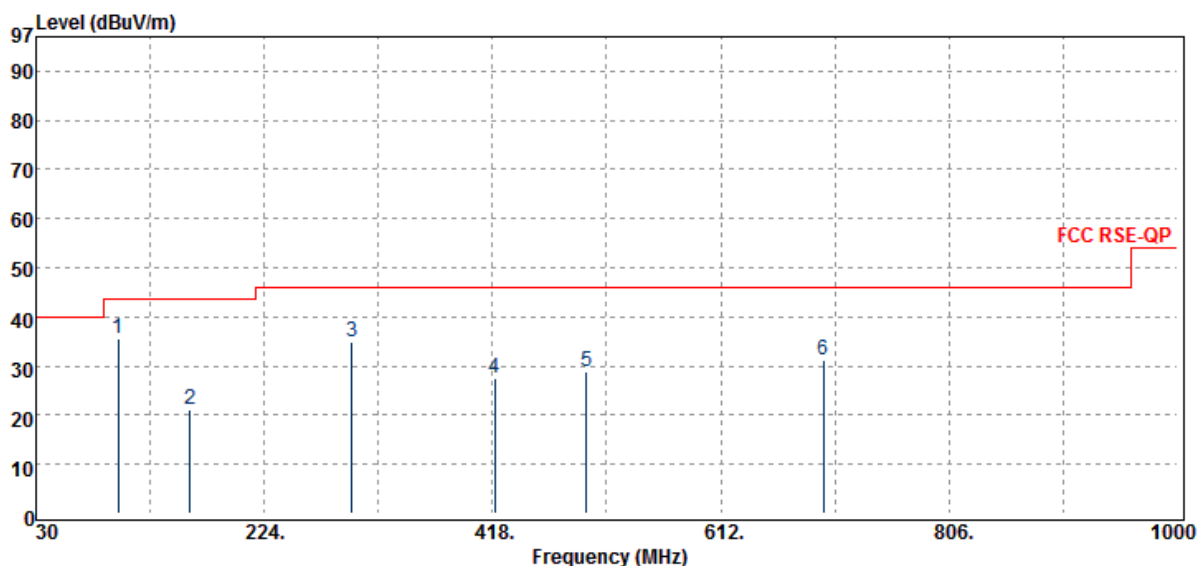
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Operation Band :802.11ac80B1
Fundamental Frequency :5210 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	48.19	-12.67	35.52	43.50	-7.98
160.95	S	Peak	28.72	-7.43	21.29	43.50	-22.21
298.69	S	Peak	40.84	-5.95	34.89	46.00	-11.11
419.94	S	Peak	30.97	-3.39	27.58	46.00	-18.42
497.54	S	Peak	31.14	-2.38	28.76	46.00	-17.24
699.30	S	Peak	29.62	1.44	31.06	46.00	-14.94

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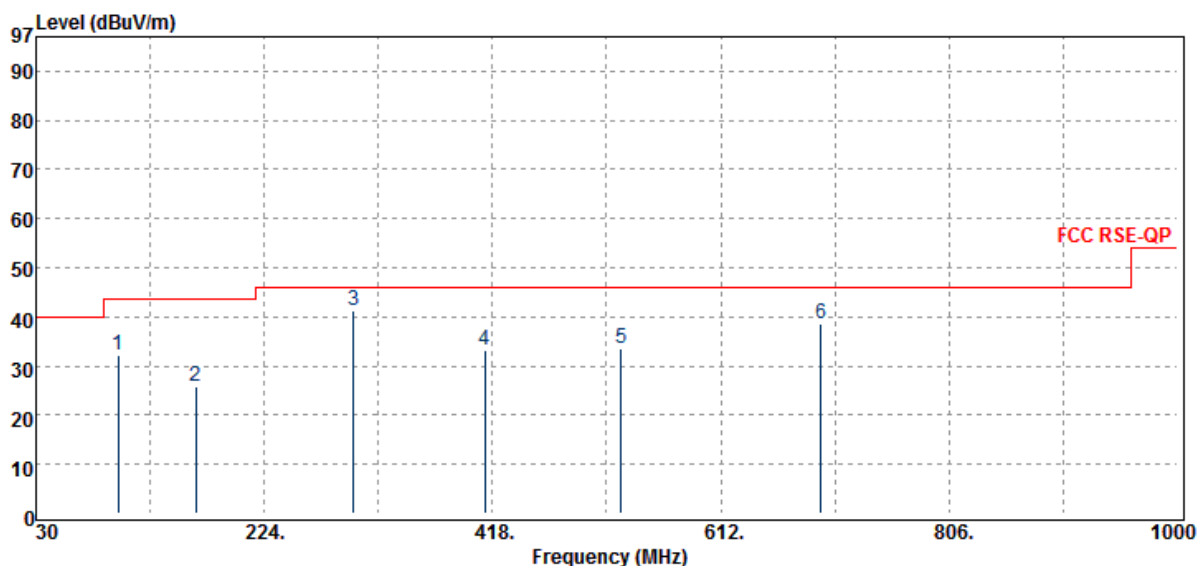
f (886-2) 2298-0488

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Member of SGS Group

Operation Band :802.11ac80B1
Fundamental Frequency :5210 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	44.80	-12.67	32.13	43.50	-11.37
165.80	S	Peak	33.08	-7.40	25.68	43.50	-17.82
299.66	S	Peak	47.29	-5.93	41.36	46.00	-4.64
411.21	S	Peak	36.90	-3.63	33.27	46.00	-12.73
527.61	S	Peak	34.99	-1.32	33.67	46.00	-12.33
697.36	S	Peak	37.25	1.36	38.61	46.00	-7.39

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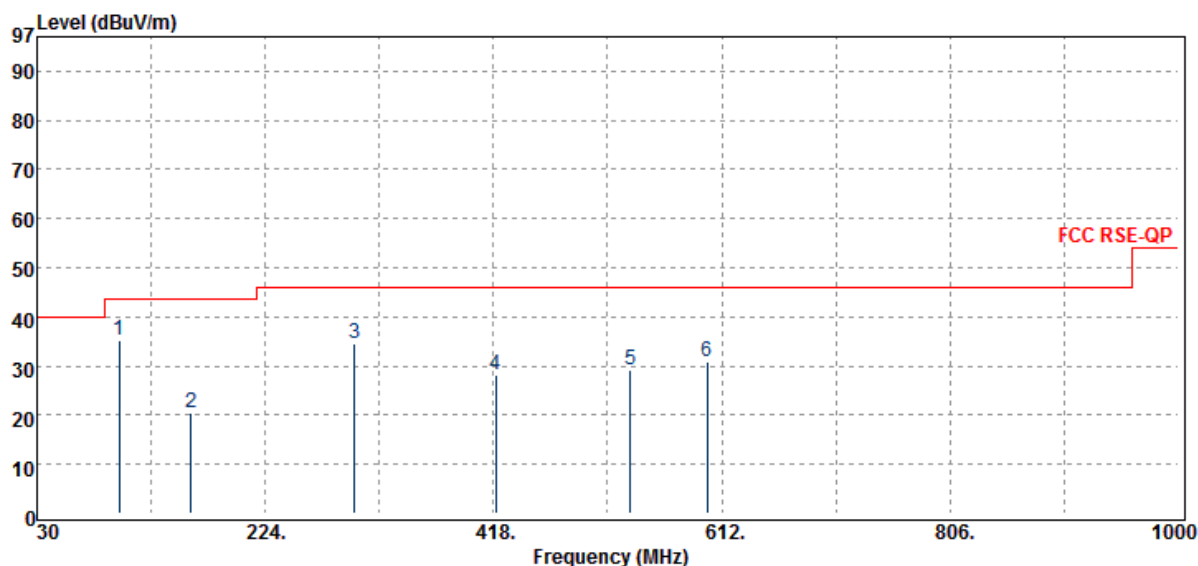
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Member of SGS Group

Operation Band :802.11ac80B2
Fundamental Frequency :5290 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	48.05	-12.67	35.38	43.50	-8.12
160.95	S	Peak	28.05	-7.43	20.62	43.50	-22.88
299.66	S	Peak	40.61	-5.93	34.68	46.00	-11.32
419.94	S	Peak	31.72	-3.39	28.33	46.00	-17.67
534.40	S	Peak	31.01	-1.66	29.35	46.00	-16.65
599.39	S	Peak	31.04	-0.27	30.77	46.00	-15.23

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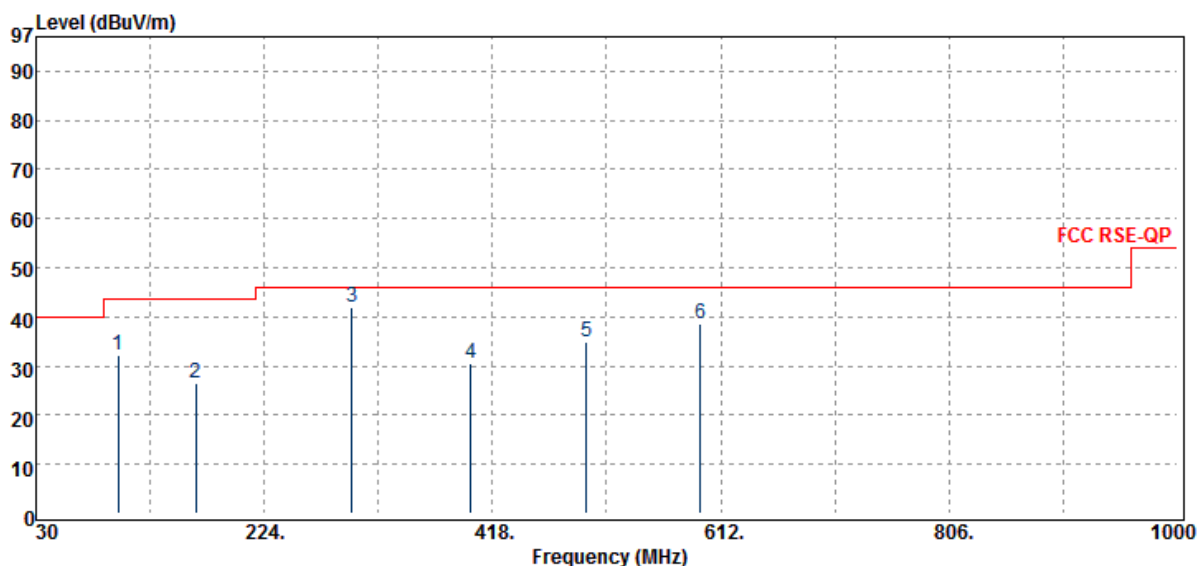
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Member of SGS Group

Operation Band :802.11ac80B2
Fundamental Frequency :5290 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	45.03	-12.67	32.36	43.50	-11.14
165.80	S	Peak	33.88	-7.40	26.48	43.50	-17.02
298.69	S	Peak	47.83	-5.95	41.88	46.00	-4.12
399.57	S	Peak	34.60	-3.92	30.68	46.00	-15.32
497.54	S	Peak	37.30	-2.38	34.92	46.00	-11.08
594.54	S	Peak	38.57	0.08	38.65	46.00	-7.35

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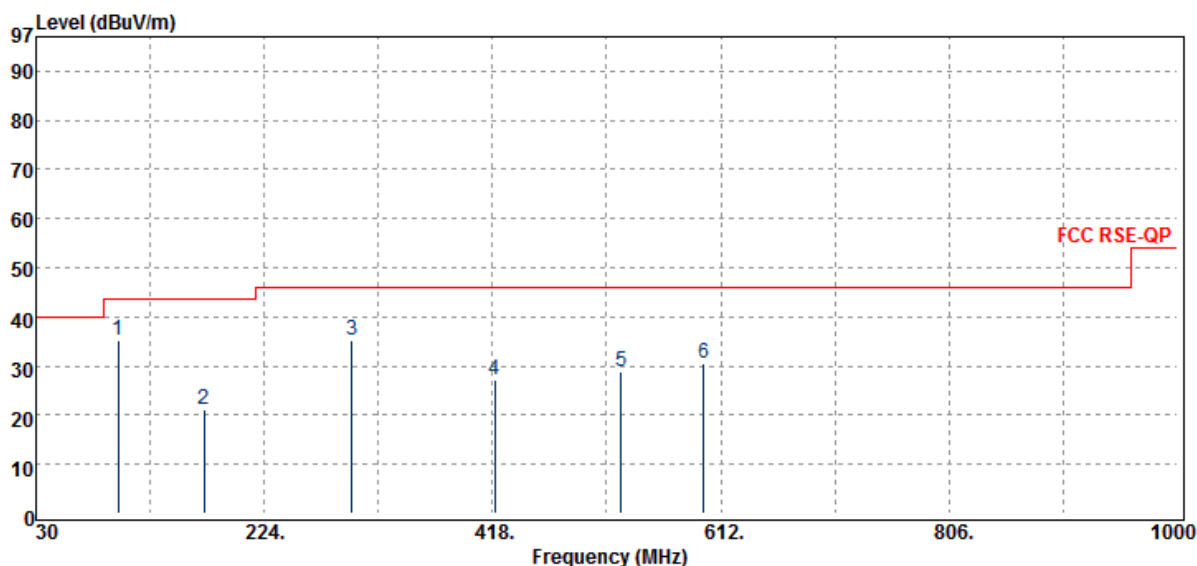
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11ac80B3
Fundamental Frequency :5530 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	47.96	-12.67	35.29	43.50	-8.21
172.59	S	Peak	28.87	-7.86	21.01	43.50	-22.49
298.69	S	Peak	41.19	-5.95	35.24	46.00	-10.76
419.94	S	Peak	30.50	-3.39	27.11	46.00	-18.89
527.61	S	Peak	30.22	-1.32	28.90	46.00	-17.10
597.45	S	Peak	30.87	-0.19	30.68	46.00	-15.32

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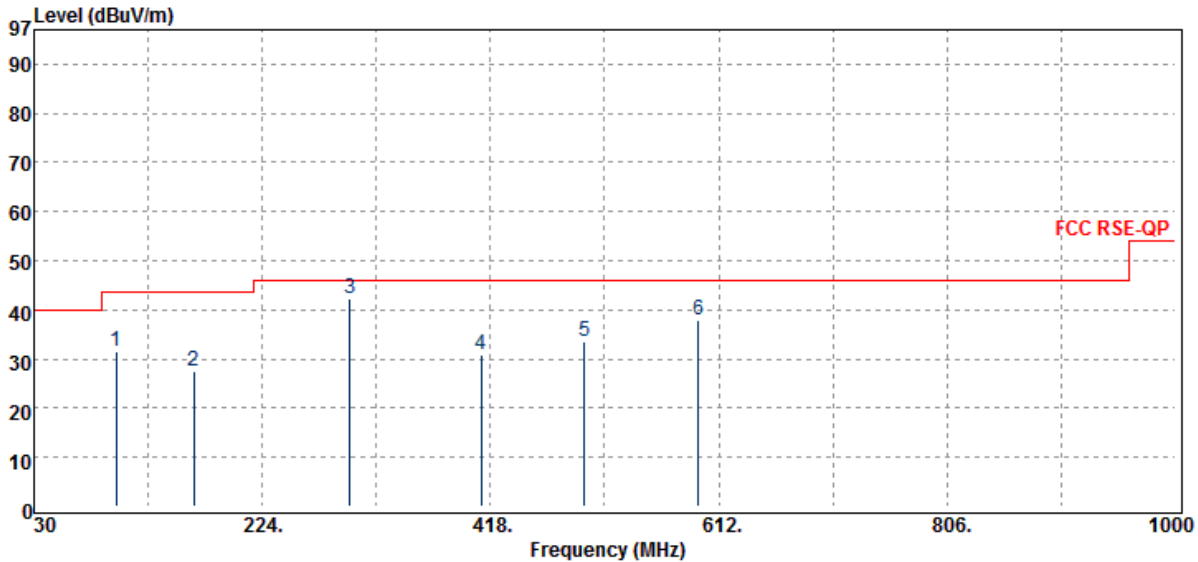
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Member of SGS Group

Operation Band :802.11ac80B3
Fundamental Frequency :5530 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	44.32	-12.67	31.65	43.50	-11.85
165.80	S	Peak	34.93	-7.40	27.53	43.50	-15.97
298.69	S	Peak	48.15	-5.95	42.20	46.00	-3.80
410.24	S	Peak	34.43	-3.62	30.81	46.00	-15.19
497.54	S	Peak	36.00	-2.38	33.62	46.00	-12.38
594.54	S	Peak	37.86	0.08	37.94	46.00	-8.06

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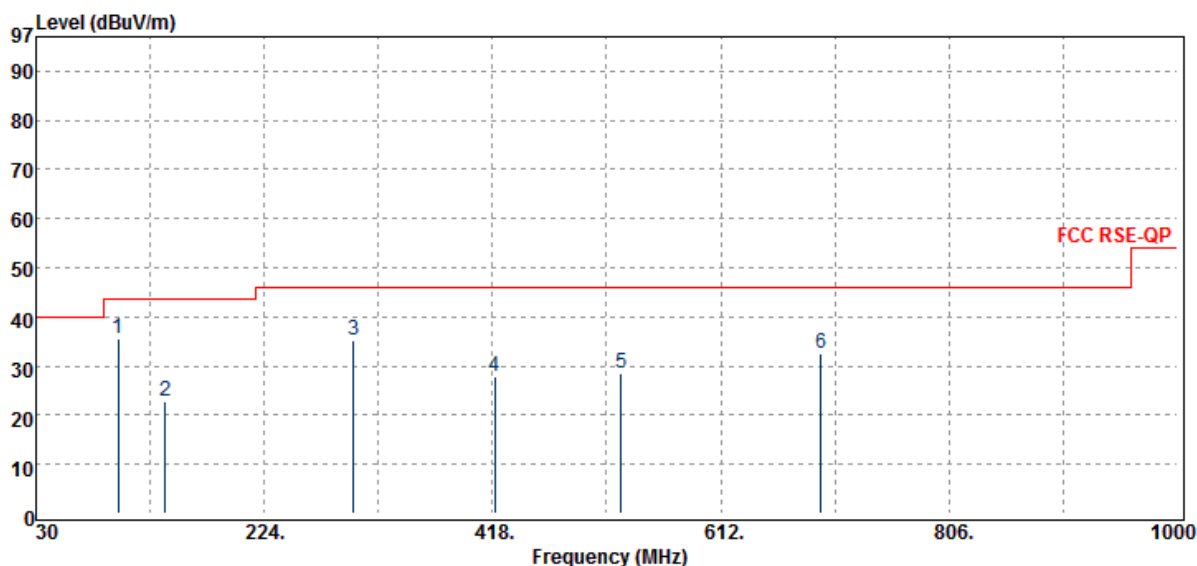
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Member of SGS Group

Operation Band :802.11ac80B3
Fundamental Frequency :5610 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	48.15	-12.67	35.48	43.50	-8.02
139.61	S	Peak	31.36	-8.41	22.95	43.50	-20.55
299.66	S	Peak	41.02	-5.93	35.09	46.00	-10.91
419.94	S	Peak	31.26	-3.39	27.87	46.00	-18.13
527.61	S	Peak	29.90	-1.32	28.58	46.00	-17.42
697.36	S	Peak	31.19	1.36	32.55	46.00	-13.45

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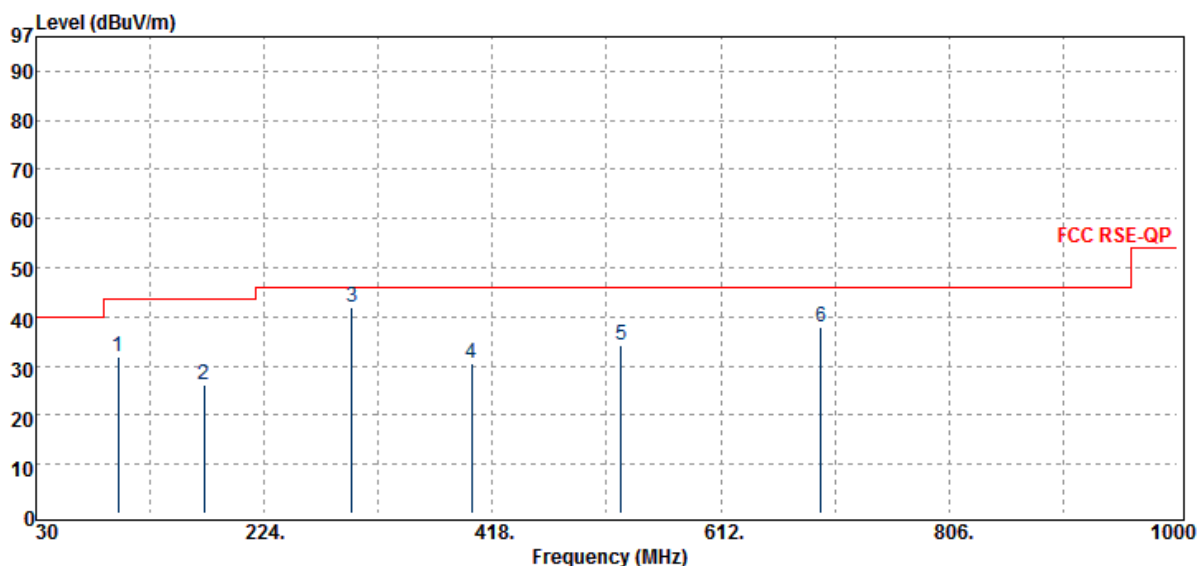
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Member of SGS Group

Operation Band :802.11ac80B3
Fundamental Frequency :5610 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	44.66	-12.67	31.99	43.50	-11.51
172.59	S	Peak	34.03	-7.86	26.17	43.50	-17.33
298.69	S	Peak	47.98	-5.95	42.03	46.00	-3.97
400.54	S	Peak	34.57	-3.94	30.63	46.00	-15.37
527.61	S	Peak	35.47	-1.32	34.15	46.00	-11.85
697.36	S	Peak	36.43	1.36	37.79	46.00	-8.21

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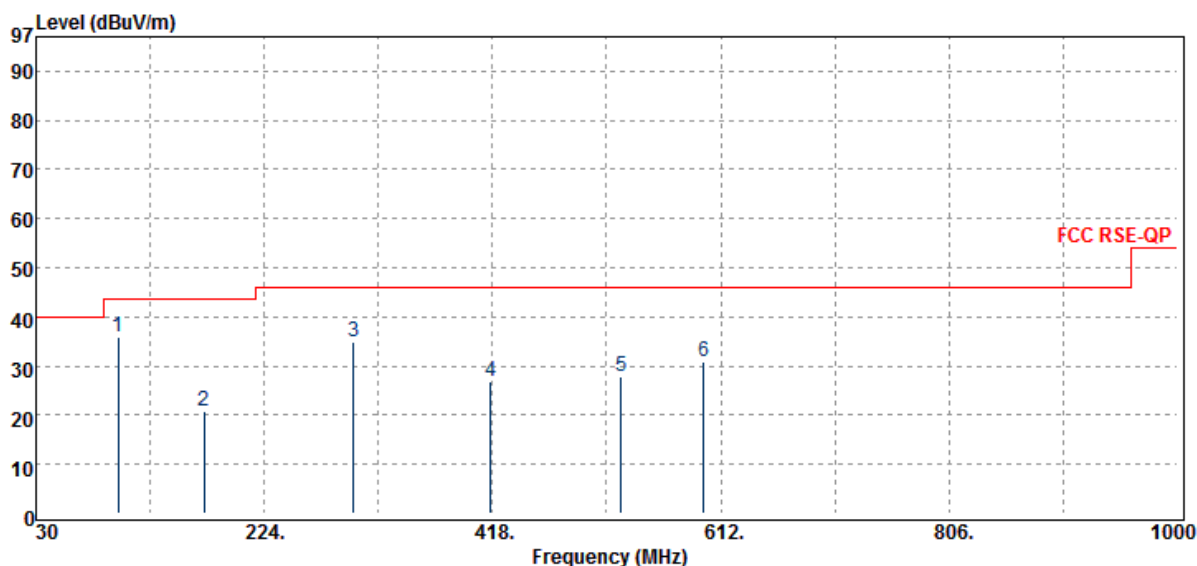
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Member of SGS Group

Operation Band :802.11ac80B4
Fundamental Frequency :5775 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	48.44	-12.67	35.77	43.50	-7.73
172.59	S	Peak	28.56	-7.86	20.70	43.50	-22.80
299.66	S	Peak	40.95	-5.93	35.02	46.00	-10.98
416.06	S	Peak	30.28	-3.27	27.01	46.00	-18.99
527.61	S	Peak	29.21	-1.32	27.89	46.00	-18.11
597.45	S	Peak	31.07	-0.19	30.88	46.00	-15.12

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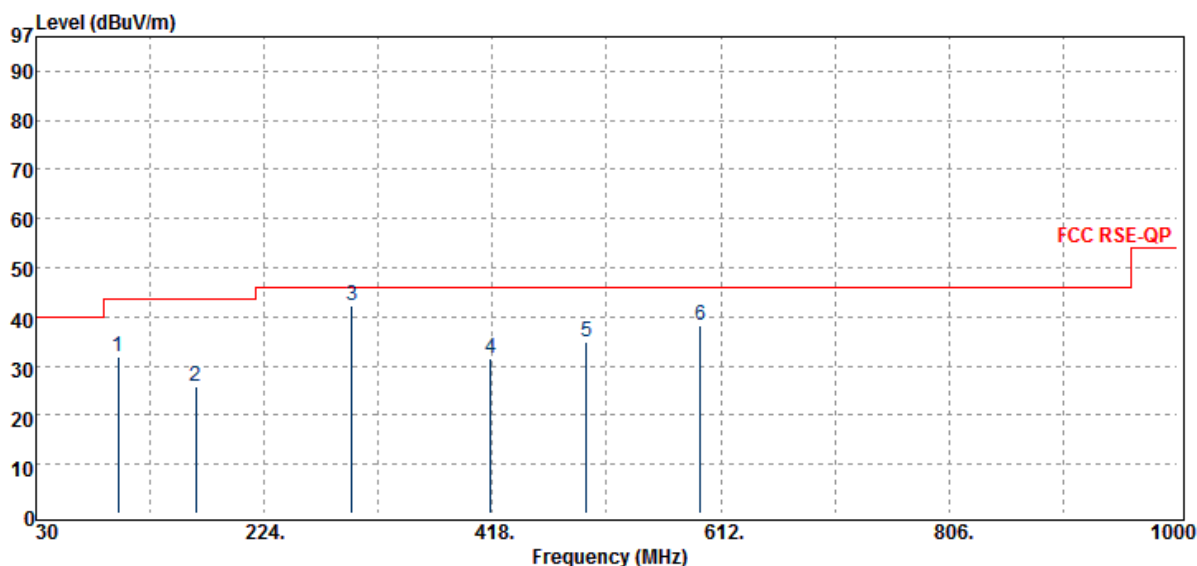
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Operation Band :802.11ac80B4
Fundamental Frequency :5775 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	44.65	-12.67	31.98	43.50	-11.52
165.80	S	Peak	33.40	-7.40	26.00	43.50	-17.50
298.69	S	Peak	48.28	-5.95	42.33	46.00	-3.67
416.06	S	Peak	34.82	-3.27	31.55	46.00	-14.45
497.54	S	Peak	37.30	-2.38	34.92	46.00	-11.08
594.54	S	Peak	38.07	0.08	38.15	46.00	-7.85

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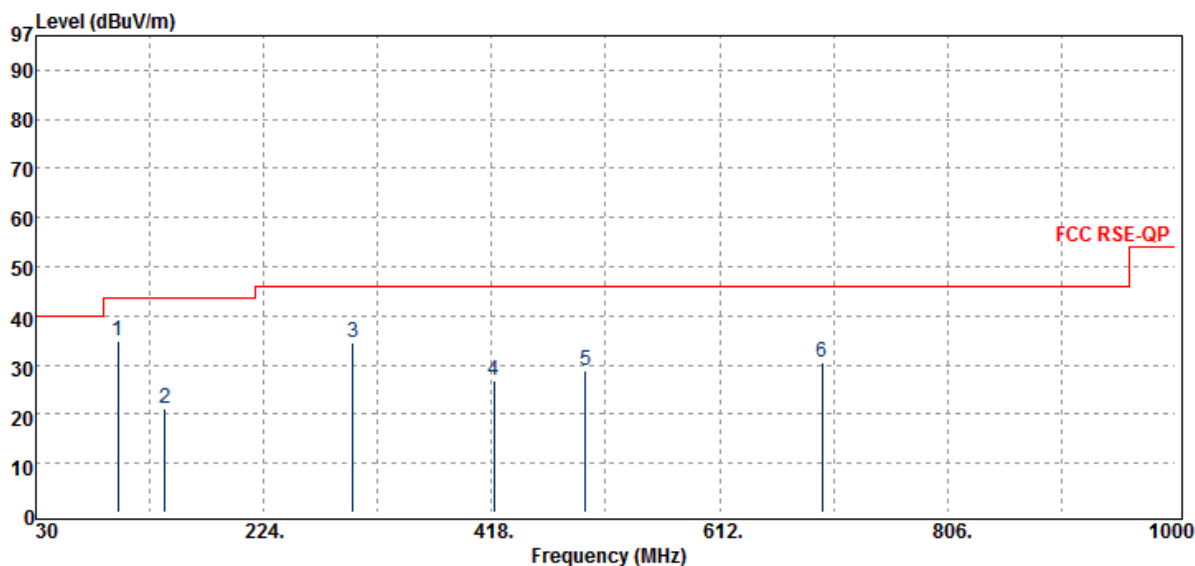
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Radiated Spurious Emission Measurement Result Below 1GHz Worst-Case Data:

ROD Antenna:

Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
99.84	S	Peak	47.67	-12.67	35.00	43.50	-8.50
139.61	S	Peak	29.51	-8.41	21.10	43.50	-22.40
299.66	S	Peak	40.54	-5.93	34.61	46.00	-11.39
419.94	S	Peak	30.25	-3.39	26.86	46.00	-19.14
497.54	S	Peak	31.34	-2.38	28.96	46.00	-17.04
699.30	S	Peak	29.27	1.44	30.71	46.00	-15.29

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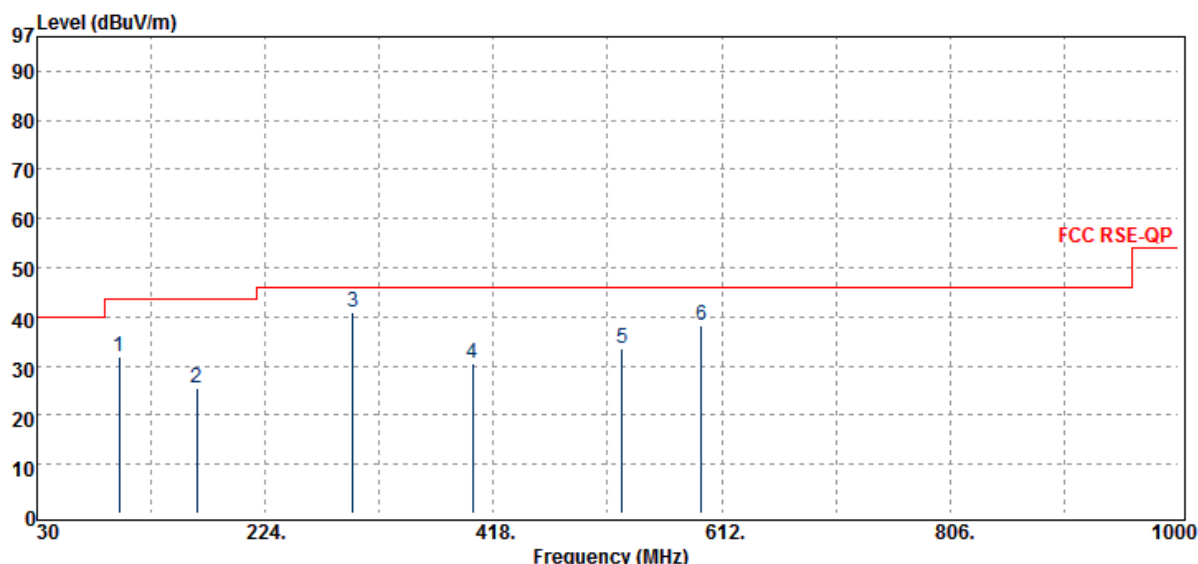
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Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	44.67	-12.67	32.00	43.50	-11.50
165.80	S	Peak	33.06	-7.40	25.66	43.50	-17.84
298.69	S	Peak	46.91	-5.95	40.96	46.00	-5.04
400.54	S	Peak	34.42	-3.94	30.48	46.00	-15.52
527.61	S	Peak	34.88	-1.32	33.56	46.00	-12.44
594.54	S	Peak	38.18	0.08	38.26	46.00	-7.74

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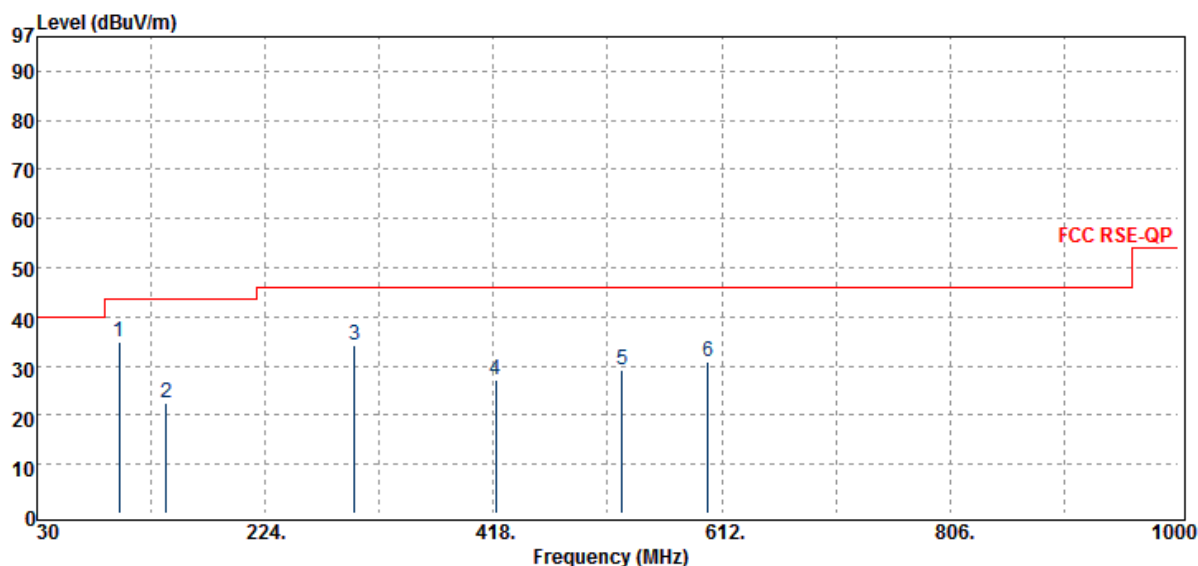
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Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	47.67	-12.67	35.00	43.50	-8.50
139.61	S	Peak	30.90	-8.41	22.49	43.50	-21.01
299.66	S	Peak	40.21	-5.93	34.28	46.00	-11.72
419.94	S	Peak	30.63	-3.39	27.24	46.00	-18.76
527.61	S	Peak	30.43	-1.32	29.11	46.00	-16.89
600.36	S	Peak	30.93	-0.14	30.79	46.00	-15.21

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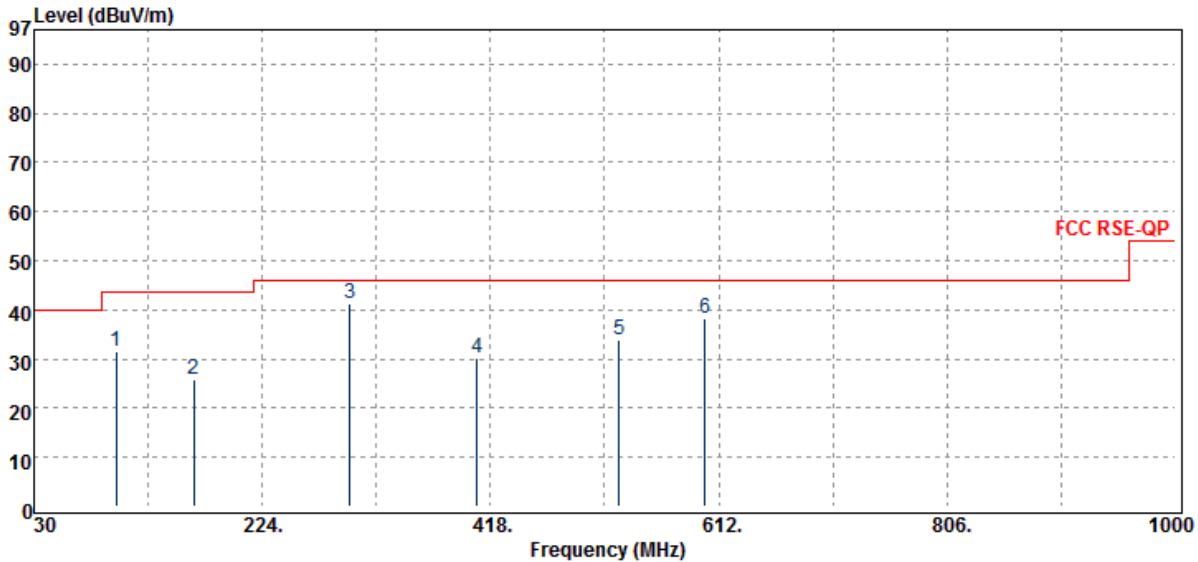
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Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	44.34	-12.67	31.67	43.50	-11.83
165.80	S	Peak	33.24	-7.40	25.84	43.50	-17.66
298.69	S	Peak	47.35	-5.95	41.40	46.00	-4.60
406.36	S	Peak	33.90	-3.59	30.31	46.00	-15.69
527.61	S	Peak	35.09	-1.32	33.77	46.00	-12.23
600.36	S	Peak	38.56	-0.14	38.42	46.00	-7.58

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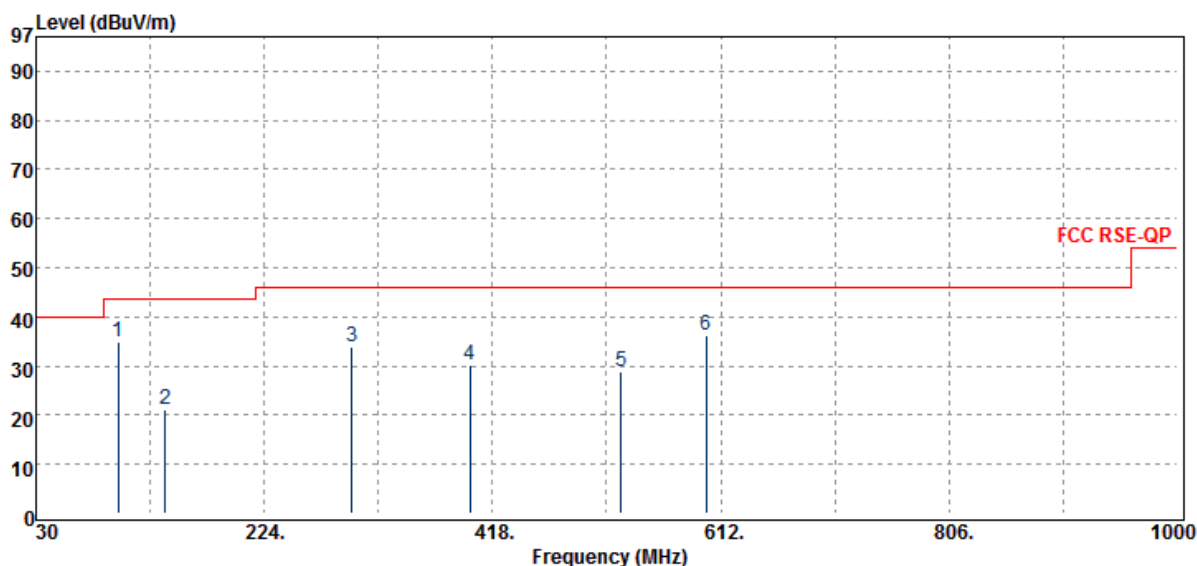
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Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	47.41	-12.67	34.74	43.50	-8.76
139.61	S	Peak	29.47	-8.41	21.06	43.50	-22.44
298.69	S	Peak	39.85	-5.95	33.90	46.00	-12.10
398.60	S	Peak	34.05	-3.97	30.08	46.00	-15.92
527.61	S	Peak	30.26	-1.32	28.94	46.00	-17.06
599.39	S	Peak	36.48	-0.27	36.21	46.00	-9.79

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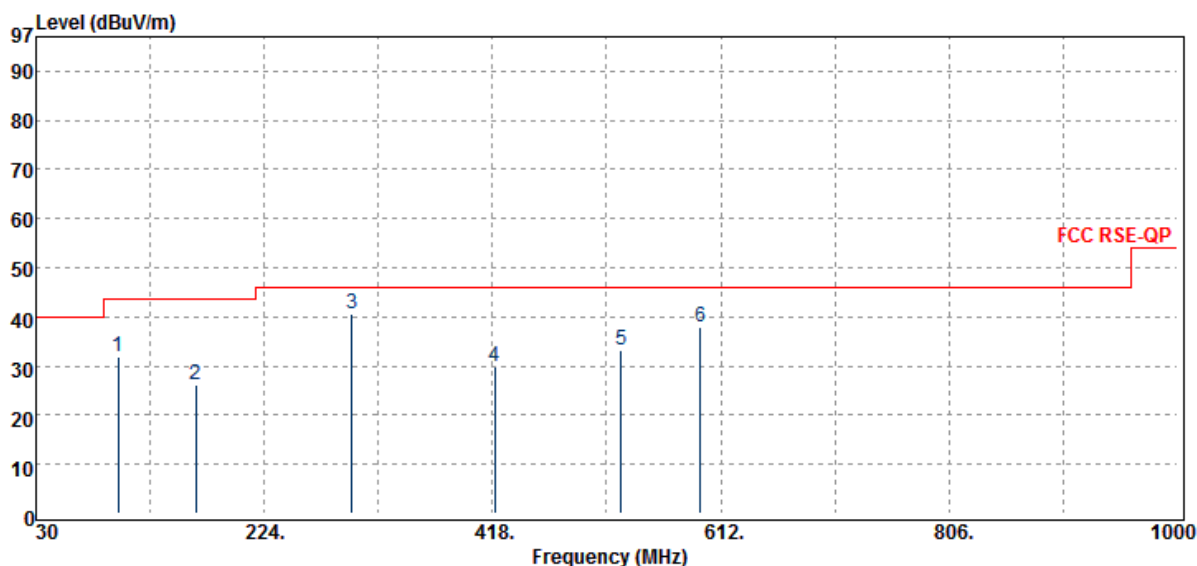
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Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	44.53	-12.67	31.86	43.50	-11.64
165.80	S	Peak	33.60	-7.40	26.20	43.50	-17.30
298.69	S	Peak	46.57	-5.95	40.62	46.00	-5.38
419.94	S	Peak	33.31	-3.39	29.92	46.00	-16.08
527.61	S	Peak	34.56	-1.32	33.24	46.00	-12.76
594.54	S	Peak	37.83	0.08	37.91	46.00	-8.09

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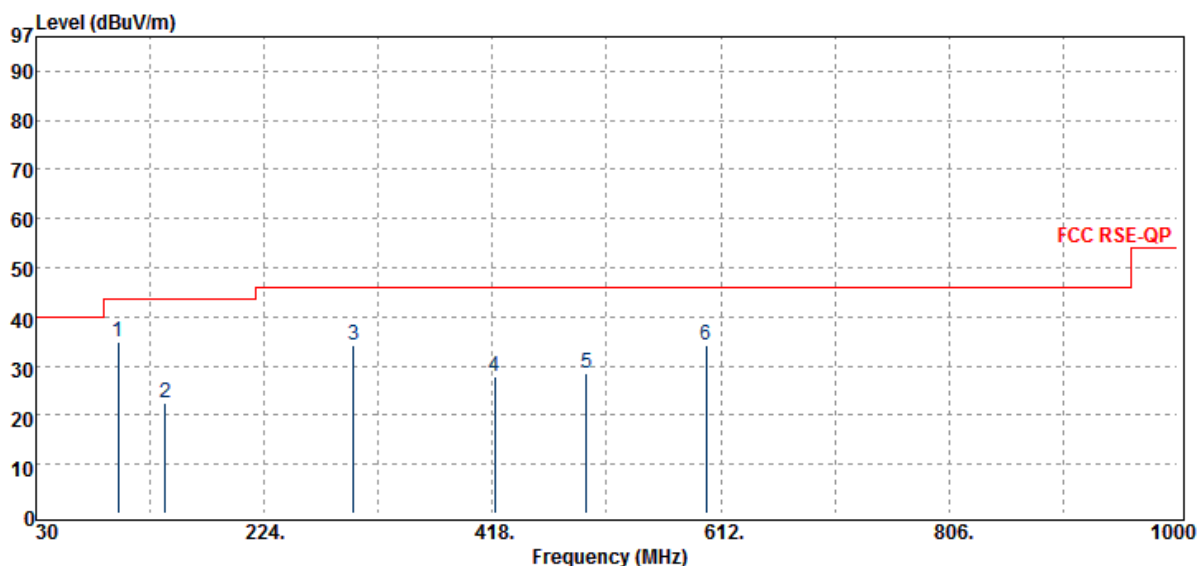
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Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	47.46	-12.67	34.79	43.50	-8.71
139.61	S	Peak	30.86	-8.41	22.45	43.50	-21.05
299.66	S	Peak	40.04	-5.93	34.11	46.00	-11.89
419.94	S	Peak	31.36	-3.39	27.97	46.00	-18.03
497.54	S	Peak	30.97	-2.38	28.59	46.00	-17.41
599.39	S	Peak	34.38	-0.27	34.11	46.00	-11.89

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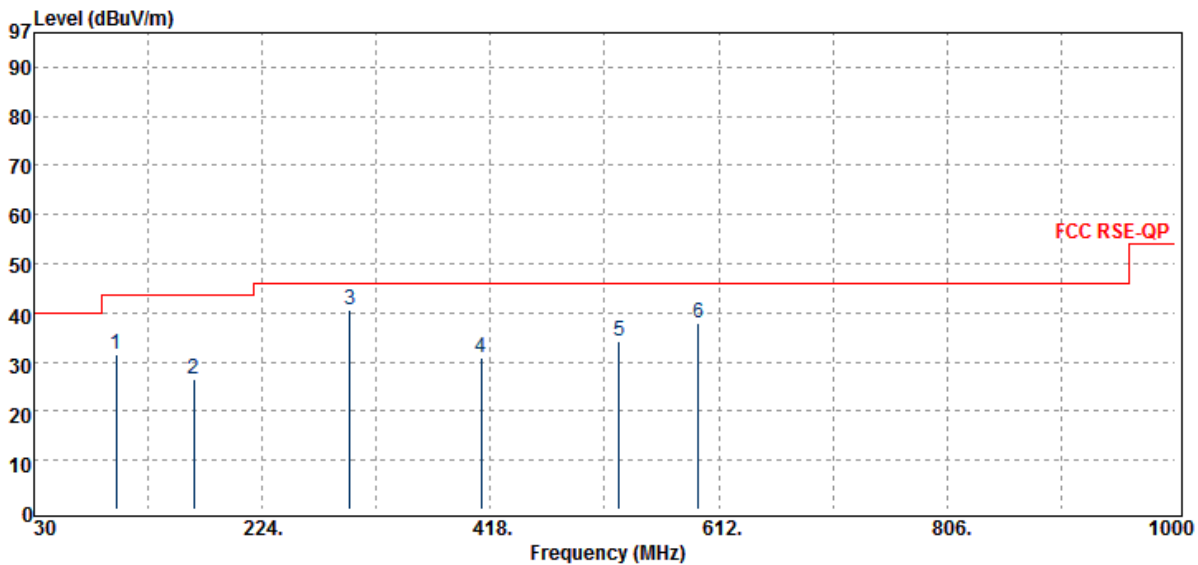
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Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	44.37	-12.67	31.70	43.50	-11.80
165.80	S	Peak	33.79	-7.40	26.39	43.50	-17.11
298.69	S	Peak	46.52	-5.95	40.57	46.00	-5.43
410.24	S	Peak	34.36	-3.62	30.74	46.00	-15.26
527.61	S	Peak	35.52	-1.32	34.20	46.00	-11.80
594.54	S	Peak	37.95	0.08	38.03	46.00	-7.97

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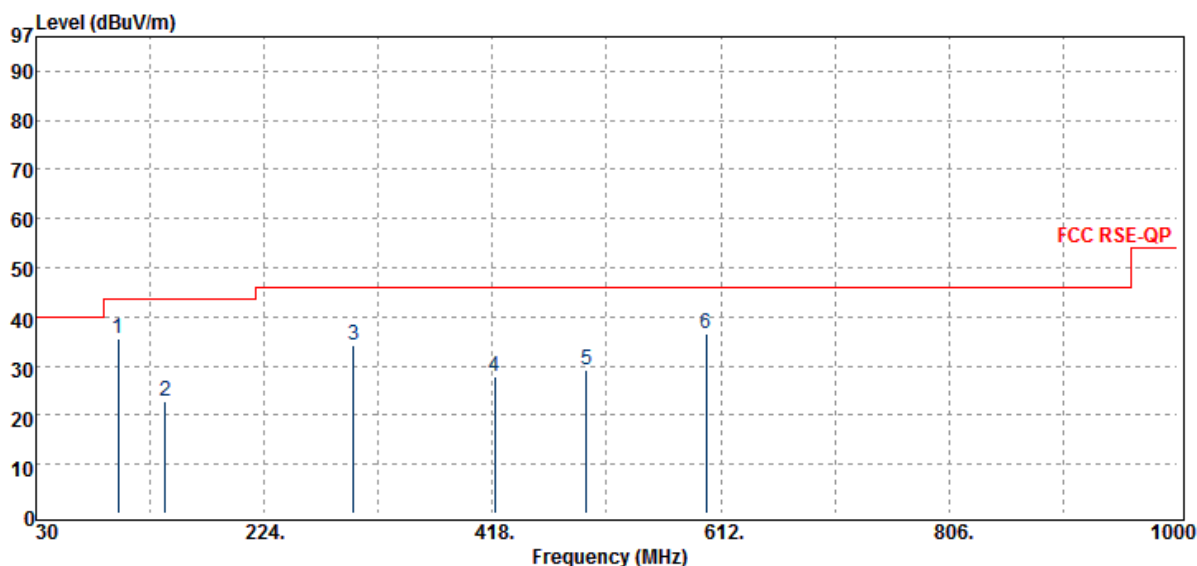
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Operation Band :802.11ac80B1
Fundamental Frequency :5210 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	48.33	-12.67	35.66	43.50	-7.84
139.61	S	Peak	31.29	-8.41	22.88	43.50	-20.62
299.66	S	Peak	40.20	-5.93	34.27	46.00	-11.73
419.94	S	Peak	31.19	-3.39	27.80	46.00	-18.20
497.54	S	Peak	31.64	-2.38	29.26	46.00	-16.74
599.39	S	Peak	36.75	-0.27	36.48	46.00	-9.52

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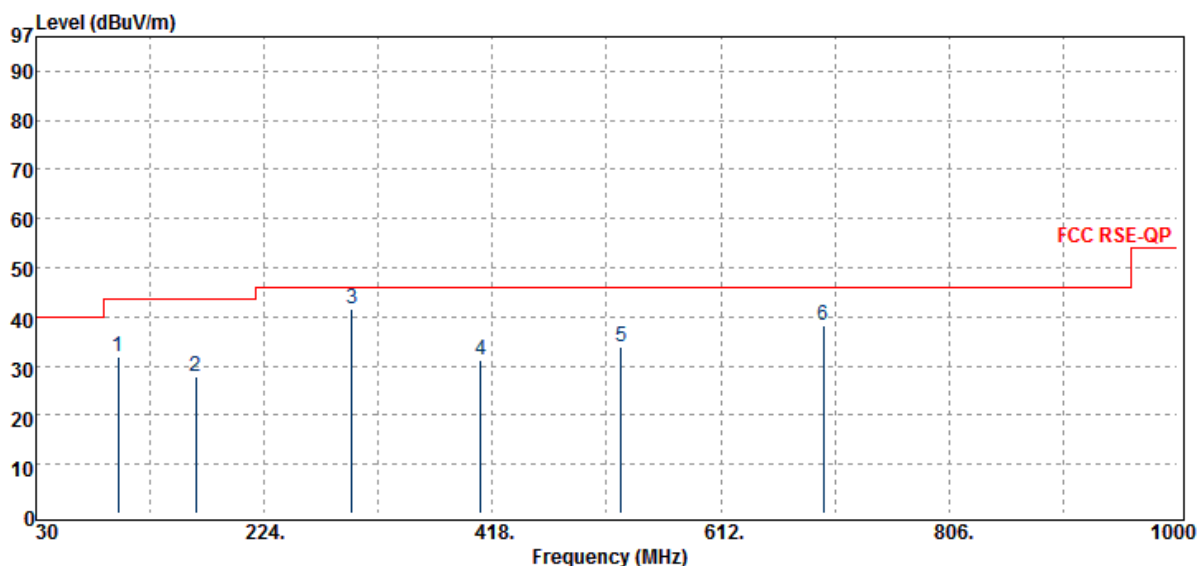
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Operation Band :802.11ac80B1
Fundamental Frequency :5210 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	44.68	-12.67	32.01	43.50	-11.49
165.80	S	Peak	35.31	-7.40	27.91	43.50	-15.59
298.69	S	Peak	47.50	-5.95	41.55	46.00	-4.45
408.30	S	Peak	34.69	-3.53	31.16	46.00	-14.84
527.61	S	Peak	35.23	-1.32	33.91	46.00	-12.09
699.30	S	Peak	36.90	1.44	38.34	46.00	-7.66

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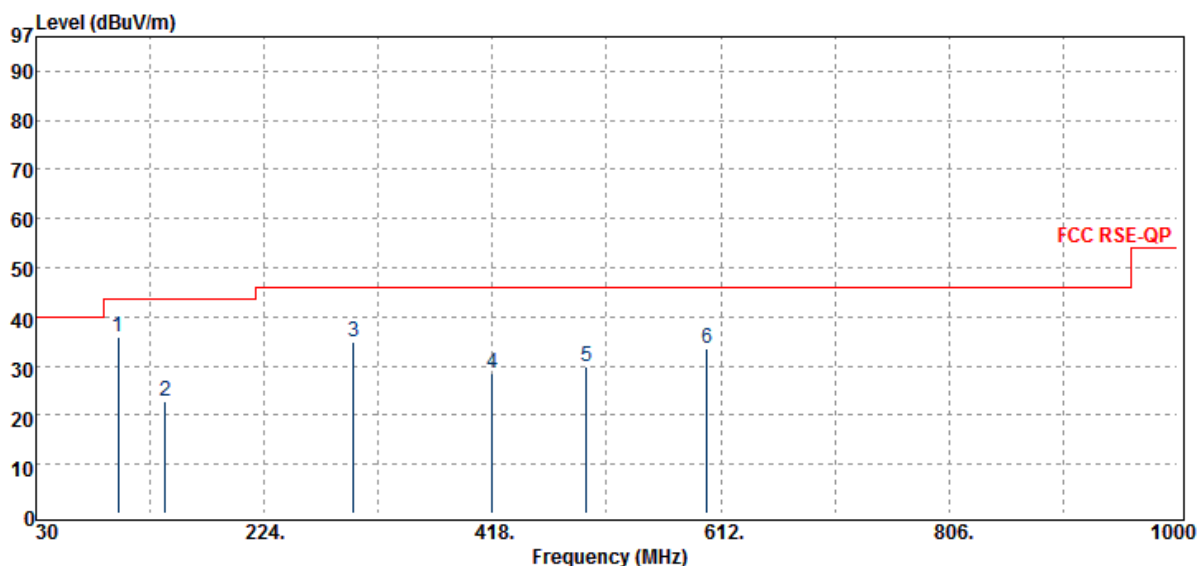
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Member of SGS Group

Operation Band :802.11ac80B2
Fundamental Frequency :5290 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	48.54	-12.67	35.87	43.50	-7.63
139.61	S	Peak	31.14	-8.41	22.73	43.50	-20.77
299.66	S	Peak	40.79	-5.93	34.86	46.00	-11.14
418.00	S	Peak	31.83	-3.37	28.46	46.00	-17.54
497.54	S	Peak	32.17	-2.38	29.79	46.00	-16.21
600.36	S	Peak	33.54	-0.14	33.40	46.00	-12.60

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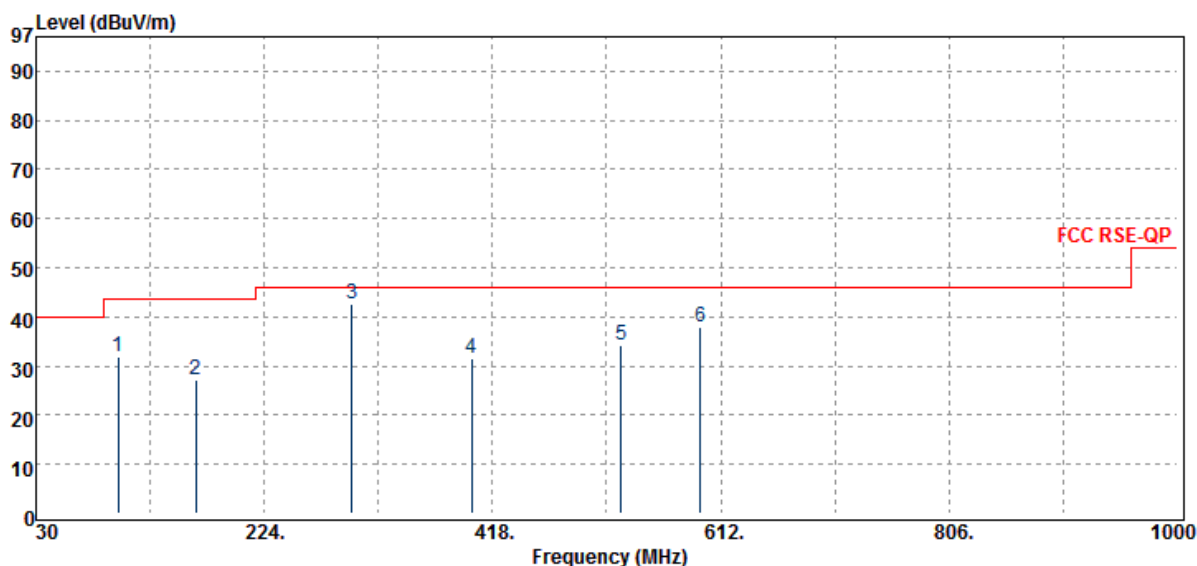
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Member of SGS Group

Operation Band :802.11ac80B2
Fundamental Frequency :5290 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	44.41	-12.67	31.74	43.50	-11.76
165.80	S	Peak	34.61	-7.40	27.21	43.50	-16.29
298.69	S	Peak	48.60	-5.95	42.65	46.00	-3.35
400.54	S	Peak	35.38	-3.94	31.44	46.00	-14.56
527.61	S	Peak	35.72	-1.32	34.40	46.00	-11.60
594.54	S	Peak	37.94	0.08	38.02	46.00	-7.98

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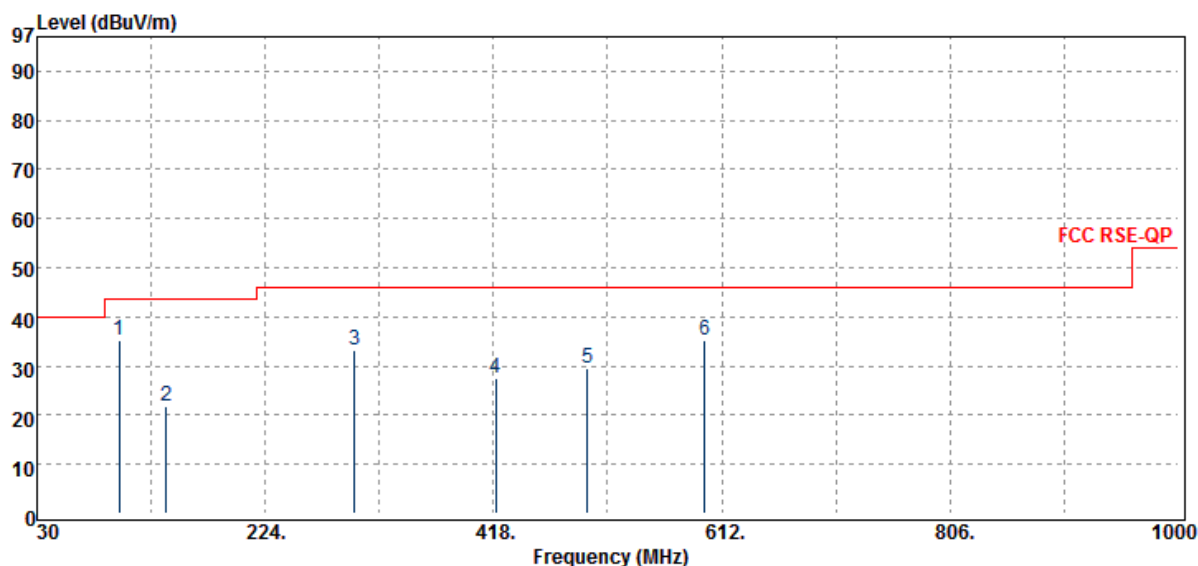
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Member of SGS Group

Operation Band :802.11ac80B3
Fundamental Frequency :5530 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	47.94	-12.67	35.27	43.50	-8.23
139.61	S	Peak	30.29	-8.41	21.88	43.50	-21.62
299.66	S	Peak	39.27	-5.93	33.34	46.00	-12.66
419.94	S	Peak	31.06	-3.39	27.67	46.00	-18.33
497.54	S	Peak	31.92	-2.38	29.54	46.00	-16.46
597.45	S	Peak	35.48	-0.19	35.29	46.00	-10.71

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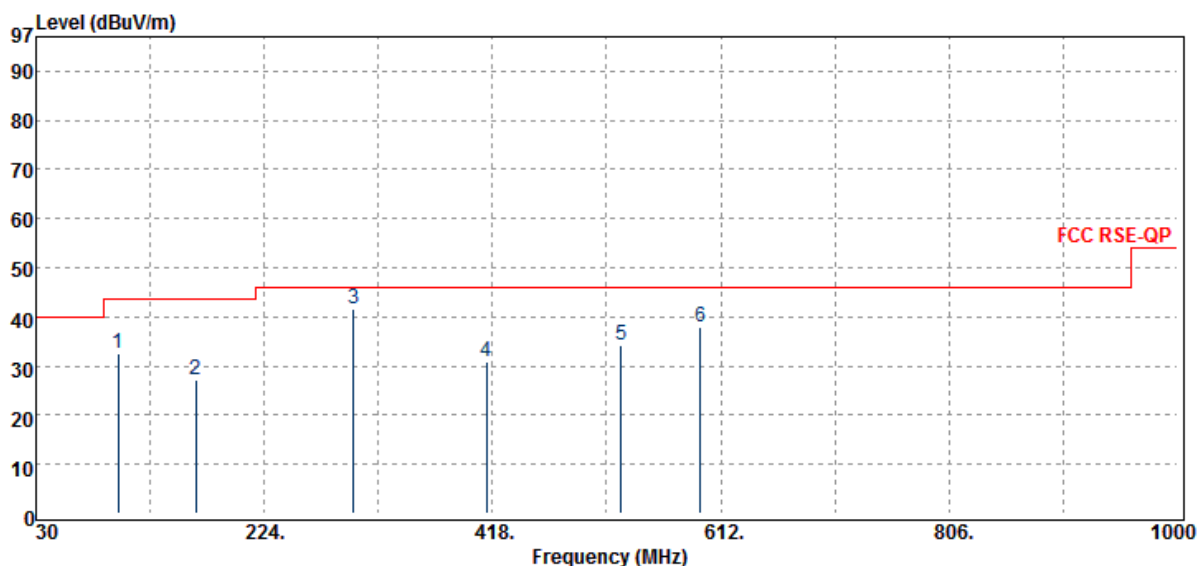
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Operation Band :802.11ac80B3
Fundamental Frequency :5530 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	45.10	-12.67	32.43	43.50	-11.07
165.80	S	Peak	34.54	-7.40	27.14	43.50	-16.36
299.66	S	Peak	47.68	-5.93	41.75	46.00	-4.25
413.15	S	Peak	34.24	-3.38	30.86	46.00	-15.14
527.61	S	Peak	35.43	-1.32	34.11	46.00	-11.89
594.54	S	Peak	37.90	0.08	37.98	46.00	-8.02

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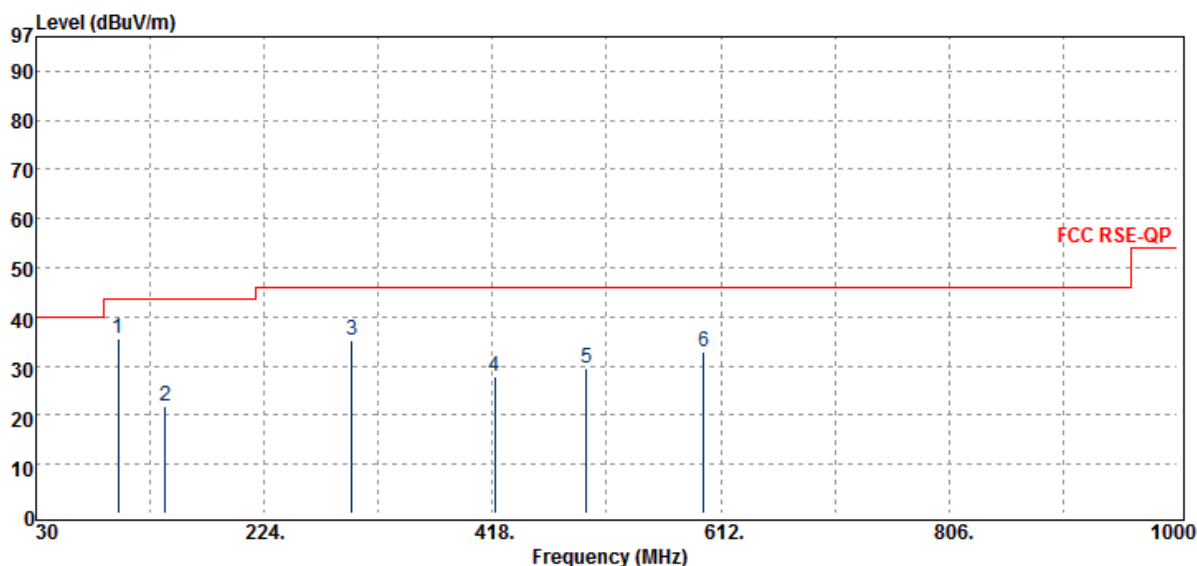
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Member of SGS Group

Operation Band :802.11ac80B3
 Fundamental Frequency :5610 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-12-25
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	48.12	-12.67	35.45	43.50	-8.05
139.61	S	Peak	30.10	-8.41	21.69	43.50	-21.81
298.69	S	Peak	41.06	-5.95	35.11	46.00	-10.89
419.94	S	Peak	31.30	-3.39	27.91	46.00	-18.09
497.54	S	Peak	31.91	-2.38	29.53	46.00	-16.47
597.45	S	Peak	32.99	-0.19	32.80	46.00	-13.20

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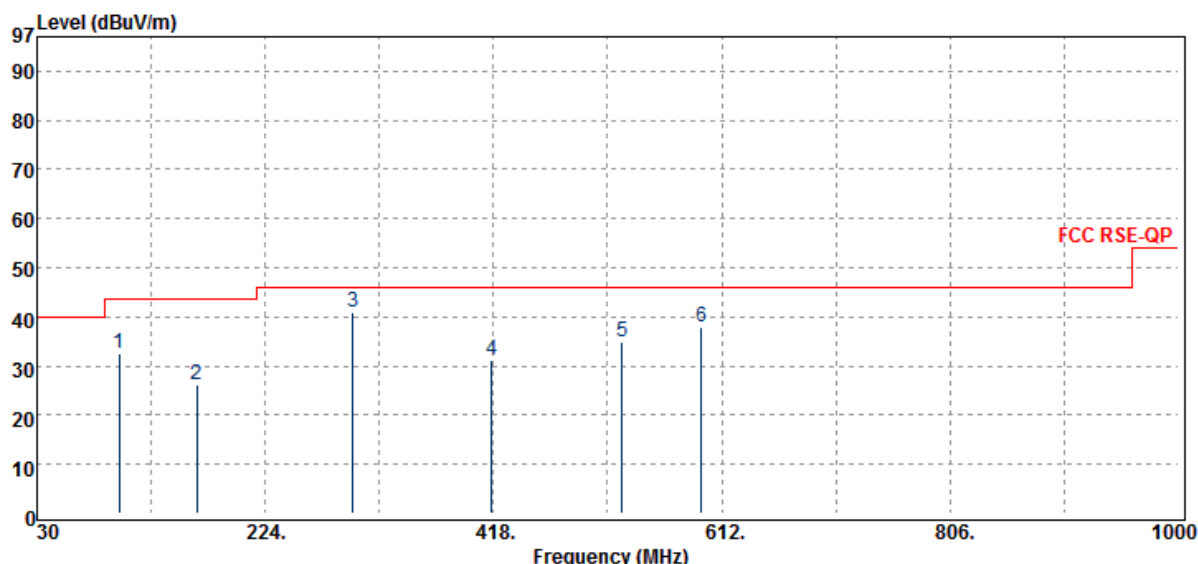
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Member of SGS Group

Operation Band :802.11ac80B3
Fundamental Frequency :5610 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	45.14	-12.67	32.47	43.50	-11.03
165.80	S	Peak	33.52	-7.40	26.12	43.50	-17.38
298.69	S	Peak	46.79	-5.95	40.84	46.00	-5.16
416.06	S	Peak	34.44	-3.27	31.17	46.00	-14.83
527.61	S	Peak	36.18	-1.32	34.86	46.00	-11.14
594.54	S	Peak	37.89	0.08	37.97	46.00	-8.03

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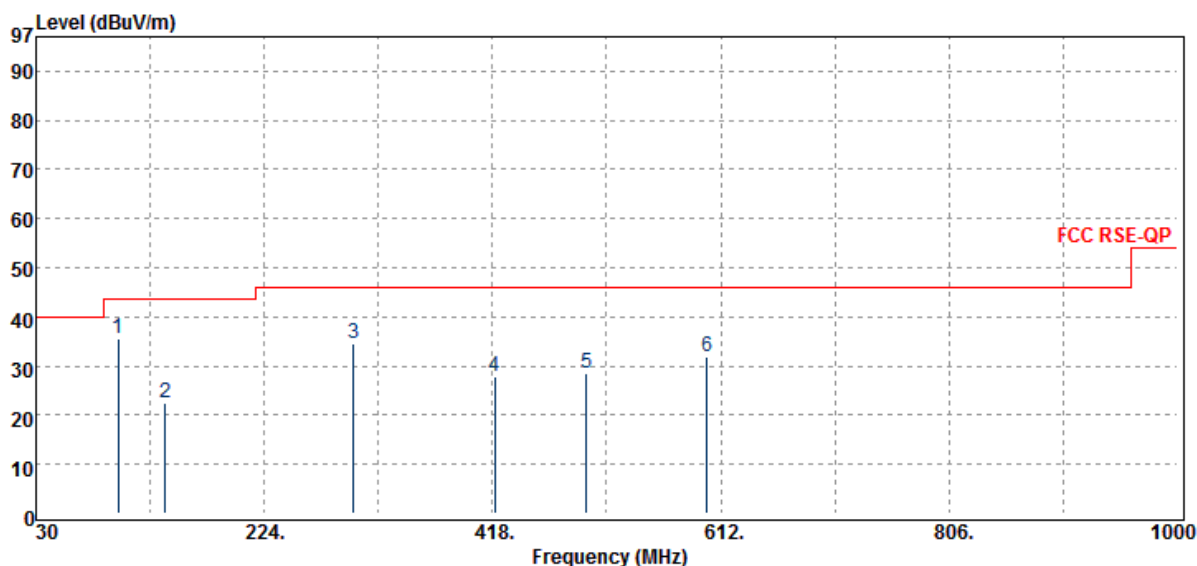
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Member of SGS Group

Operation Band :802.11ac80B4
Fundamental Frequency :5775 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	48.33	-12.67	35.66	43.50	-7.84
139.61	S	Peak	30.91	-8.41	22.50	43.50	-21.00
299.66	S	Peak	40.48	-5.93	34.55	46.00	-11.45
419.94	S	Peak	31.25	-3.39	27.86	46.00	-18.14
497.54	S	Peak	30.85	-2.38	28.47	46.00	-17.53
600.36	S	Peak	31.88	-0.14	31.74	46.00	-14.26

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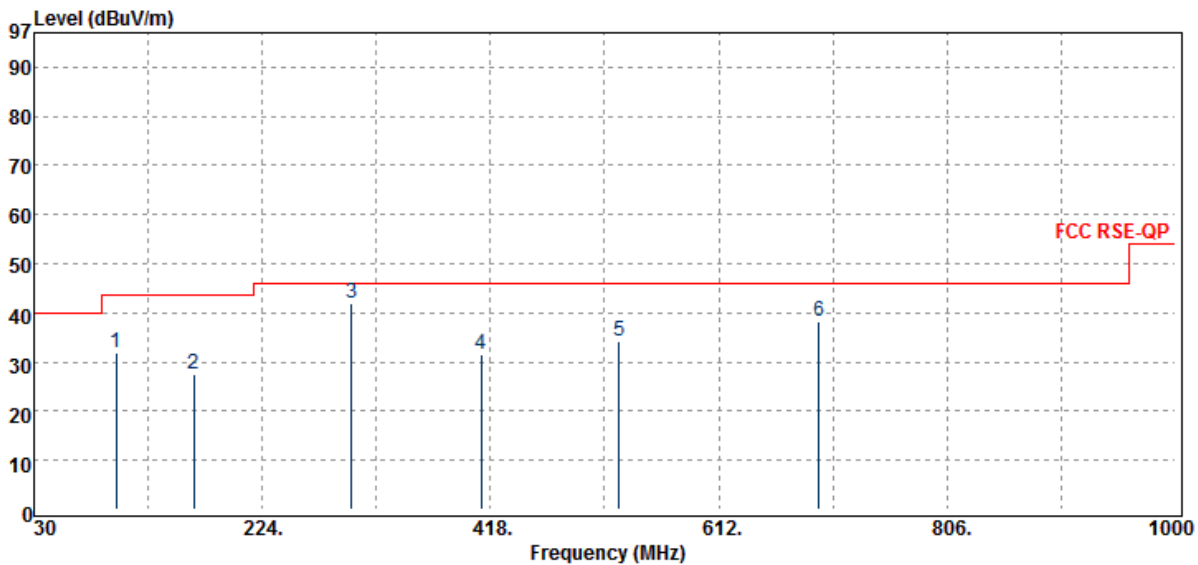
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Operation Band :802.11ac80B4
Fundamental Frequency :5775 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2017-12-25
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	S	Peak	44.47	-12.67	31.80	43.50	-11.70
165.80	S	Peak	34.97	-7.40	27.57	43.50	-15.93
299.66	S	Peak	47.77	-5.93	41.84	46.00	-4.16
410.24	S	Peak	35.06	-3.62	31.44	46.00	-14.56
527.61	S	Peak	35.59	-1.32	34.27	46.00	-11.73
697.36	S	Peak	36.83	1.36	38.19	46.00	-7.81

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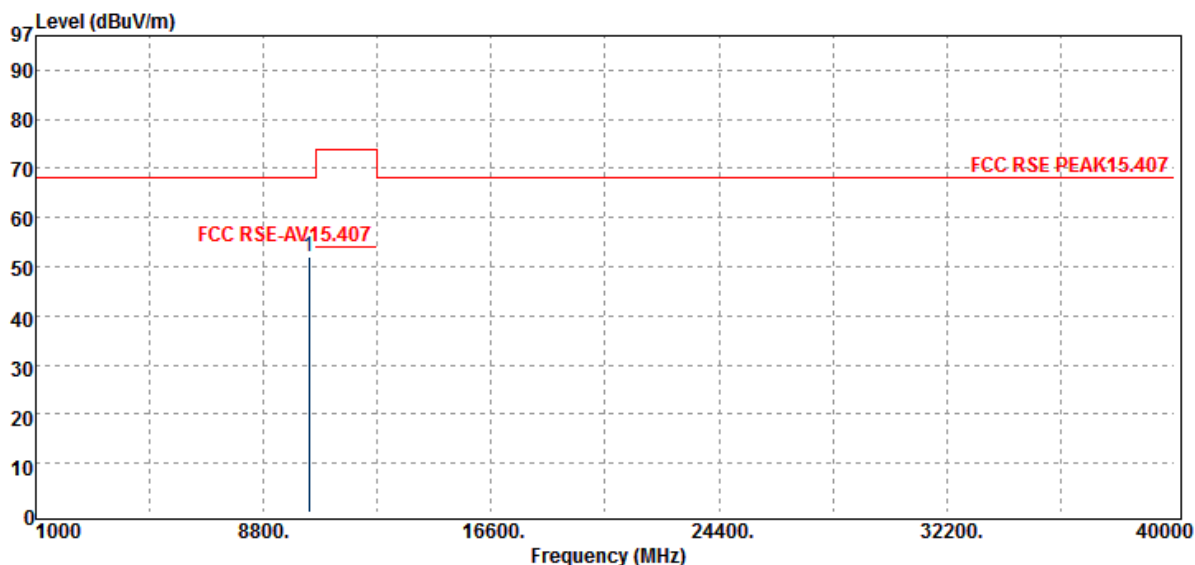
Radiated Spurious Emission Measurement Result

Above 1GHz Worst-Case Data:

Radiated test was done with 50ohm terminator on antenna port

ROD Antenna:

Operation Band	:802.11aB1	Test Date	:2018-02-23
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10360.00	H	Peak	33.76	18.29	52.05	68.30	-16.25

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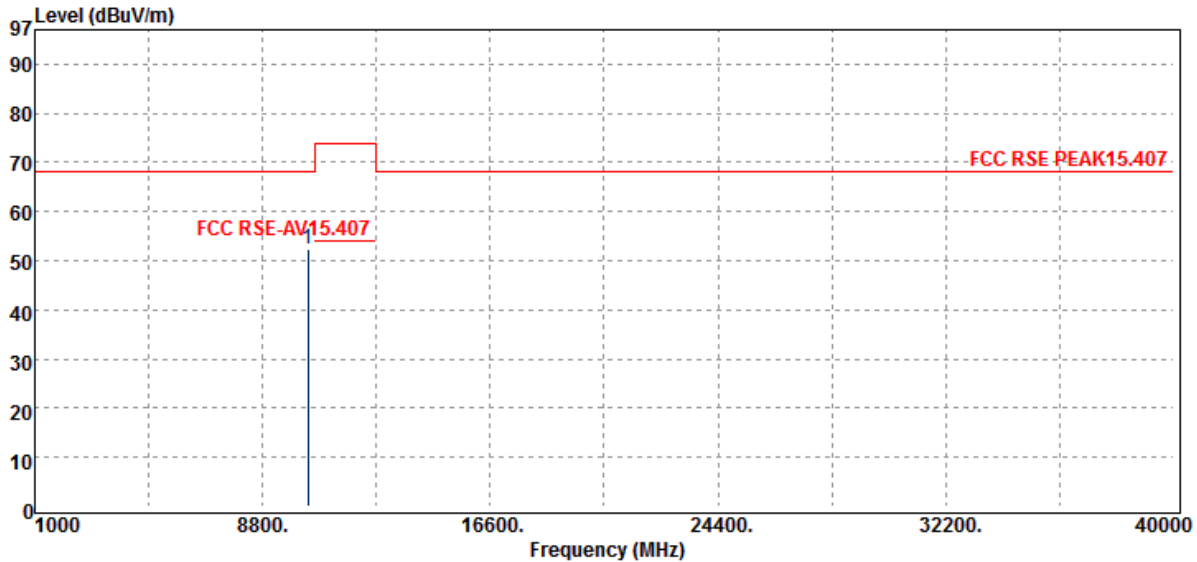
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Operation Band :802.11aB1
 Fundamental Frequency :5180 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10360.00	H	Peak	34.09	18.29	52.38	68.30	-15.92

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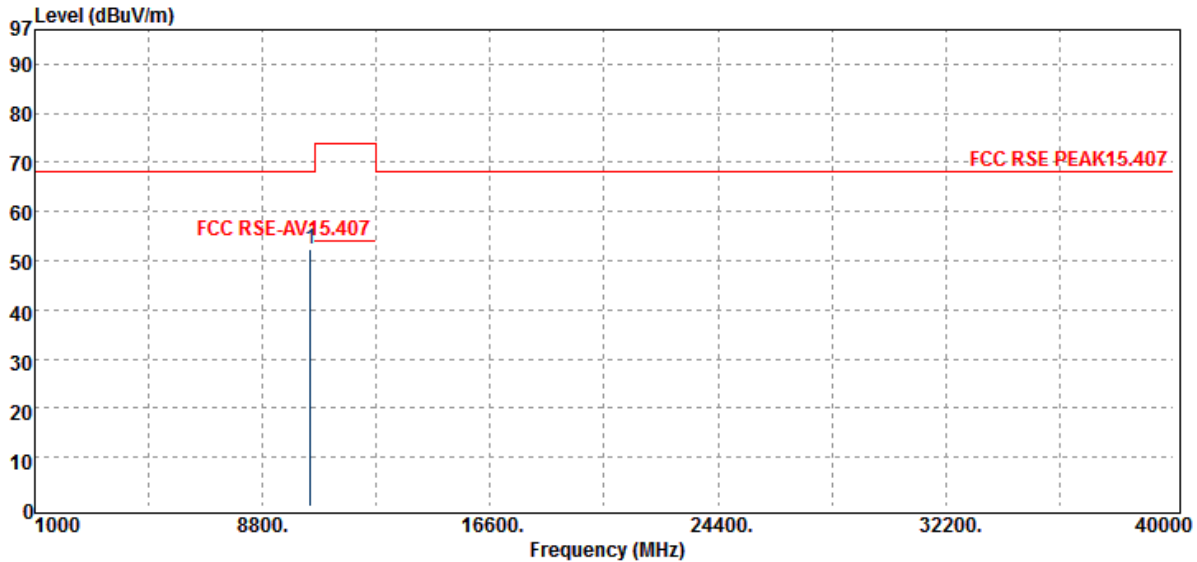
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Operation Band :802.11aB1
 Fundamental Frequency :5220 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10440.00	H	Peak	33.53	18.69	52.22	68.30	-16.08

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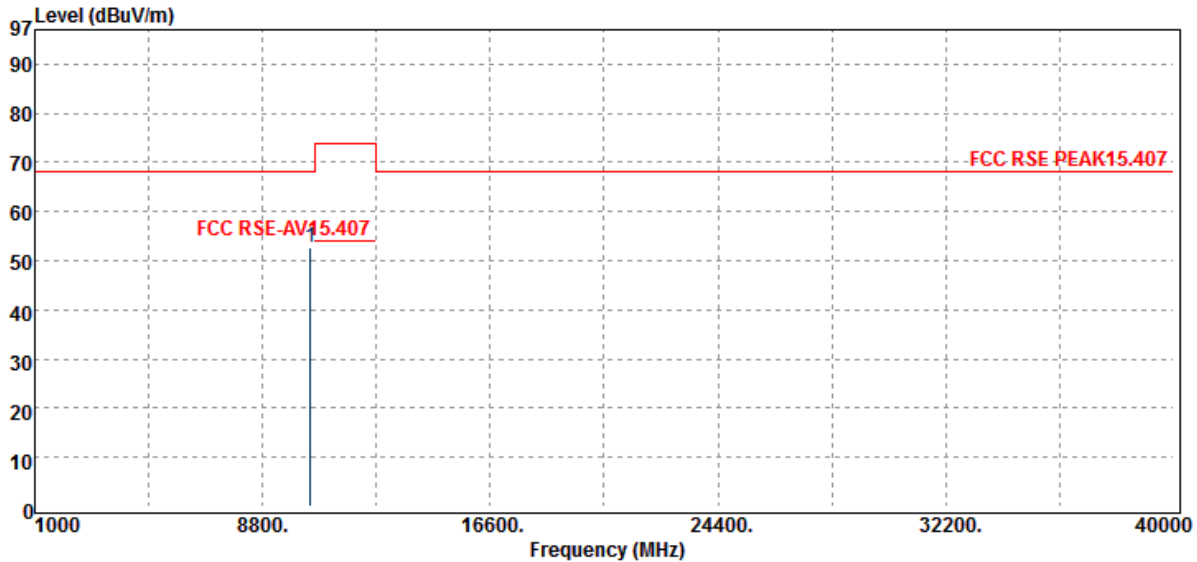
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Operation Band :802.11aB1
 Fundamental Frequency :5220 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10440.00	H	Peak	34.06	18.69	52.75	68.30	-15.55

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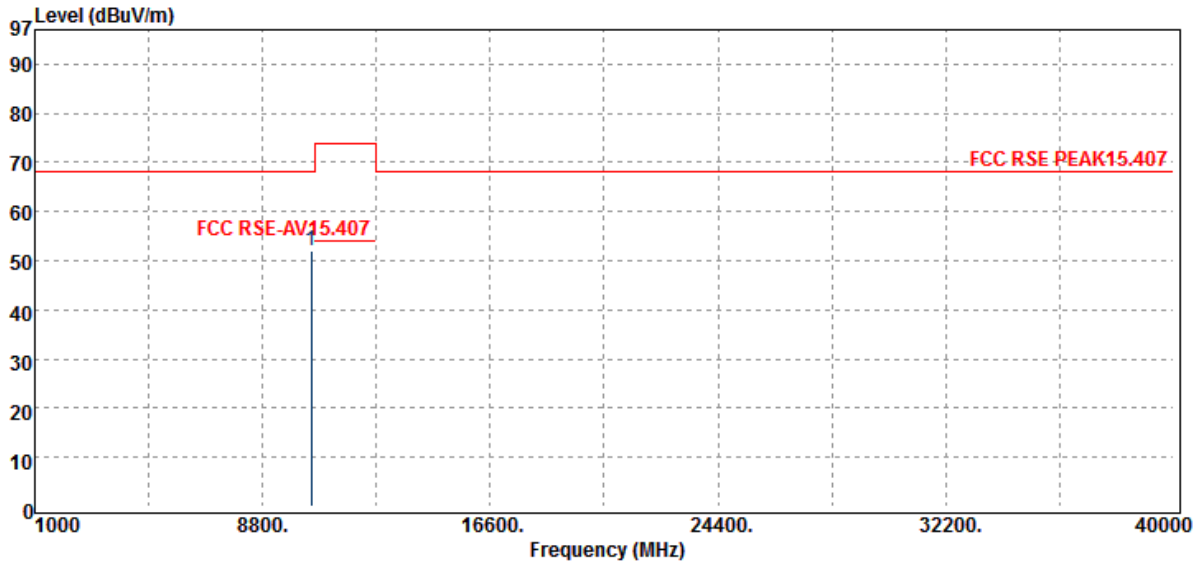
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Operation Band :802.11aB1
 Fundamental Frequency :5240 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10480.00	H	Peak	33.73	18.30	52.03	68.30	-16.27

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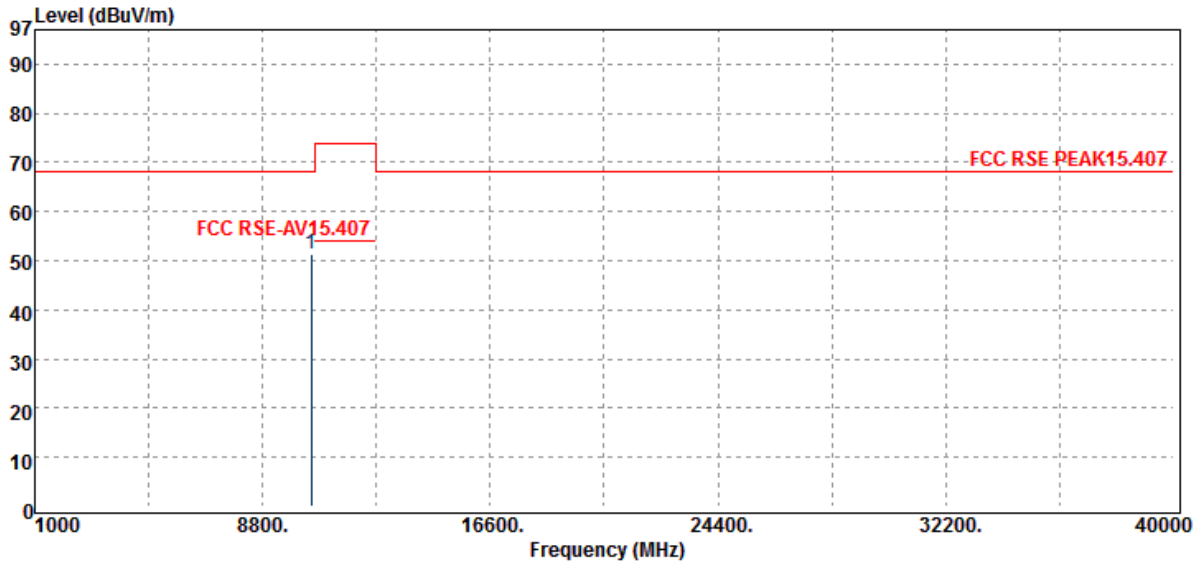
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Operation Band :802.11aB1
 Fundamental Frequency :5240 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10480.00	H	Peak	33.13	18.30	51.43	68.30	-16.87

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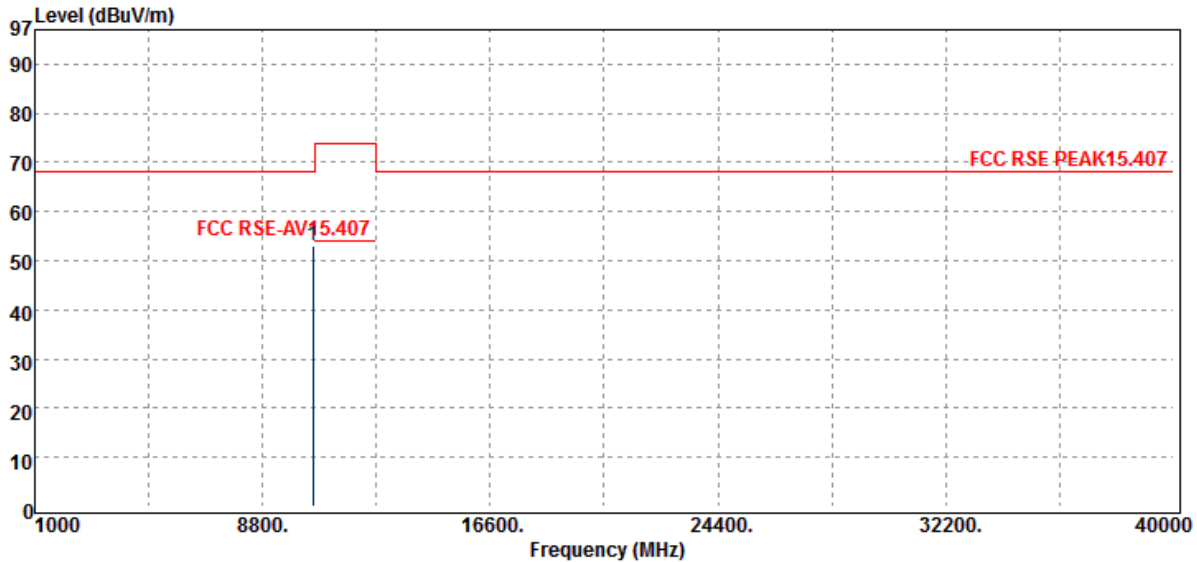
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Operation Band :802.11aB2
 Fundamental Frequency :5260 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10520.00	H	Peak	33.56	19.38	52.94	68.30	-15.36

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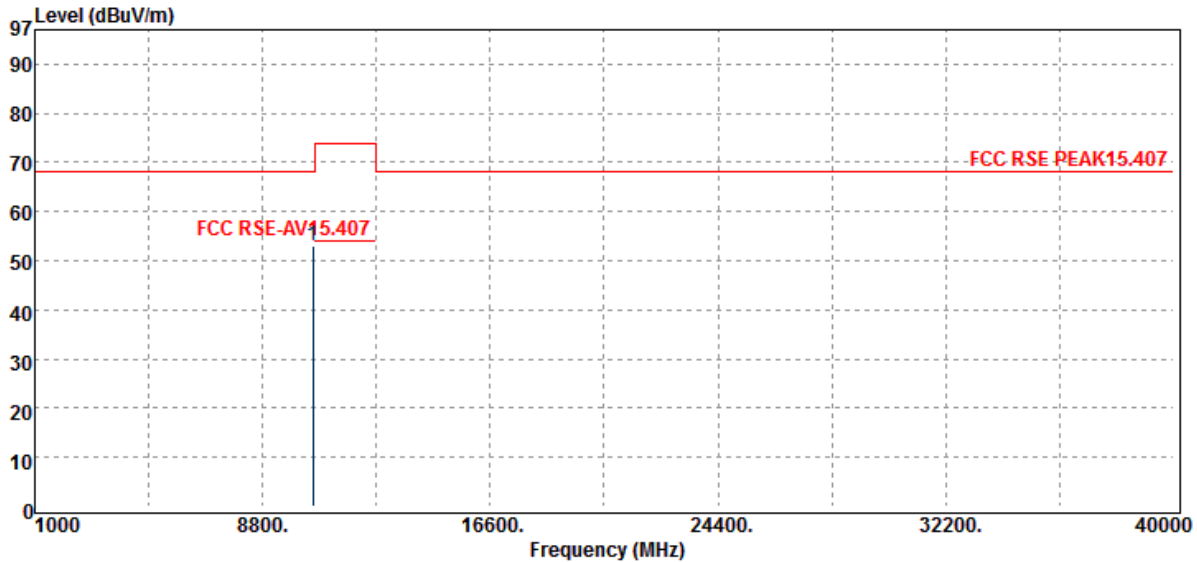
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Operation Band :802.11aB2
Fundamental Frequency :5260 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10520.00	H	Peak	33.60	19.38	52.98	68.30	-15.32

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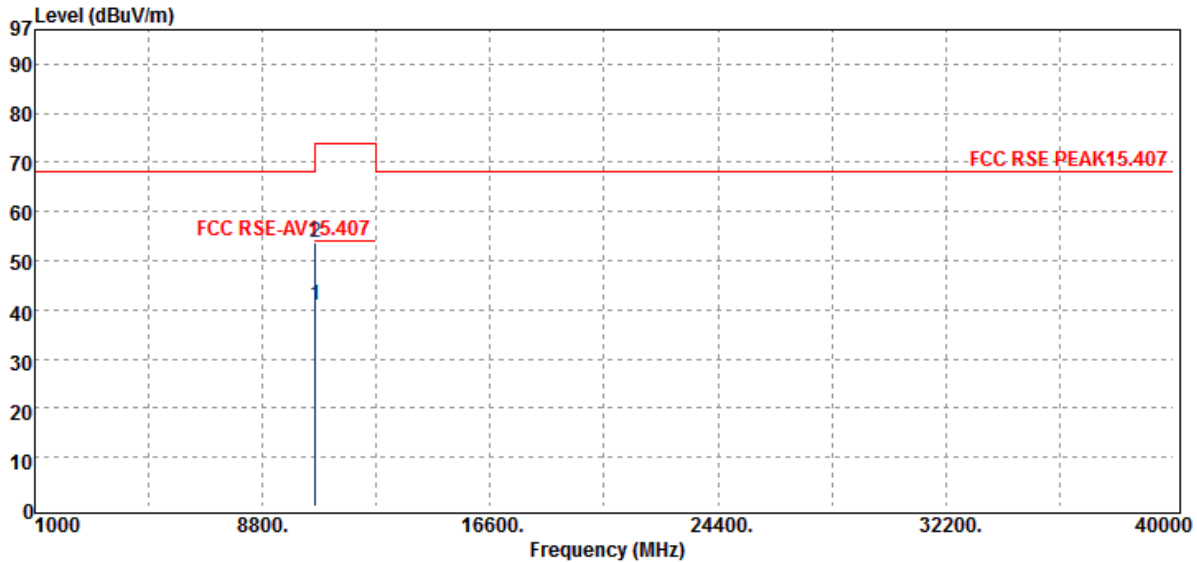
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Operation Band :802.11aB2
 Fundamental Frequency :5300 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10600.00	H	Average	21.96	18.91	40.87	54.00	-13.13
10600.00	H	Peak	34.86	18.91	53.77	74.00	-20.23

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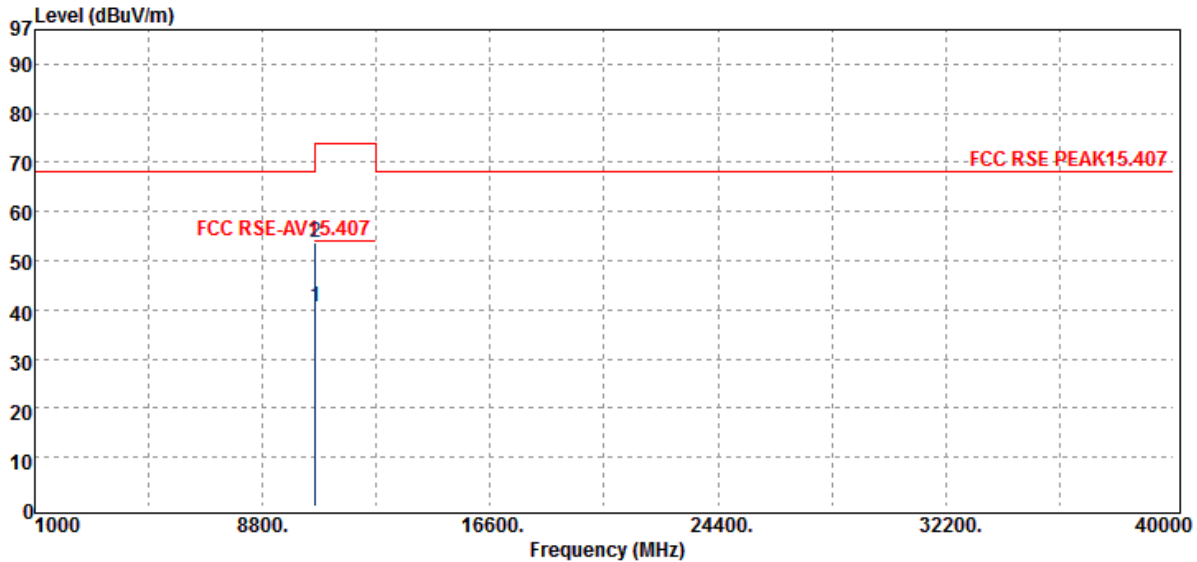
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Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10600.00	H	Average	21.67	18.91	40.58	54.00	-13.42
10600.00	H	Peak	34.63	18.91	53.54	74.00	-20.46

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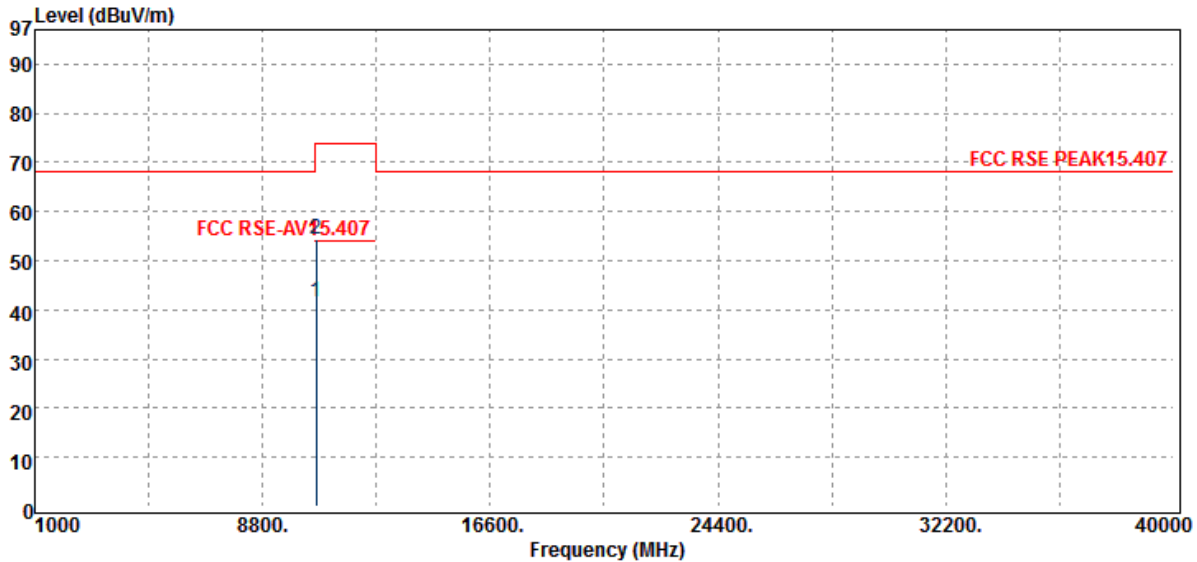
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Operation Band :802.11aB2
Fundamental Frequency :5320 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10640.00	H	Average	22.27	19.19	41.46	54.00	-12.54
10640.00	H	Peak	35.26	19.19	54.45	74.00	-19.55

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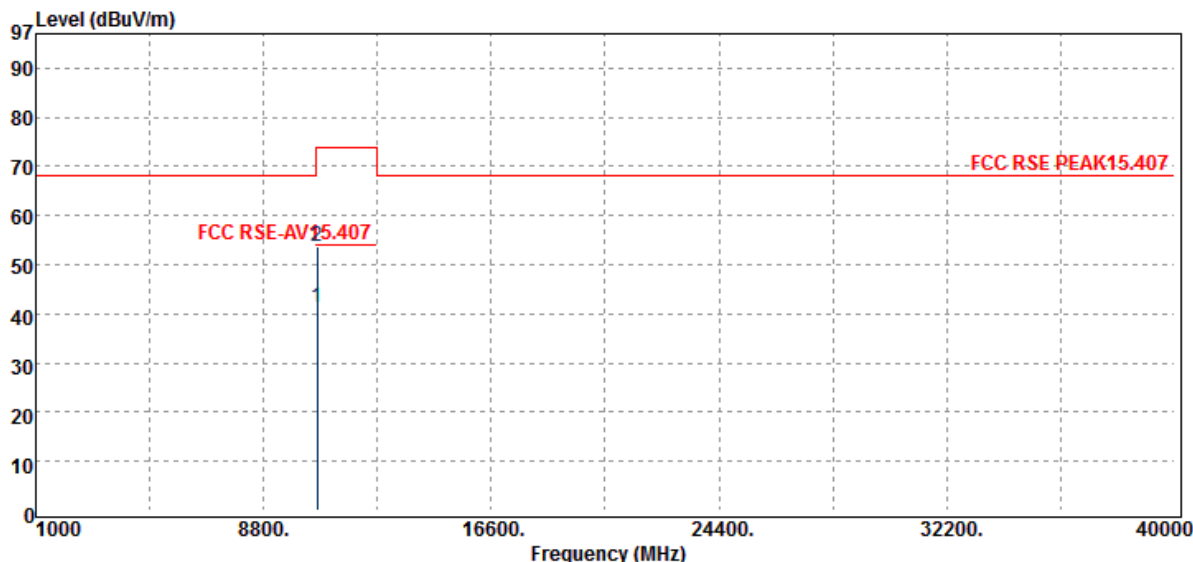
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB2
 Fundamental Frequency :5320 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10640.00	H	Average	22.08	19.19	41.27	54.00	-12.73
10640.00	H	Peak	34.65	19.19	53.84	74.00	-20.16

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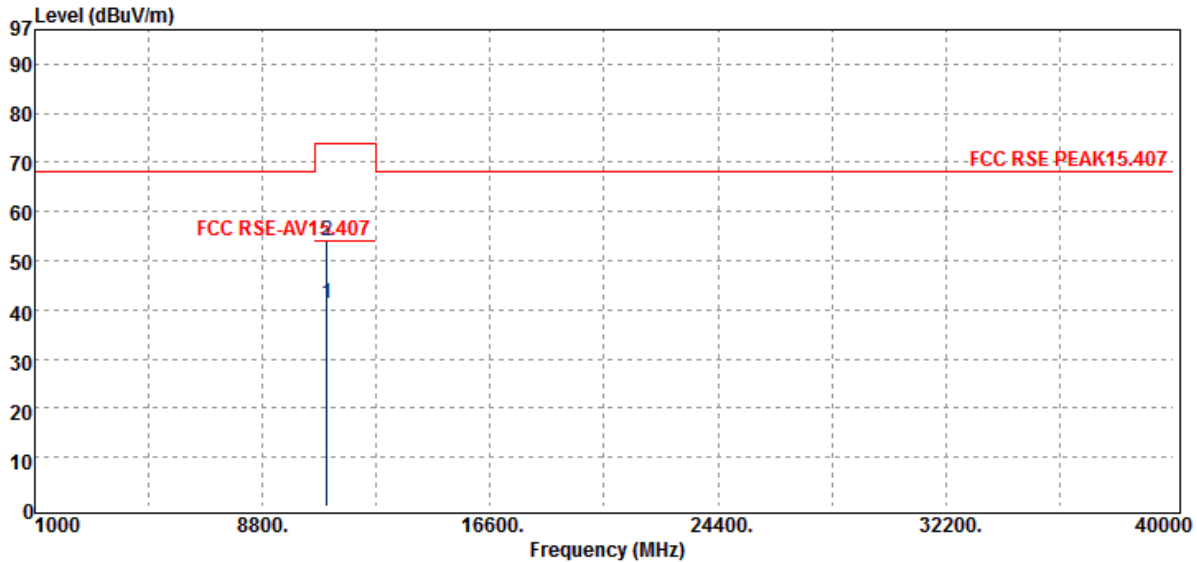
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB3
Fundamental Frequency :5500 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11000.00	H	Average	21.17	20.16	41.33	54.00	-12.67
11000.00	H	Peak	34.02	20.16	54.18	74.00	-19.82

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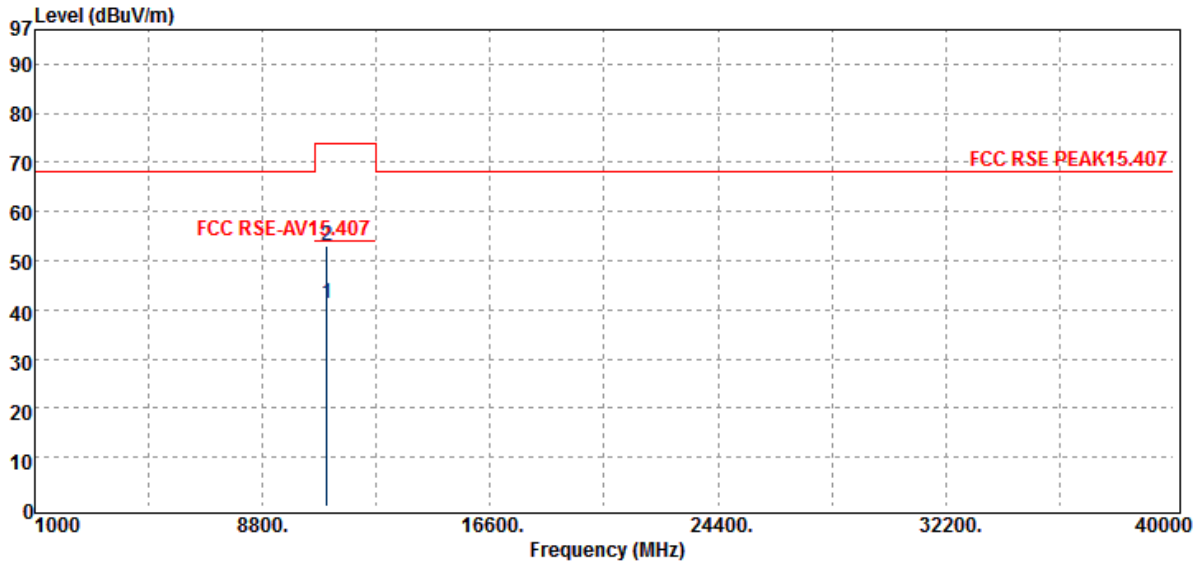
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Operation Band :802.11aB3
Fundamental Frequency :5500 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11000.00	H	Average	21.23	20.16	41.39	54.00	-12.61
11000.00	H	Peak	32.95	20.16	53.11	74.00	-20.89

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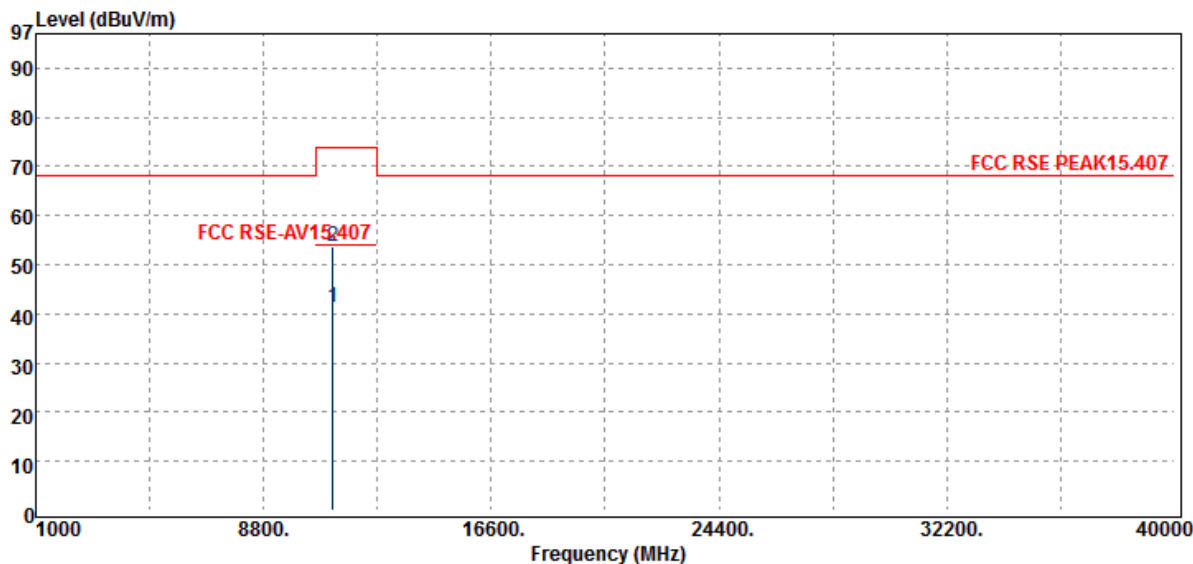
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Member of SGS Group

Operation Band :802.11aB3
 Fundamental Frequency :5580 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11160.00	H	Average	20.90	20.44	41.34	54.00	-12.66
11160.00	H	Peak	33.24	20.44	53.68	74.00	-20.32

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Operation Band :802.11aB3
 Fundamental Frequency :5580 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11160.00	H	Average	21.03	20.44	41.47	54.00	-12.53
11160.00	H	Peak	33.38	20.44	53.82	74.00	-20.18

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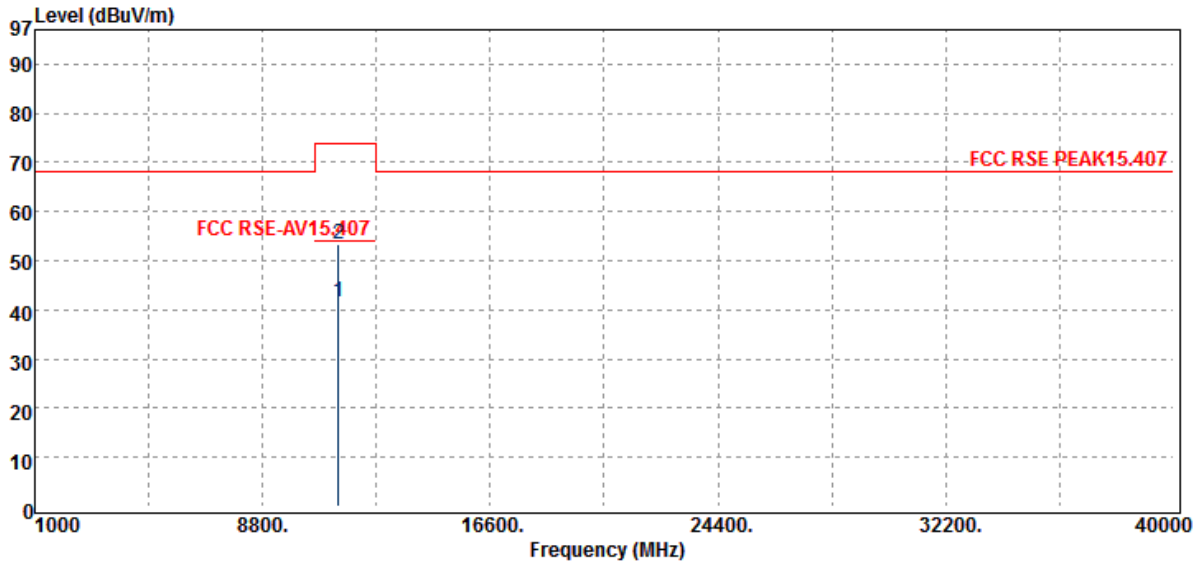
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Member of SGS Group

Operation Band :802.11aB3
 Fundamental Frequency :5700 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11400.00	H	Average	21.10	20.56	41.66	54.00	-12.34
11400.00	H	Peak	32.82	20.56	53.38	74.00	-20.62

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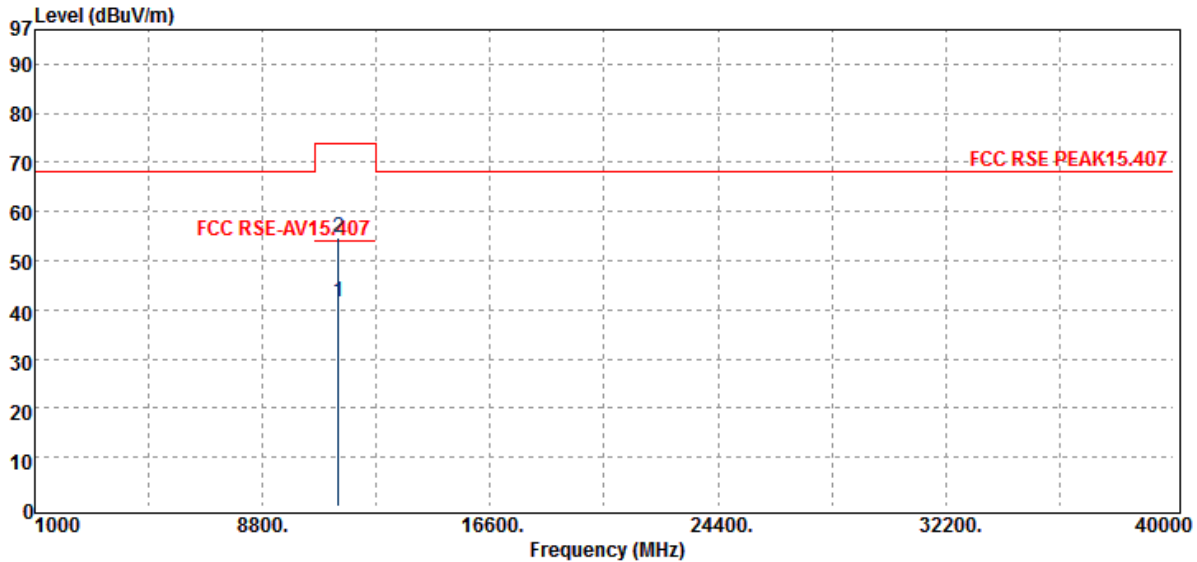
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Operation Band :802.11aB3
 Fundamental Frequency :5700 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11400.00	H	Average	21.08	20.56	41.64	54.00	-12.36
11400.00	H	Peak	34.04	20.56	54.60	74.00	-19.40

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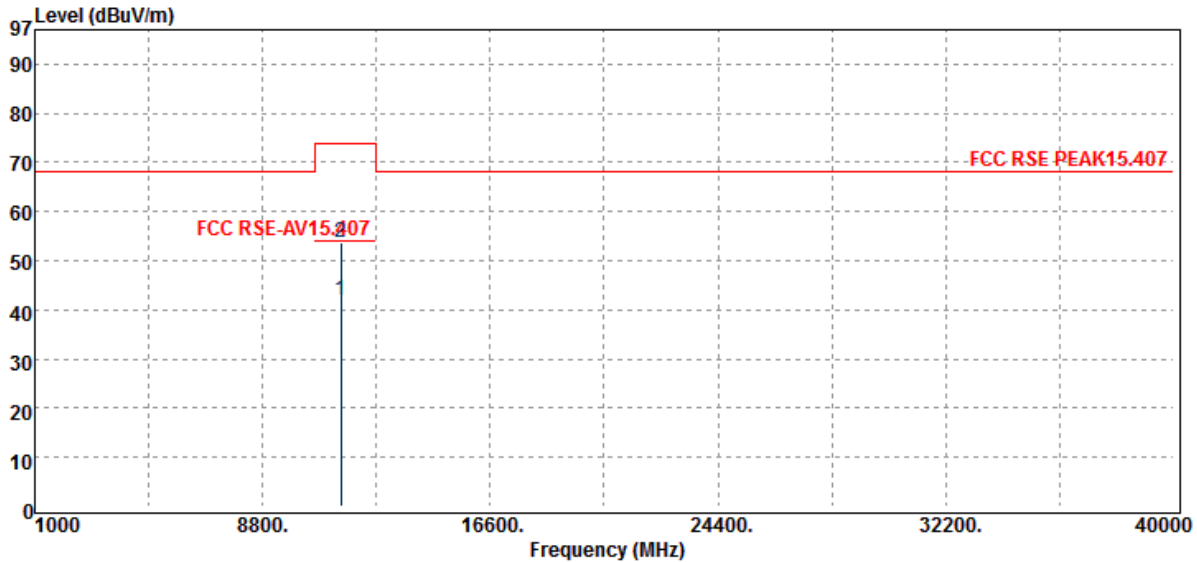
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB4
 Fundamental Frequency :5745 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11490.00	H	Average	21.38	20.42	41.80	54.00	-12.20
11490.00	H	Peak	33.20	20.42	53.62	74.00	-20.38

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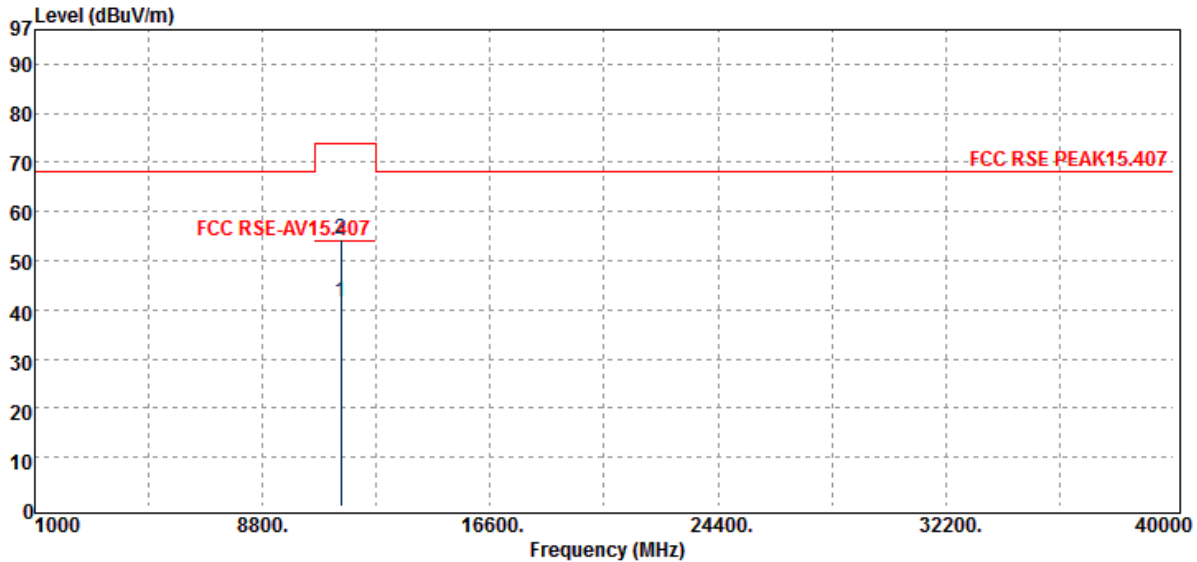
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Operation Band :802.11aB4
 Fundamental Frequency :5745 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11490.00	H	Average	21.29	20.42	41.71	54.00	-12.29
11490.00	H	Peak	33.97	20.42	54.39	74.00	-19.61

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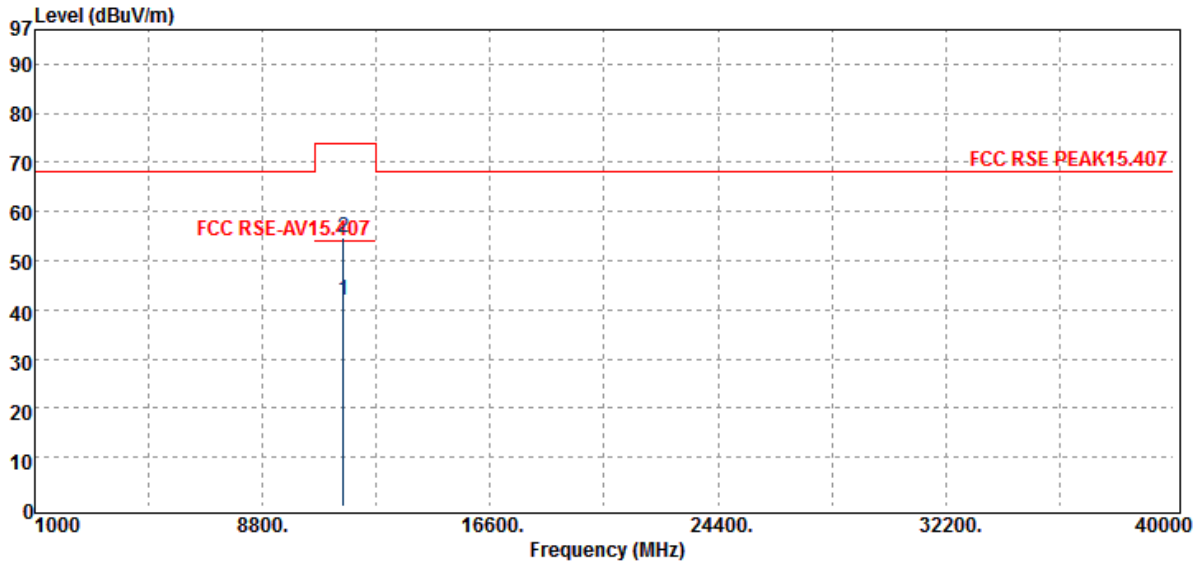
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Member of SGS Group

Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11570.00	H	Average	21.37	20.58	41.95	54.00	-12.05
11570.00	H	Peak	34.05	20.58	54.63	74.00	-19.37

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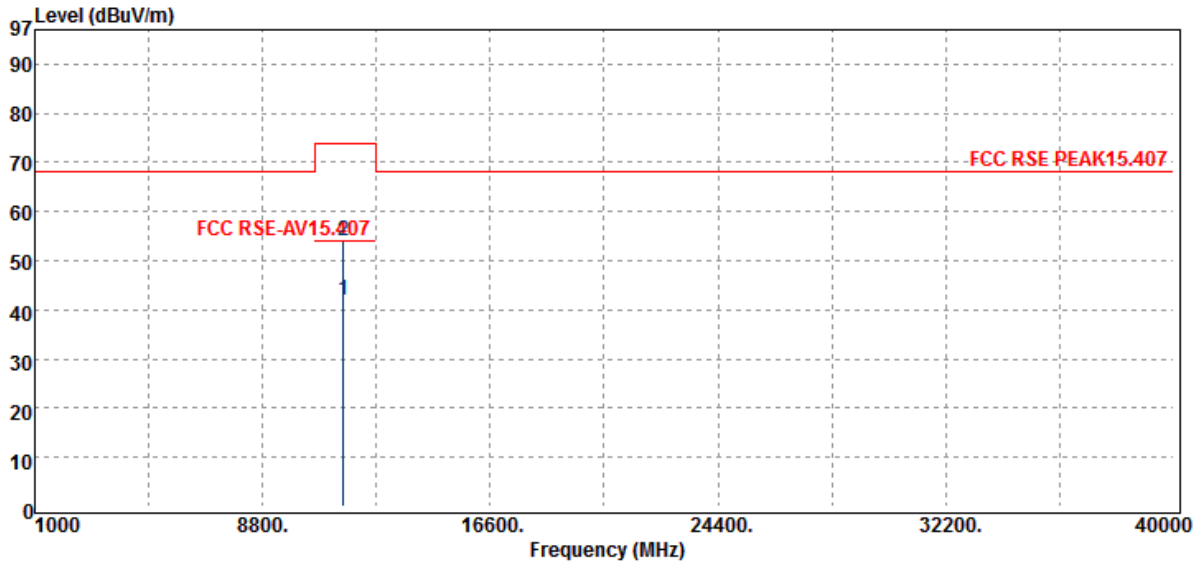
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Operation Band :802.11aB4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11570.00	H	Average	21.38	20.58	41.96	54.00	-12.04
11570.00	H	Peak	33.55	20.58	54.13	74.00	-19.87

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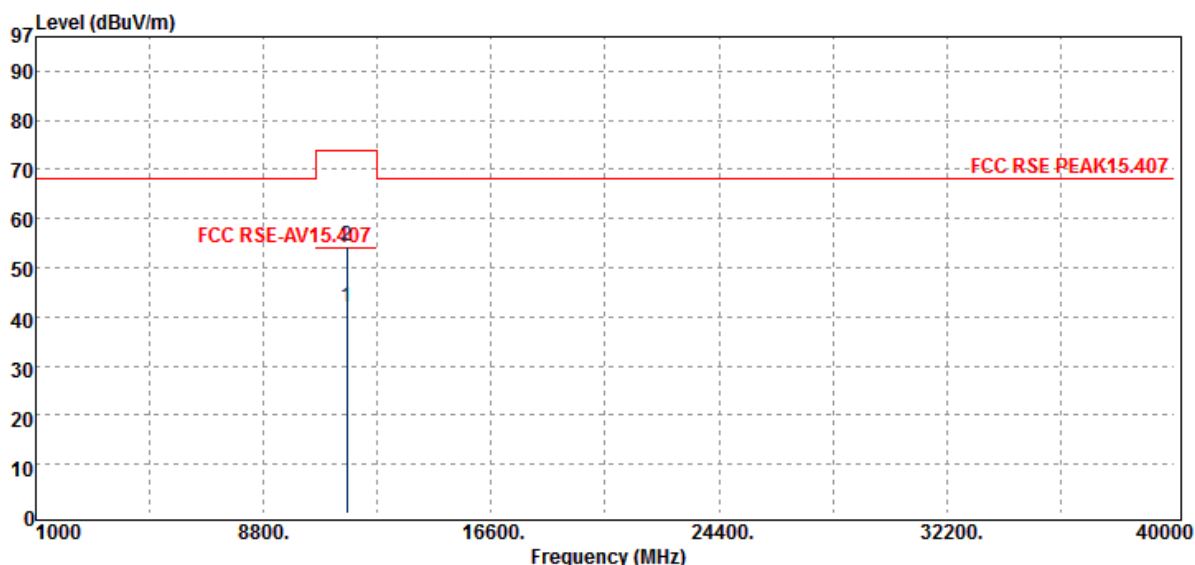
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Operation Band :802.11aB4
Fundamental Frequency :5825 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-02-26
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11650.00	H	Average	21.36	20.43	41.79	54.00	-12.21
11650.00	H	Peak	33.95	20.43	54.38	74.00	-19.62

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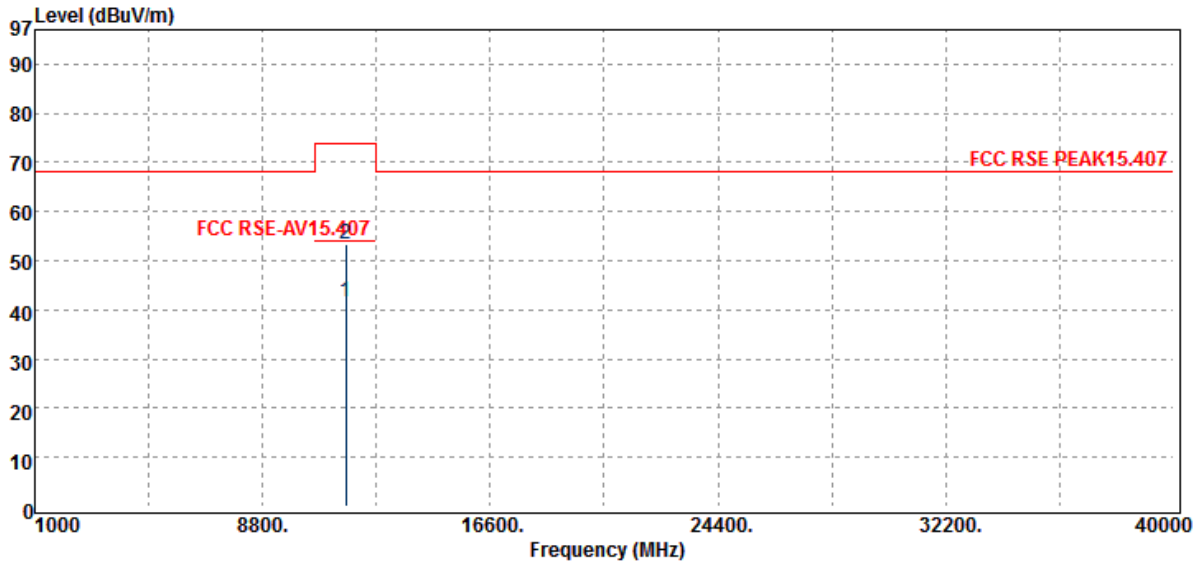
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Operation Band :802.11aB4
Fundamental Frequency :5825 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-02-26
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11650.00	H	Average	21.33	20.43	41.76	54.00	-12.24
11650.00	H	Peak	32.94	20.43	53.37	74.00	-20.63

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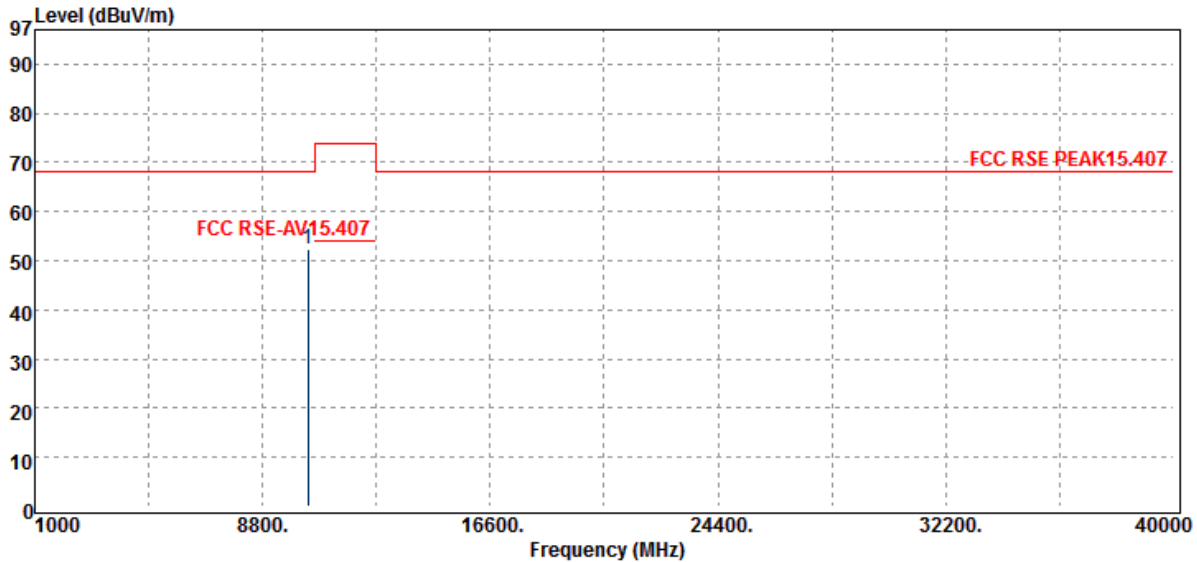
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Operation Band	:802.11n20B1	Test Date	:2018-02-23
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10360.00	H	Peak	34.04	18.29	52.33	68.30	-15.97

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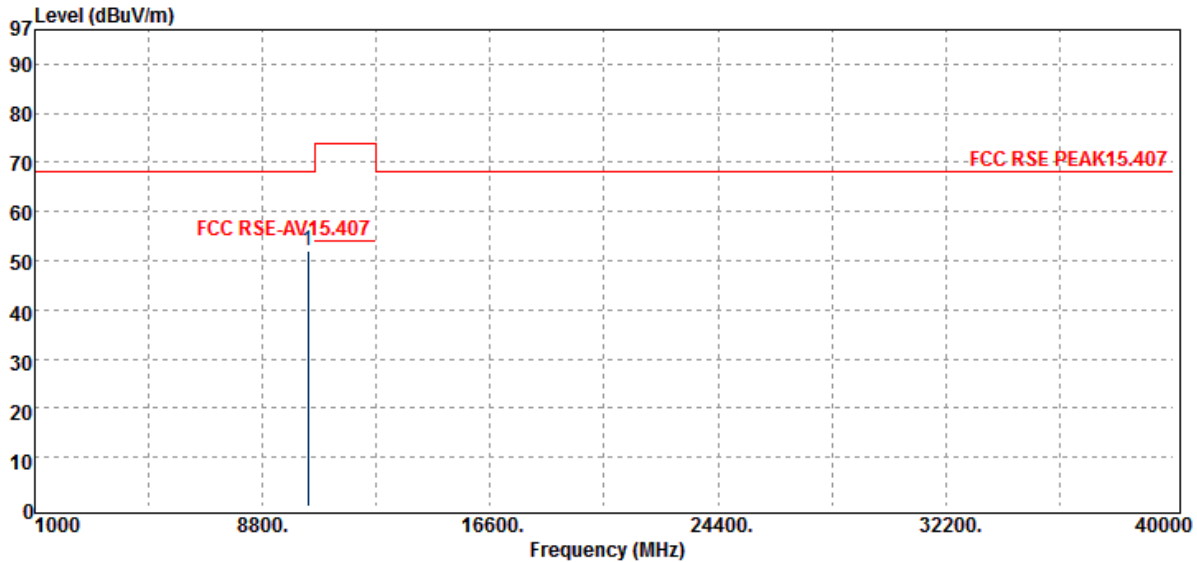
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Operation Band	:802.11n20B1	Test Date	:2018-02-23
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10360.00	H	Peak	33.60	18.29	51.89	68.30	-16.41

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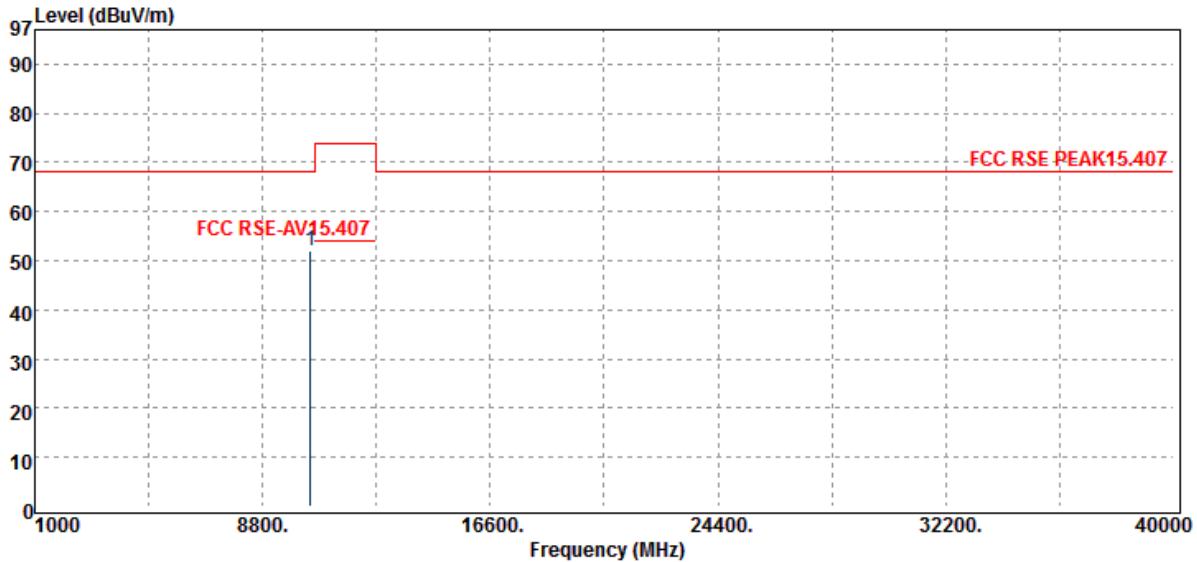
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Operation Band	:802.11n20B1	Test Date	:2018-02-23
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10440.00	H	Peak	33.47	18.69	52.16	68.30	-16.14

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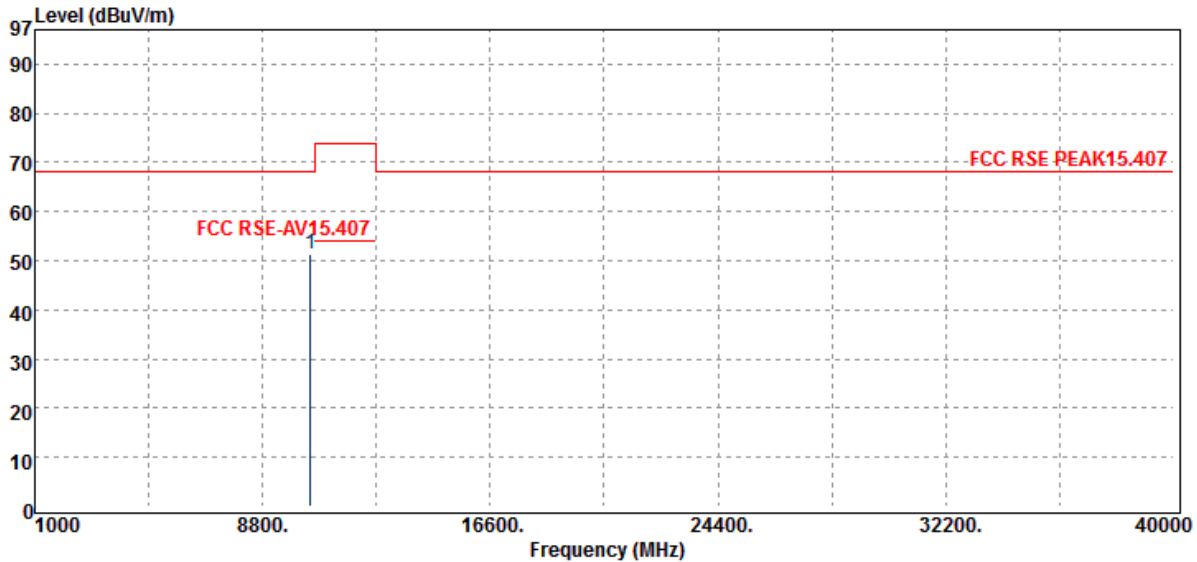
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Operation Band	:802.11n20B1	Test Date	:2018-02-23
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10440.00	H	Peak	32.68	18.69	51.37	68.30	-16.93

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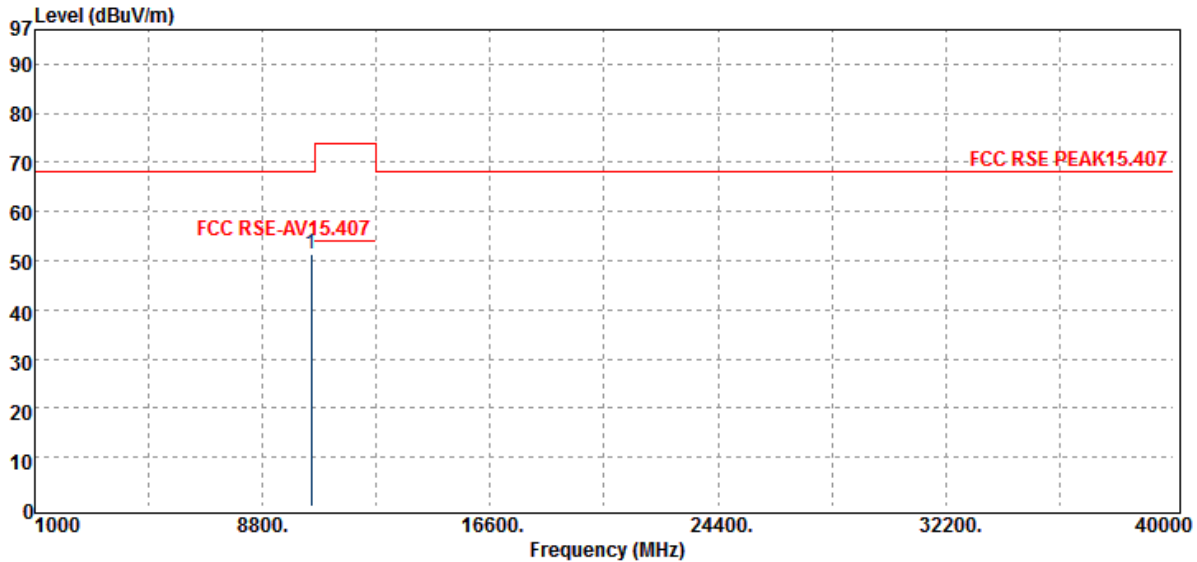
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Operation Band	:802.11n20B1	Test Date	:2018-02-23
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10480.00	H	Peak	33.03	18.30	51.33	68.30	-16.97

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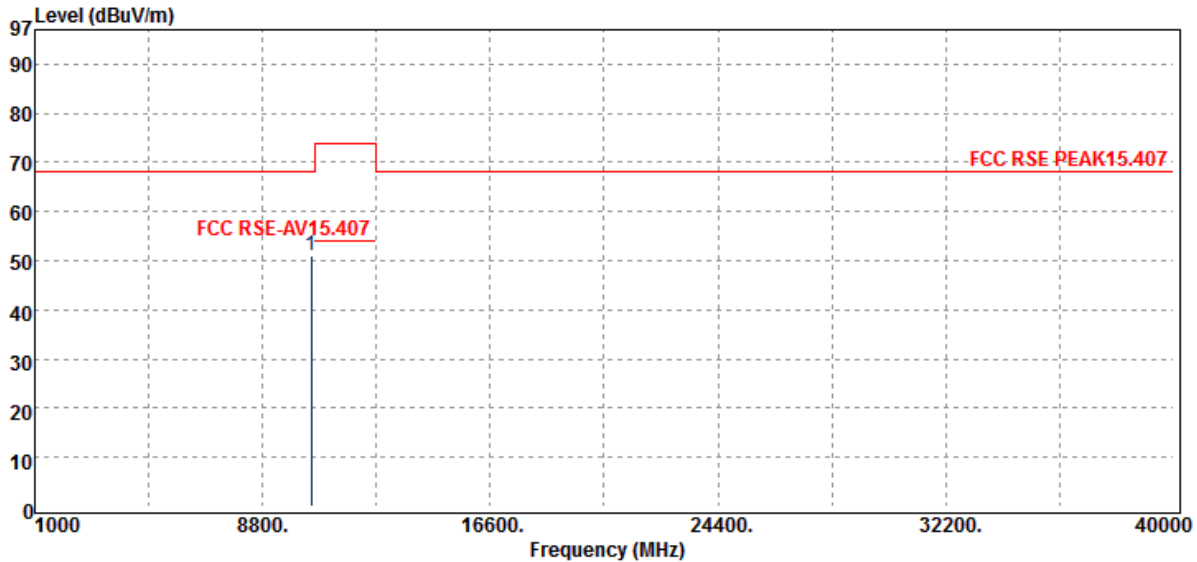
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Operation Band :802.11n20B1
 Fundamental Frequency :5240 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10480.00	H	Peak	32.63	18.30	50.93	68.30	-17.37

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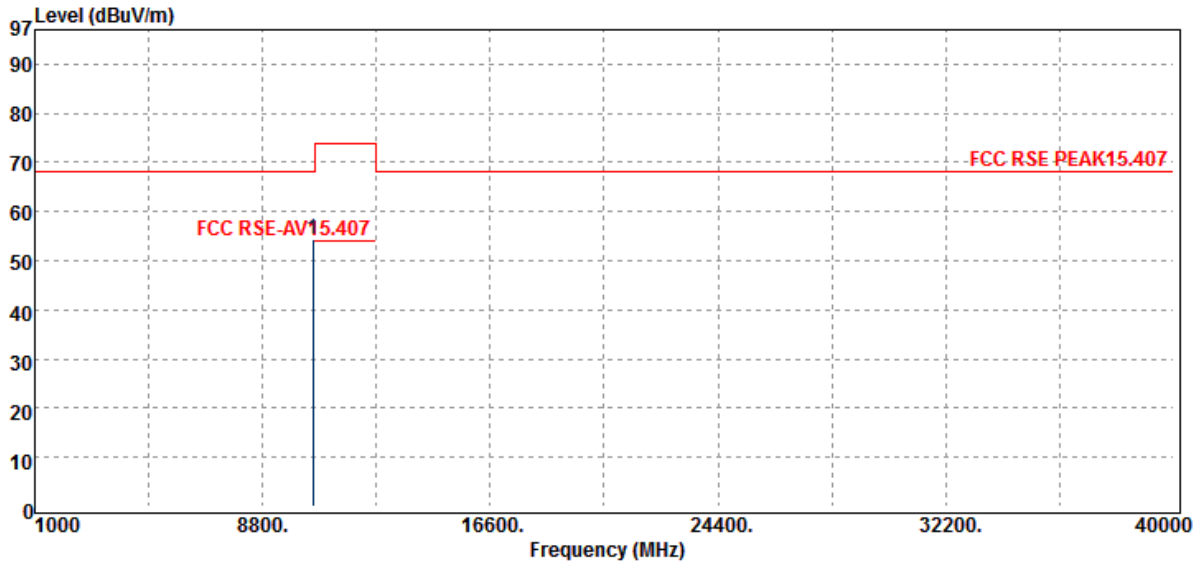
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Operation Band :802.11n20B2
 Fundamental Frequency :5260 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10520.00	H	Peak	34.98	19.38	54.36	68.30	-13.94

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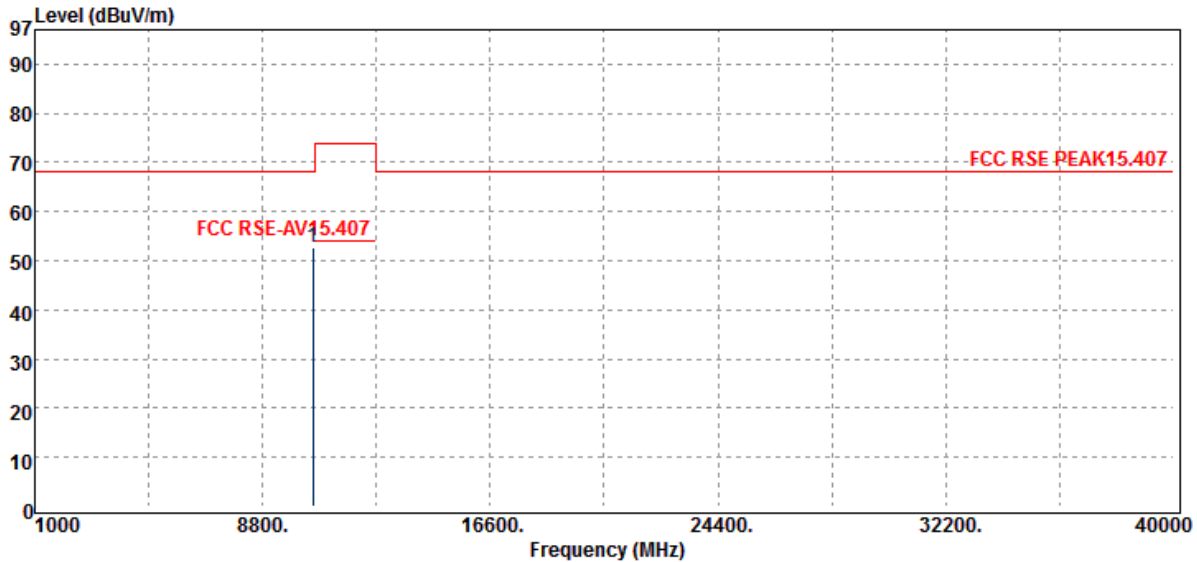
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Operation Band	:802.11n20B2	Test Date	:2018-02-23
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10520.00	H	Peak	33.25	19.38	52.63	68.30	-15.67

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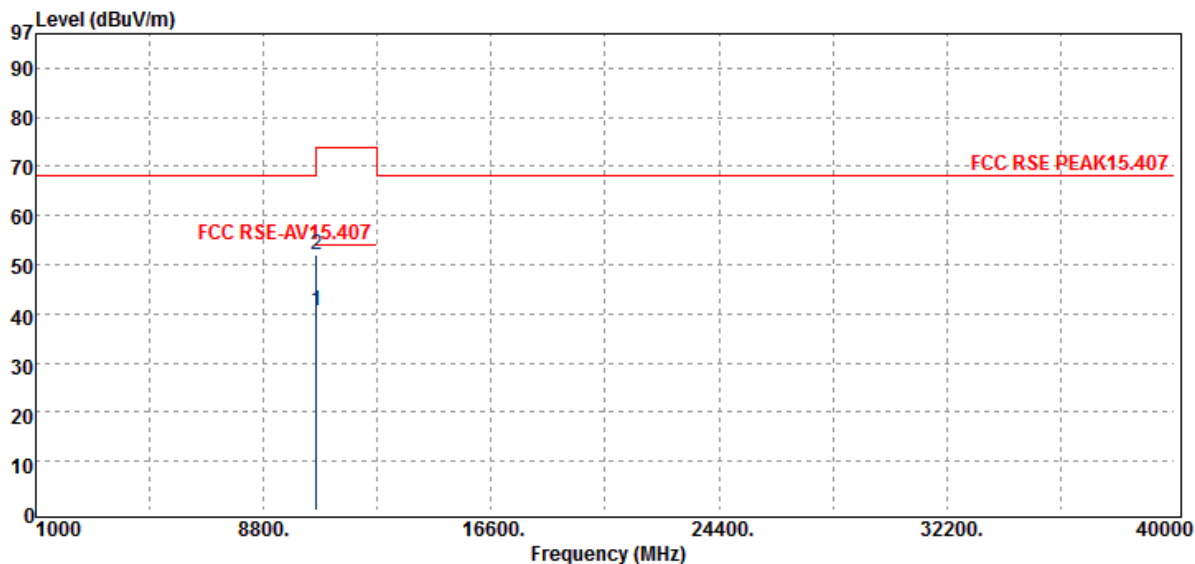
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Operation Band :802.11n20B2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10600.00	H	Average	21.75	18.91	40.66	54.00	-13.34
10600.00	H	Peak	33.09	18.91	52.00	74.00	-22.00

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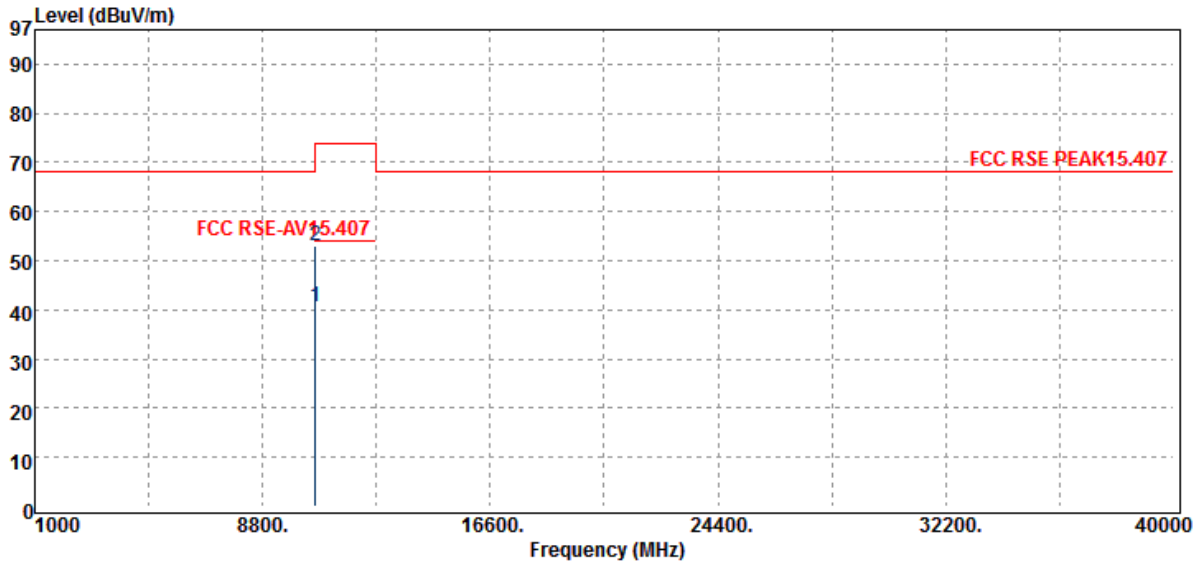
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Operation Band :802.11n20B2
 Fundamental Frequency :5300 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10600.00	H	Average	21.72	18.91	40.63	54.00	-13.37
10600.00	H	Peak	34.21	18.91	53.12	74.00	-20.88

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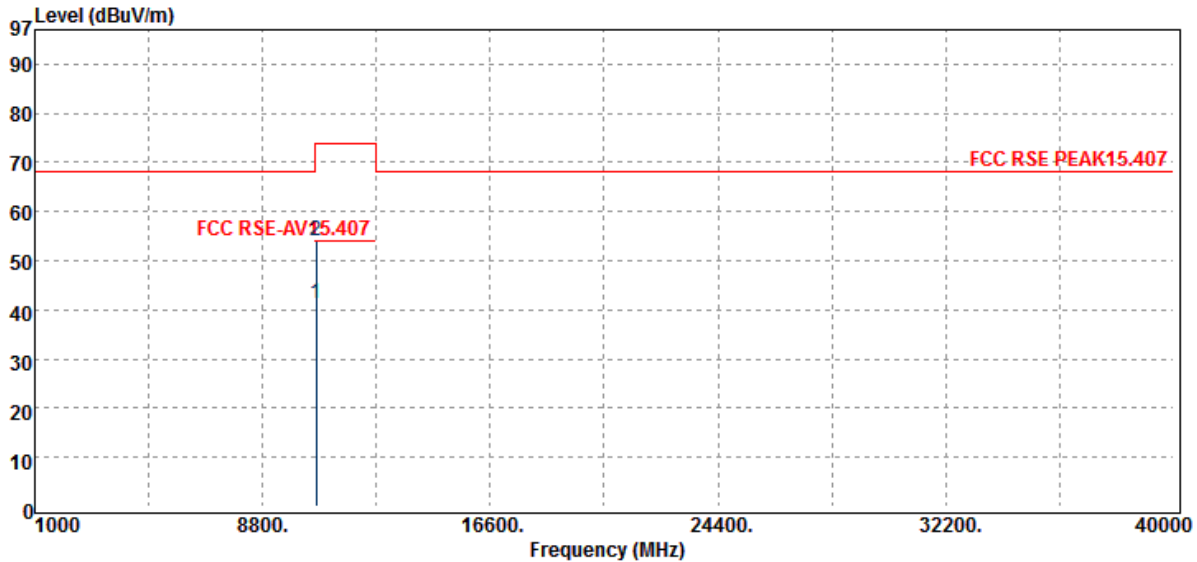
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Member of SGS Group

Operation Band :802.11n20B2
 Fundamental Frequency :5320 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10640.00	H	Average	22.09	19.19	41.28	54.00	-12.72
10640.00	H	Peak	34.89	19.19	54.08	74.00	-19.92

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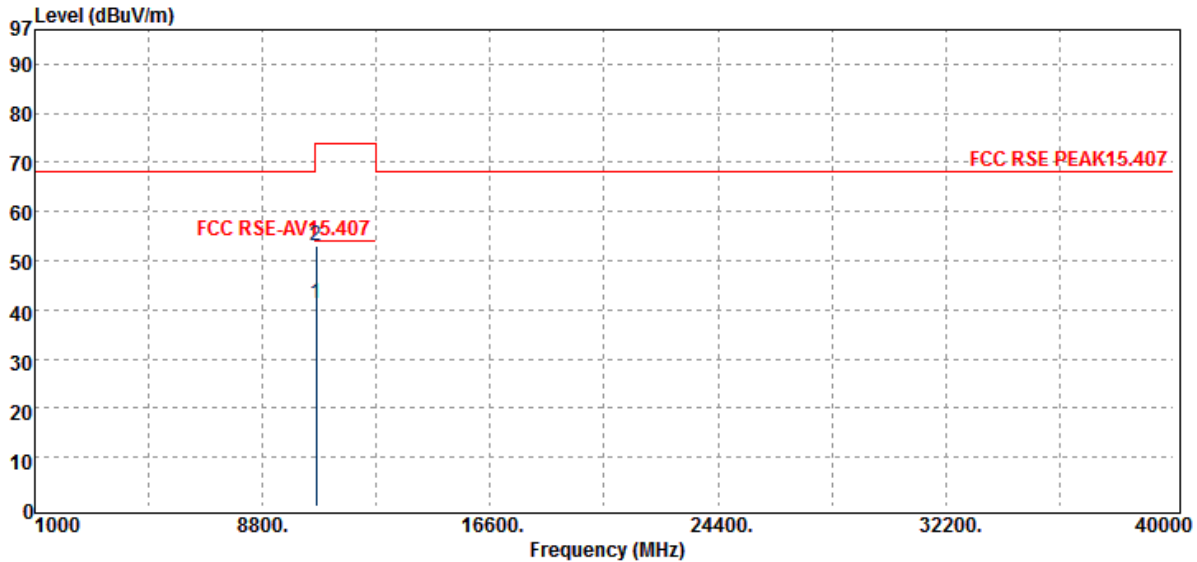
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Operation Band :802.11n20B2
 Fundamental Frequency :5320 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10640.00	H	Average	22.12	19.19	41.31	54.00	-12.69
10640.00	H	Peak	34.01	19.19	53.20	74.00	-20.80

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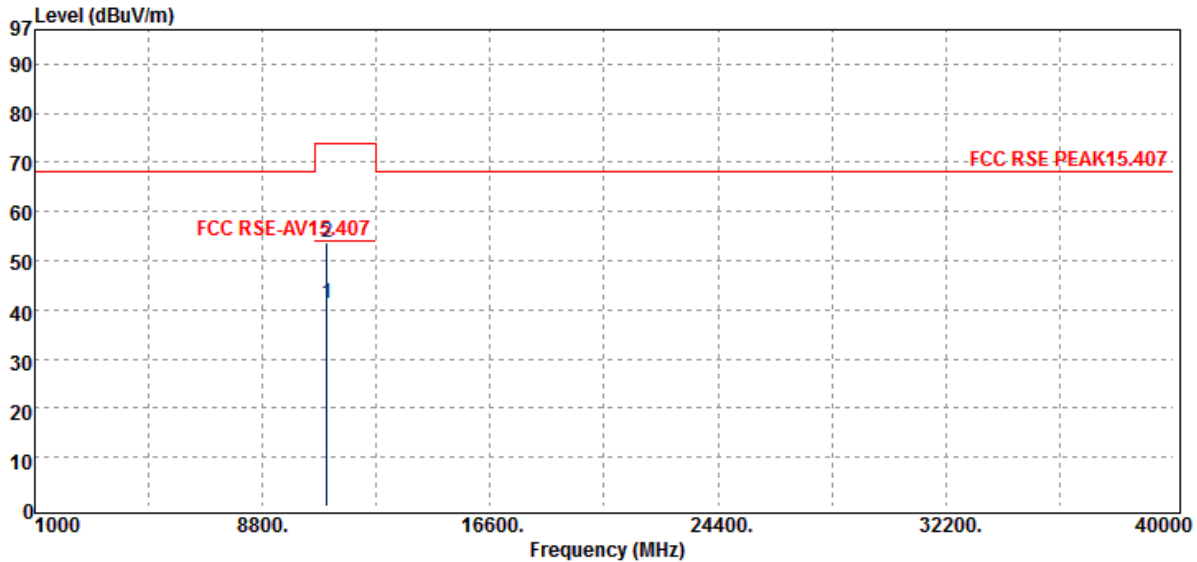
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Member of SGS Group

Operation Band :802.11n20B3
 Fundamental Frequency :5500 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11000.00	H	Average	21.21	20.16	41.37	54.00	-12.63
11000.00	H	Peak	33.69	20.16	53.85	74.00	-20.15

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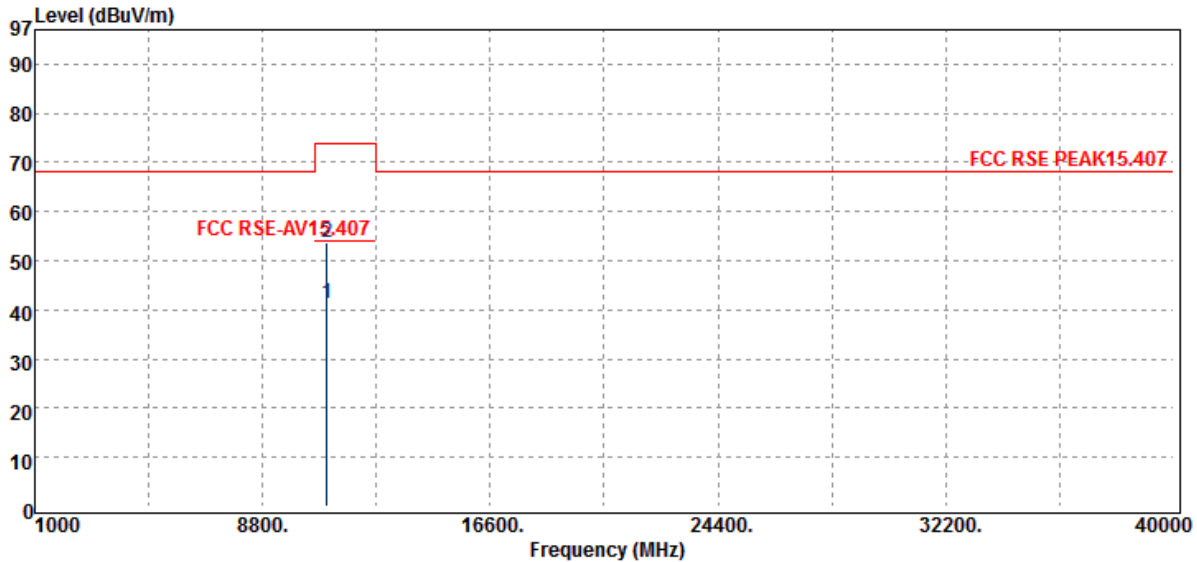
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Operation Band :802.11n20B3
Fundamental Frequency :5500 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11000.00	H	Average	21.19	20.16	41.35	54.00	-12.65
11000.00	H	Peak	33.53	20.16	53.69	74.00	-20.31

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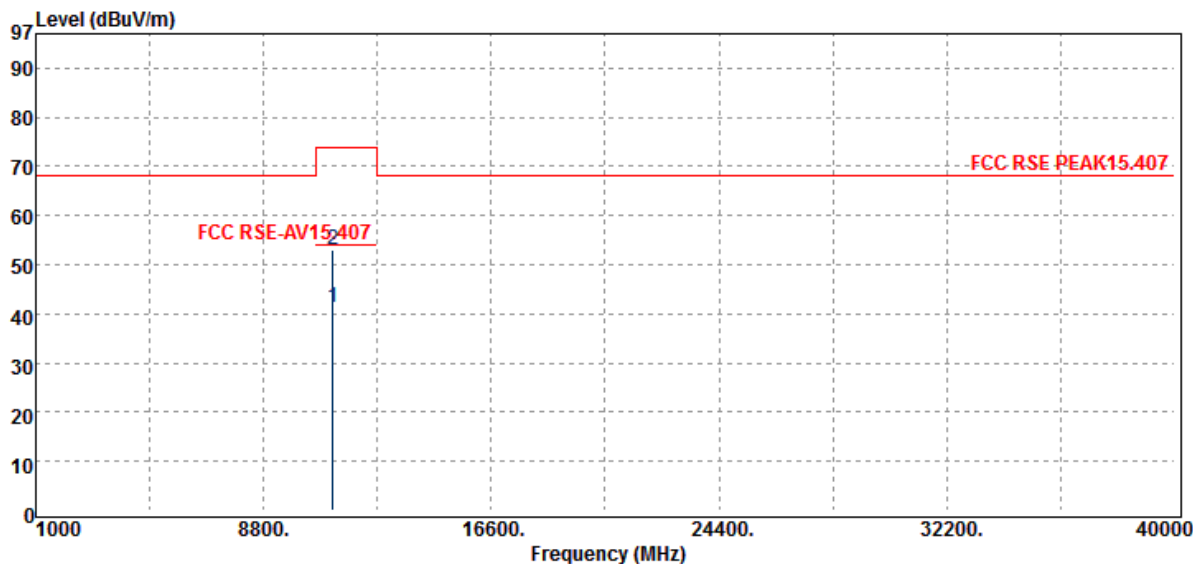
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Operation Band :802.11n20B3
 Fundamental Frequency :5580 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11160.00	H	Average	20.96	20.44	41.40	54.00	-12.60
11160.00	H	Peak	32.63	20.44	53.07	74.00	-20.93

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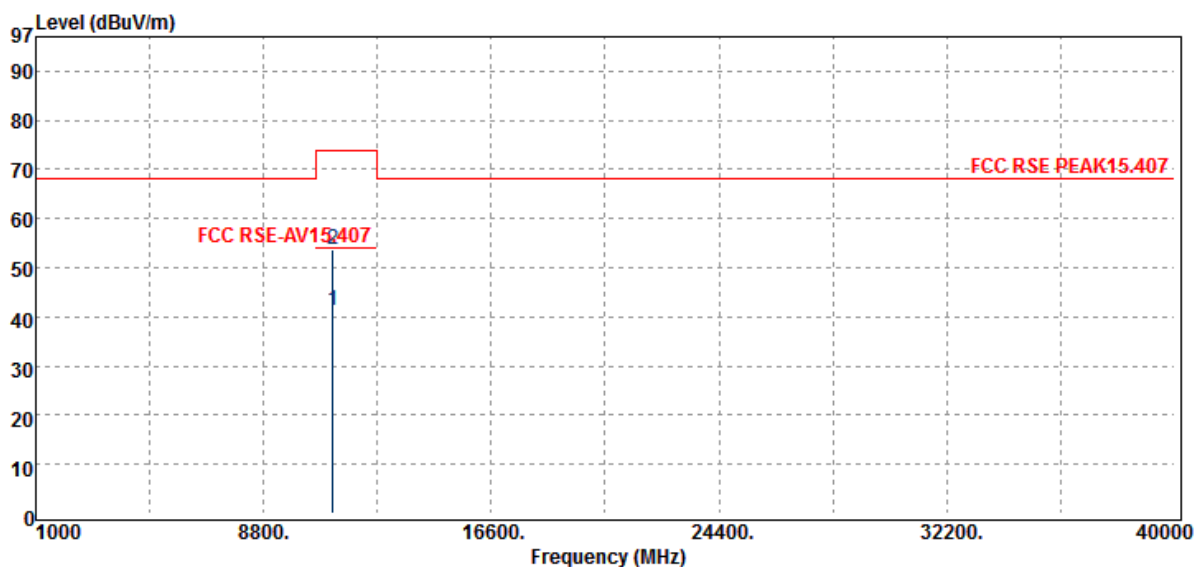
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Operation Band	:802.11n20B3	Test Date	:2018-02-23
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11160.00	H	Average	20.99	20.44	41.43	54.00	-12.57
11160.00	H	Peak	33.39	20.44	53.83	74.00	-20.17

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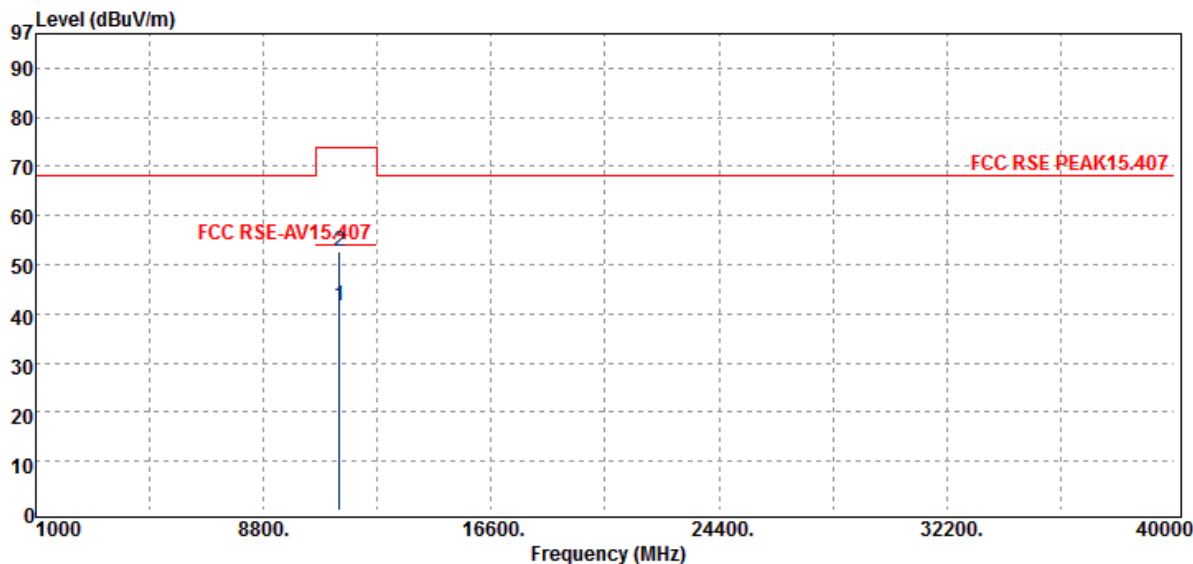
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Member of SGS Group

Operation Band :802.11n20B3
Fundamental Frequency :5700 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11400.00	H	Average	21.12	20.56	41.68	54.00	-12.32
11400.00	H	Peak	32.07	20.56	52.63	74.00	-21.37

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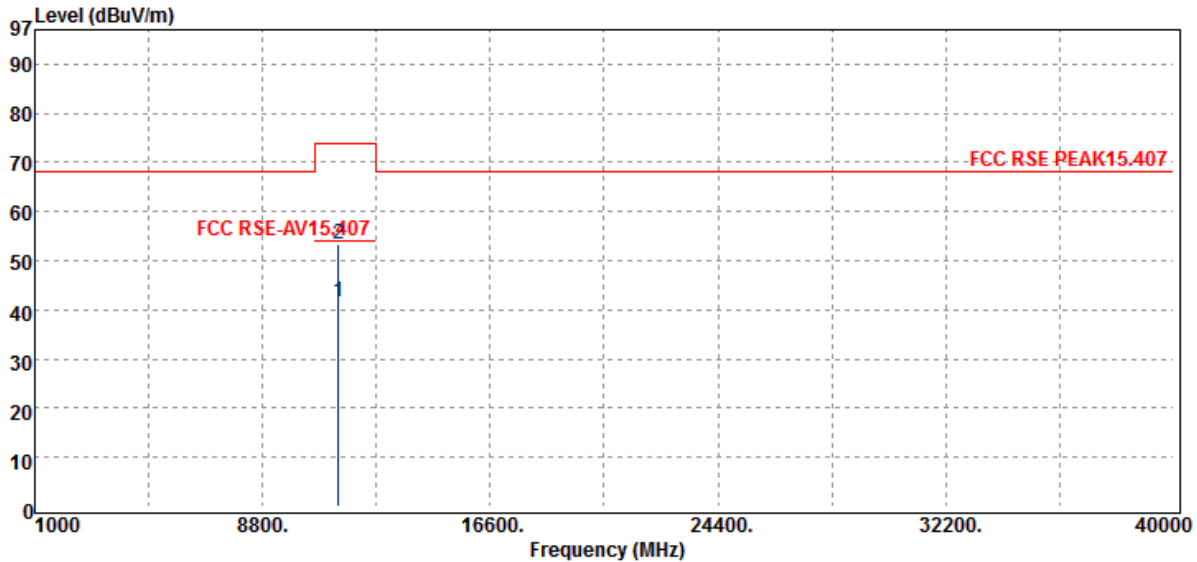
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Operation Band :802.11n20B3
 Fundamental Frequency :5700 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11400.00	H	Average	21.17	20.56	41.73	54.00	-12.27
11400.00	H	Peak	32.84	20.56	53.40	74.00	-20.60

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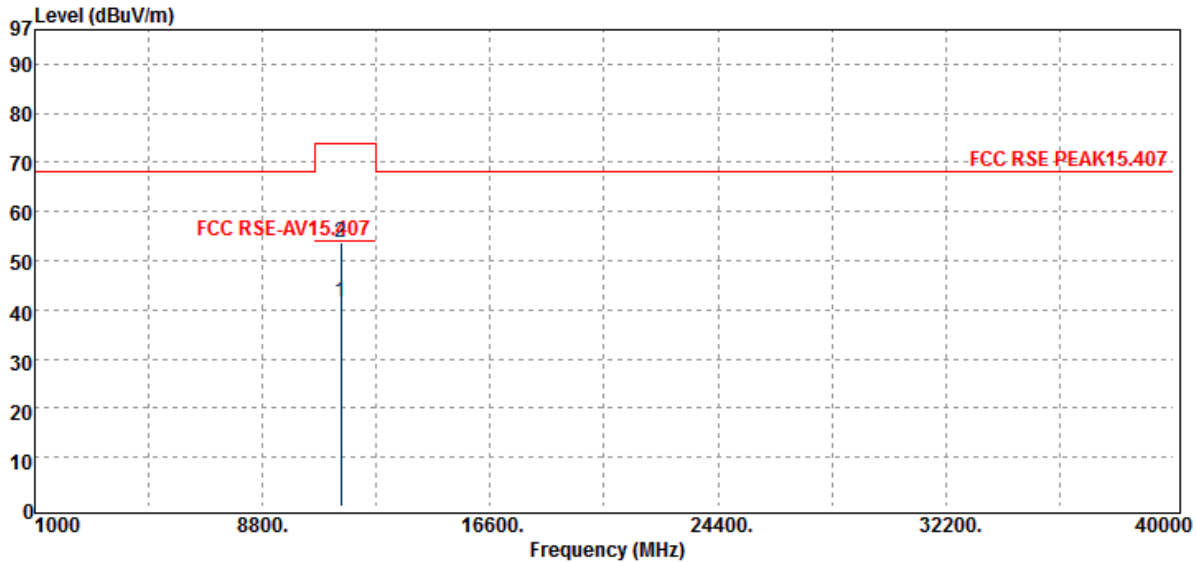
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Member of SGS Group

Operation Band :802.11n20B4
 Fundamental Frequency :5745 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11490.00	H	Average	21.36	20.42	41.78	54.00	-12.22
11490.00	H	Peak	33.40	20.42	53.82	74.00	-20.18

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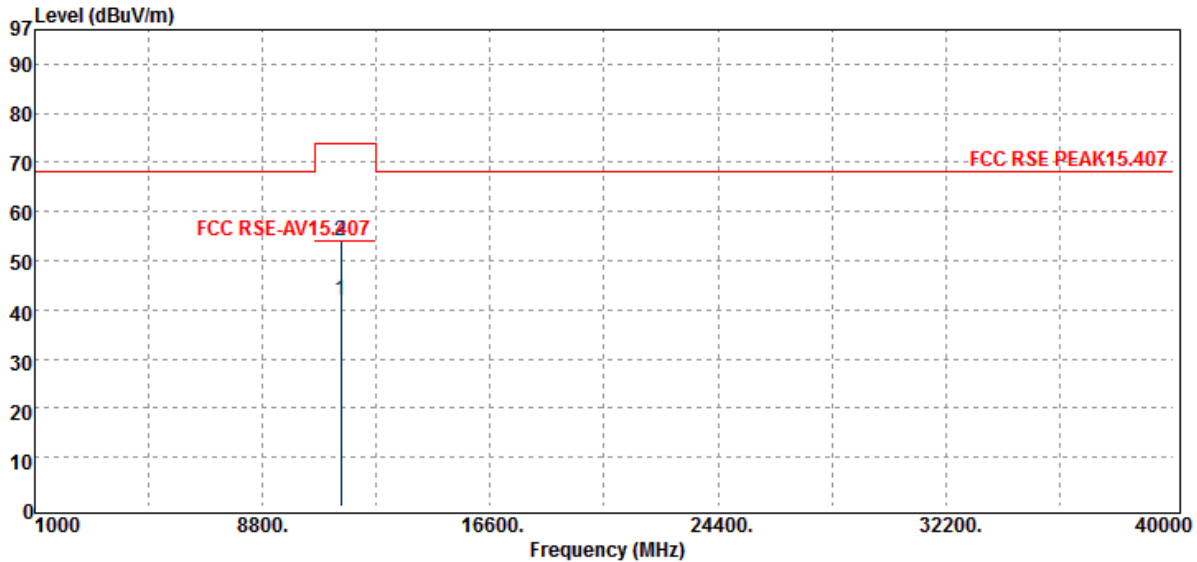
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Operation Band :802.11n20B4
Fundamental Frequency :5745 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11490.00	H	Average	21.39	20.42	41.81	54.00	-12.19
11490.00	H	Peak	33.70	20.42	54.12	74.00	-19.88

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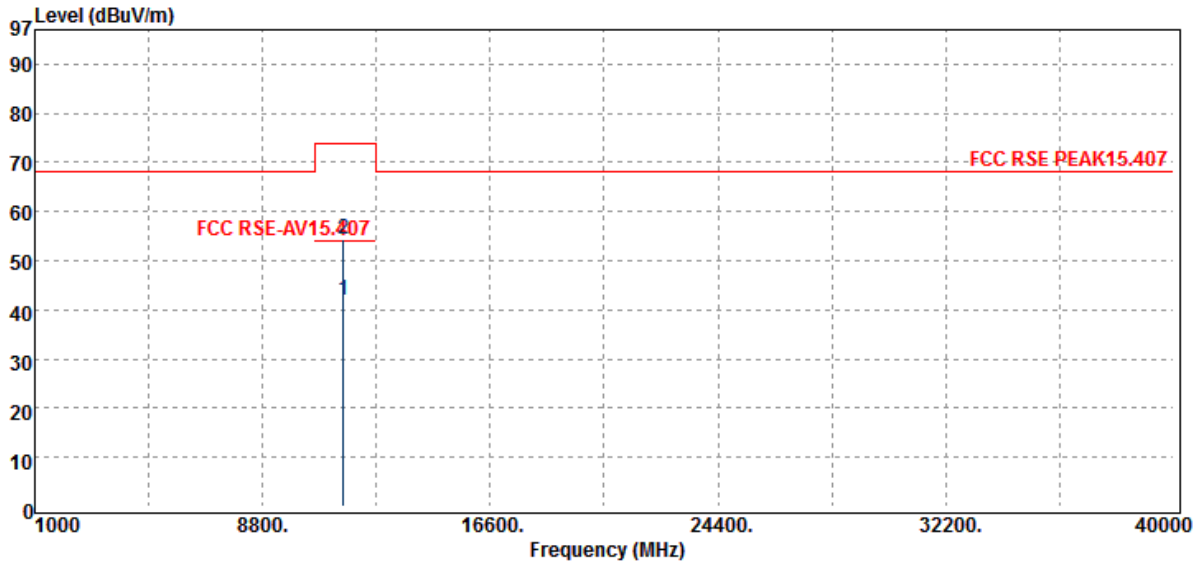
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Operation Band :802.11n20B4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11570.00	H	Average	21.36	20.58	41.94	54.00	-12.06
11570.00	H	Peak	33.64	20.58	54.22	74.00	-19.78

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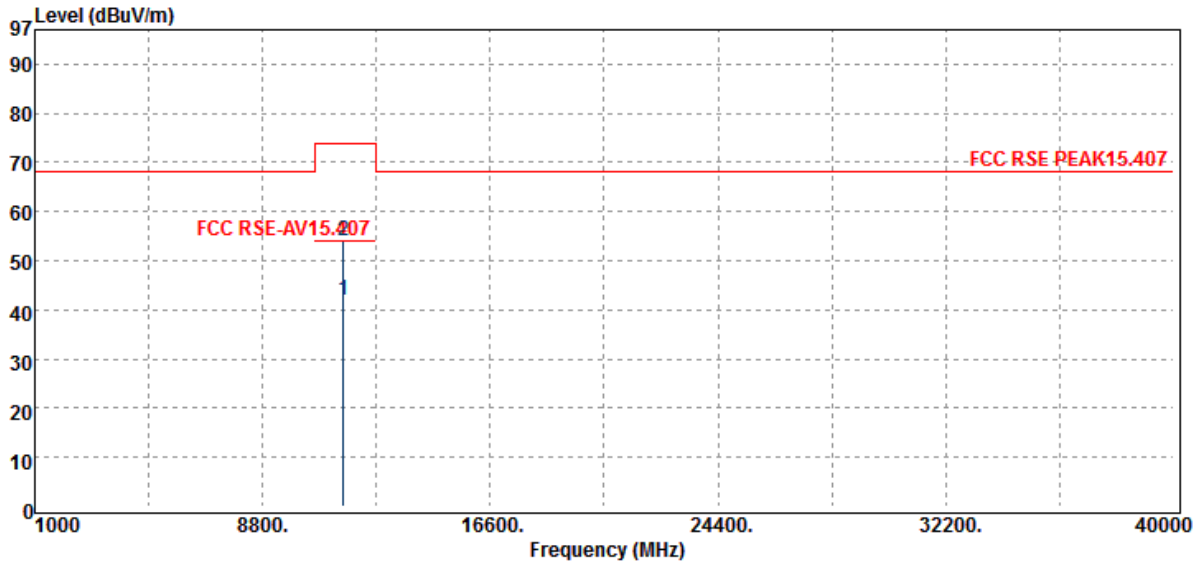
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Operation Band :802.11n20B4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11570.00	H	Average	21.34	20.58	41.92	54.00	-12.08
11570.00	H	Peak	33.37	20.58	53.95	74.00	-20.05

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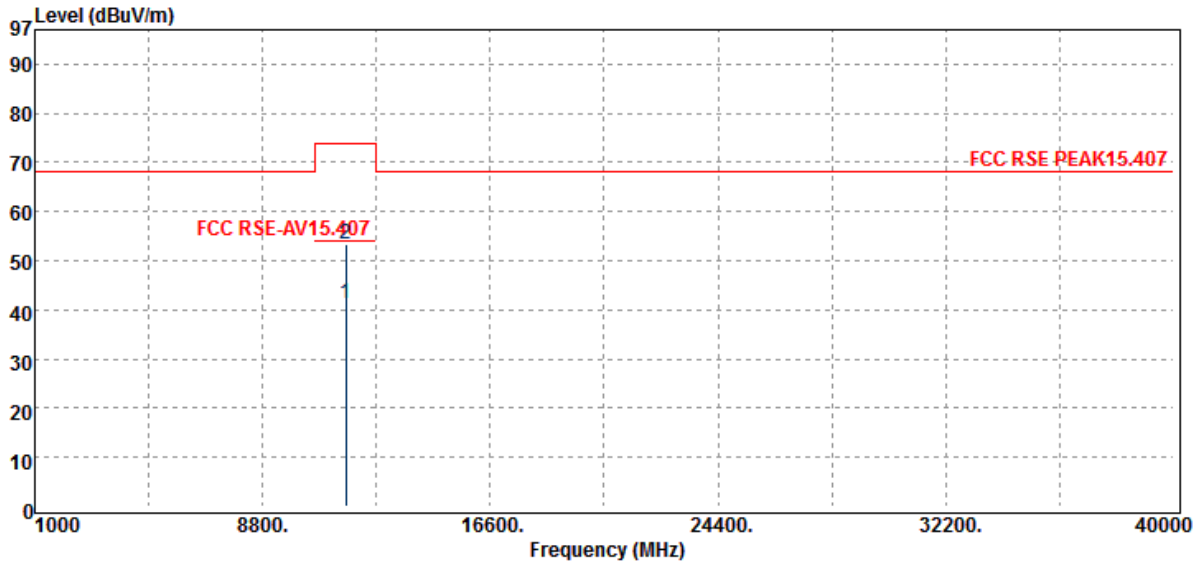
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Member of SGS Group

Operation Band :802.11n20B4
 Fundamental Frequency :5825 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11650.00	H	Average	20.76	20.43	41.19	54.00	-12.81
11650.00	H	Peak	32.87	20.43	53.30	74.00	-20.70

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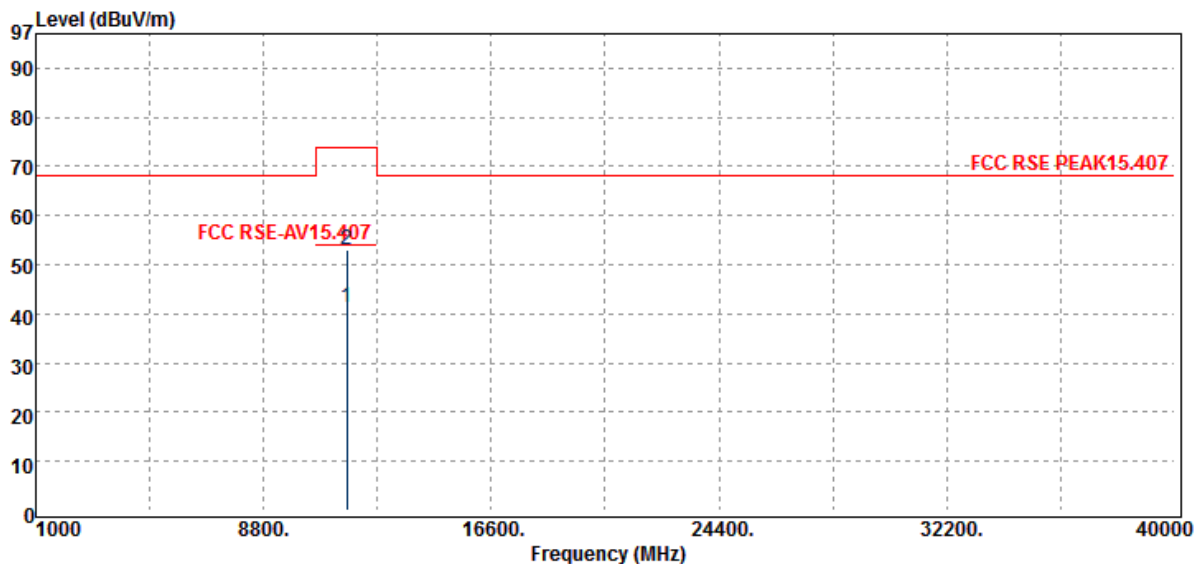
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Operation Band :802.11n20B4
Fundamental Frequency :5825 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11650.00	H	Average	20.75	20.43	41.18	54.00	-12.82
11650.00	H	Peak	32.77	20.43	53.20	74.00	-20.80

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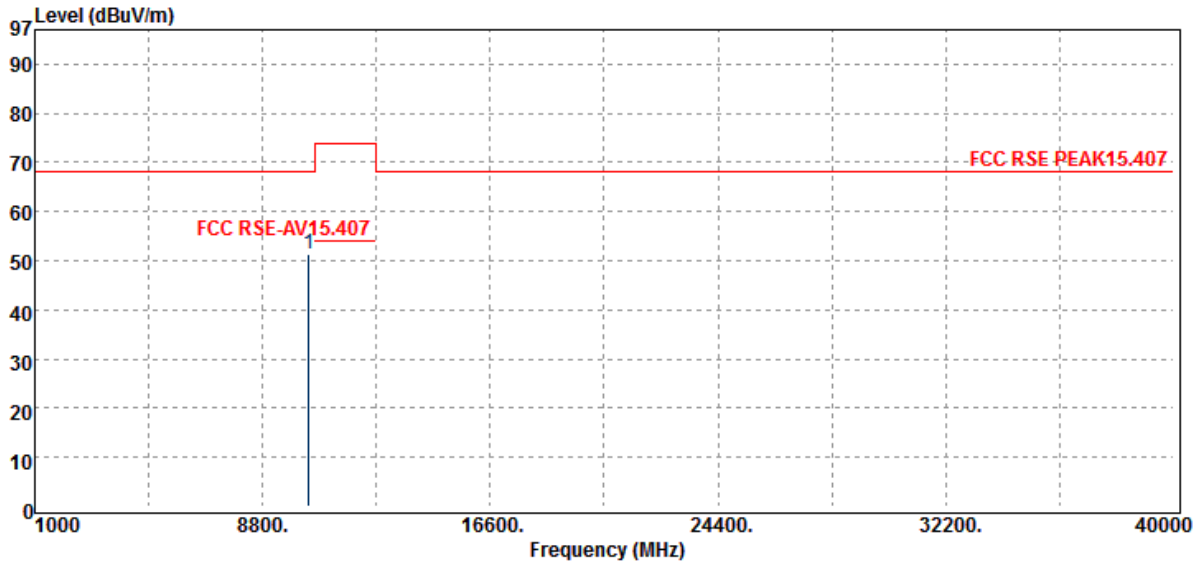
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Operation Band	:802.11n40B1	Test Date	:2018-02-23
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10380.00	H	Peak	33.31	18.12	51.43	68.30	-16.87

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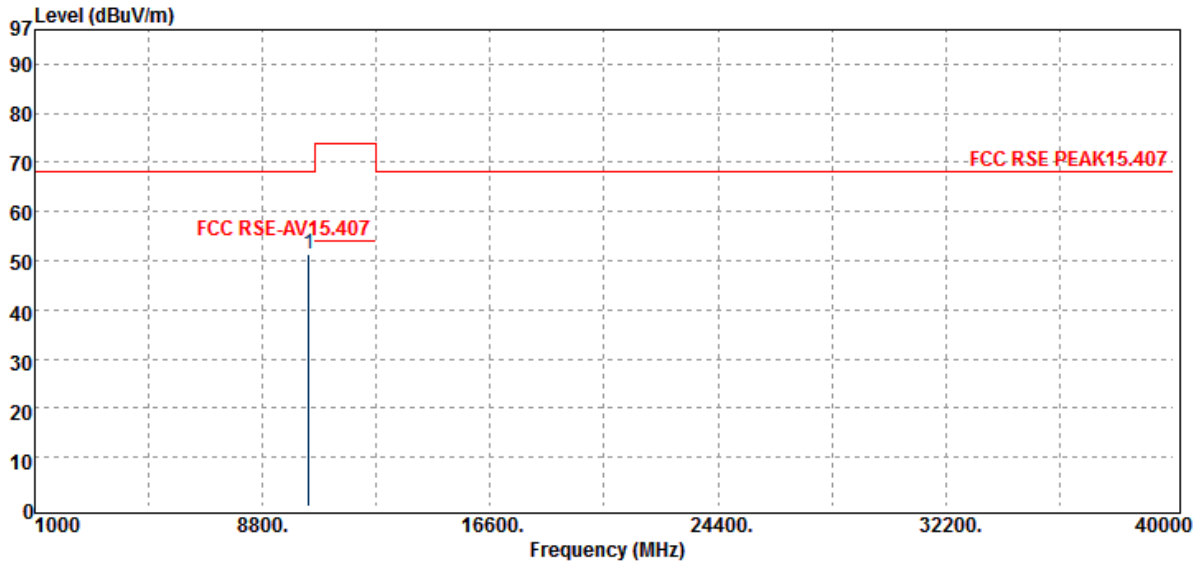
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Operation Band	:802.11n40B1	Test Date	:2018-02-23
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10380.00	H	Peak	33.21	18.12	51.33	68.30	-16.97

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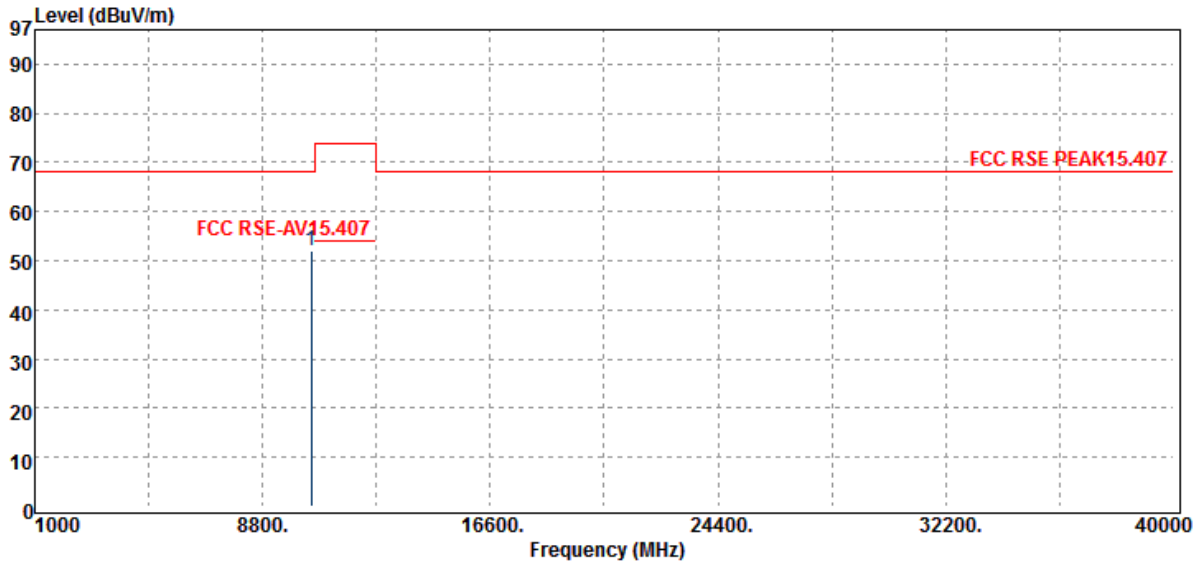
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Operation Band	:802.11n40B1	Test Date	:2018-02-23
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10460.00	H	Peak	33.34	18.55	51.89	68.30	-16.41

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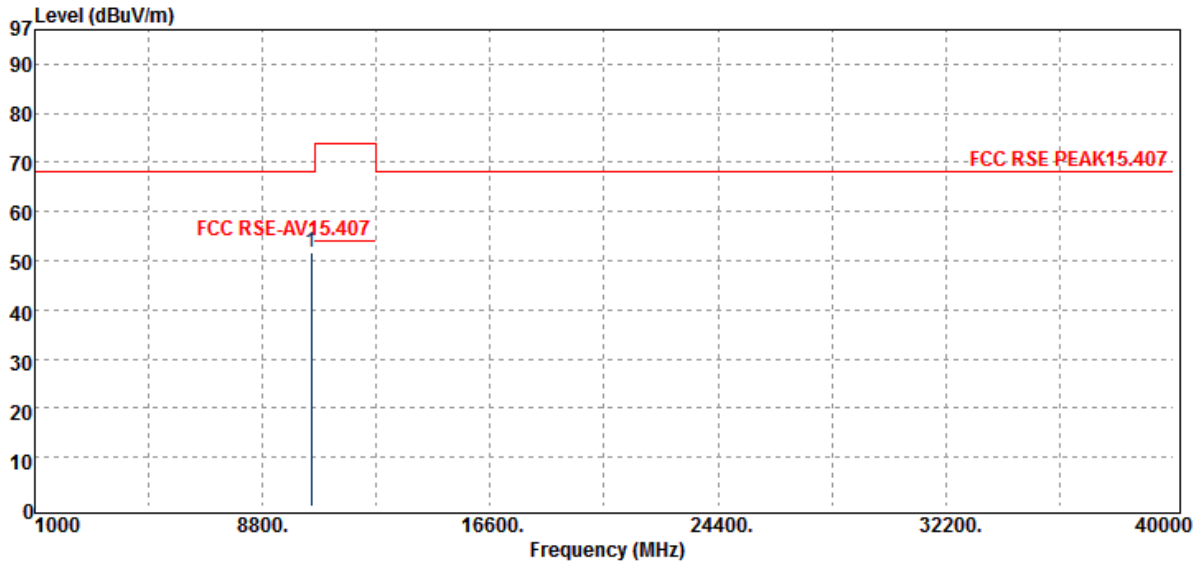
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Operation Band :802.11n40B1
Fundamental Frequency :5230 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10460.00	H	Peak	33.04	18.55	51.59	68.30	-16.71

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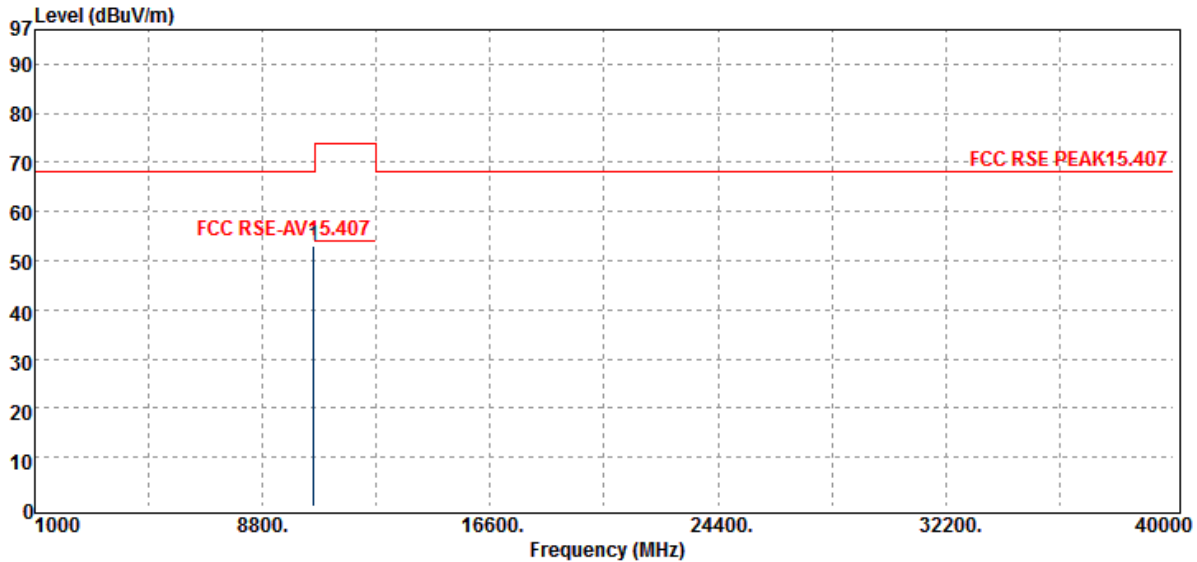
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Operation Band	:802.11n40B2	Test Date	:2018-02-23
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10540.00	H	Peak	33.90	19.17	53.07	68.30	-15.23

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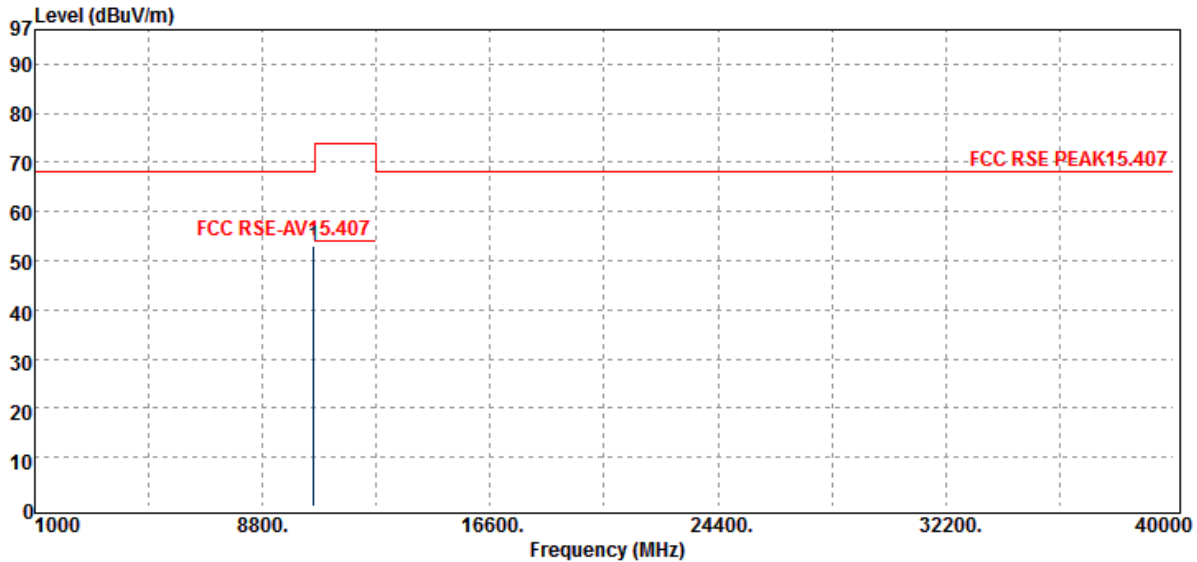
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Operation Band :802.11n40B2
 Fundamental Frequency :5270 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10540.00	H	Peak	33.72	19.17	52.89	68.30	-15.41

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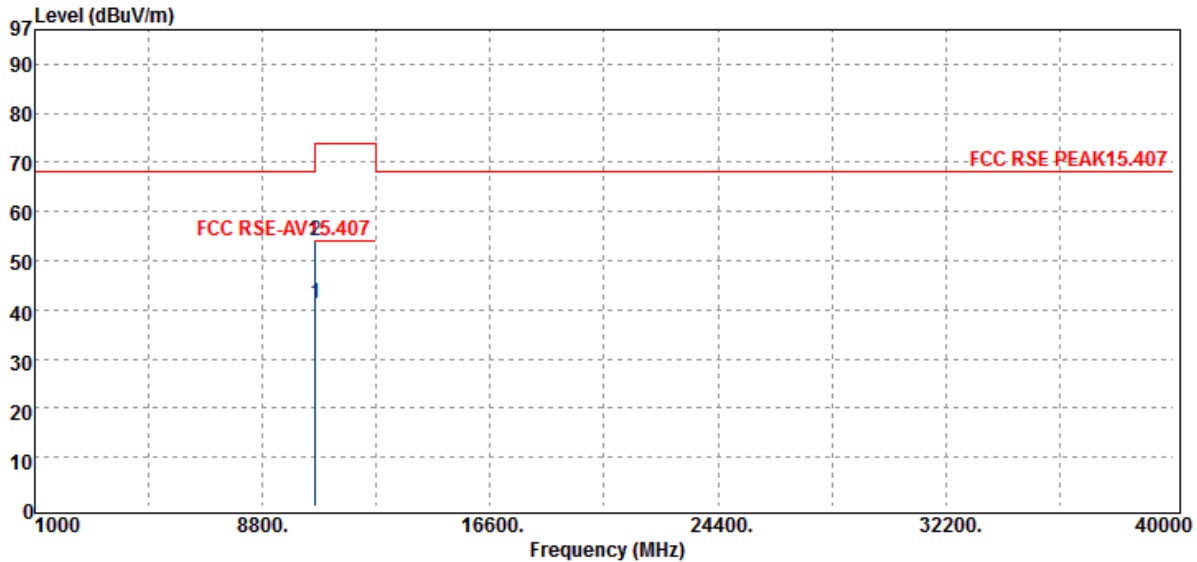
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Operation Band	:802.11n40B2	Test Date	:2018-02-23
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10620.00	H	Average	22.05	19.11	41.16	54.00	-12.84
10620.00	H	Peak	34.83	19.11	53.94	74.00	-20.06

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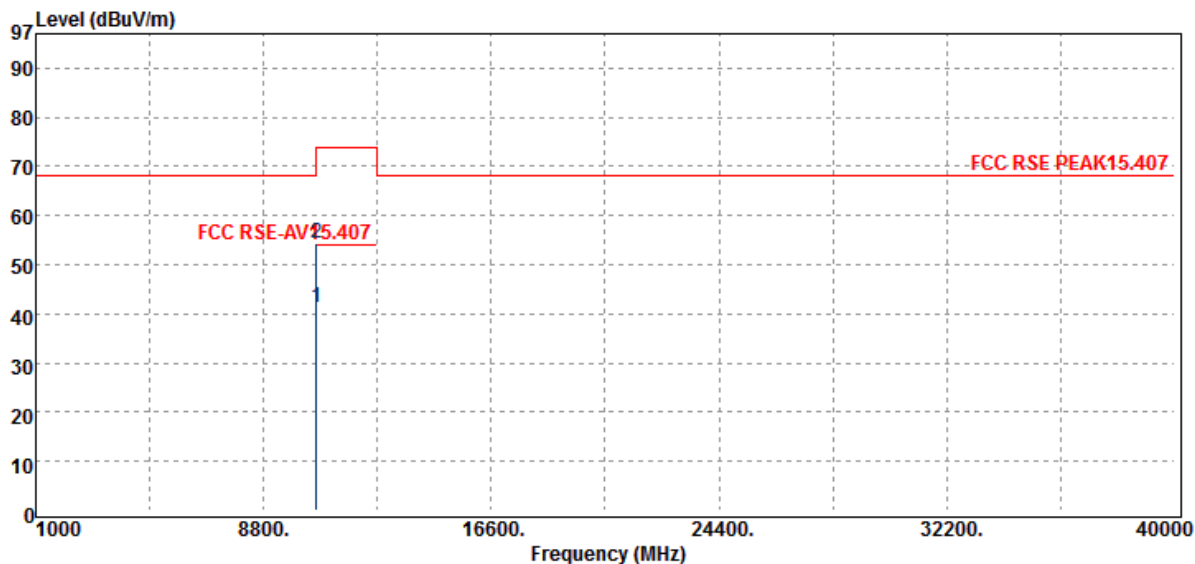
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Operation Band :802.11n40B2
Fundamental Frequency :5310 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10620.00	H	Average	22.01	19.11	41.12	54.00	-12.88
10620.00	H	Peak	35.29	19.11	54.40	74.00	-19.60

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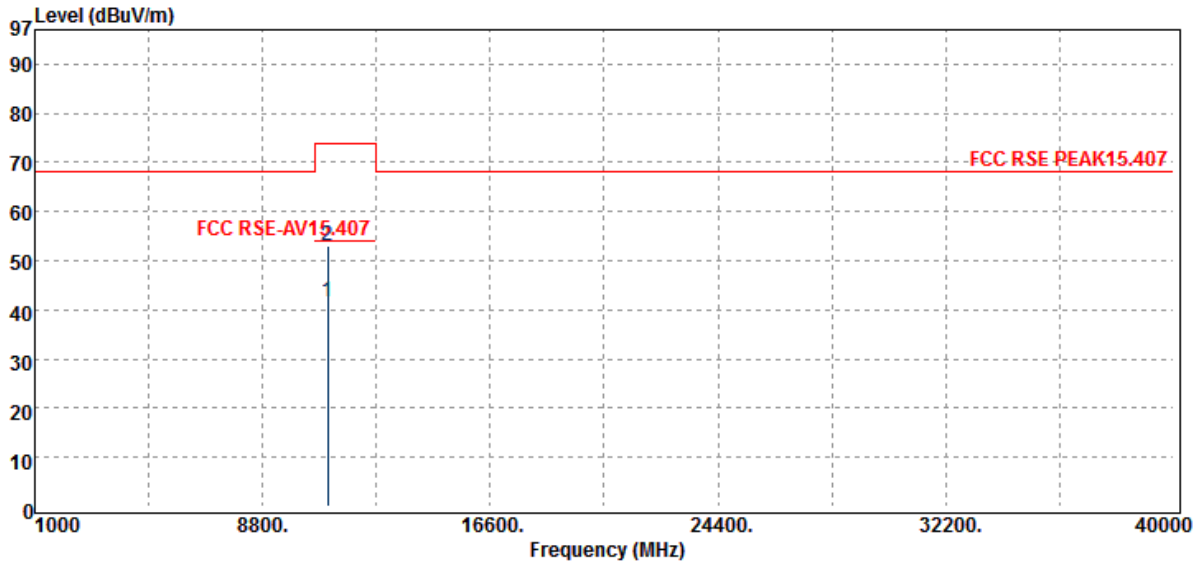
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n40B3
Fundamental Frequency :5510 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11020.00	H	Average	21.33	20.16	41.49	54.00	-12.51
11020.00	H	Peak	32.97	20.16	53.13	74.00	-20.87

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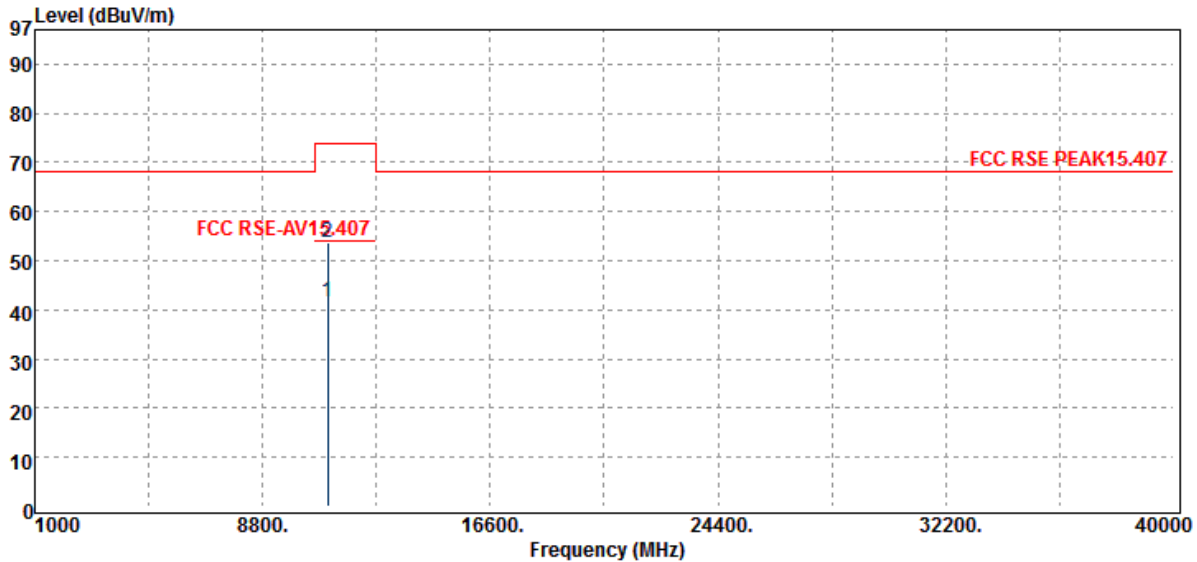
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Operation Band :802.11n40B3
 Fundamental Frequency :5510 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11020.00	H	Average	21.33	20.16	41.49	54.00	-12.51
11020.00	H	Peak	33.59	20.16	53.75	74.00	-20.25

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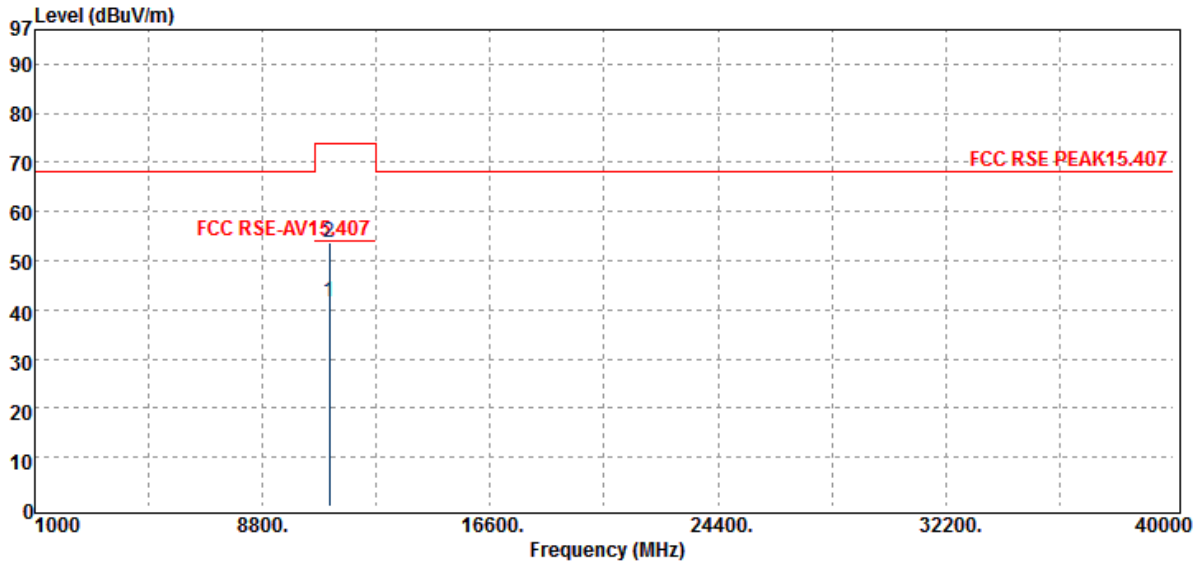
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Operation Band	:802.11n40B3	Test Date	:2018-02-26
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11100.00	H	Average	21.28	20.32	41.60	54.00	-12.40
11100.00	H	Peak	33.37	20.32	53.69	74.00	-20.31

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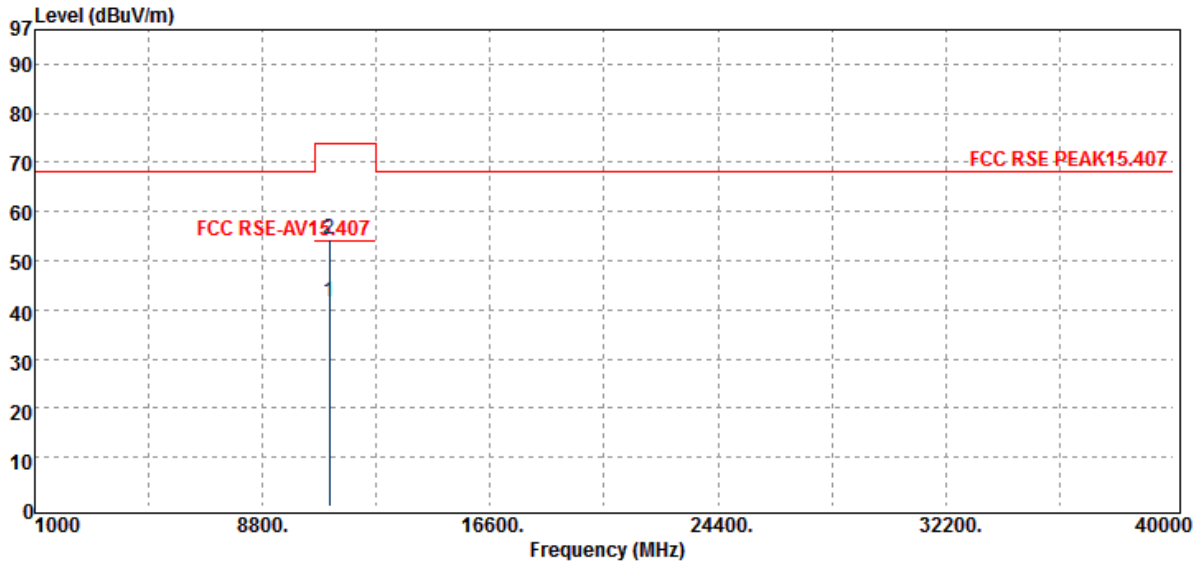
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Operation Band	:802.11n40B3	Test Date	:2018-02-23
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11100.00	H	Average	21.17	20.32	41.49	54.00	-12.51
11100.00	H	Peak	34.00	20.32	54.32	74.00	-19.68

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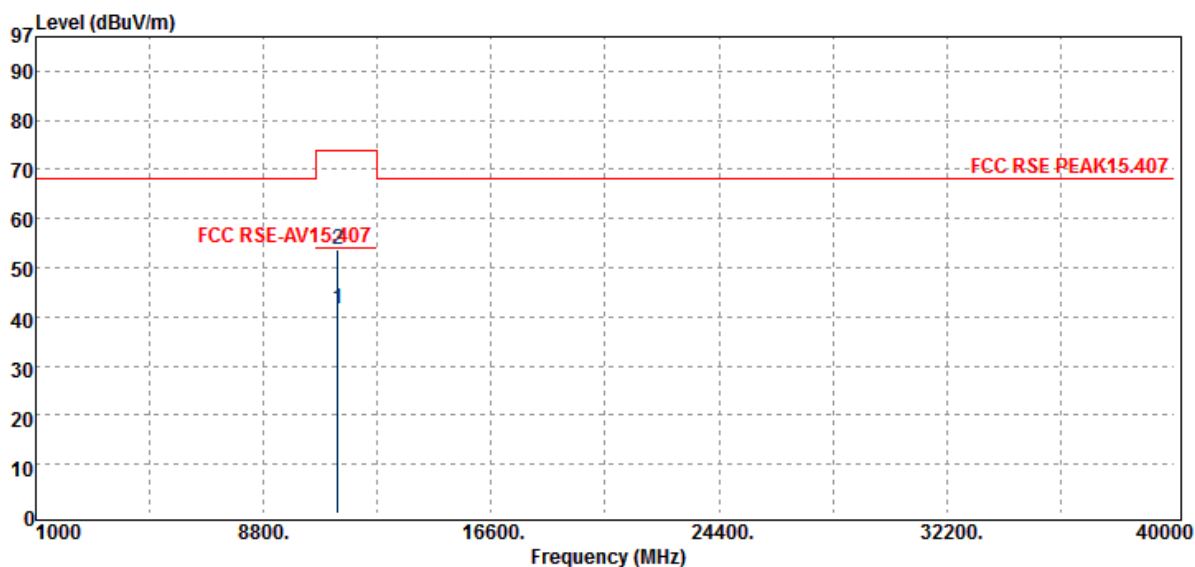
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Member of SGS Group

Operation Band :802.11n40B3
Fundamental Frequency :5670 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11340.00	H	Average	21.07	20.38	41.45	54.00	-12.55
11340.00	H	Peak	33.39	20.38	53.77	74.00	-20.23

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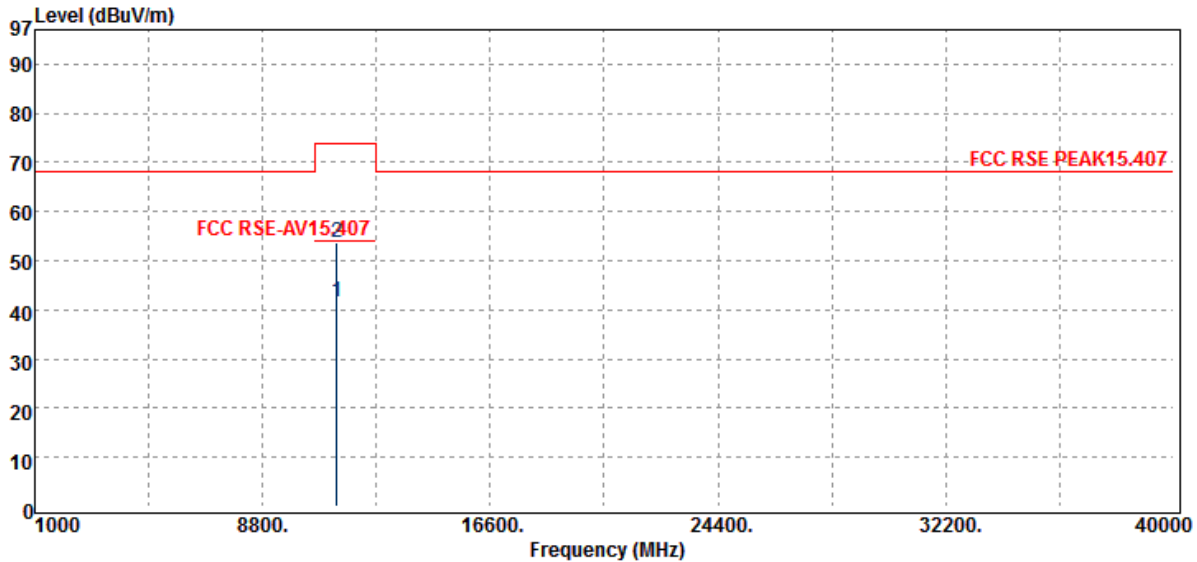
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Member of SGS Group

Operation Band :802.11n40B3
 Fundamental Frequency :5670 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11340.00	H	Average	21.09	20.38	41.47	54.00	-12.53
11340.00	H	Peak	33.46	20.38	53.84	74.00	-20.16

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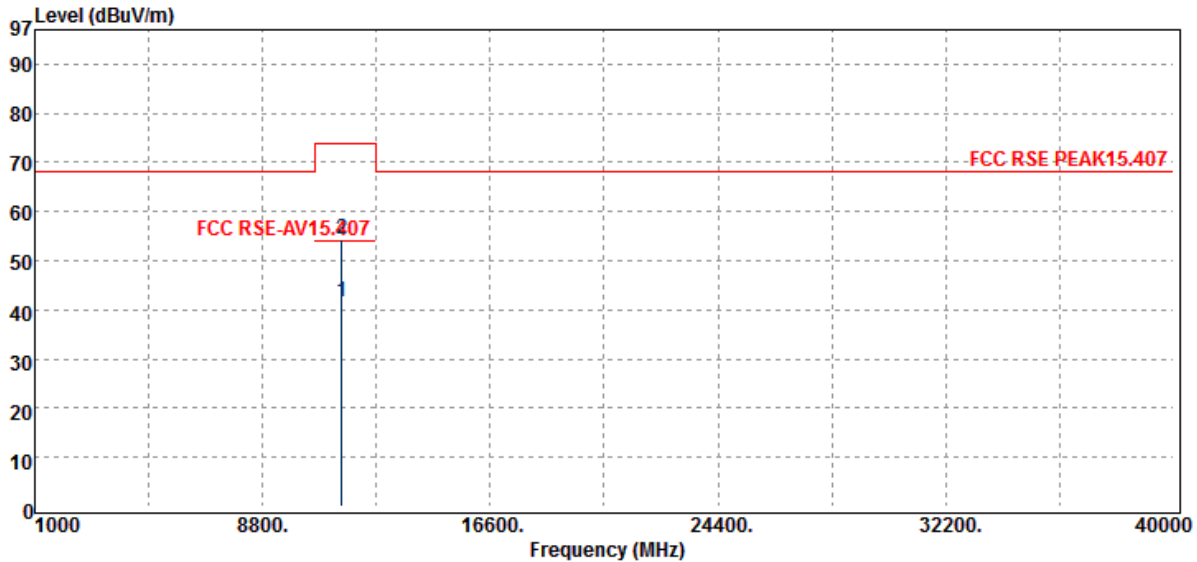
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Member of SGS Group

Operation Band :802.11n40B4
 Fundamental Frequency :5755 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11510.00	H	Average	21.17	20.38	41.55	54.00	-12.45
11510.00	H	Peak	33.83	20.38	54.21	74.00	-19.79

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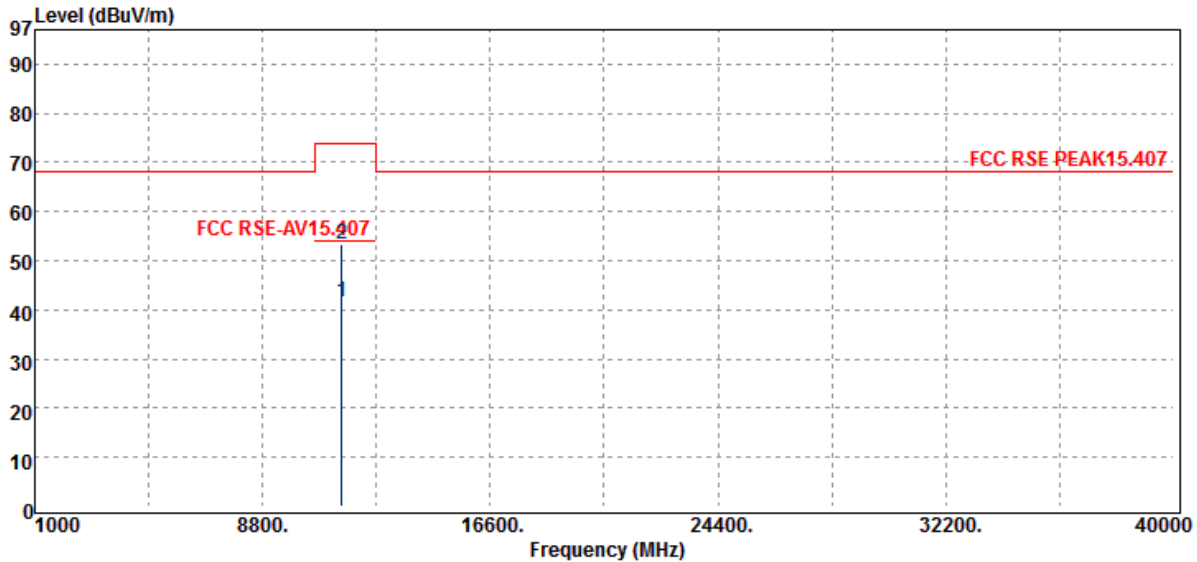
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Operation Band :802.11n40B4
 Fundamental Frequency :5755 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11510.00	H	Average	21.15	20.38	41.53	54.00	-12.47
11510.00	H	Peak	32.90	20.38	53.28	74.00	-20.72

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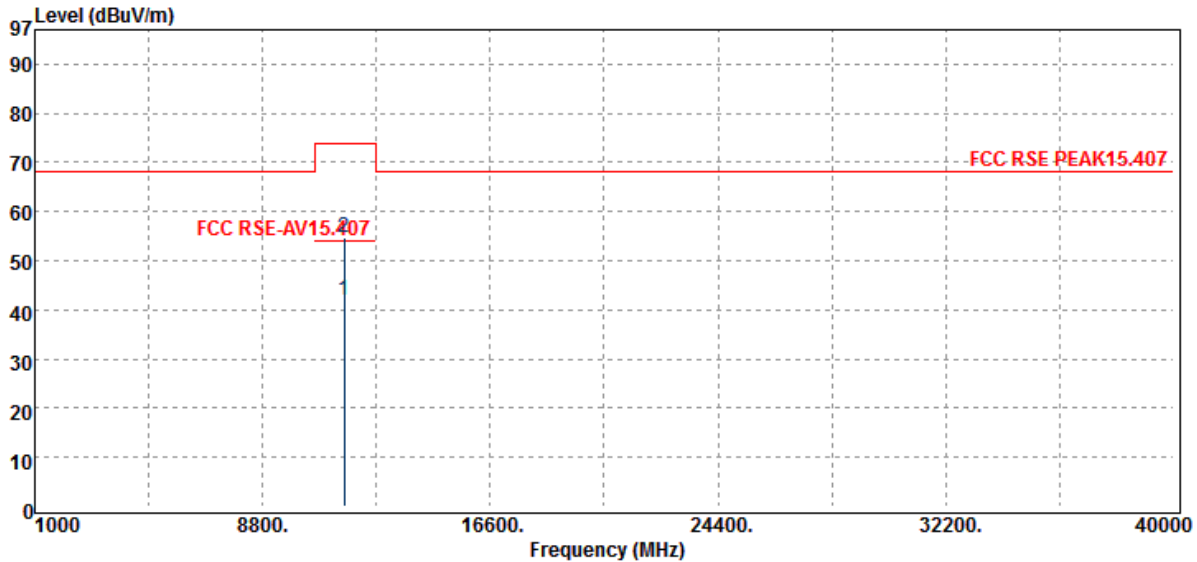
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Member of SGS Group

Operation Band :802.11n40B4
Fundamental Frequency :5795 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11590.00	H	Average	21.36	20.43	41.79	54.00	-12.21
11590.00	H	Peak	34.35	20.43	54.78	74.00	-19.22

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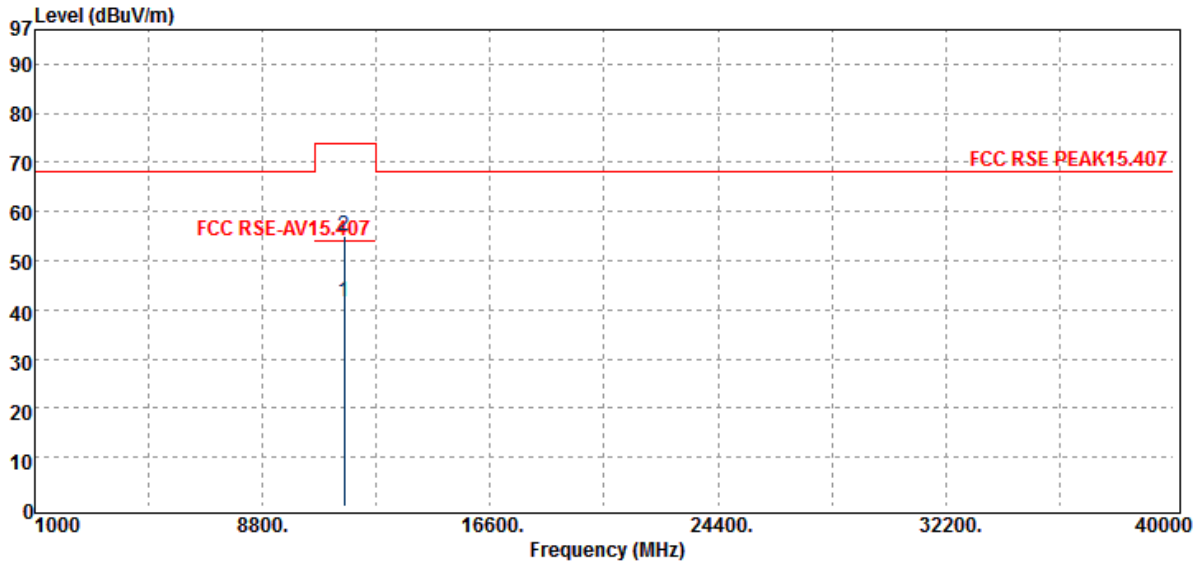
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Operation Band :802.11n40B4
 Fundamental Frequency :5795 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11590.00	H	Average	21.31	20.43	41.74	54.00	-12.26
11590.00	H	Peak	34.49	20.43	54.92	74.00	-19.08

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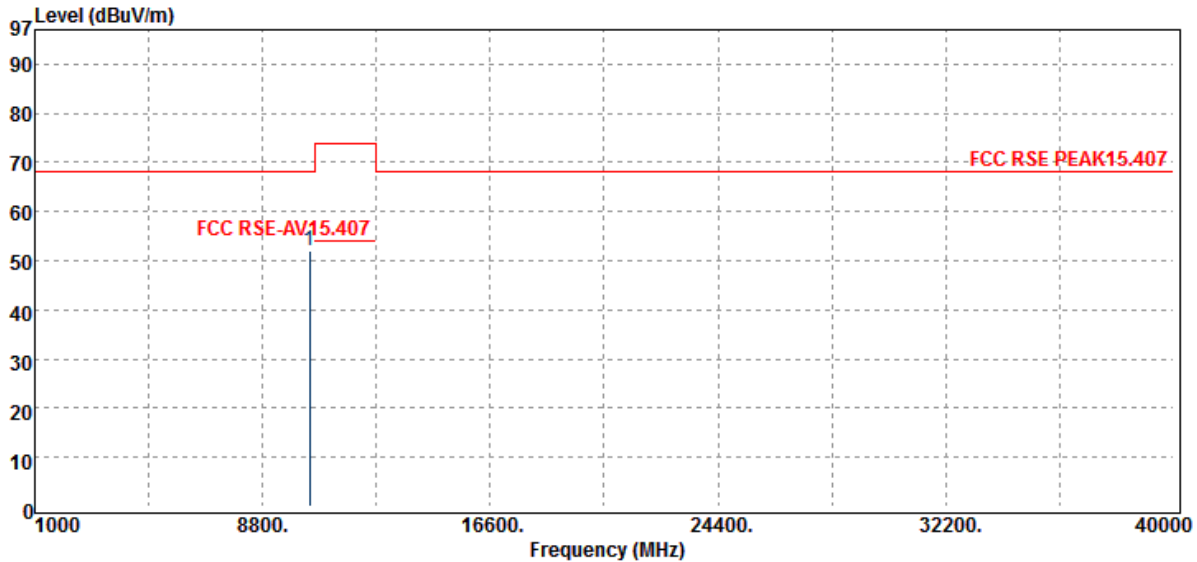
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11ac80B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10420.00	H	Peak	33.28	18.71	51.99	68.30	-16.31

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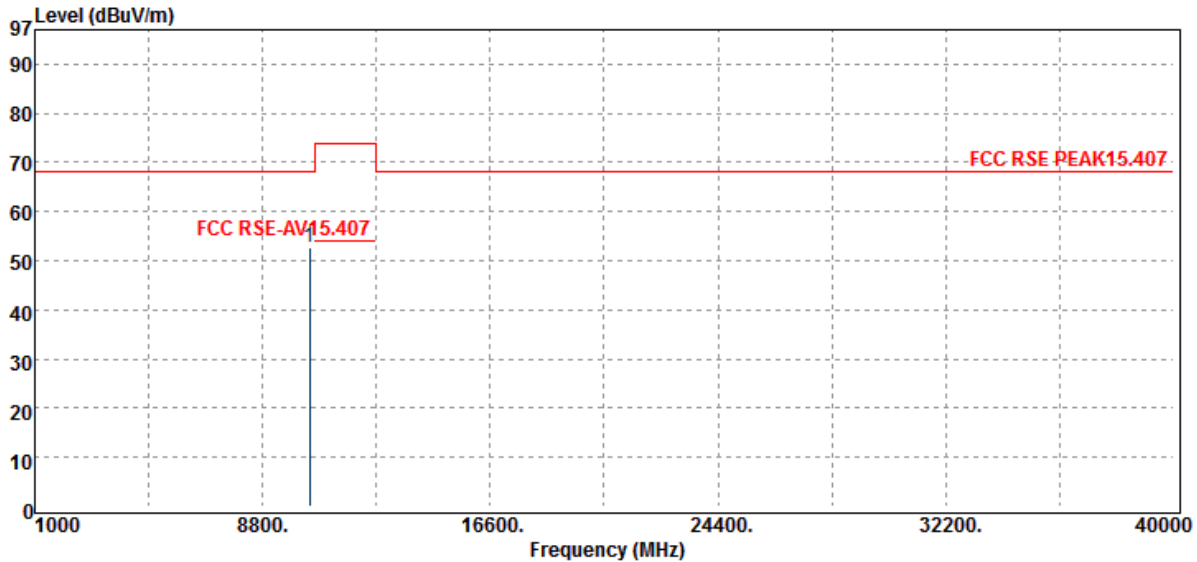
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Member of SGS Group

Operation Band :802.11ac80B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10420.00	H	Peak	34.14	18.71	52.85	68.30	-15.45

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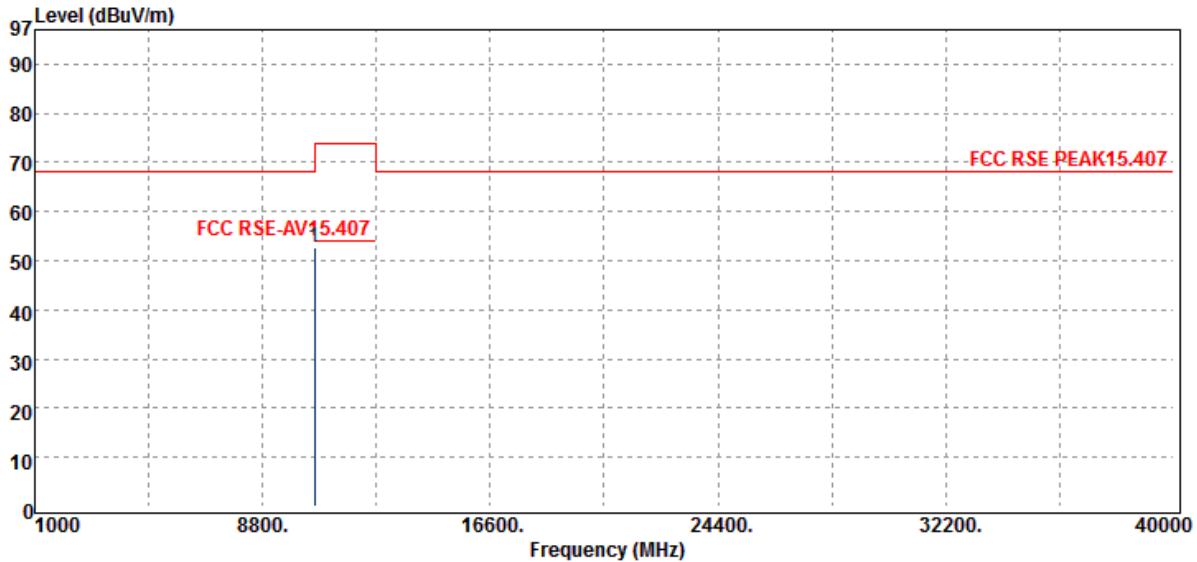
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Member of SGS Group

Operation Band :802.11ac80B2
 Fundamental Frequency :5290 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10580.00	H	Peak	33.91	18.88	52.79	68.30	-15.51

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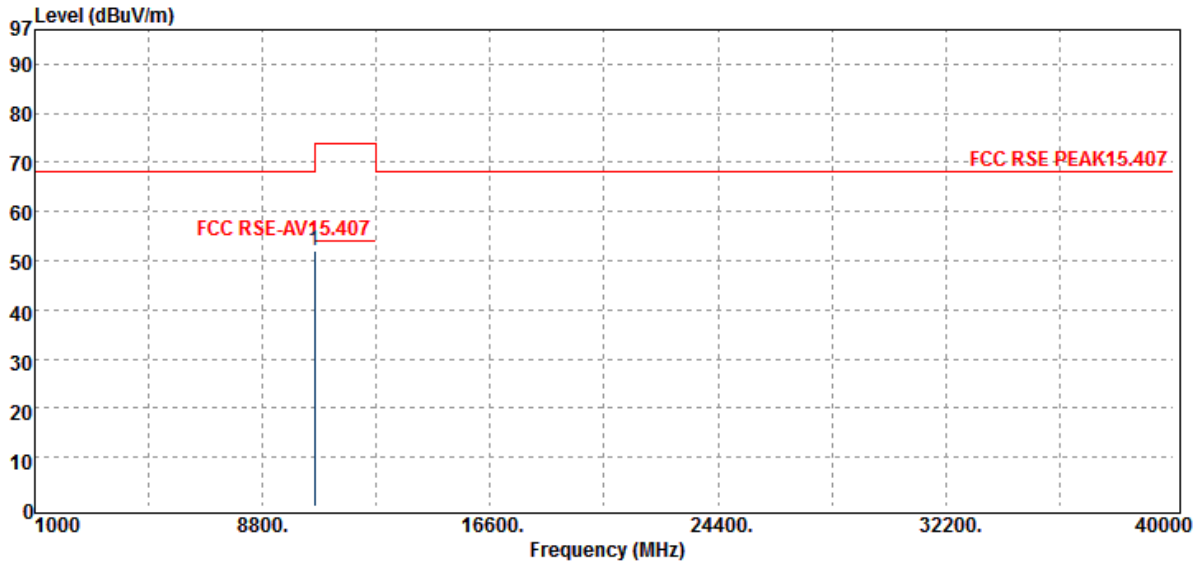
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11ac80B2
 Fundamental Frequency :5290 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10580.00	H	Peak	33.21	18.88	52.09	68.30	-16.21

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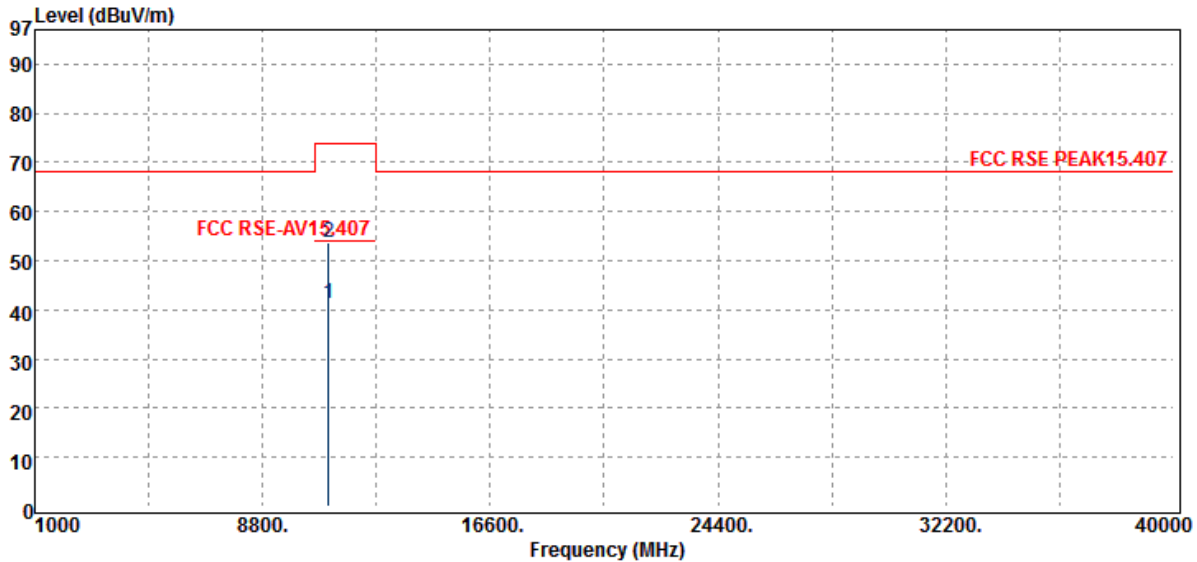
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Member of SGS Group

Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11060.00	H	Average	21.15	20.27	41.42	54.00	-12.58
11060.00	H	Peak	33.50	20.27	53.77	74.00	-20.23

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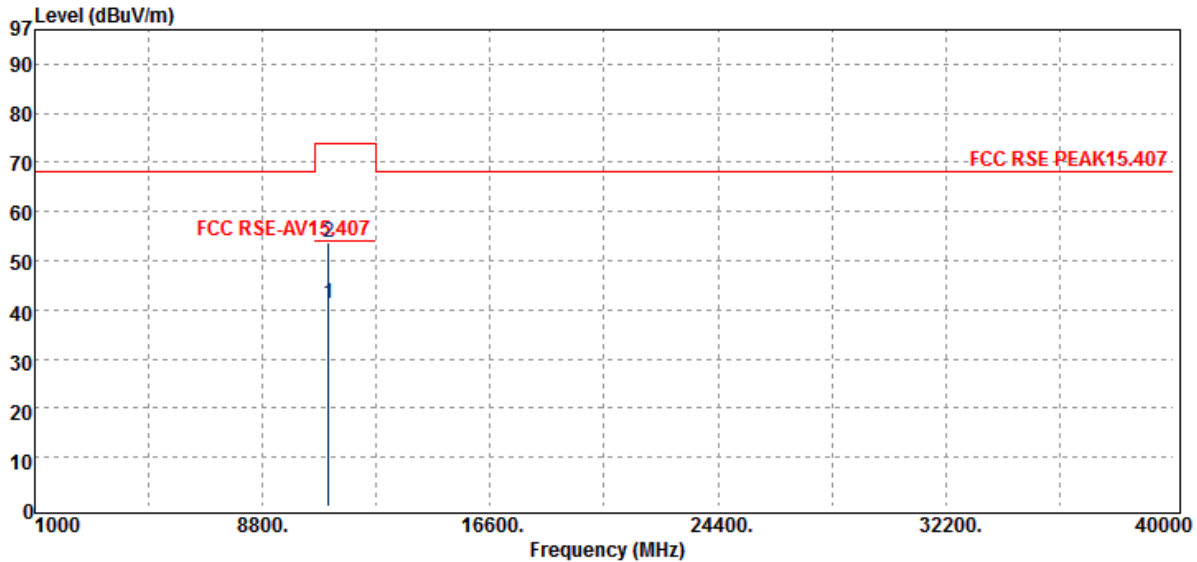
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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11060.00	H	Average	21.08	20.27	41.35	54.00	-12.65
11060.00	H	Peak	33.56	20.27	53.83	74.00	-20.17

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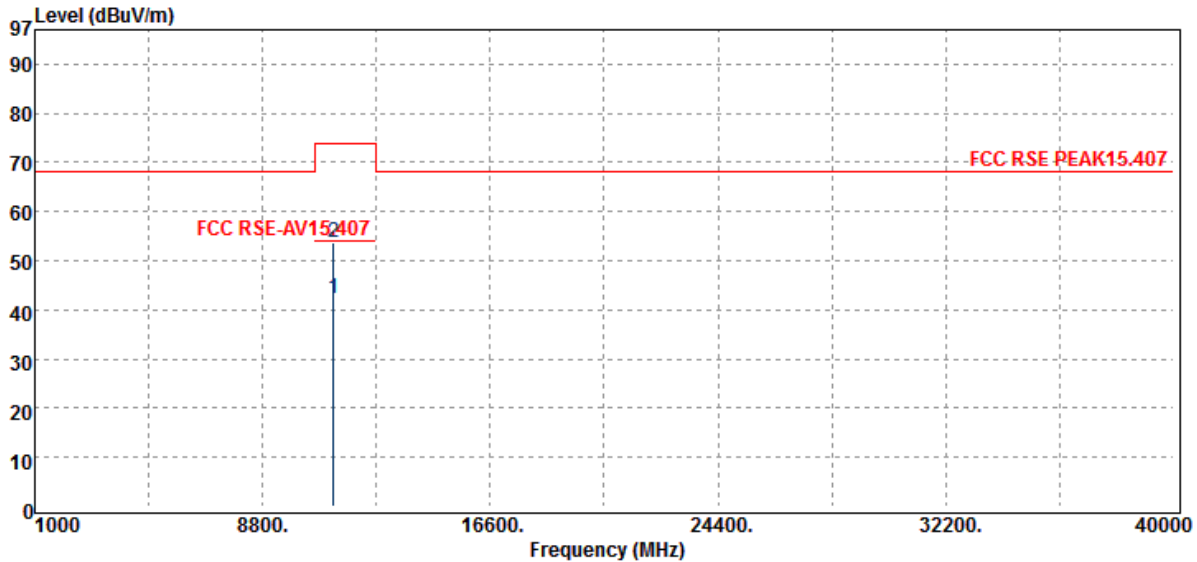
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Member of SGS Group

Operation Band :802.11ac80B3
 Fundamental Frequency :5610 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11220.00	H	Average	21.83	20.47	42.30	54.00	-11.70
11220.00	H	Peak	33.27	20.47	53.74	74.00	-20.26

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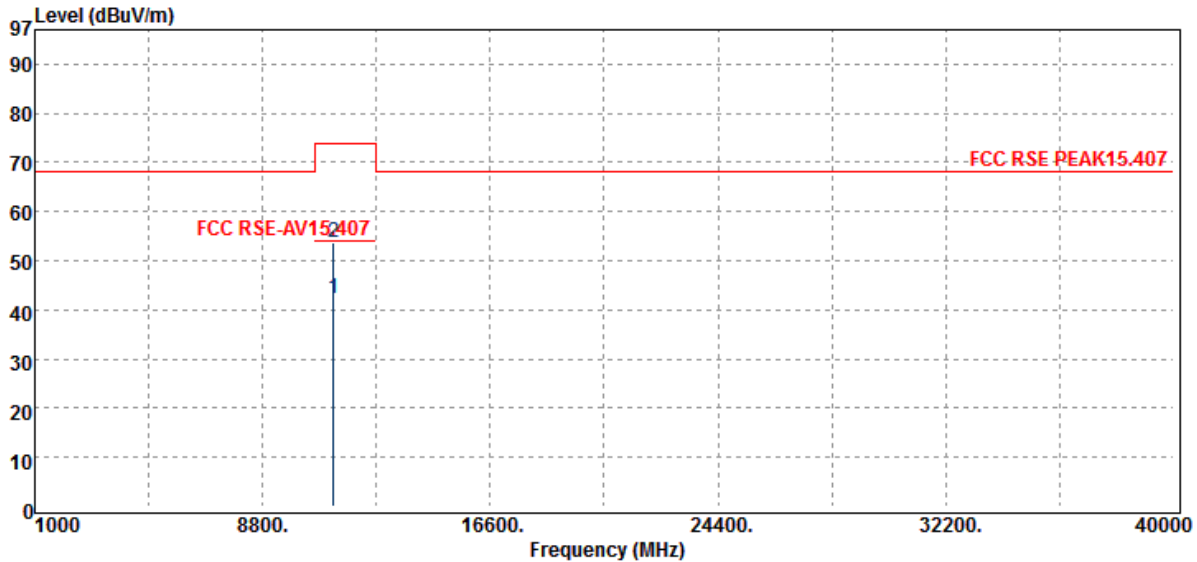
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Operation Band :802.11ac80B3
 Fundamental Frequency :5610 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-02-23
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11220.00	H	Average	21.71	20.47	42.18	54.00	-11.82
11220.00	H	Peak	33.39	20.47	53.86	74.00	-20.14

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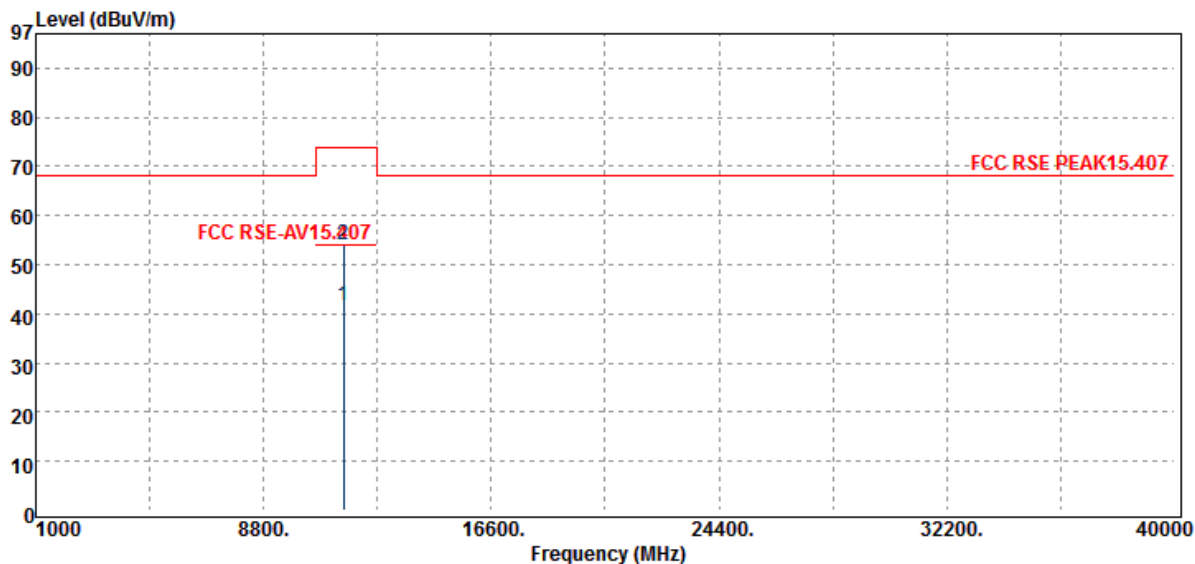
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Member of SGS Group

Operation Band :802.11ac80B4
Fundamental Frequency :5775 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11550.00	H	Average	21.25	20.51	41.76	54.00	-12.24
11550.00	H	Peak	33.69	20.51	54.20	74.00	-19.80

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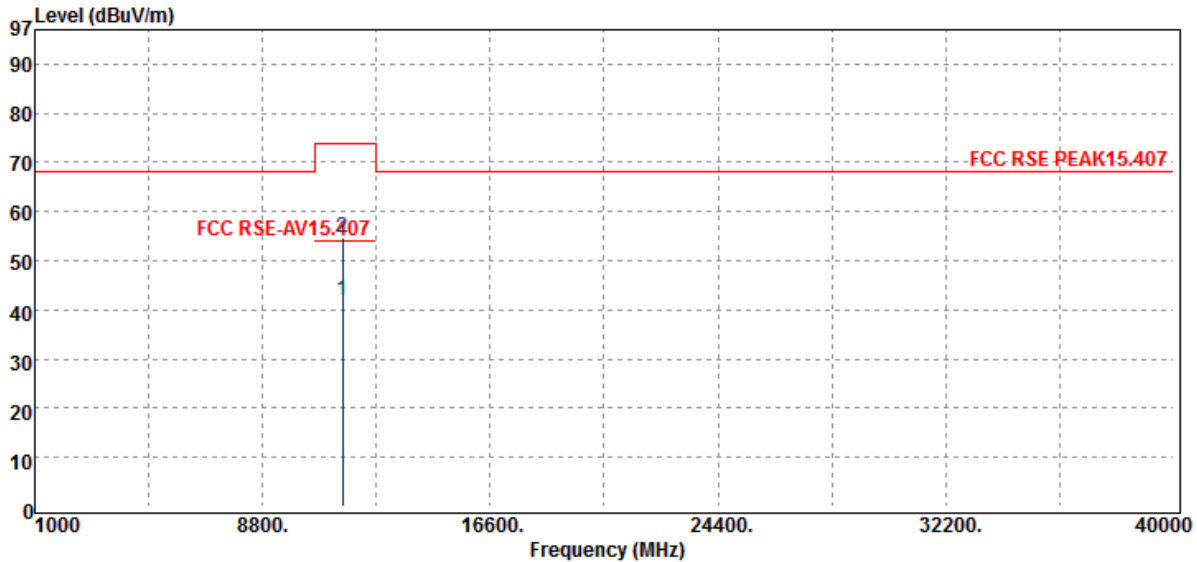
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Member of SGS Group

Operation Band :802.11ac80B4
Fundamental Frequency :5775 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2018-02-23
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11550.00	H	Average	21.30	20.51	41.81	54.00	-12.19
11550.00	H	Peak	34.06	20.51	54.57	74.00	-19.43

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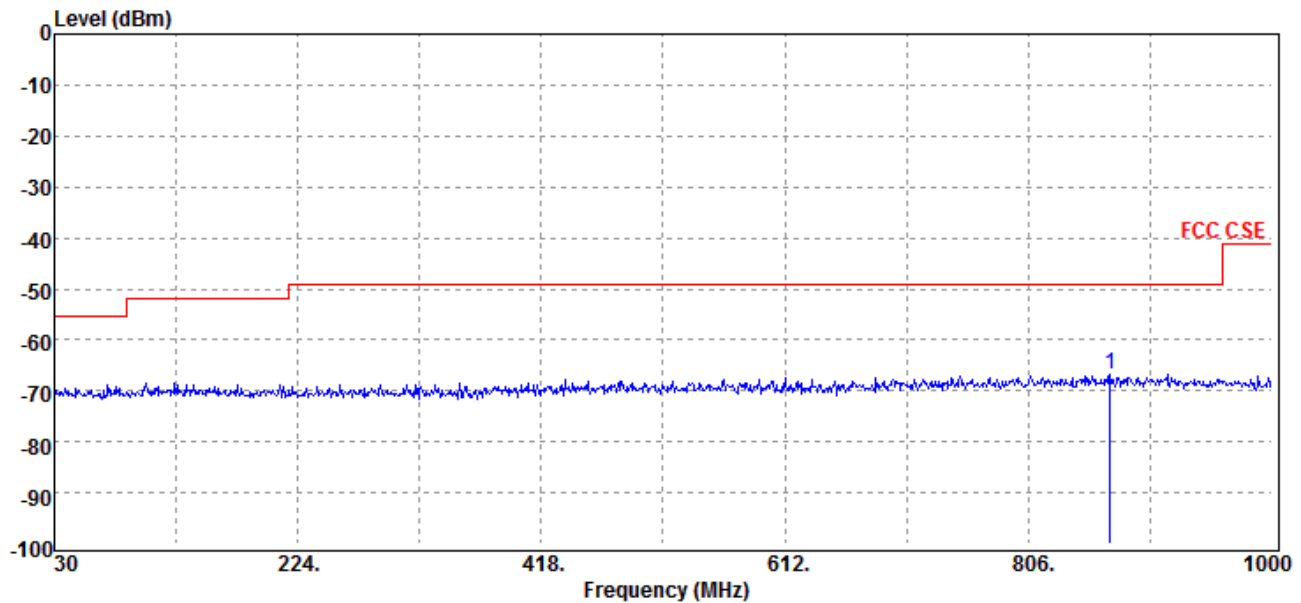
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Conducted Spurious Emission

Operation Band :802.11aB1
Fundamental Frequency :5180 MHz
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
870.99	Peak	-66.79	-49.25	-17.54

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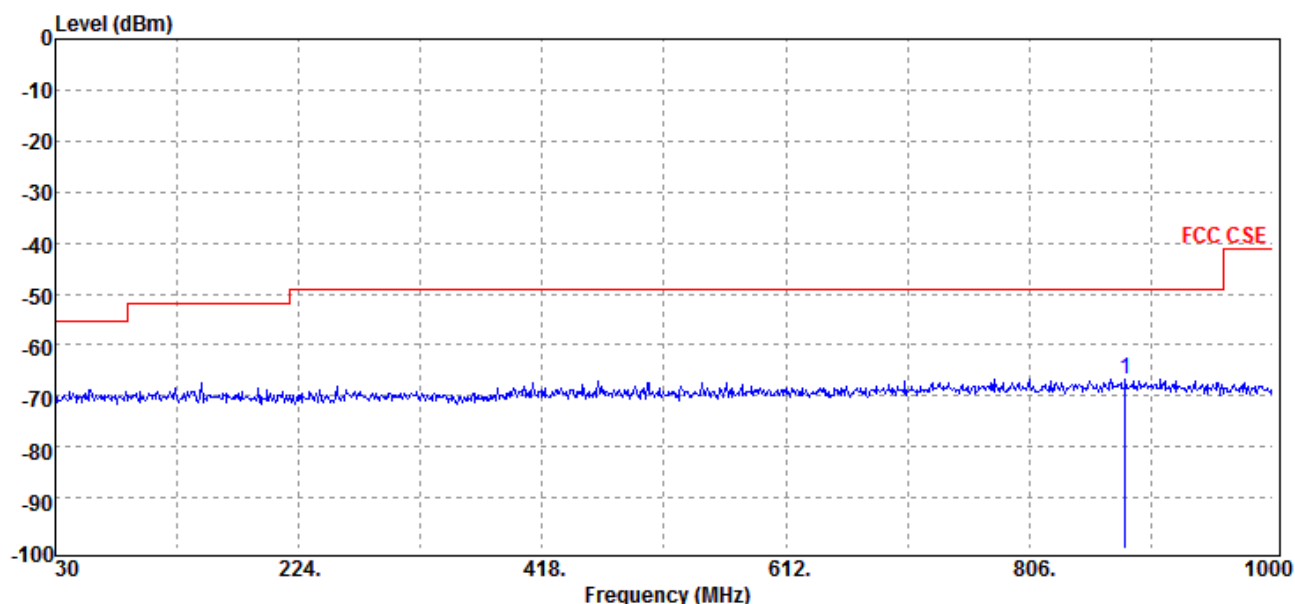
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
882.63	Peak	-66.69	-49.25	-17.44

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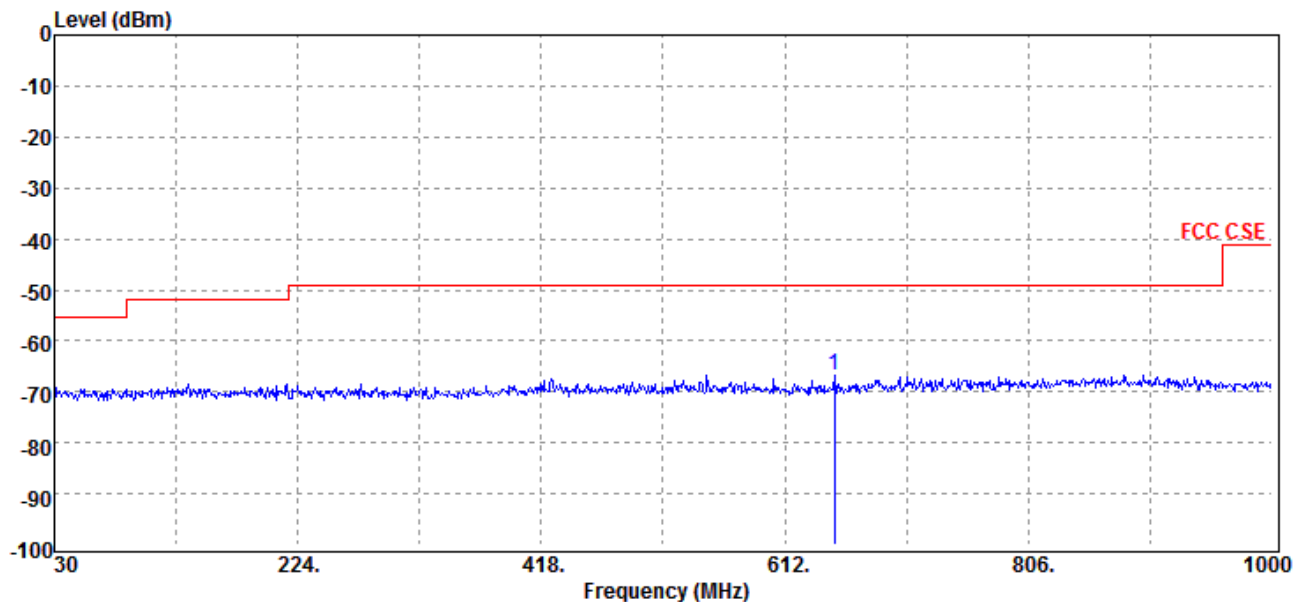
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB1
Fundamental Frequency :5240 MHz
cy
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
651.77	Peak	-66.77	-49.25	-17.52

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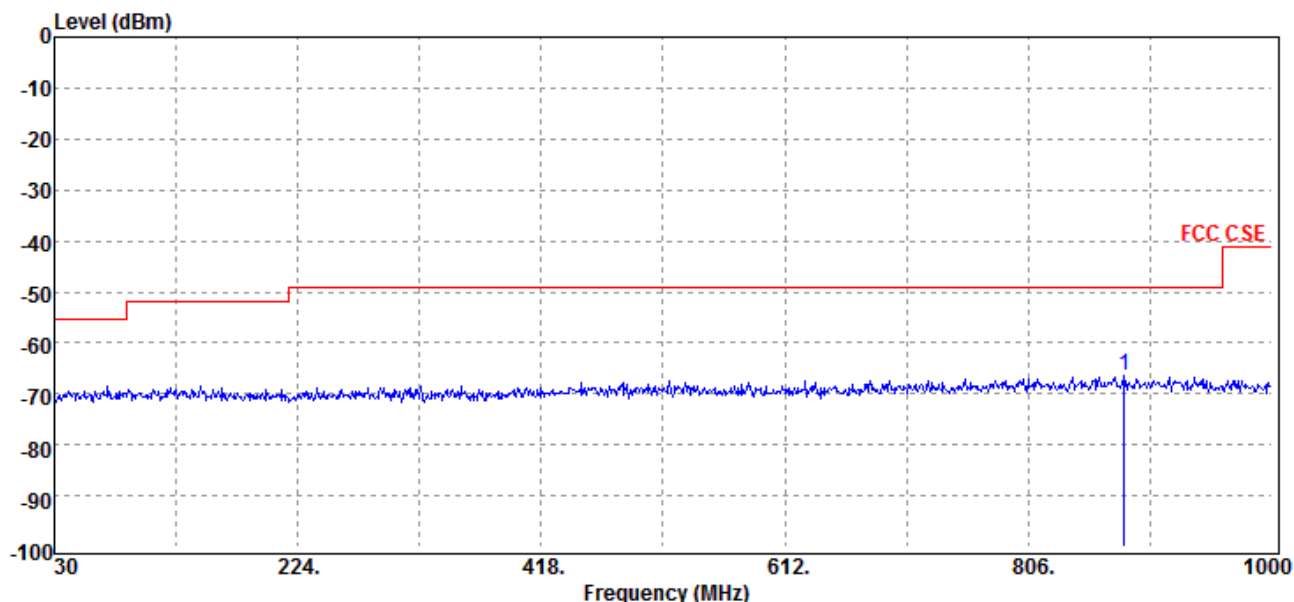
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB2
Fundamental Frequency :5260 MHz
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
882.63	Peak	-66.58	-49.25	-17.33

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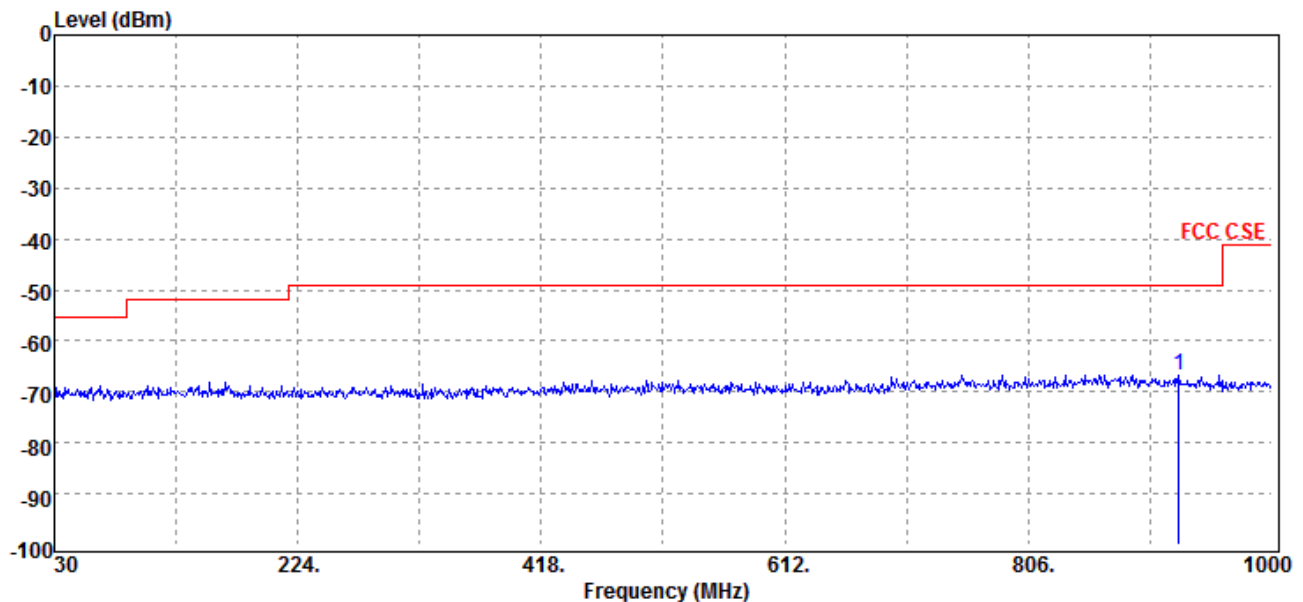
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Member of SGS Group

Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
cy
Operation Mode :Tx CH MID

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
926.28	Peak	-66.63	-49.25	-17.38

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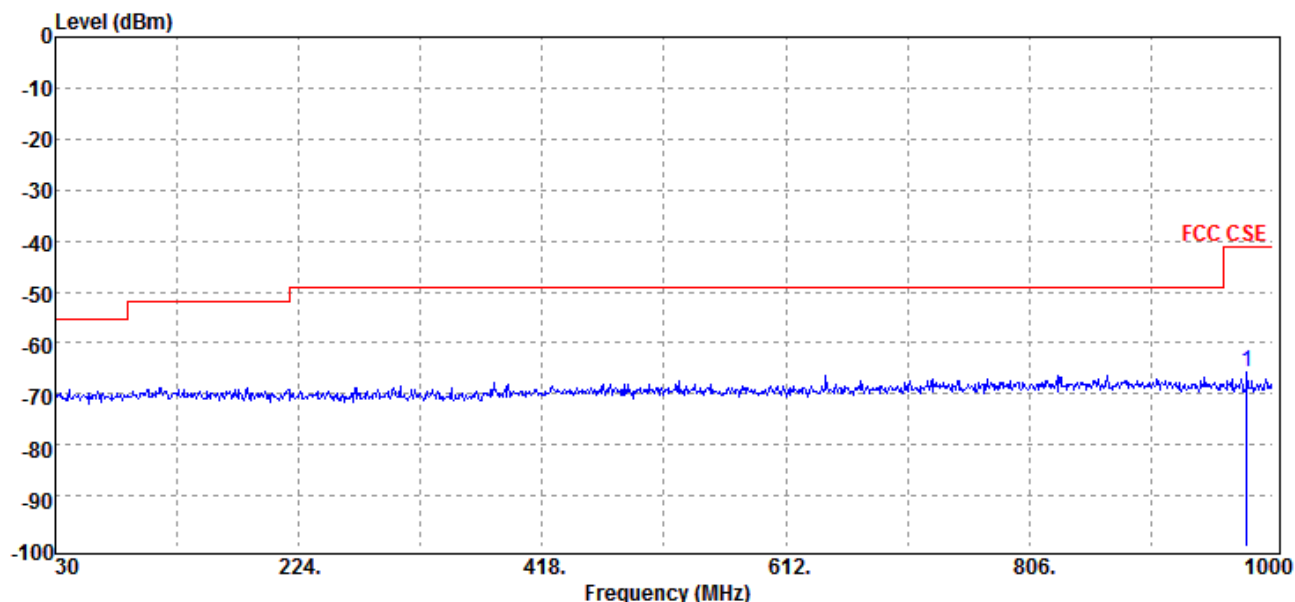
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Operation Band :802.11aB2
Fundamental Frequency :5320 MHz
cy
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
979.63	Peak	-65.85	-41.3	-24.56

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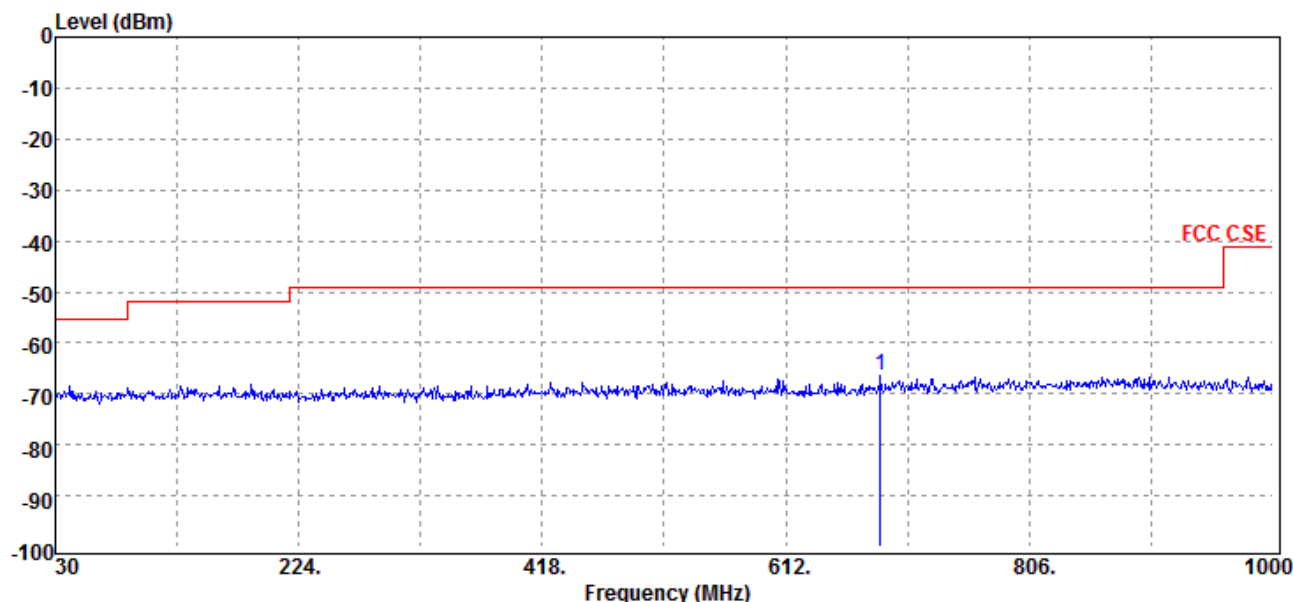
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Member of SGS Group

Operation Band :802.11aB3
Fundamental Frequency :5500 MHz
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
687.66	Peak	-66.57	-49.25	-17.32

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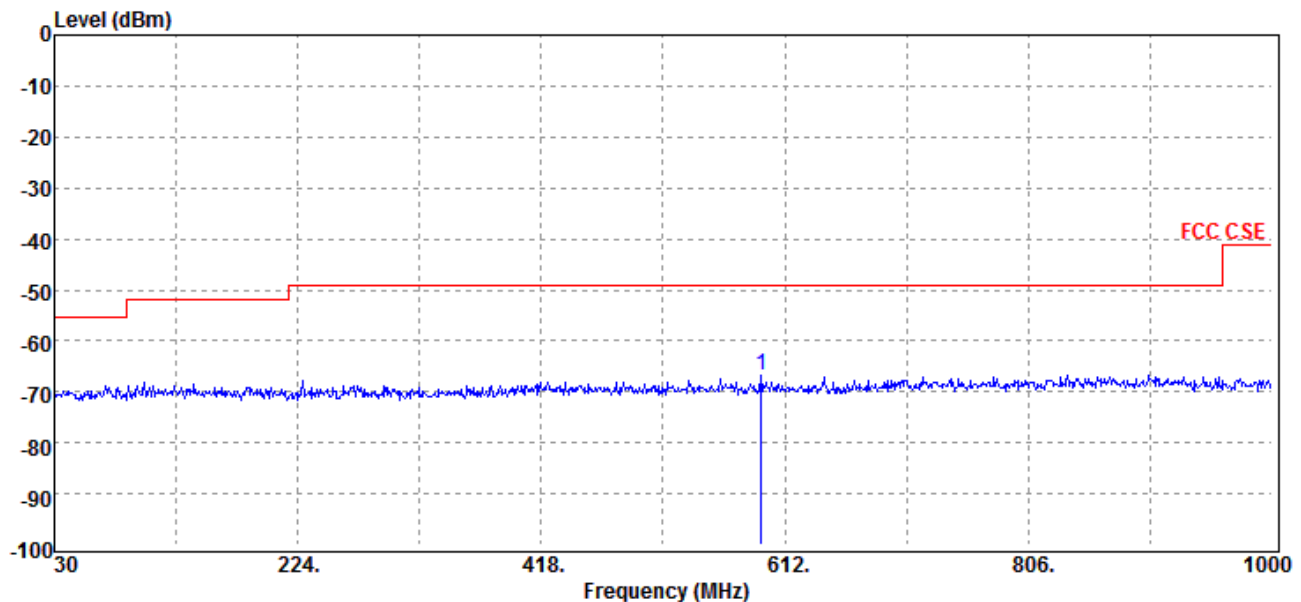
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Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
593.57	Peak	-66.85	-49.25	-17.60

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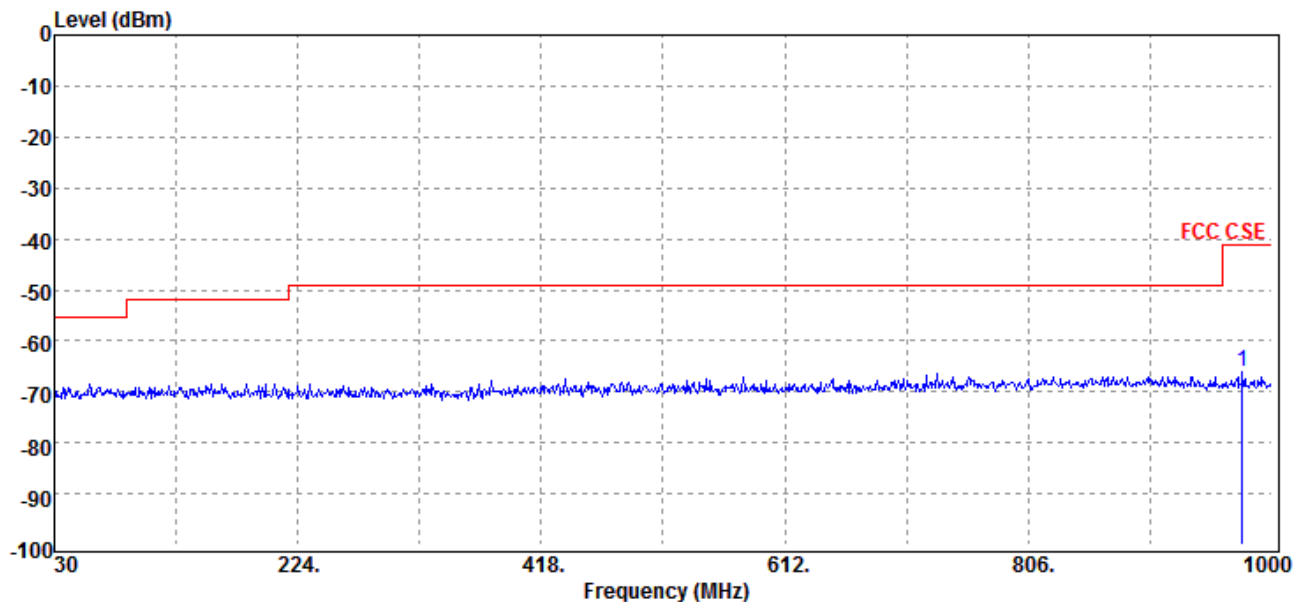
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Operation Band :802.11aB3
Fundamental Frequency :5700 MHz
cy
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
976.72	Peak	-66.04	-41.3	-24.75

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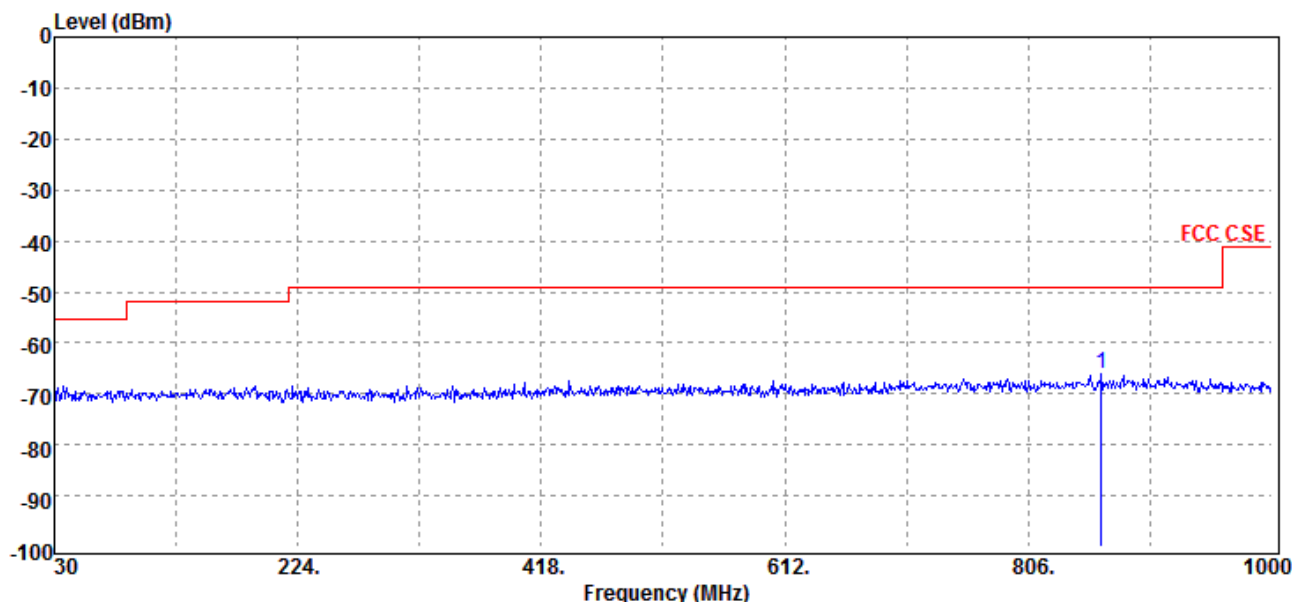
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Operation Band :802.11aB4
Fundamental Frequency :5745 MHz
cy
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
864.20	Peak	-66.18	-49.25	-16.93

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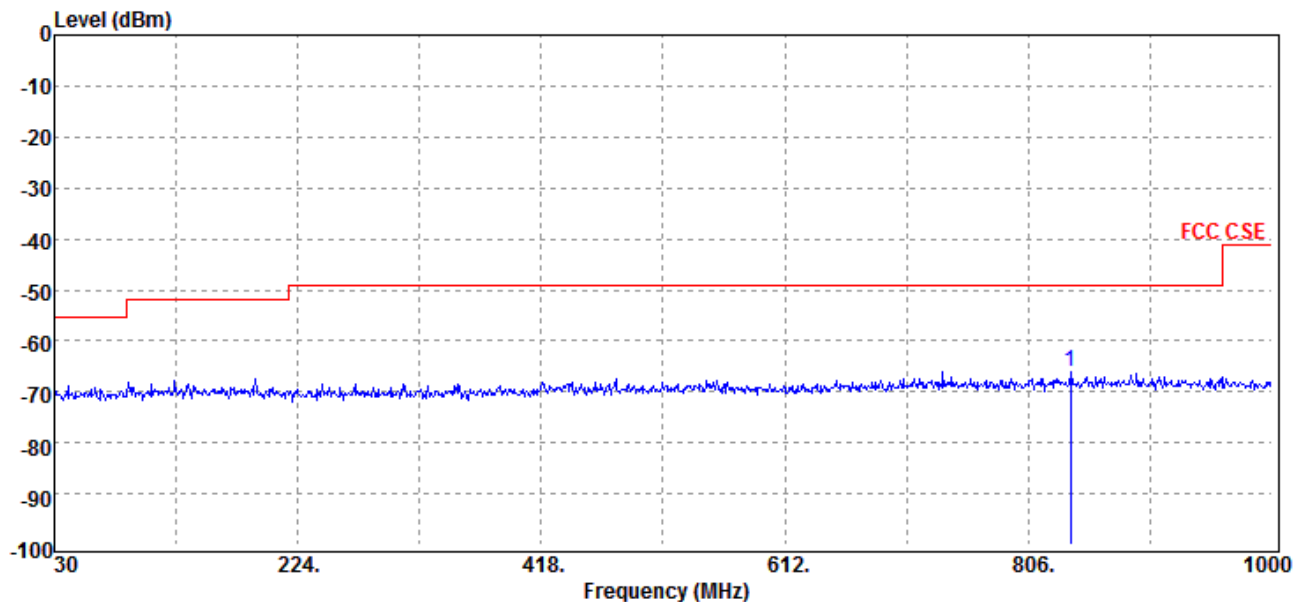
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Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
839.95	Peak	-65.97	-49.25	-16.72

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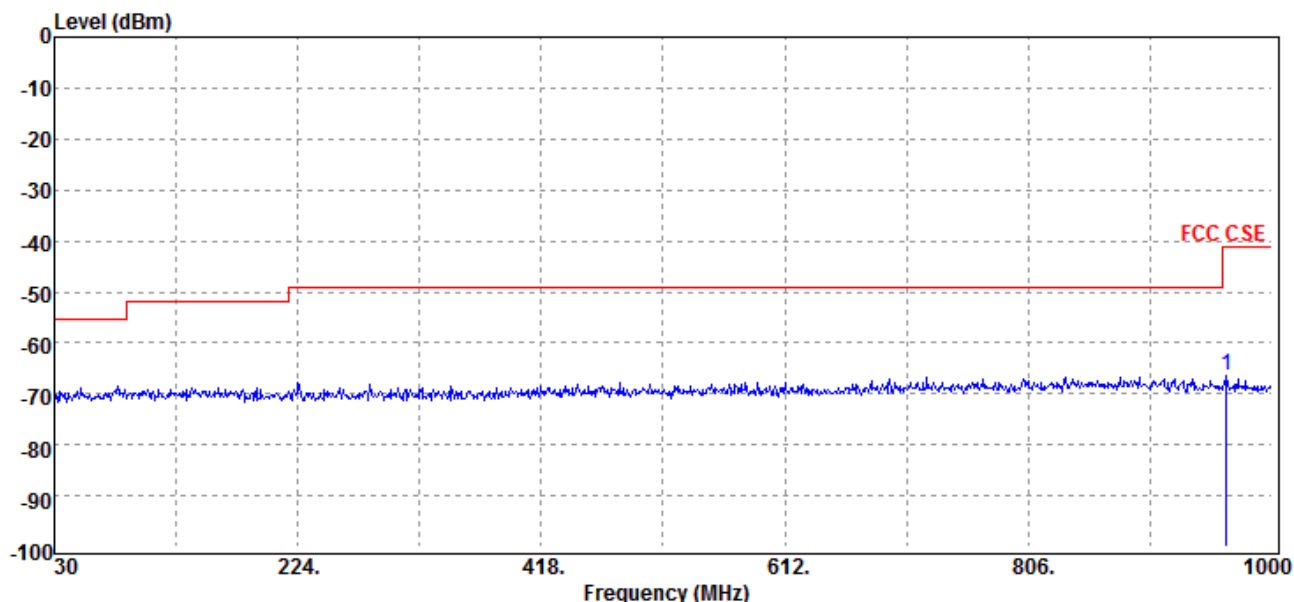
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Operation Band :802.11aB4
Fundamental Frequency :5825 MHz
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
964.11	Peak	-66.48	-41.3	-25.19

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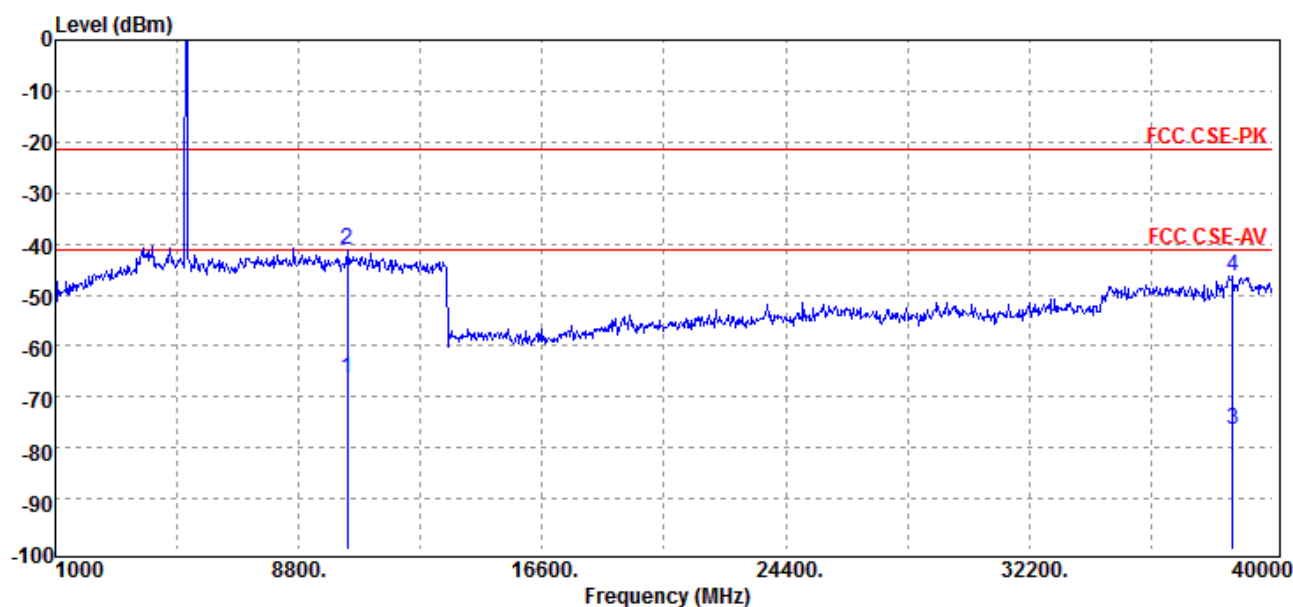
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Conducted Spurious Emission of over 1GHz

Operation Band :802.11aB1
Fundamental Frequency :5180 MHz
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10360.00	Average	-66.54	-41.3	-25.25
10360.00	Peak	-41.27	-21.3	-19.98
38713.00	Average	-76.31	-41.3	-35.02
38713.00	Peak	-46.27	-21.3	-24.98

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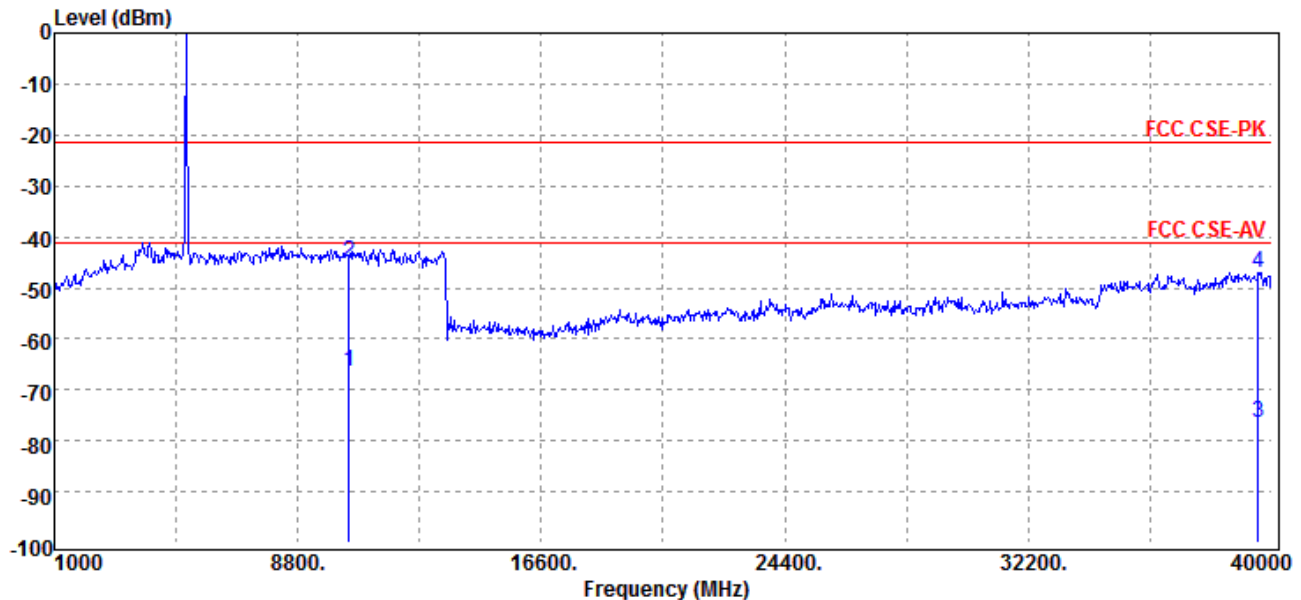
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
cy
Operation Mode :Tx CH MID

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10440.00	Average	-66.33	-41.3	-25.04
10440.00	Peak	-44.99	-21.3	-23.70
39571.00	Average	-76.49	-41.3	-35.20
39571.00	Peak	-46.90	-21.3	-25.61

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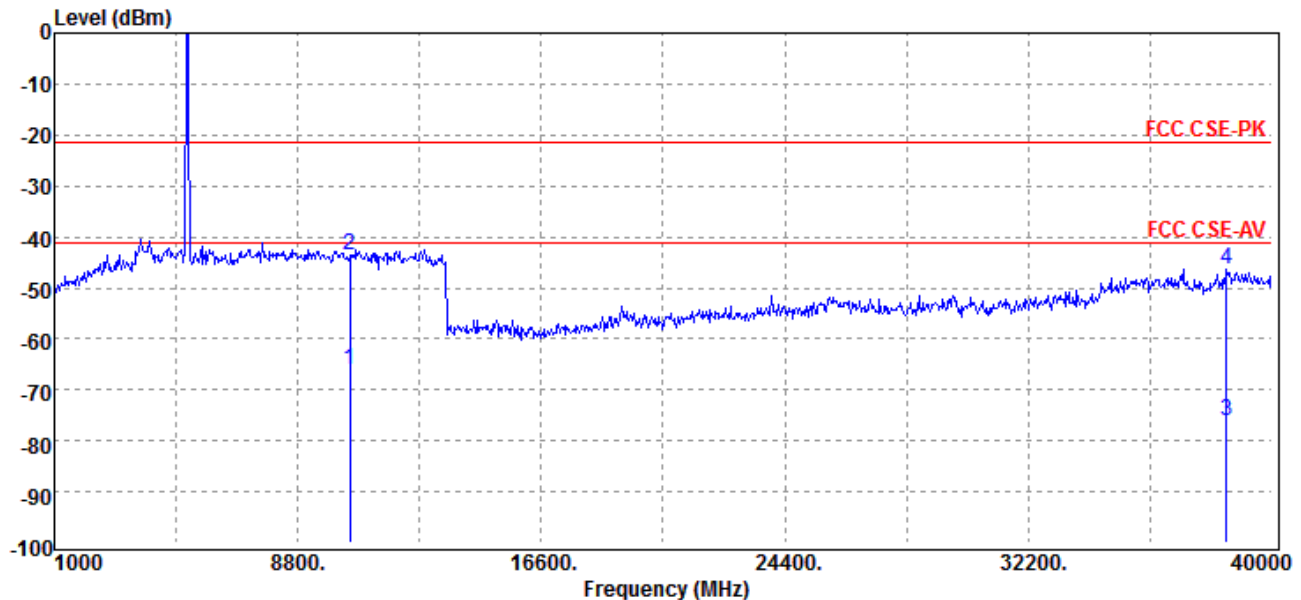
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB1
Fundamental Frequency :5240 MHz
cy
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10480.00	Average	-66.14	-41.3	-24.85
10480.00	Peak	-43.69	-21.3	-22.40
38557.00	Average	-76.23	-41.3	-34.94
38557.00	Peak	-46.25	-21.3	-24.96

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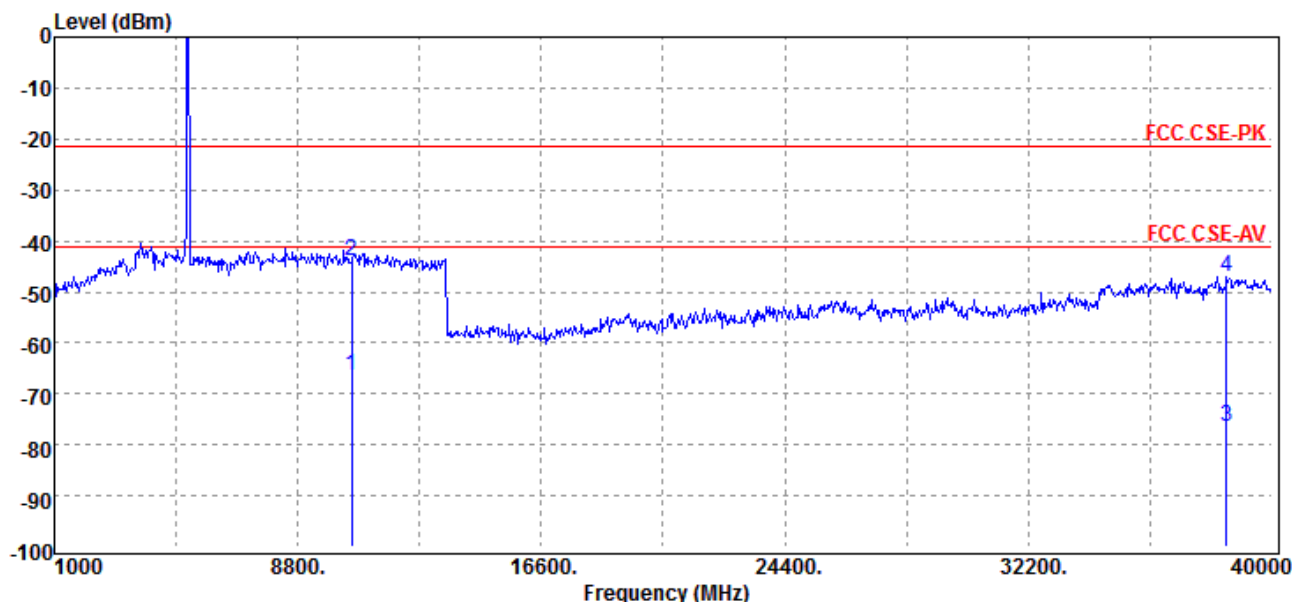
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB2
Fundamental Frequency :5260 MHz
cy
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10520.00	Average	-66.58	-41.3	-25.29
10520.00	Peak	-43.89	-21.3	-22.60
38557.00	Average	-76.42	-41.3	-35.13
38557.00	Peak	-47.21	-21.3	-25.92

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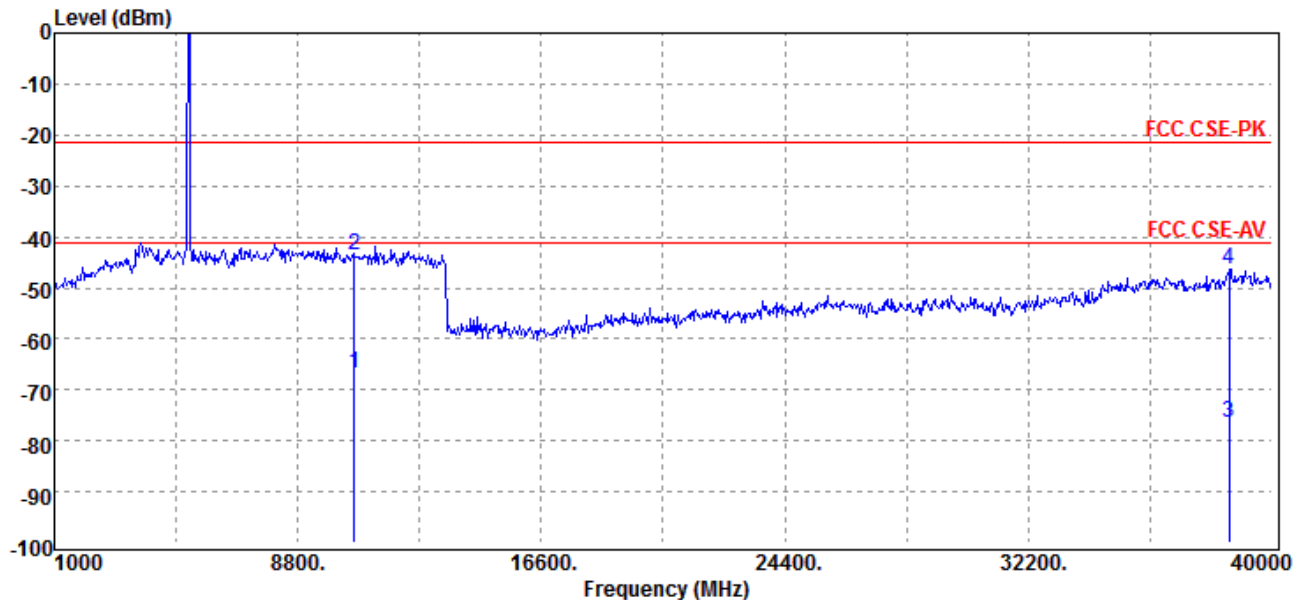
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
cy
Operation Mode :Tx CH MID

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10600.00	Average	-66.90	-41.3	-25.61
10600.00	Peak	-43.65	-21.3	-22.36
38635.00	Average	-76.48	-41.3	-35.19
38635.00	Peak	-46.29	-21.3	-25.00

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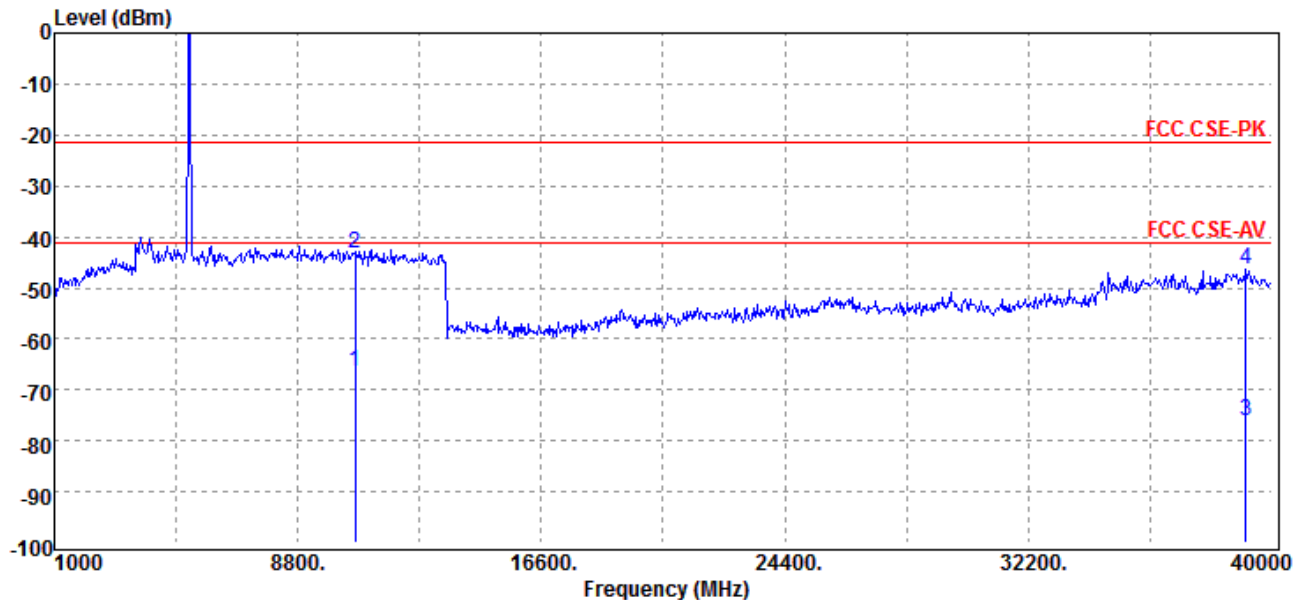
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB2
Fundamental Frequency :5320 MHz
cy
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10640.00	Average	-66.53	-41.3	-25.24
10640.00	Peak	-43.28	-21.3	-21.99
39181.00	Average	-76.17	-41.3	-34.88
39181.00	Peak	-46.41	-21.3	-25.12

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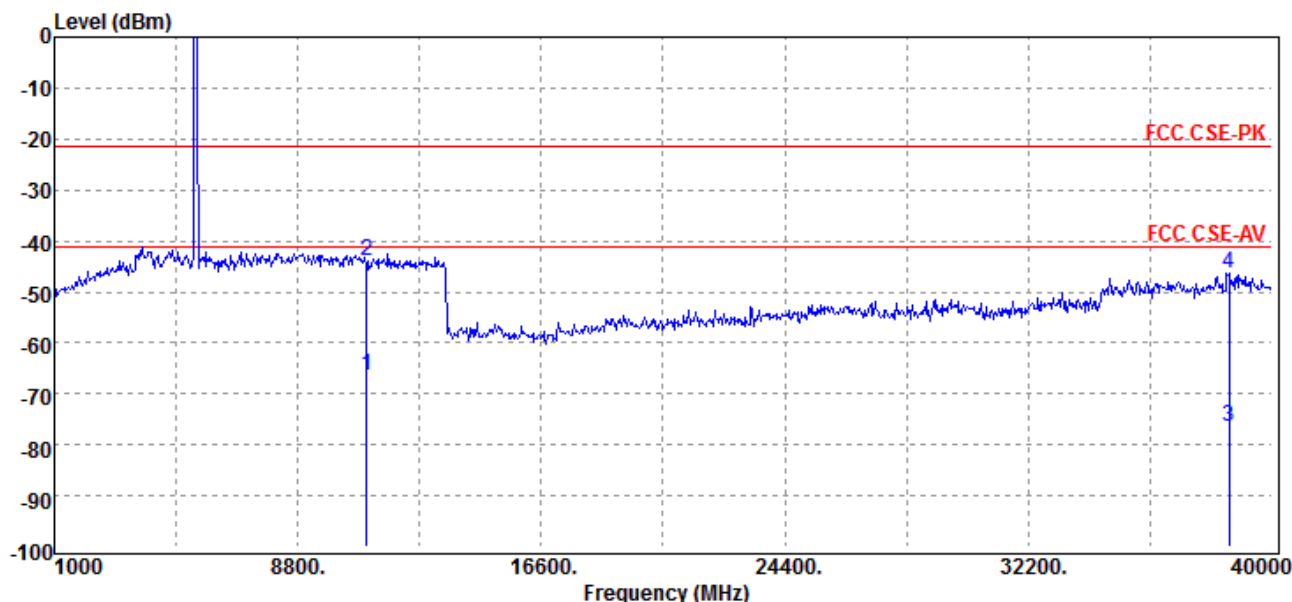
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB3
Fundamental Frequency :5500 MHz
cy
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11000.00	Average	-66.43	-41.3	-25.14
11000.00	Peak	-43.77	-21.3	-22.48
38635.00	Average	-76.38	-41.3	-35.09
38635.00	Peak	-46.29	-21.3	-25.00

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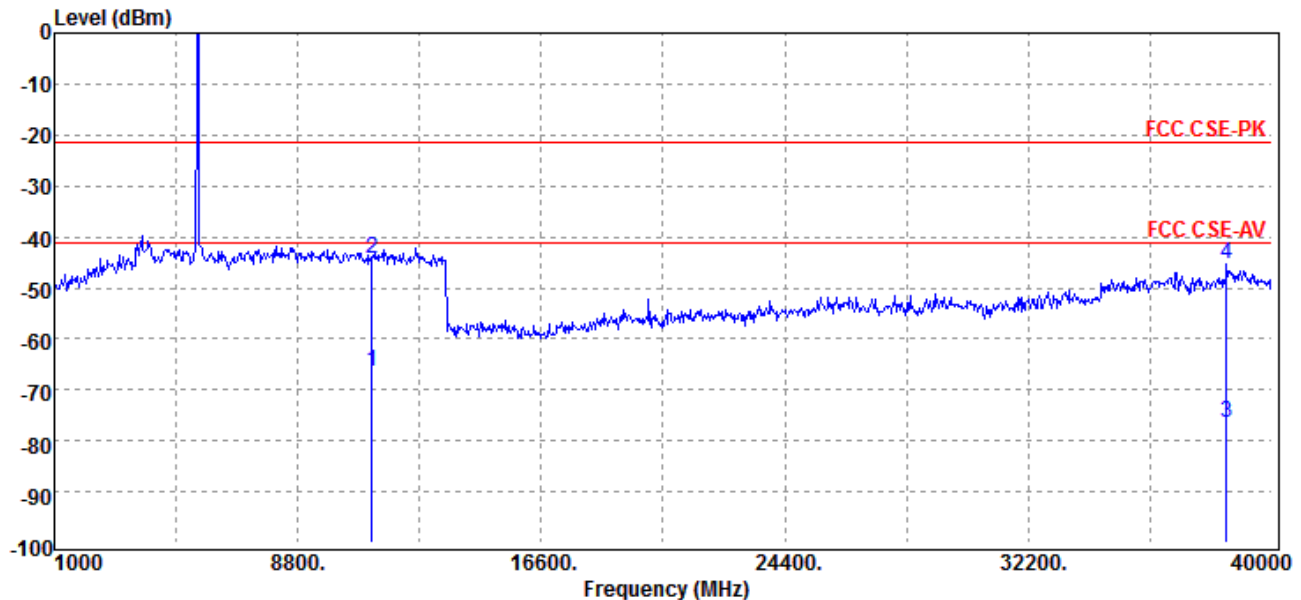
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
cy
Operation Mode :Tx CH MID

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11160.00	Average	-66.28	-41.3	-24.99
11160.00	Peak	-44.30	-21.3	-23.01
38557.00	Average	-76.60	-41.3	-35.31
38557.00	Peak	-45.43	-21.3	-24.14

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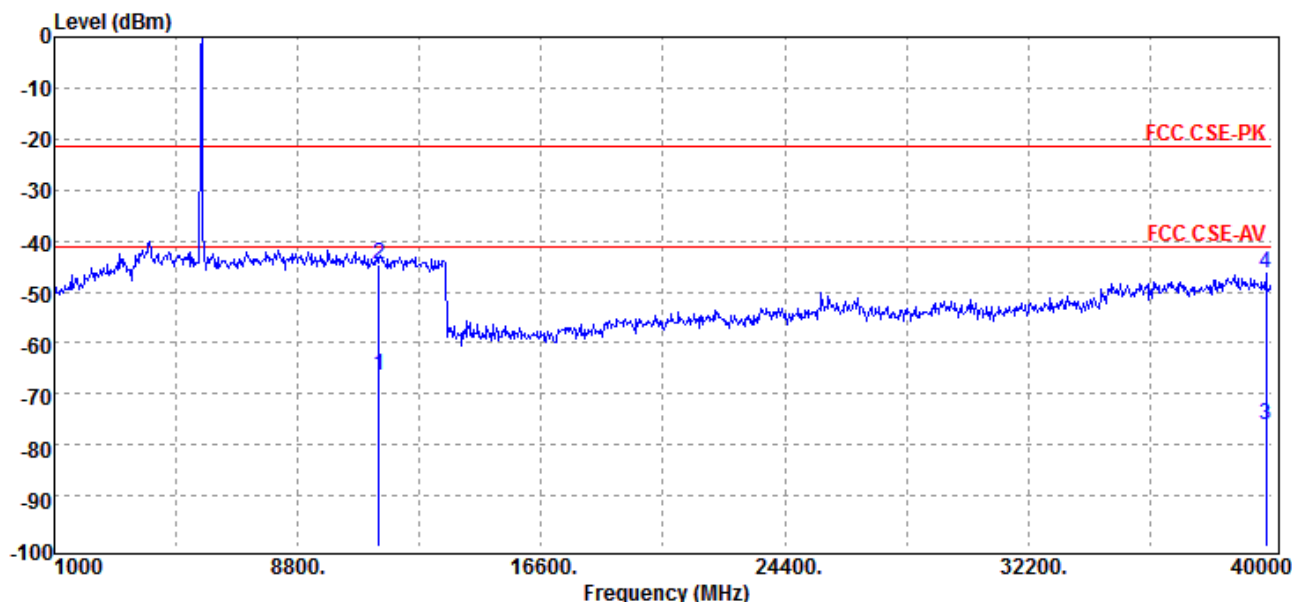
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB3
Fundamental Frequency :5700 MHz
cy
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11400.00	Average	-66.58	-41.3	-25.29
11400.00	Peak	-44.60	-21.3	-23.31
39805.00	Average	-76.15	-41.3	-34.86
39805.00	Peak	-46.44	-21.3	-25.15

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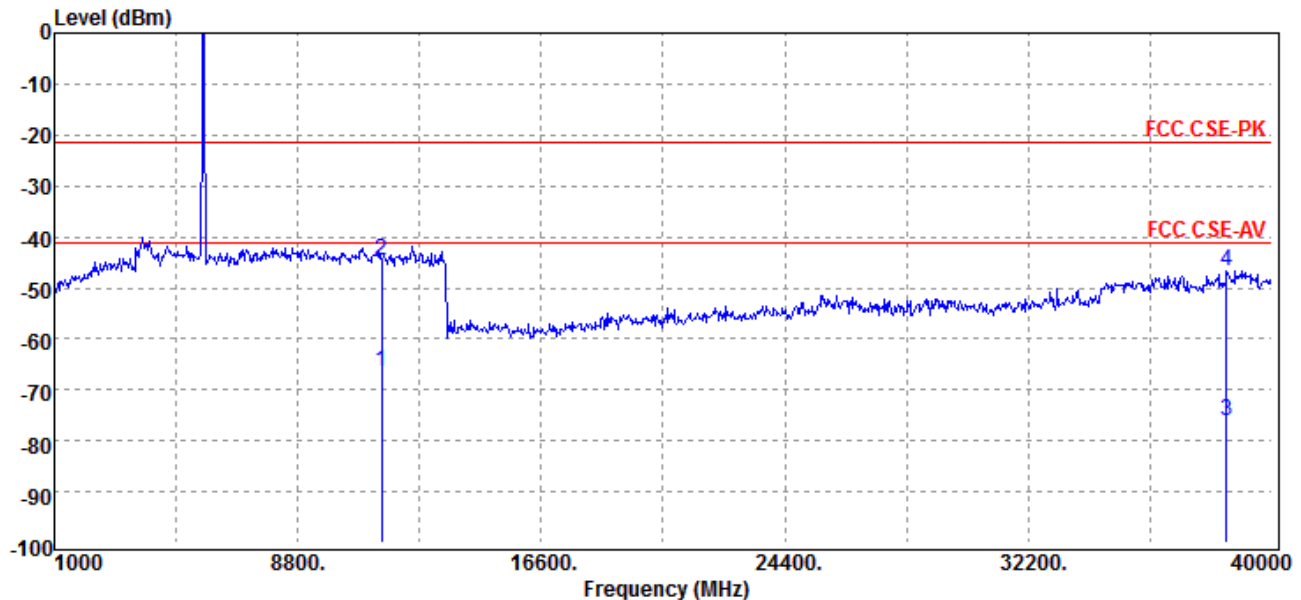
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB4
Fundamental Frequency :5745 MHz
cy
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11490.00	Average	-66.48	-41.3	-25.19
11490.00	Peak	-44.47	-21.3	-23.18
38557.00	Average	-76.25	-41.3	-34.96
38557.00	Peak	-46.71	-21.3	-25.42

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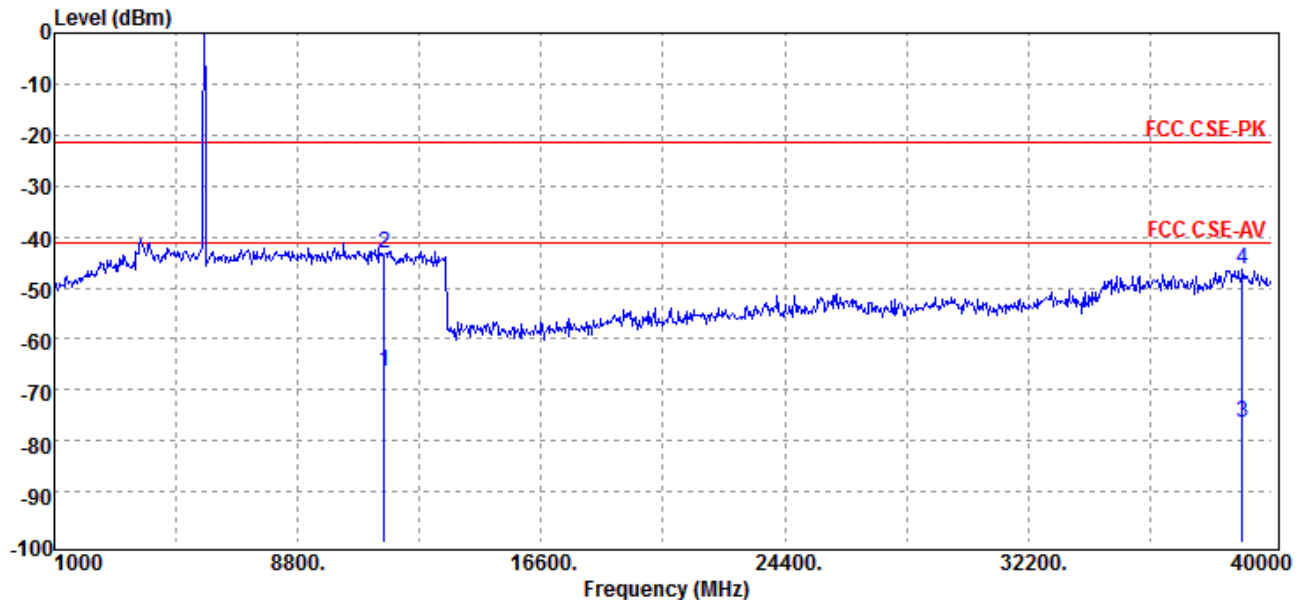
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Member of SGS Group

Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
cy
Operation Mode :Tx CH MID

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11570.00	Average	-66.33	-41.3	-25.04
11570.00	Peak	-43.20	-21.3	-21.91
39064.00	Average	-76.50	-41.3	-35.21
39064.00	Peak	-46.52	-21.3	-25.23

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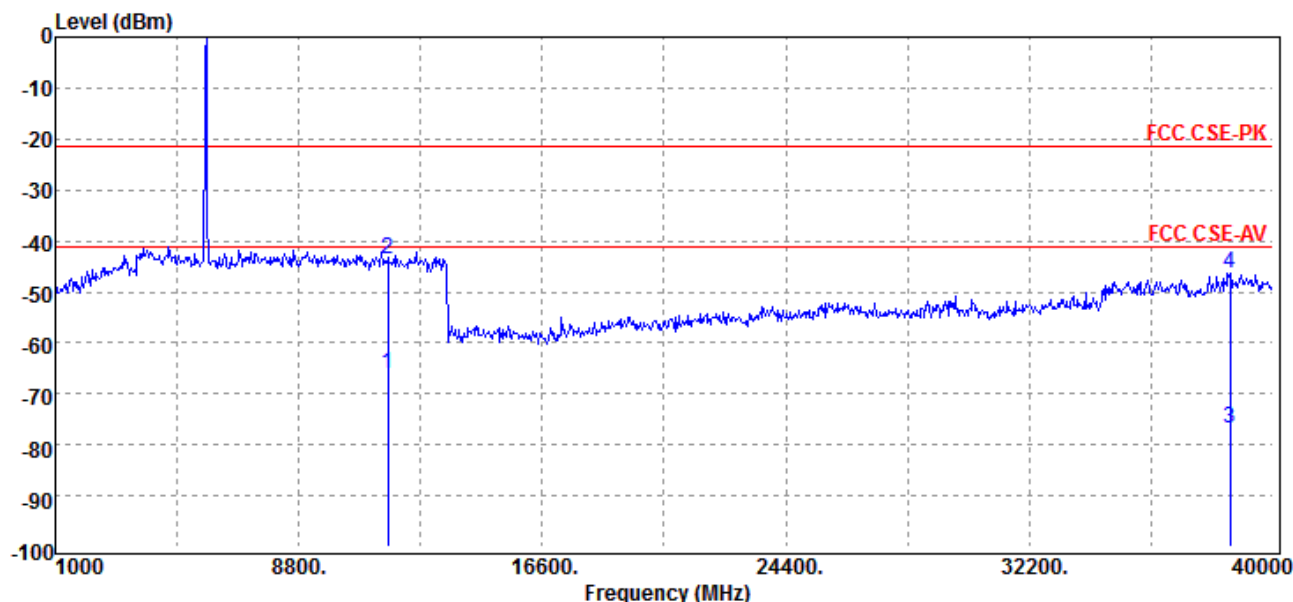
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Member of SGS Group

Operation Band :802.11aB4
Fundamental Frequency :5825 MHz
cy
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11650.00	Average	-66.11	-41.3	-24.82
11650.00	Peak	-43.68	-21.3	-22.39
38635.00	Average	-76.81	-41.3	-35.52
38635.00	Peak	-46.45	-21.3	-25.16

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t (886-2) 2299-3279

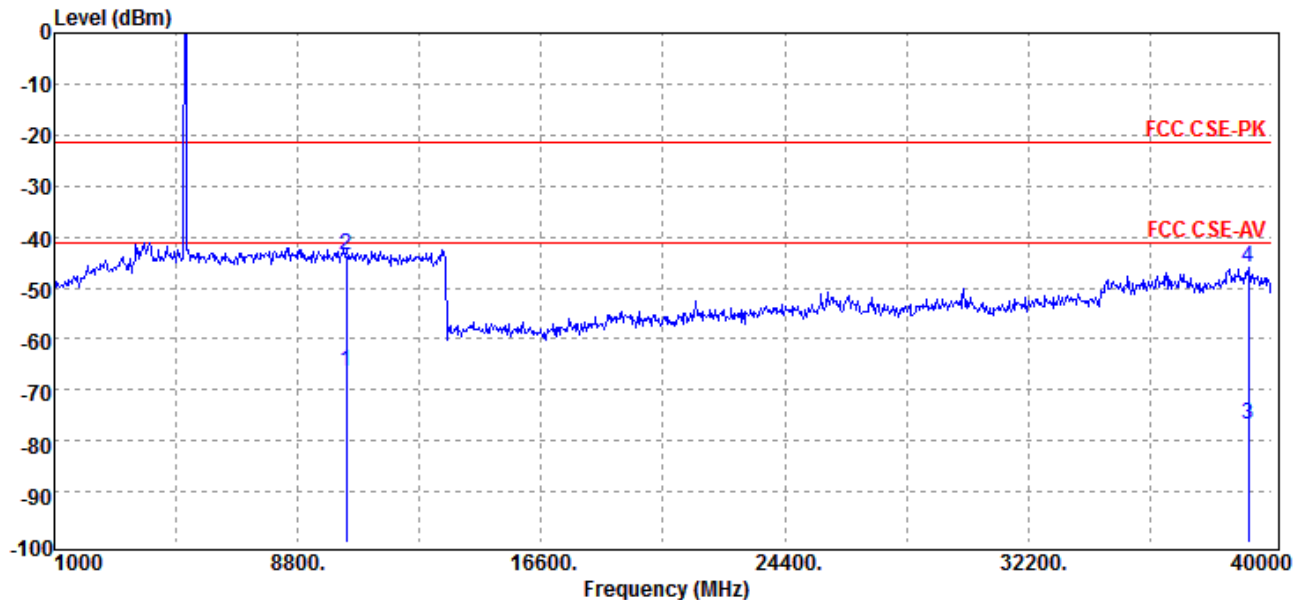
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20B1
Fundamental Frequency :5180 MHz
cy
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10360.00	Average	-66.38	-41.3	-25.09
10360.00	Peak	-43.65	-21.3	-22.36
39259.00	Average	-76.75	-41.3	-35.46
39259.00	Peak	-46.00	-21.3	-24.71

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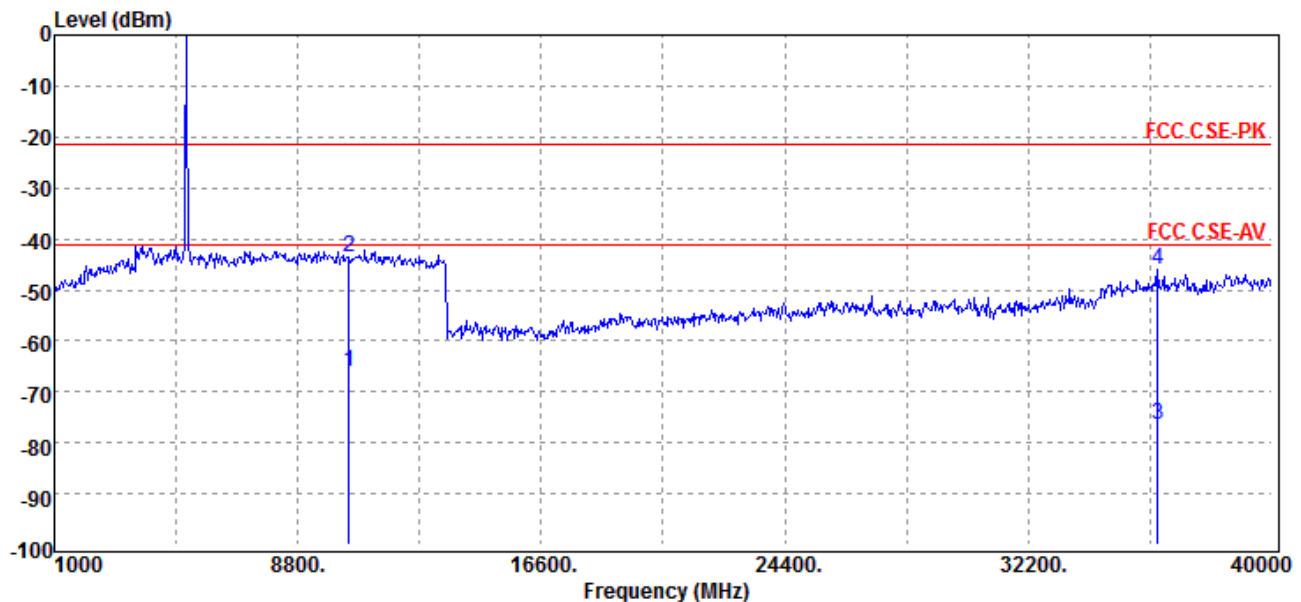
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20B1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10440.00	Average	-66.17	-41.3	-24.88
10440.00	Peak	-43.71	-21.3	-22.42
36334.00	Average	-76.34	-41.3	-35.05
36334.00	Peak	-45.97	-21.3	-24.68

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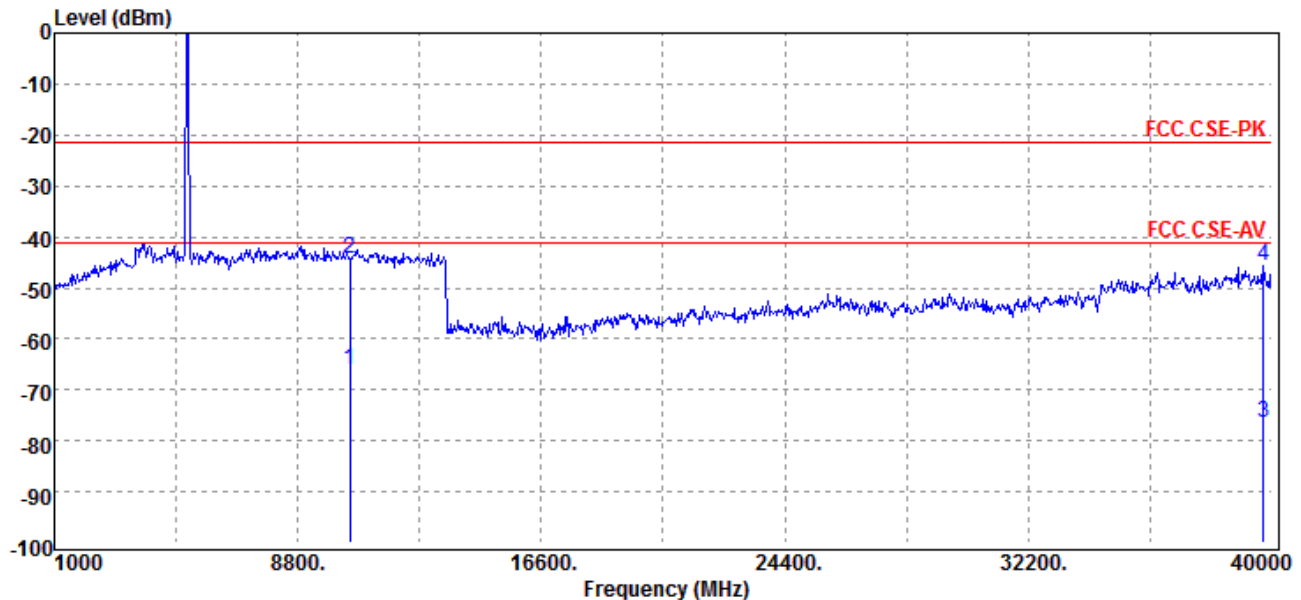
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20B1
Fundamental Frequen- :5240 MHz
cy
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10480.00	Average	-66.25	-41.3	-24.96
10480.00	Peak	-44.29	-21.3	-23.00
39727.00	Average	-76.42	-41.3	-35.13
39727.00	Peak	-45.72	-21.3	-24.43

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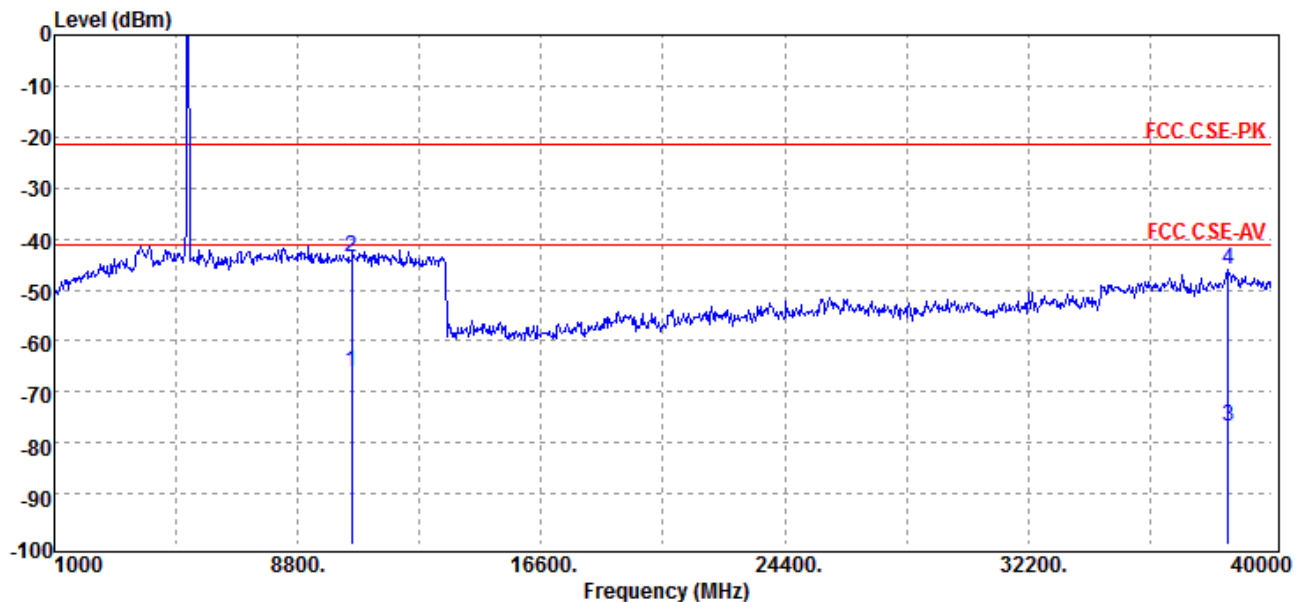
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20B2
Fundamental Frequency :5260 MHz
cy
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10520.00	Average	-66.15	-41.3	-24.86
10520.00	Peak	-43.55	-21.3	-22.26
38596.00	Average	-76.95	-41.3	-35.66
38596.00	Peak	-45.95	-21.3	-24.66

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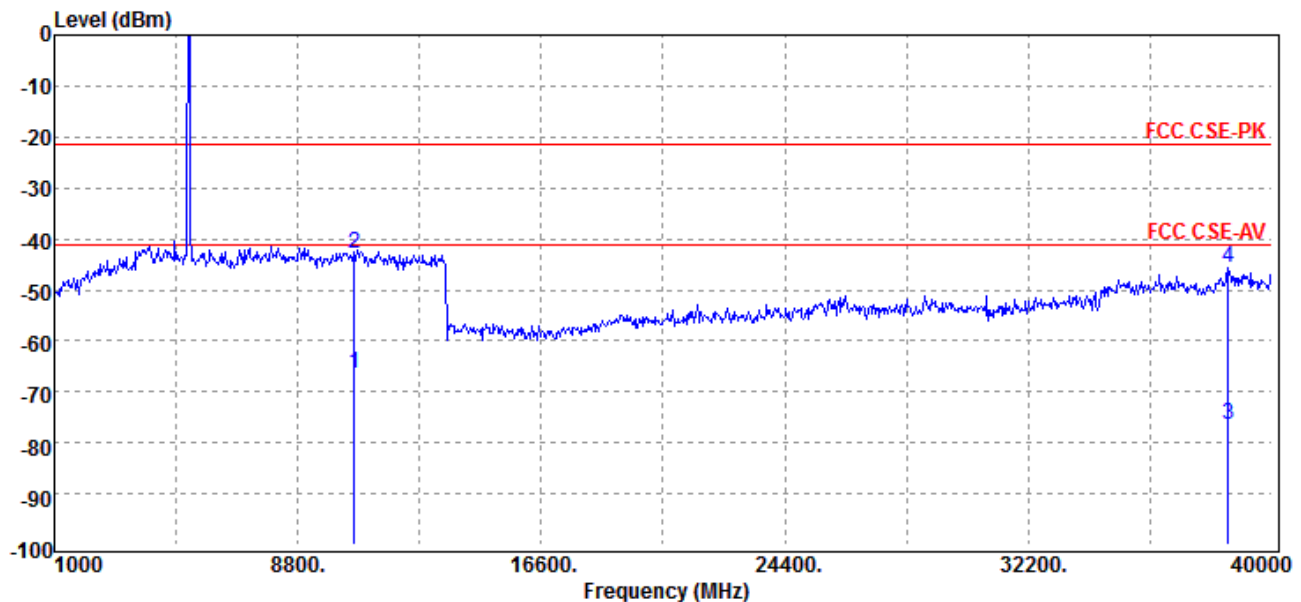
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20B2
Fundamental Frequency :5300 MHz
cy
Operation Mode :Tx CH MID

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10600.00	Average	-66.28	-41.3	-24.99
10600.00	Peak	-42.74	-21.3	-21.45
38596.00	Average	-76.52	-41.3	-35.23
38596.00	Peak	-45.52	-21.3	-24.23

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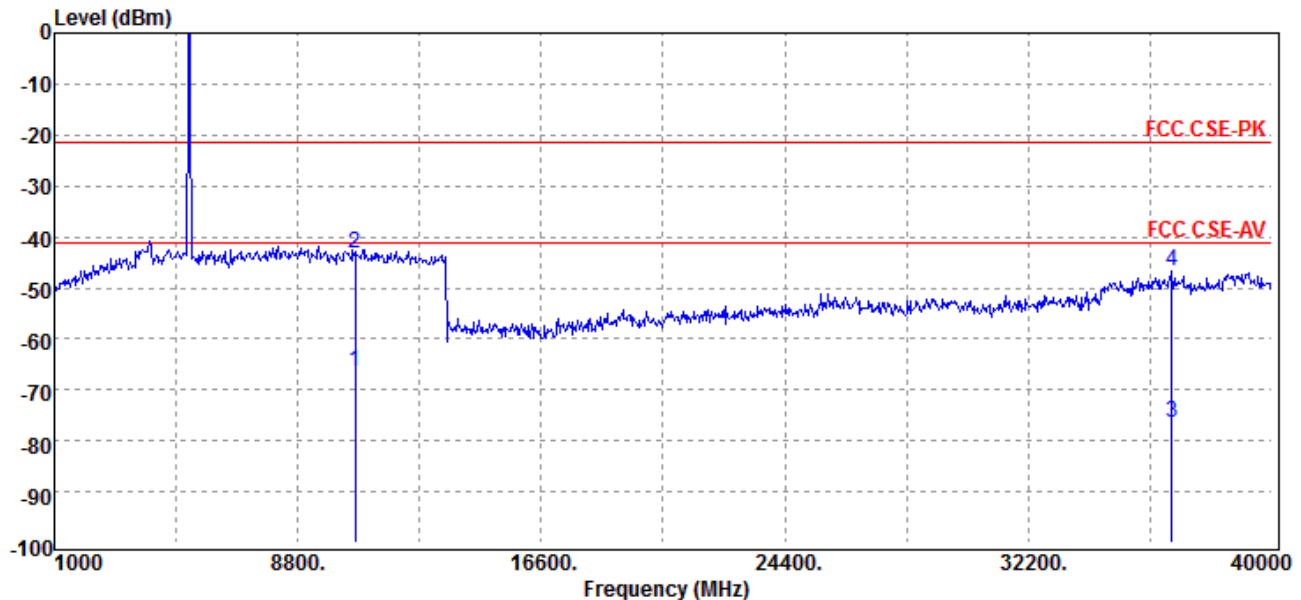
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20B2
Fundamental Frequency :5320 MHz
cy
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10640.00	Average	-66.58	-41.3	-25.29
10640.00	Peak	-43.15	-21.3	-21.86
36802.00	Average	-76.60	-41.3	-35.31
36802.00	Peak	-46.60	-21.3	-25.31

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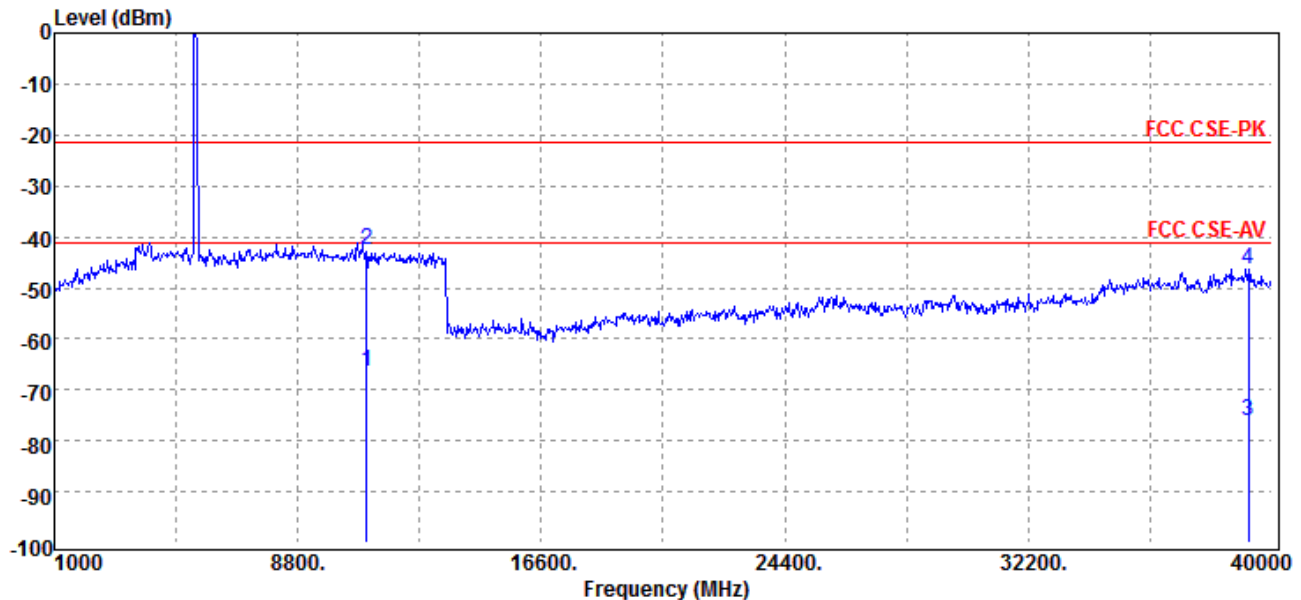
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20B3
Fundamental Frequency :5500 MHz
cy
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11000.00	Average	-66.31	-41.3	-25.02
11000.00	Peak	-42.63	-21.3	-21.34
39259.00	Average	-76.21	-41.3	-34.92
39259.00	Peak	-46.21	-21.3	-24.92

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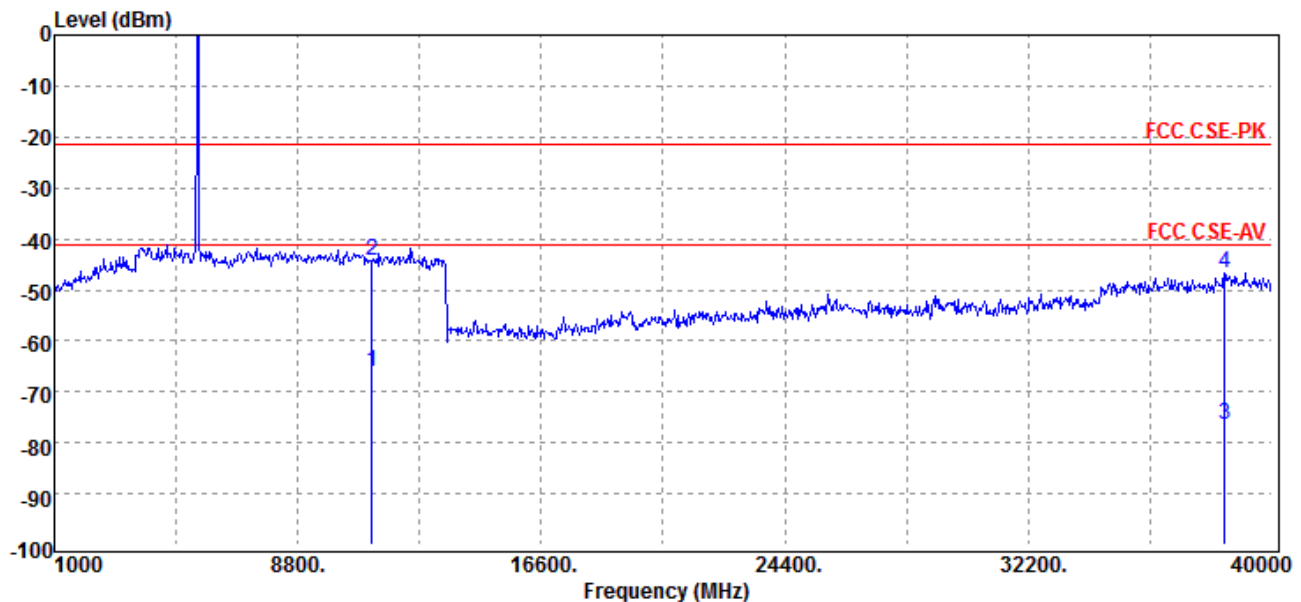
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Member of SGS Group

Operation Band :802.11n20B3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11160.00	Average	-66.07	-41.3	-24.78
11160.00	Peak	-44.24	-21.3	-22.95
38479.00	Average	-76.56	-41.3	-35.27
38479.00	Peak	-46.56	-21.3	-25.27

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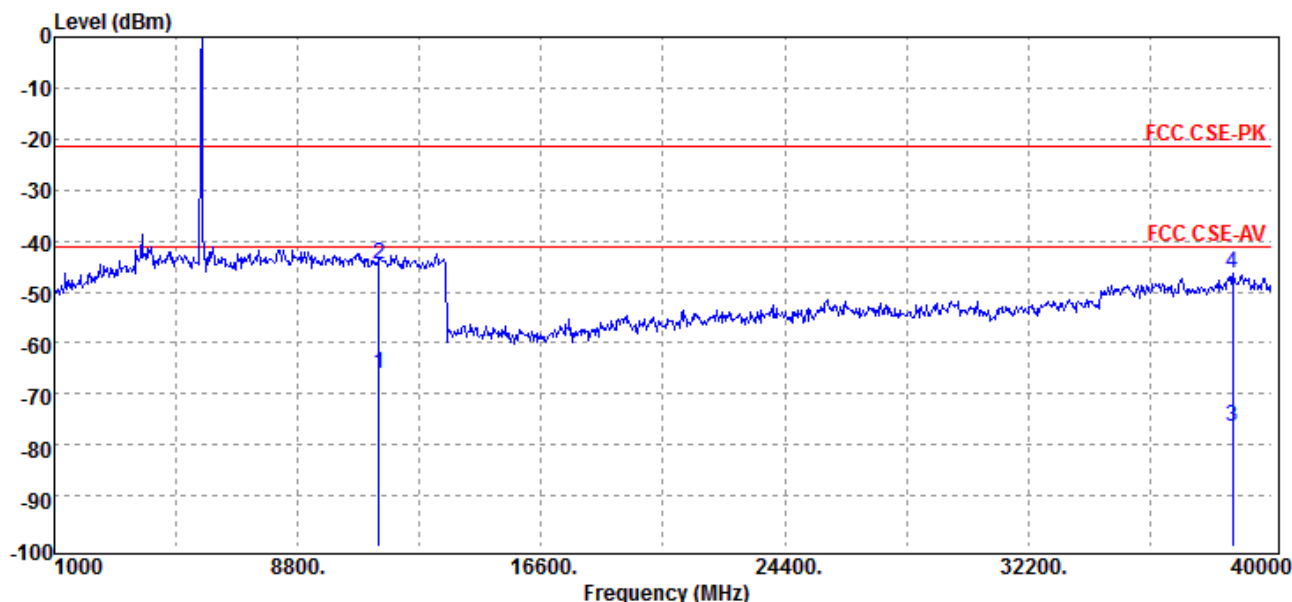
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20B3
Fundamental Frequency :5700 MHz
cy
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11400.00	Average	-66.09	-41.3	-24.80
11400.00	Peak	-44.59	-21.3	-23.30
38752.00	Average	-76.34	-41.3	-35.05
38752.00	Peak	-46.34	-21.3	-25.05

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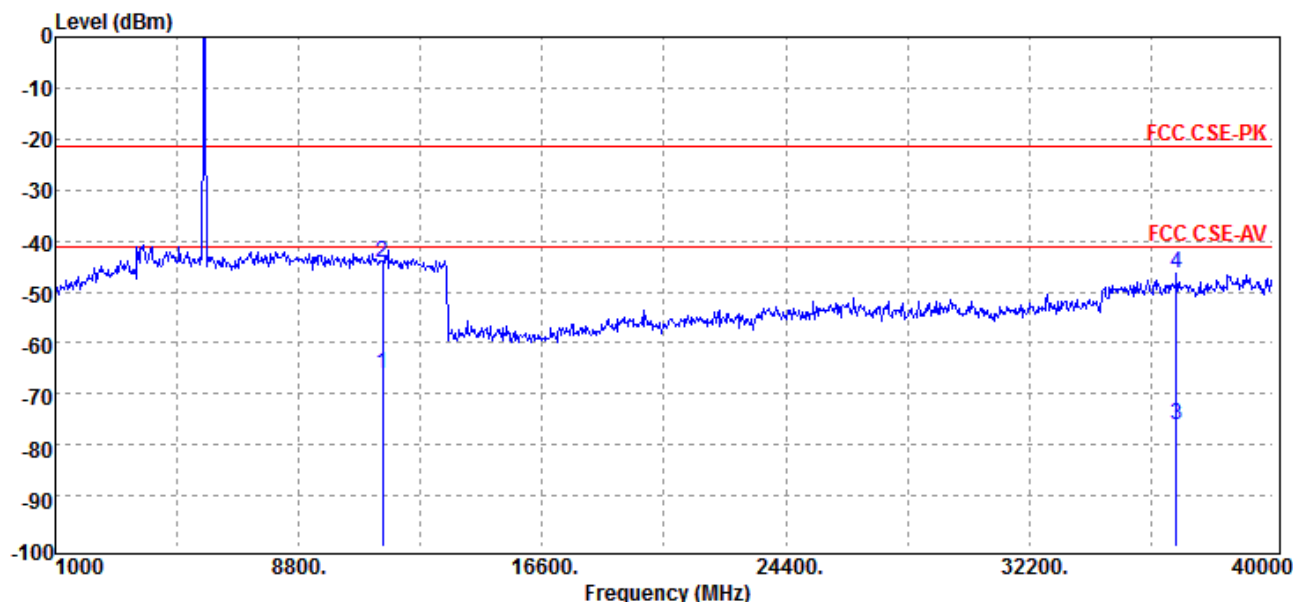
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Member of SGS Group

Operation Band :802.11n20B4
Fundamental Frequen- :5745 MHz
cy
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11490.00	Average	-66.24	-41.3	-24.95
11490.00	Peak	-44.32	-21.3	-23.03
36919.00	Average	-76.28	-41.3	-34.99
36919.00	Peak	-46.28	-21.3	-24.99

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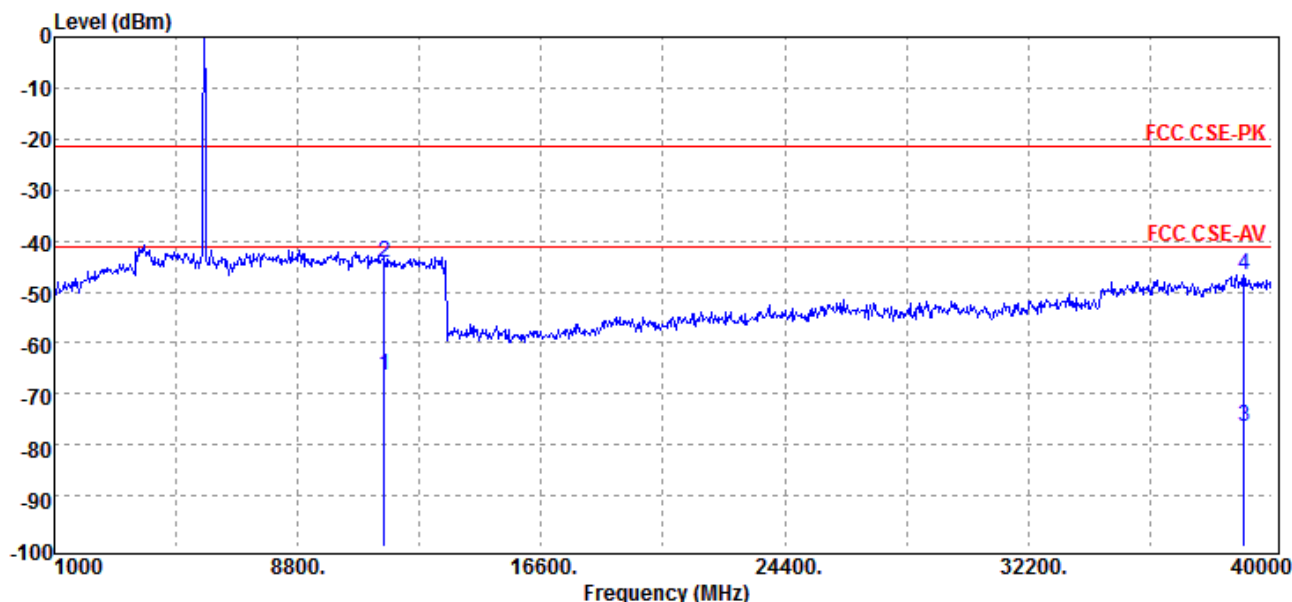
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Member of SGS Group

Operation Band :802.11n20B4
Fundamental Frequency :5785 MHz
cy
Operation Mode :Tx CH MID

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11570.00	Average	-66.29	-41.3	-25.00
11570.00	Peak	-44.18	-21.3	-22.89
39103.00	Average	-76.55	-41.3	-35.26
39103.00	Peak	-46.55	-21.3	-25.26

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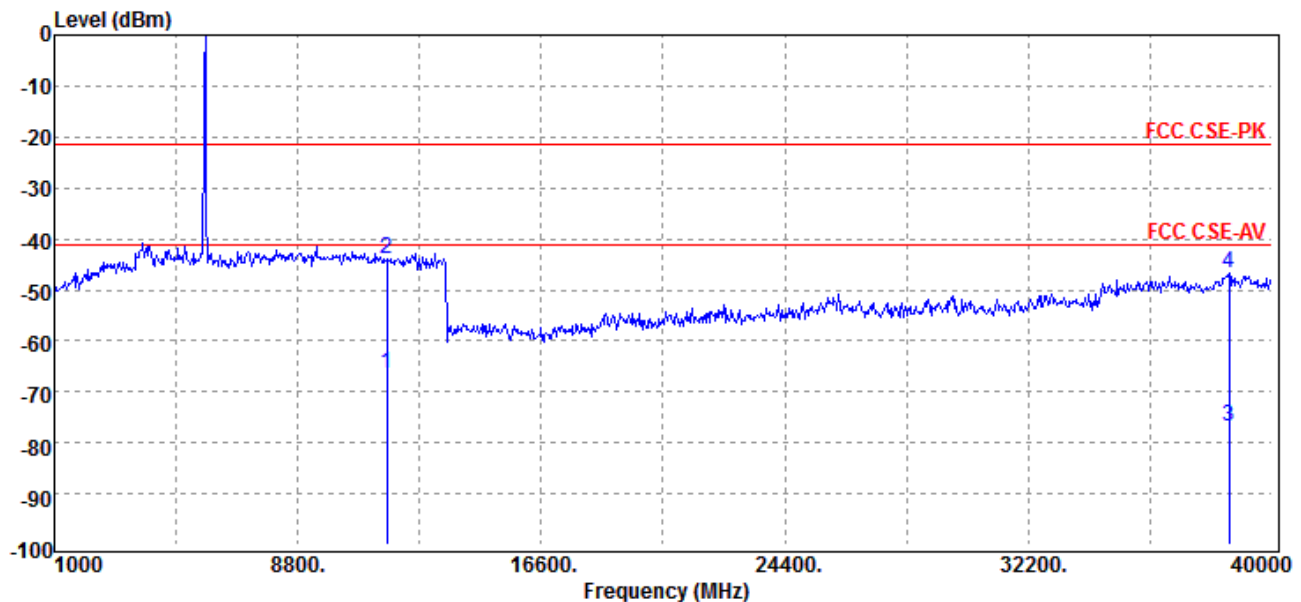
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20B4
Fundamental Frequency :5825 MHz
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11650.00	Average	-66.31	-41.3	-25.02
11650.00	Peak	-43.94	-21.3	-22.65
38635.00	Average	-76.70	-41.3	-35.41
38635.00	Peak	-46.70	-21.3	-25.41

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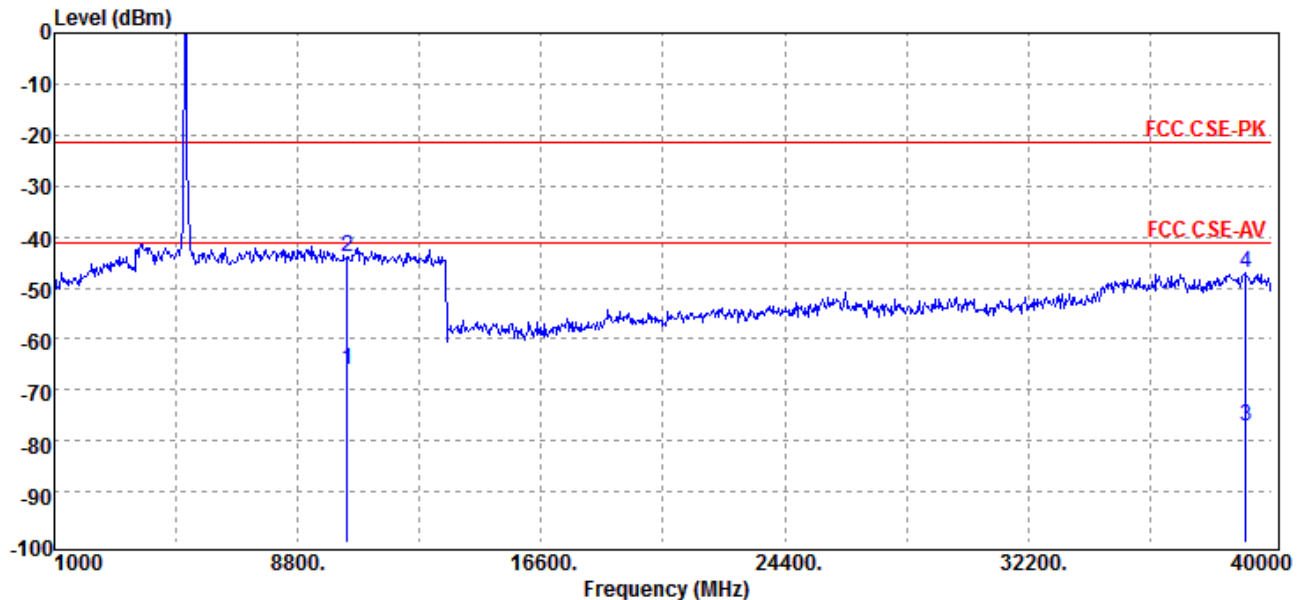
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n40B1
Fundamental Frequency :5190 MHz
cy
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10380.00	Average	-66.25	-41.3	-24.96
10380.00	Peak	-43.95	-21.3	-22.66
39181.00	Average	-77.14	-41.3	-35.85
39181.00	Peak	-47.18	-21.3	-25.89

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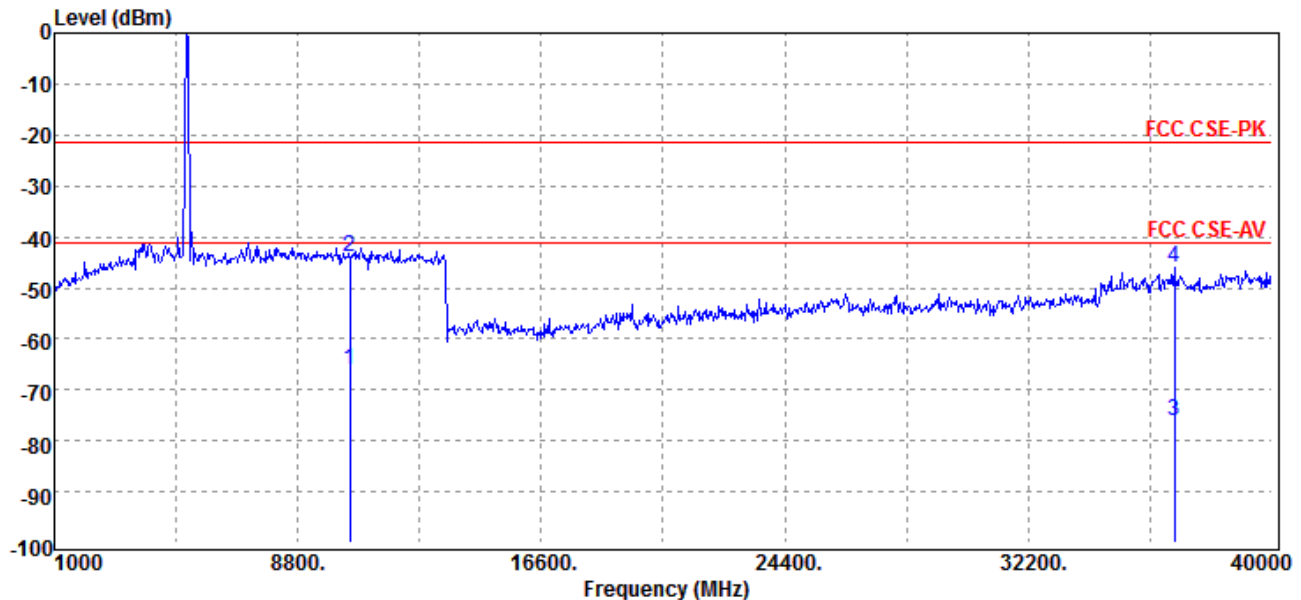
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Member of SGS Group

Operation Band :802.11n40B1
Fundamental Frequency :5230 MHz
cy
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10460.00	Average	-66.18	-41.3	-24.89
10460.00	Peak	-43.92	-21.3	-22.63
36880.00	Average	-76.02	-41.3	-34.73
36880.00	Peak	-46.02	-21.3	-24.73

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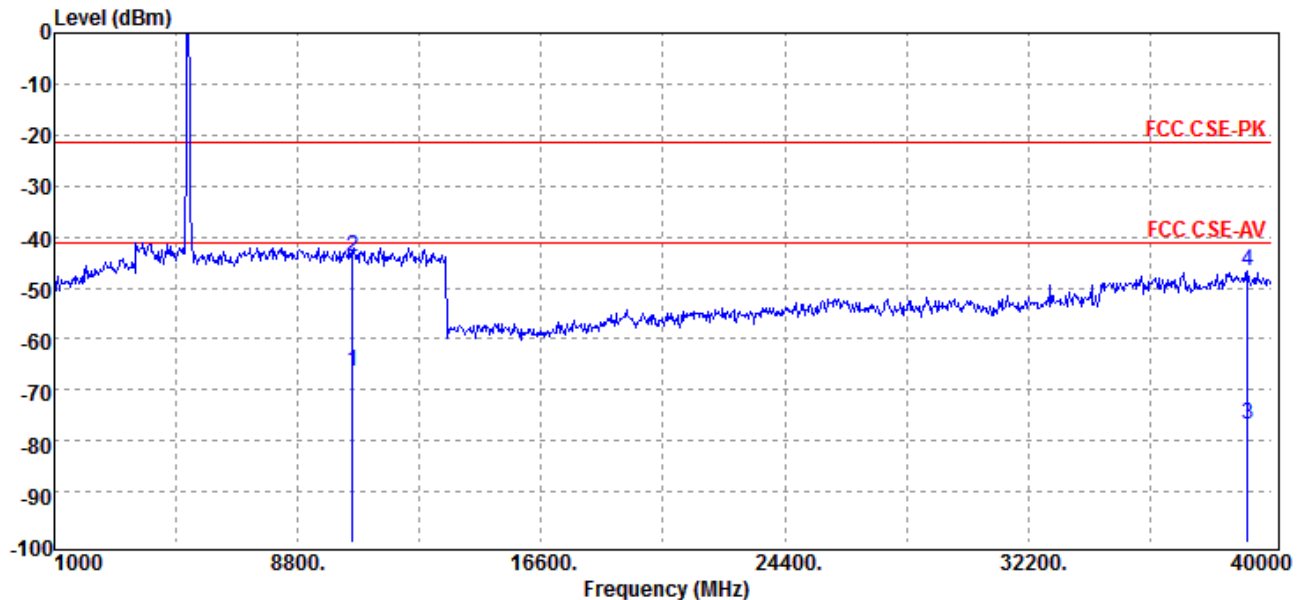
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n40B2
Fundamental Frequency :5270 MHz
cy
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10540.00	Average	-66.42	-41.3	-25.13
10540.00	Peak	-43.88	-21.3	-22.59
39220.00	Average	-76.80	-41.3	-35.51
39220.00	Peak	-46.82	-21.3	-25.53

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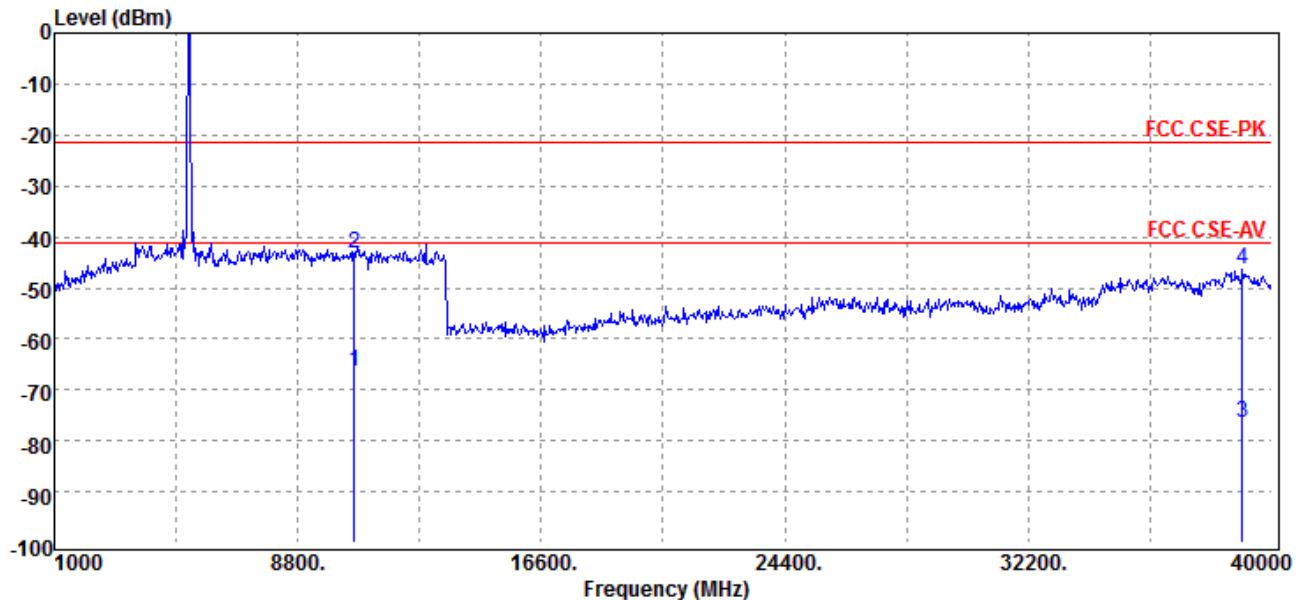
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n40B2
Fundamental Frequency :5310 MHz
cy
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10620.00	Average	-66.43	-41.3	-25.14
10620.00	Peak	-43.39	-21.3	-22.10
39064.00	Average	-76.48	-41.3	-35.19
39064.00	Peak	-46.48	-21.3	-25.19

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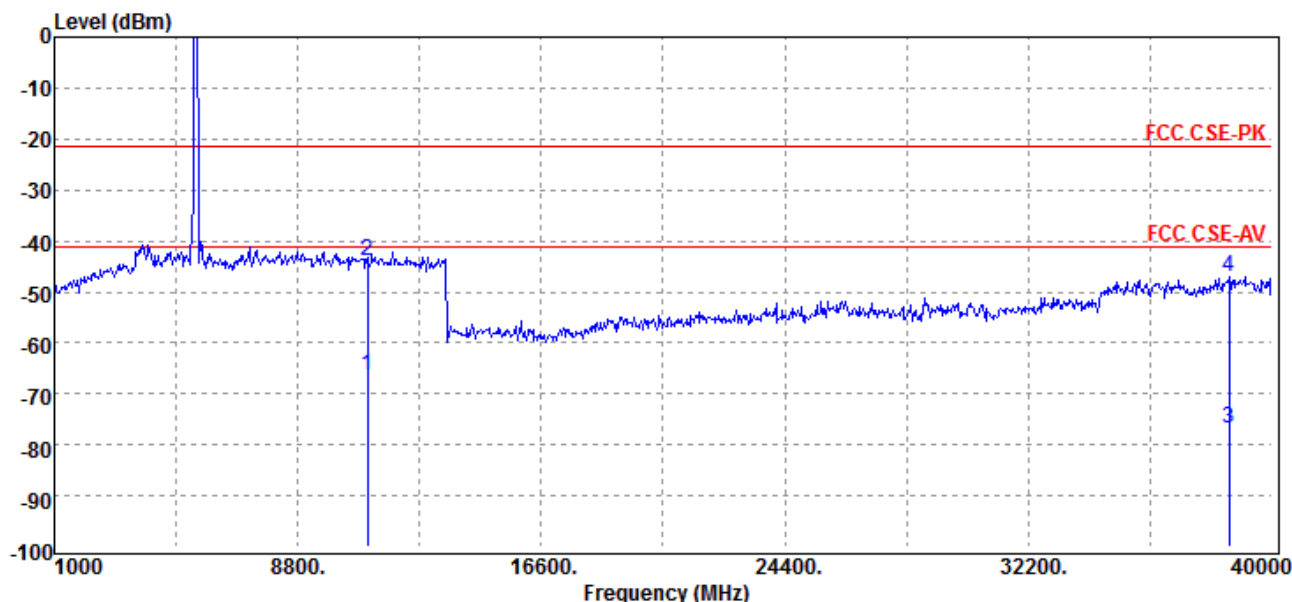
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n40B3
Fundamental Frequency :5510 MHz
cy
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11020.00	Average	-66.43	-41.3	-25.14
11020.00	Peak	-44.00	-21.3	-22.71
38635.00	Average	-76.92	-41.3	-35.63
38635.00	Peak	-46.93	-21.3	-25.64

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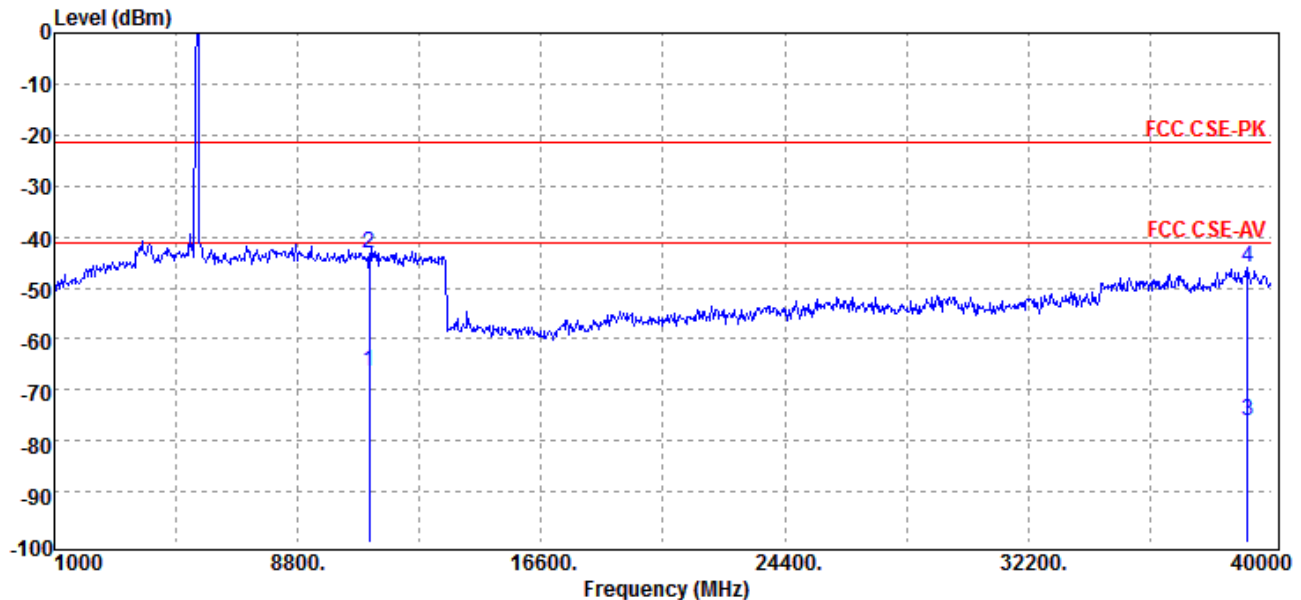
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n40B3
Fundamental Frequency :5550 MHz
cy
Operation Mode :Tx CH MID

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11100.00	Average	-66.53	-41.3	-25.24
11100.00	Peak	-43.20	-21.3	-21.91
39220.00	Average	-76.08	-41.3	-34.79
39220.00	Peak	-46.13	-21.3	-24.84

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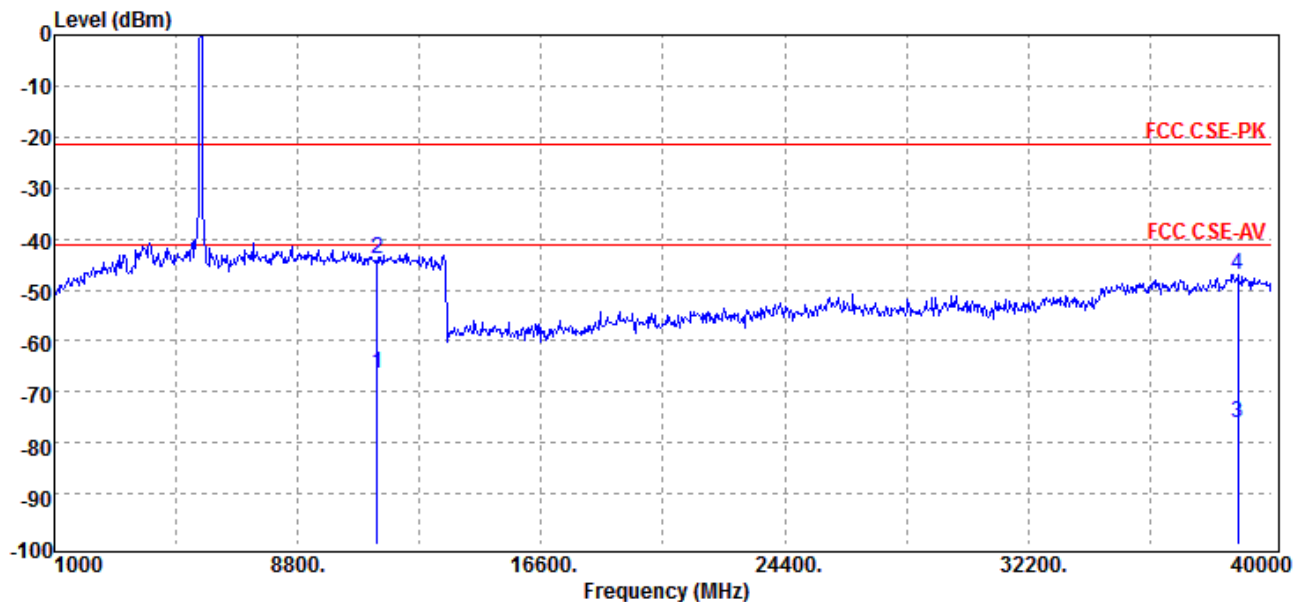
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Member of SGS Group

Operation Band :802.11n40B3
Fundamental Frequency :5670 MHz
cy
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11340.00	Average	-66.36	-41.3	-25.07
11340.00	Peak	-43.92	-21.3	-22.63
38908.00	Average	-76.15	-41.3	-34.86
38908.00	Peak	-46.91	-21.3	-25.62

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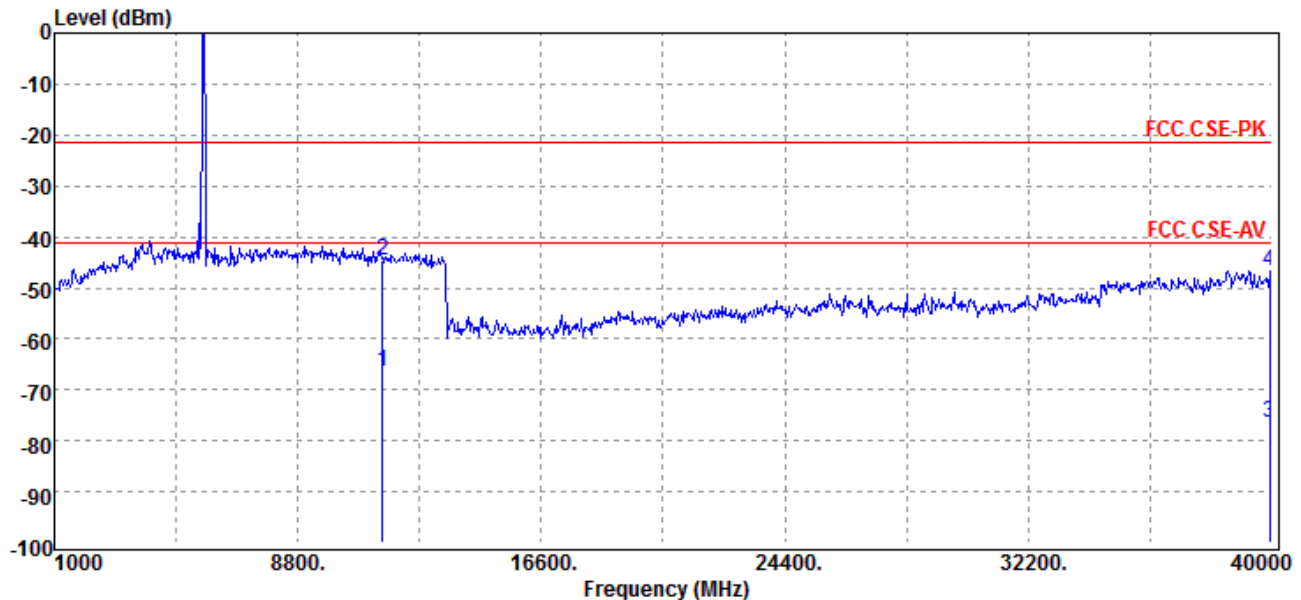
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Member of SGS Group

Operation Band :802.11n40B4
Fundamental Frequency :5755 MHz
cy
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11510.00	Average	-66.39	-41.3	-25.10
11510.00	Peak	-44.76	-21.3	-23.47
39922.00	Average	-76.62	-41.3	-35.33
39922.00	Peak	-46.61	-21.3	-25.32

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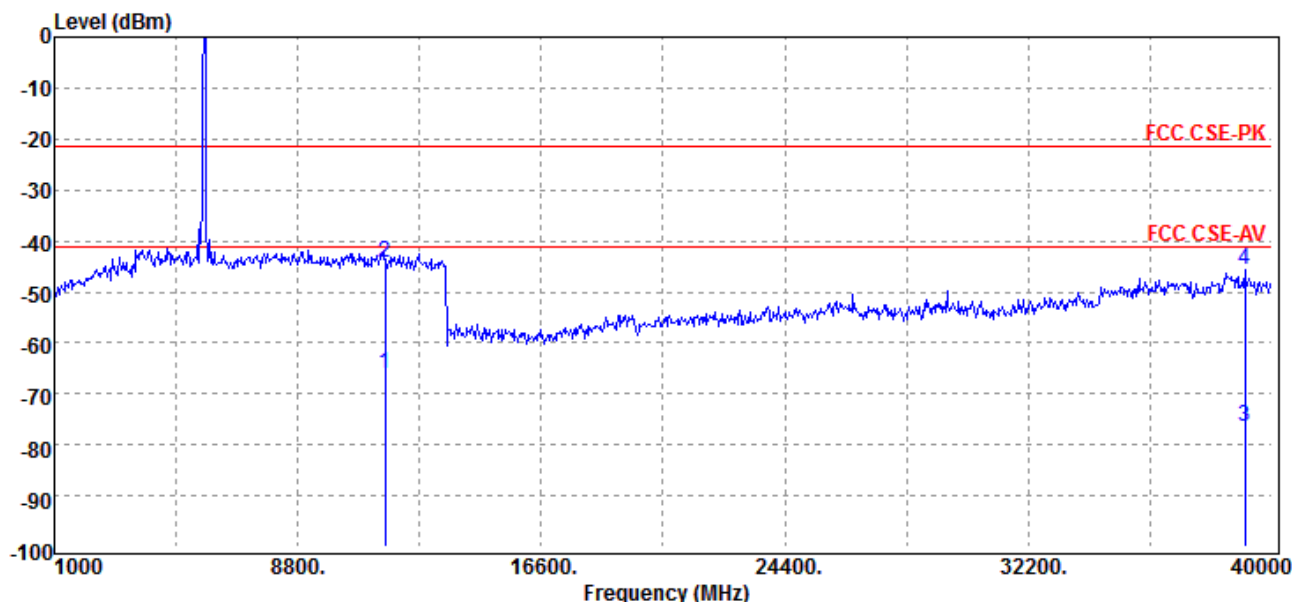
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Member of SGS Group

Operation Band :802.11n40B4
Fundamental Frequency :5795 MHz
cy
Operation Mode :Tx CH MID

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11590.00	Average	-66.16	-41.3	-24.87
11590.00	Peak	-44.13	-21.3	-22.84
39142.00	Average	-76.45	-41.3	-35.16
39142.00	Peak	-45.65	-21.3	-24.36

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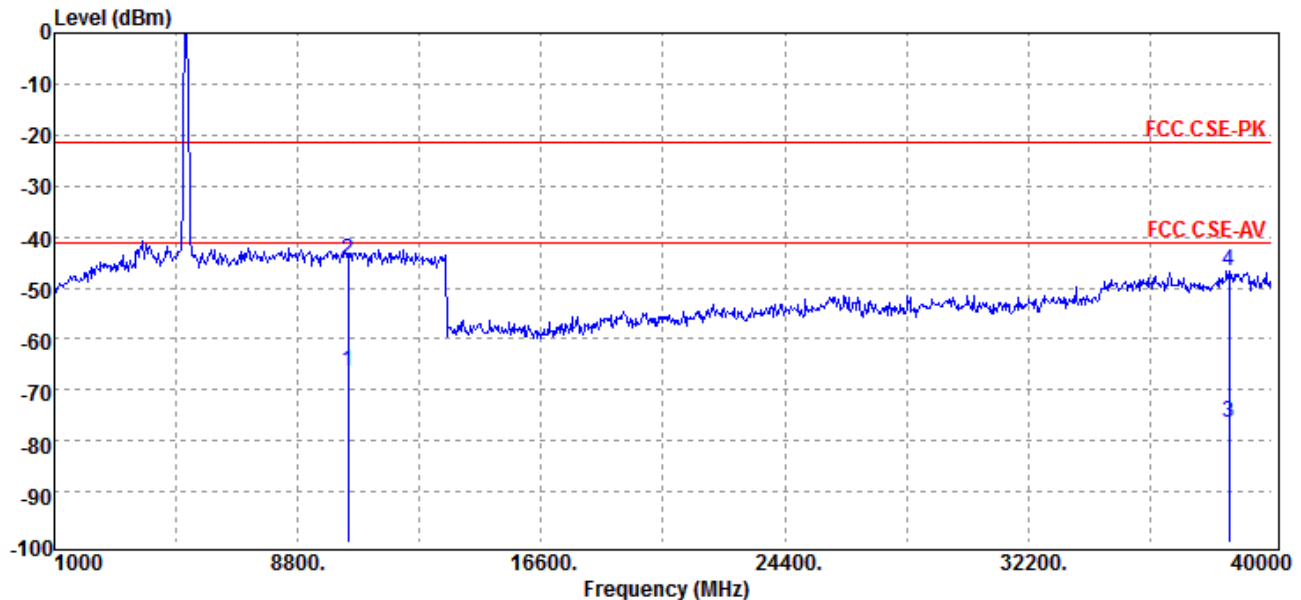
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Member of SGS Group

Operation Band :802.11ac80B1
Fundamental Frequency :5210 MHz
cy
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10420.00	Average	-66.49	-41.3	-25.20
10420.00	Peak	-44.66	-21.3	-23.37
38635.00	Average	-76.53	-41.3	-35.24
38635.00	Peak	-46.59	-21.3	-25.30

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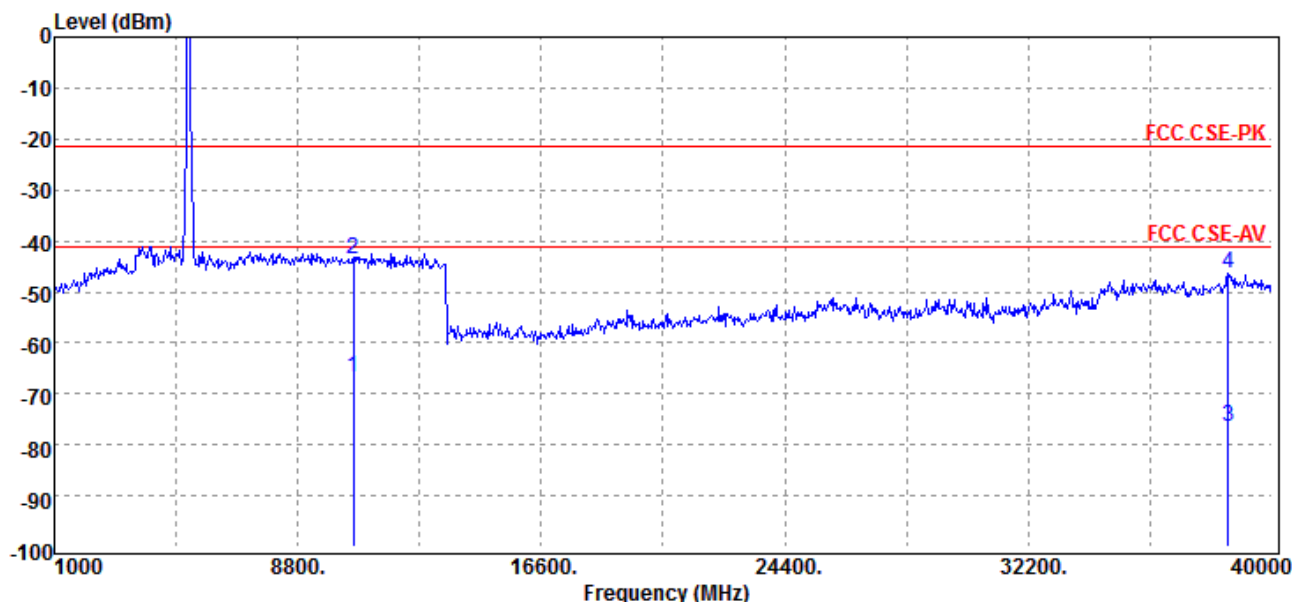
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11ac80B2
Fundamental Frequency :5290 MHz
cy
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
10580.00	Average	-66.65	-41.3	-25.36
10580.00	Peak	-43.55	-21.3	-22.26
38596.00	Average	-76.47	-41.3	-35.18
38596.00	Peak	-46.52	-21.3	-25.23

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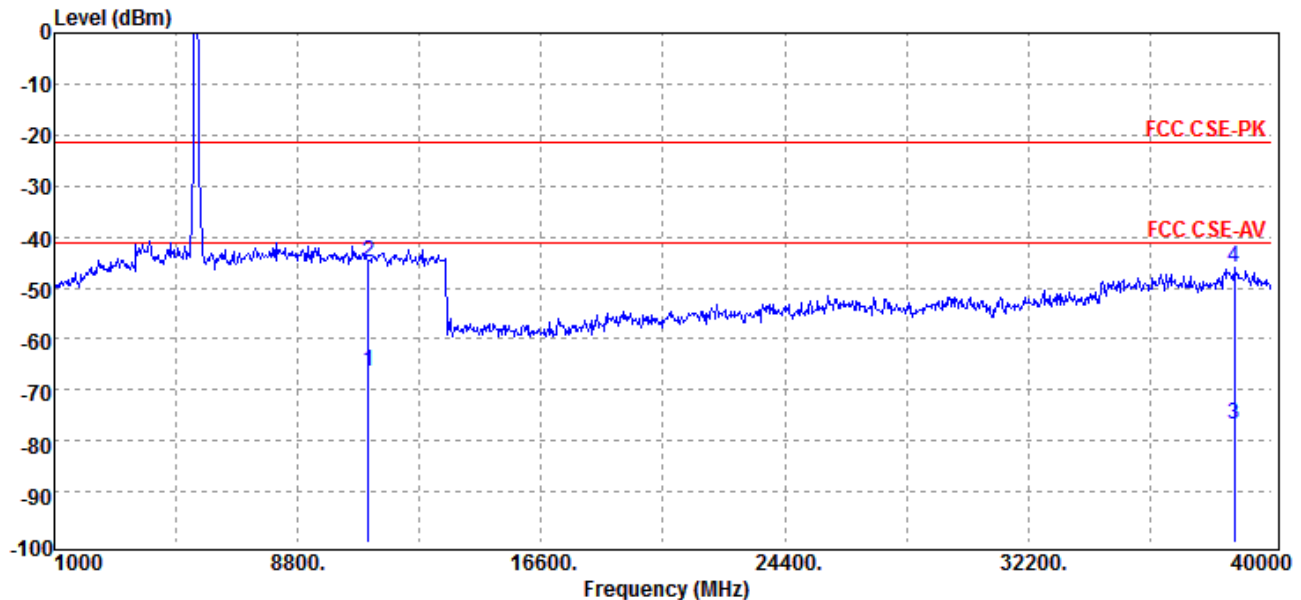
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11ac80B3
Fundamental Frequency :5530 MHz
cy
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11060.00	Average	-66.39	-41.3	-25.10
11060.00	Peak	-44.97	-21.3	-23.68
38791.00	Average	-76.89	-41.3	-35.60
38791.00	Peak	-45.88	-21.3	-24.59

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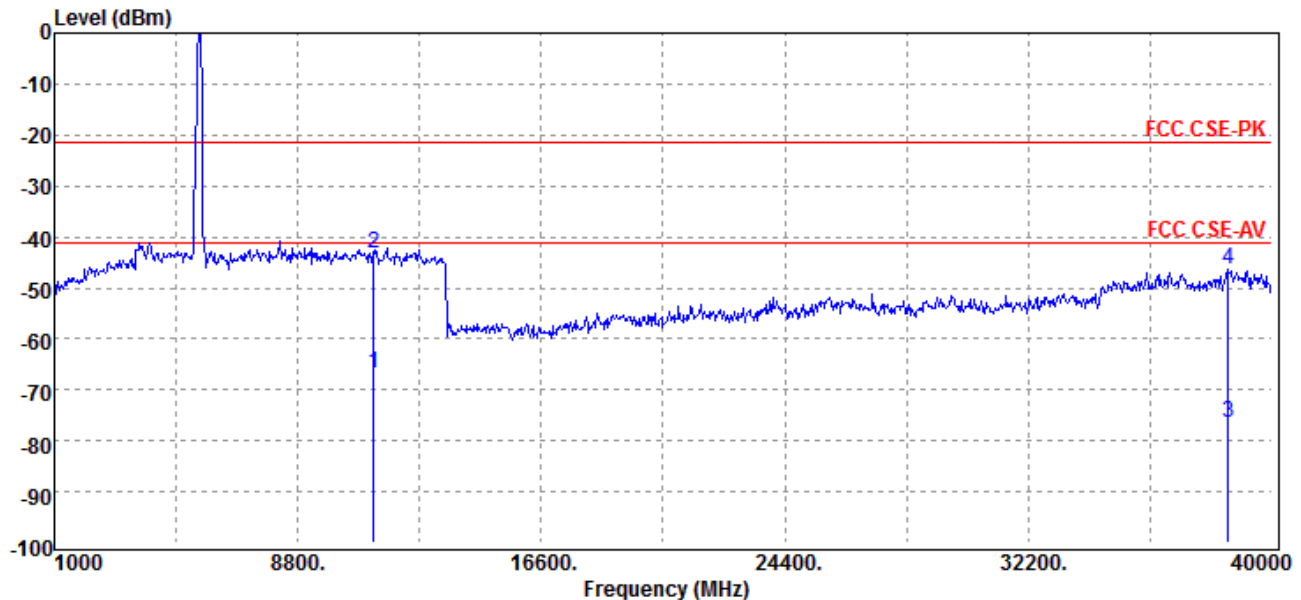
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11ac80B3
Fundamental Frequency :5610 MHz
cy
Operation Mode :Tx CH HIGH

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11220.00	Average	-66.63	-41.3	-25.34
11220.00	Peak	-43.21	-21.3	-21.92
38596.00	Average	-76.31	-41.3	-35.02
38596.00	Peak	-46.53	-21.3	-25.24

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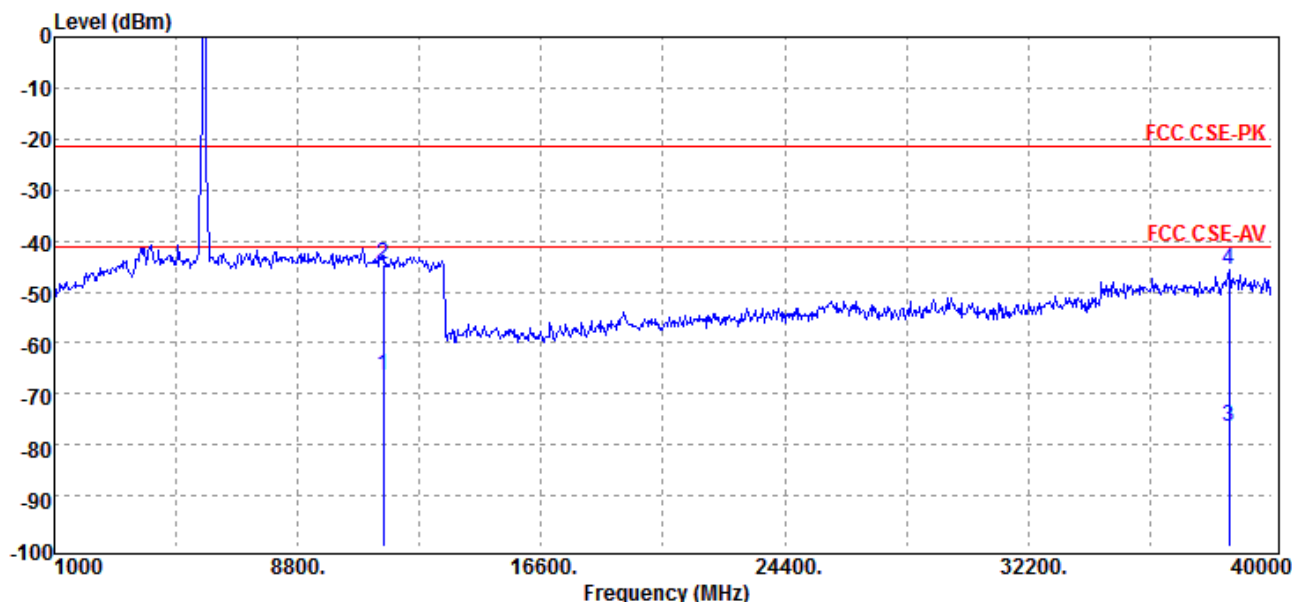
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11ac80B4
Fundamental Frequency :5775 MHz
cy
Operation Mode :Tx CH LOW

Test Date :2018-05-30
Temp./Humi. : 23 deg_C / 62 RH
Engineer :Mike



Freq. MHz	Detector Mode PK/QP/AV	ERP/EIRP dBm	Limit dBm	Margin dB
11550.00	Average	-66.45	-41.3	-25.16
11550.00	Peak	-44.49	-21.3	-23.20
38635.00	Average	-76.50	-41.3	-35.21
38635.00	Peak	-45.54	-21.3	-24.25

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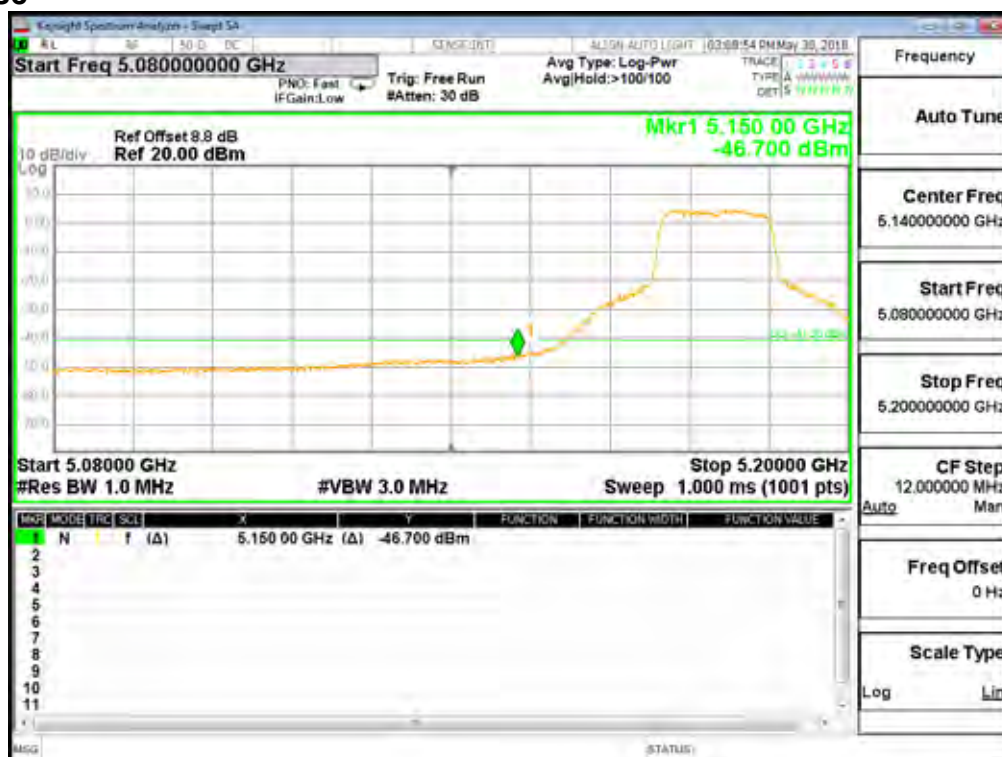
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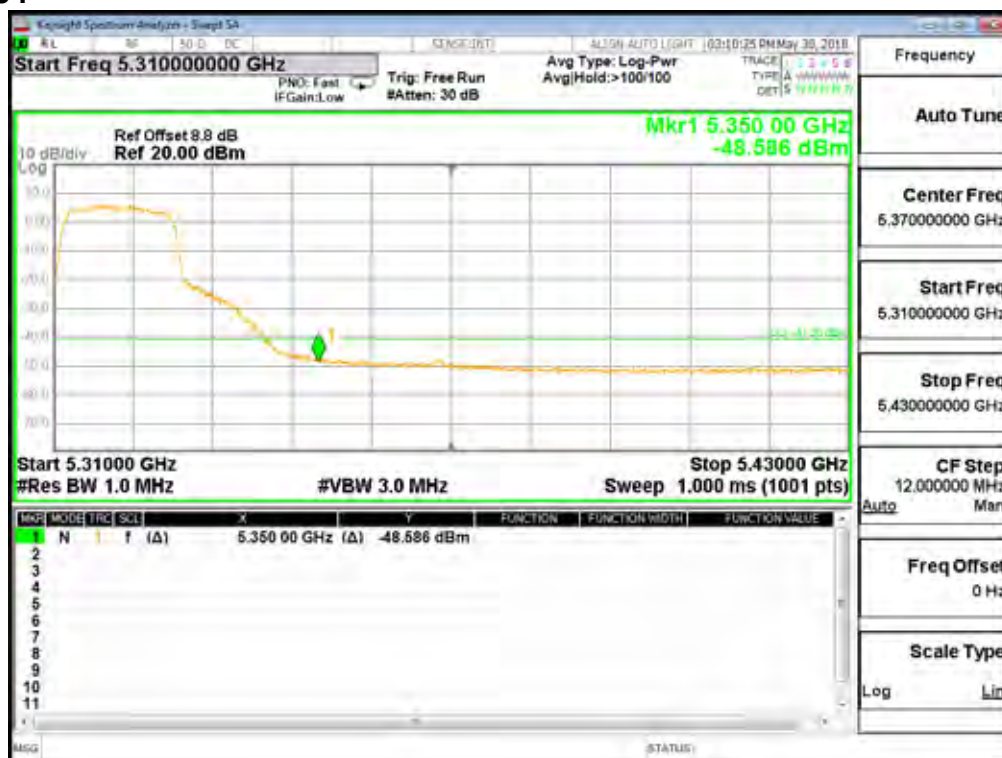
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Band edge falling to restricted band 802.11a CH36



802.11a CH64



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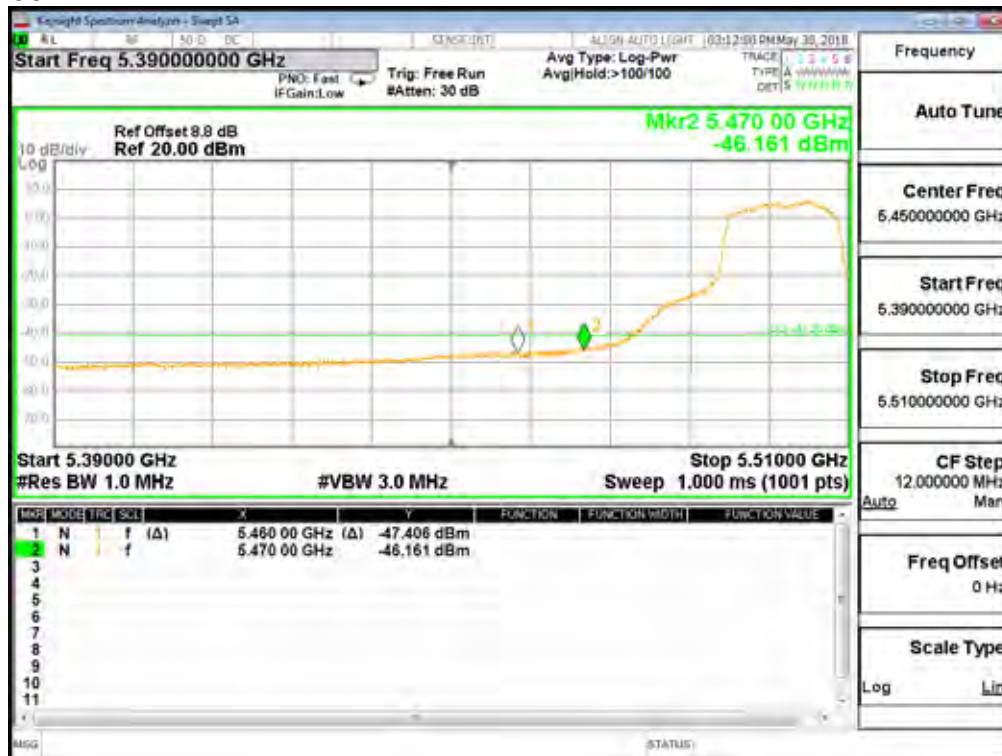
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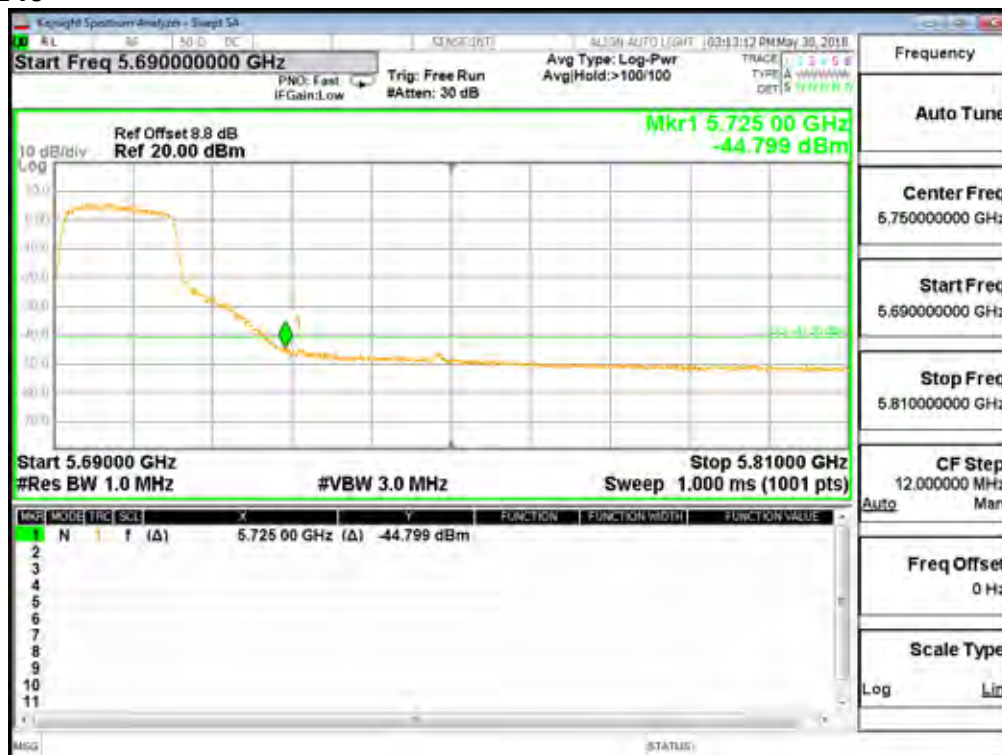
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802.11a CH100



802.11a CH140



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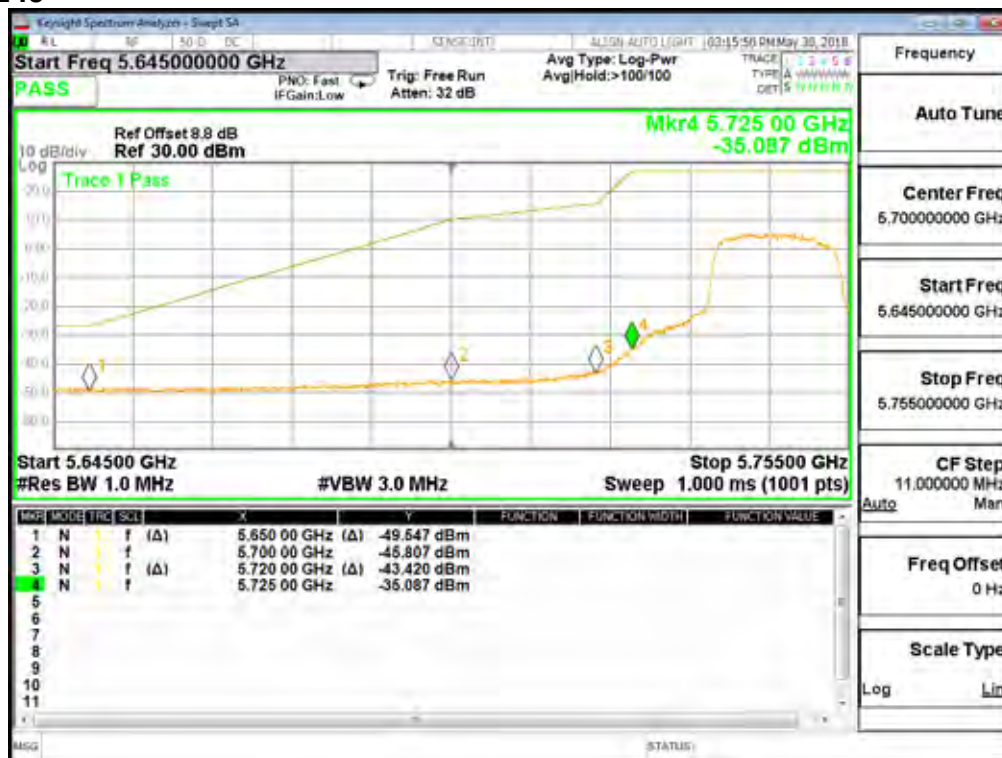
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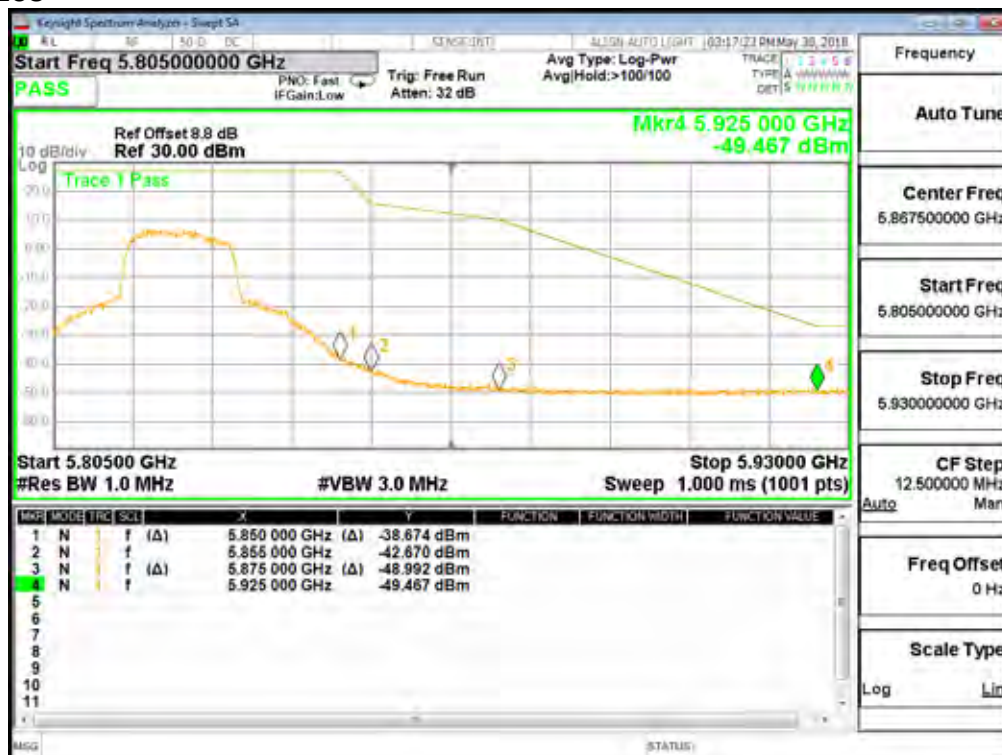
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802.11a CH149



802.11a CH165



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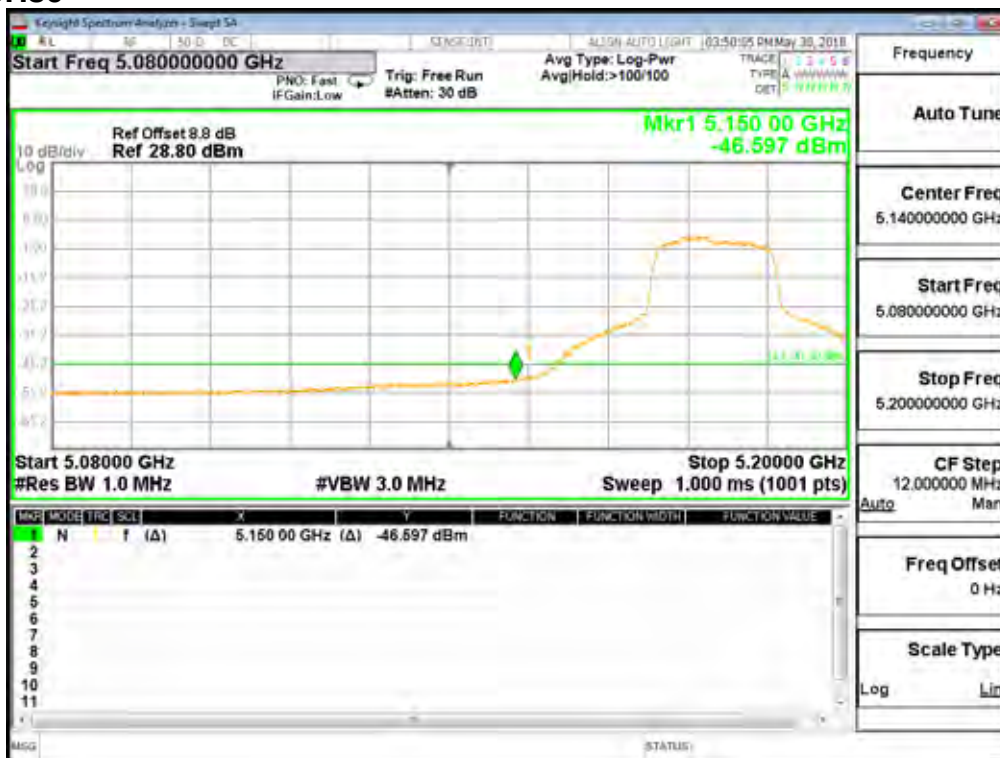
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802.11n20 CH36



802.11n20 CH64



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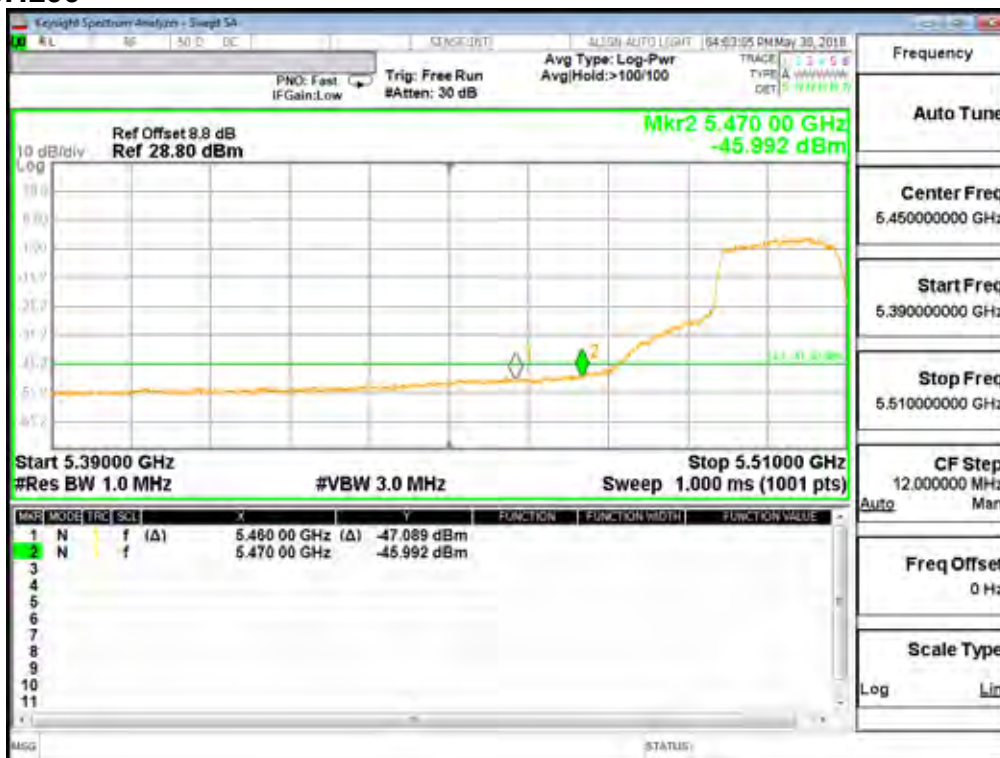
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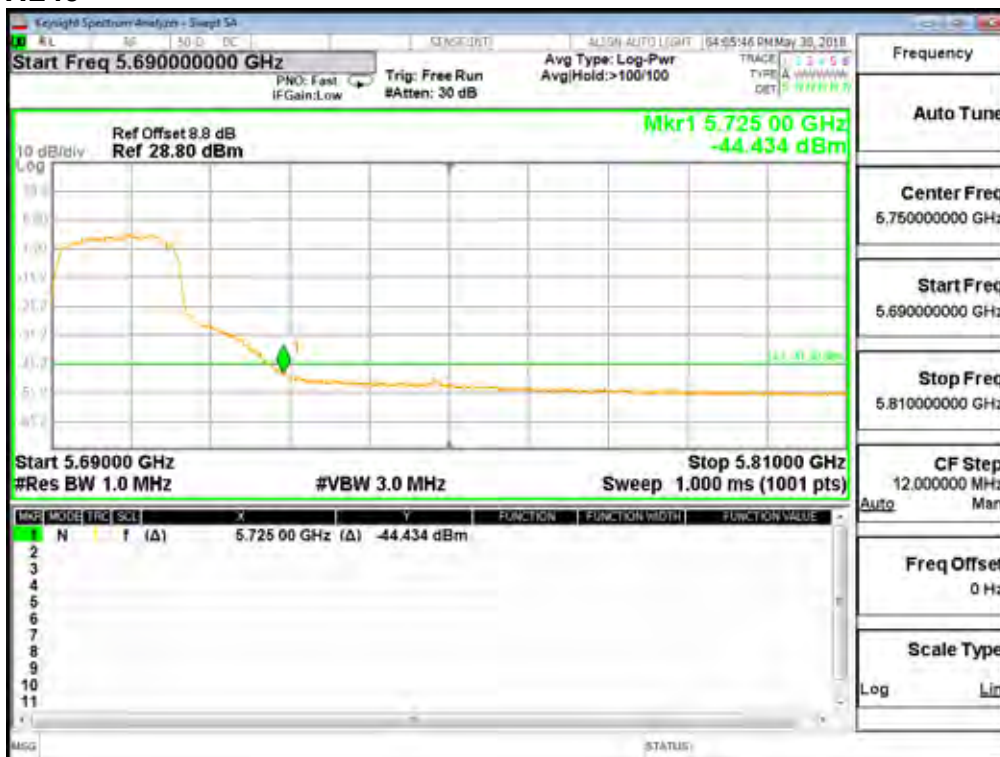
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802.11n20 CH100



802.11n20 CH140



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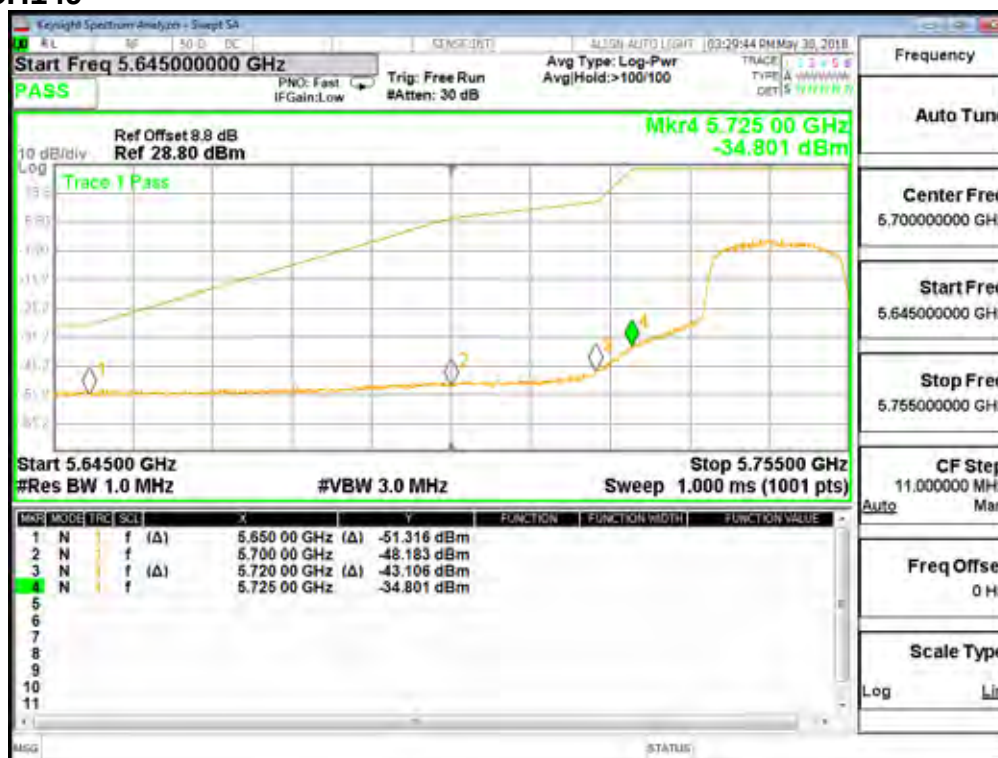
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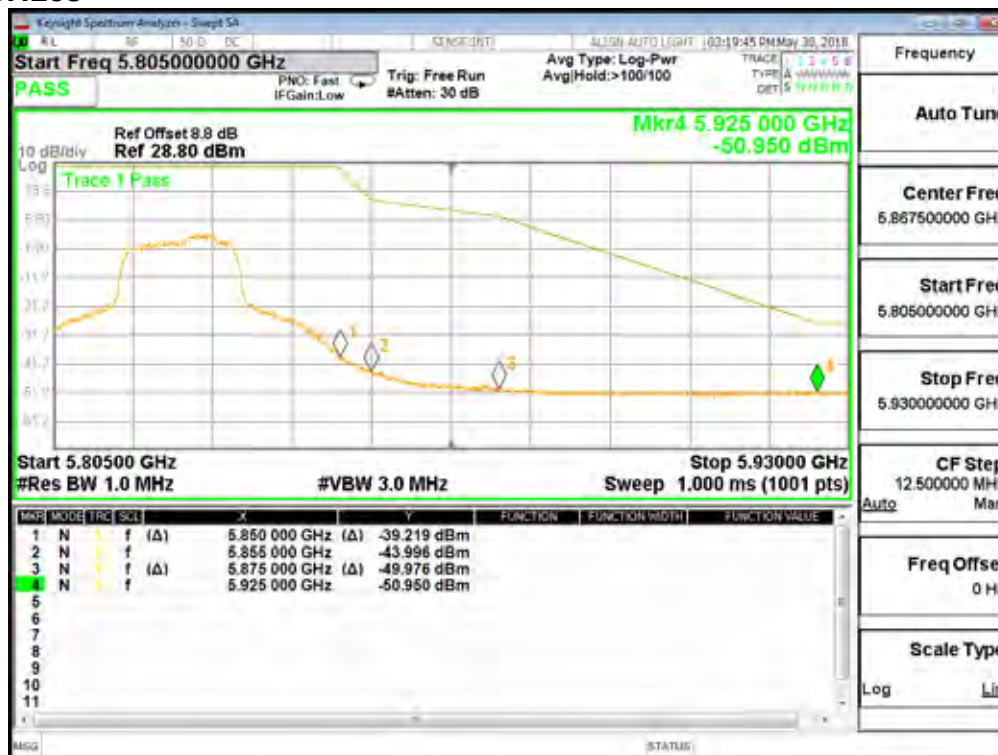
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802.11n20 CH149



802.11n20 CH165



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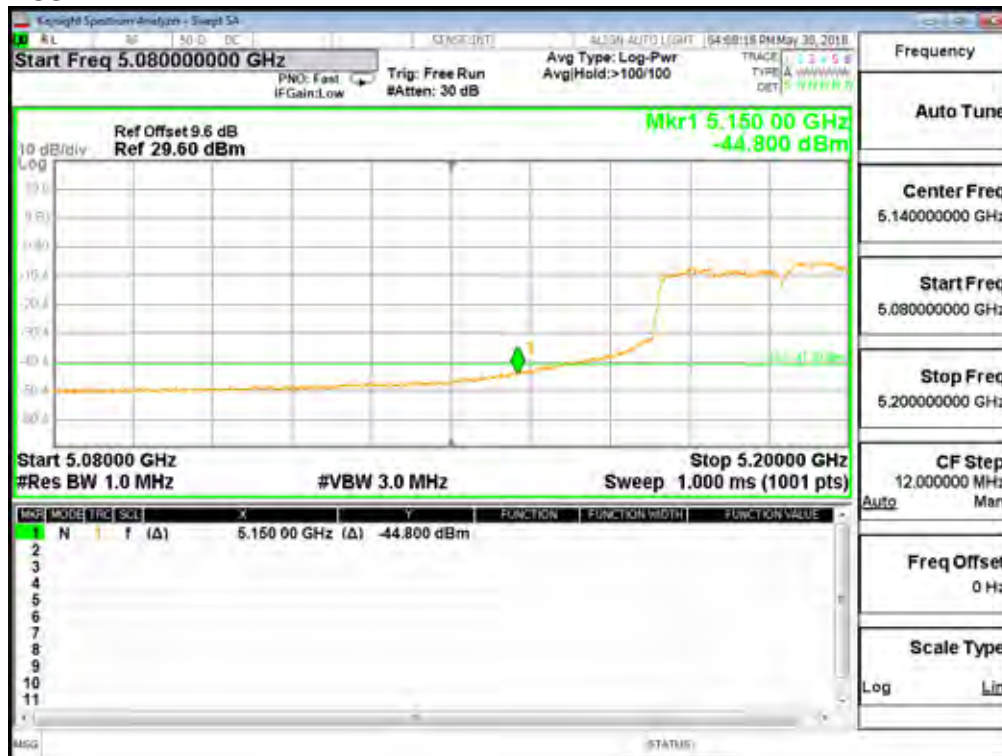
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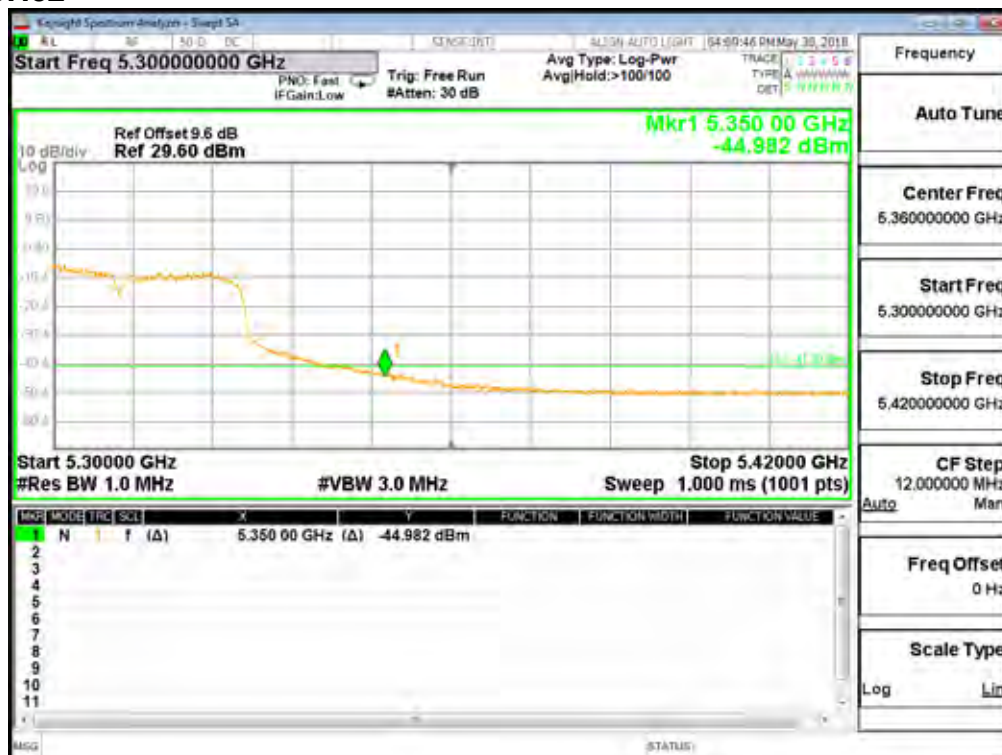
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802.11n40 CH38



802.11n40 CH62



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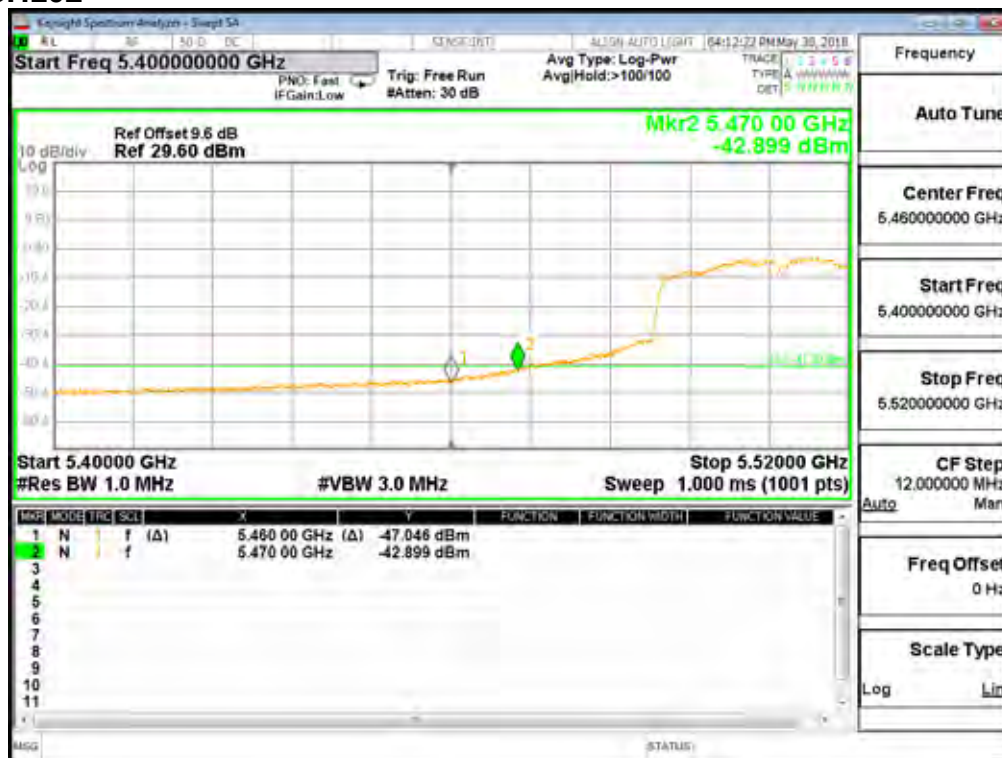
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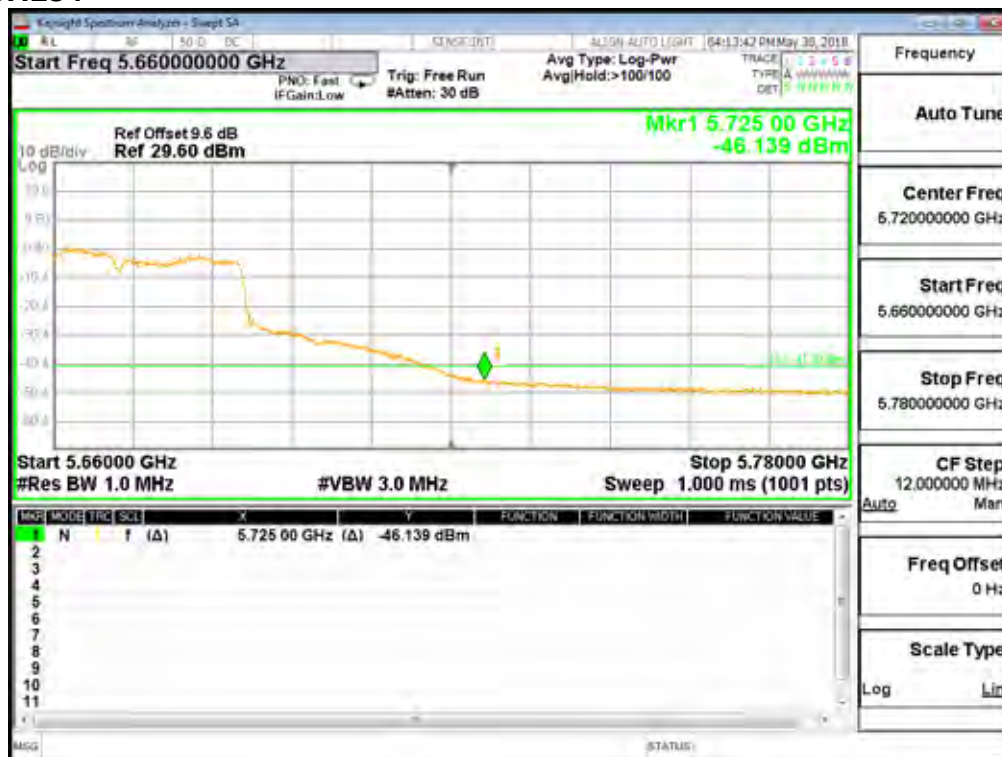
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802.11n40 CH102



802.11n40 CH134



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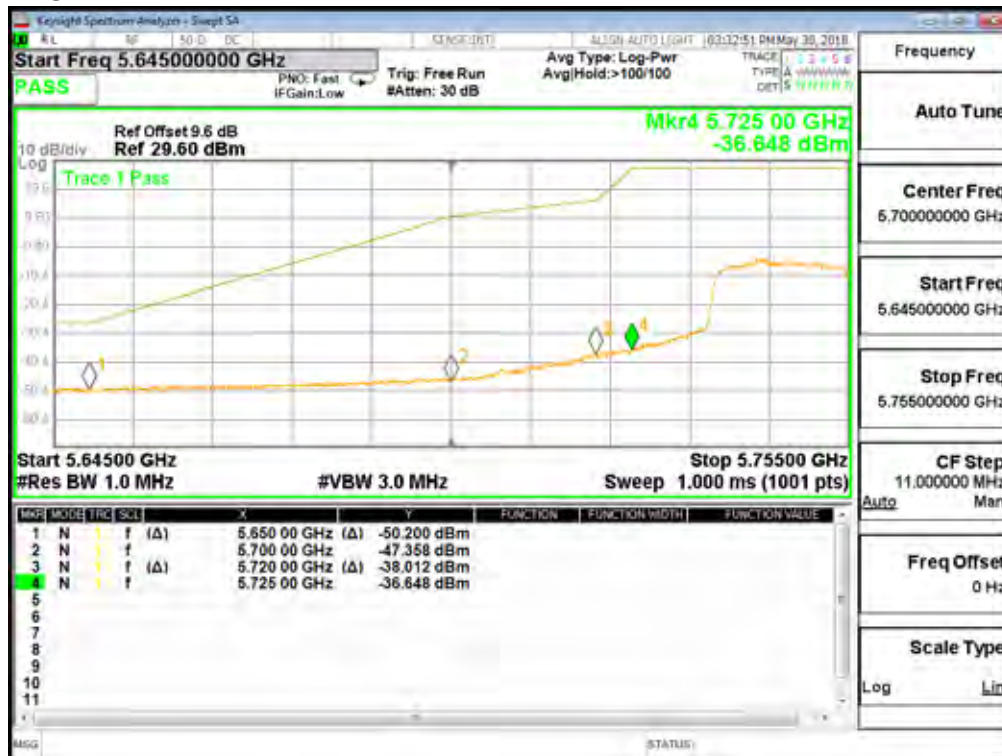
t (886-2) 2299-3279

f (886-2) 2298-0488

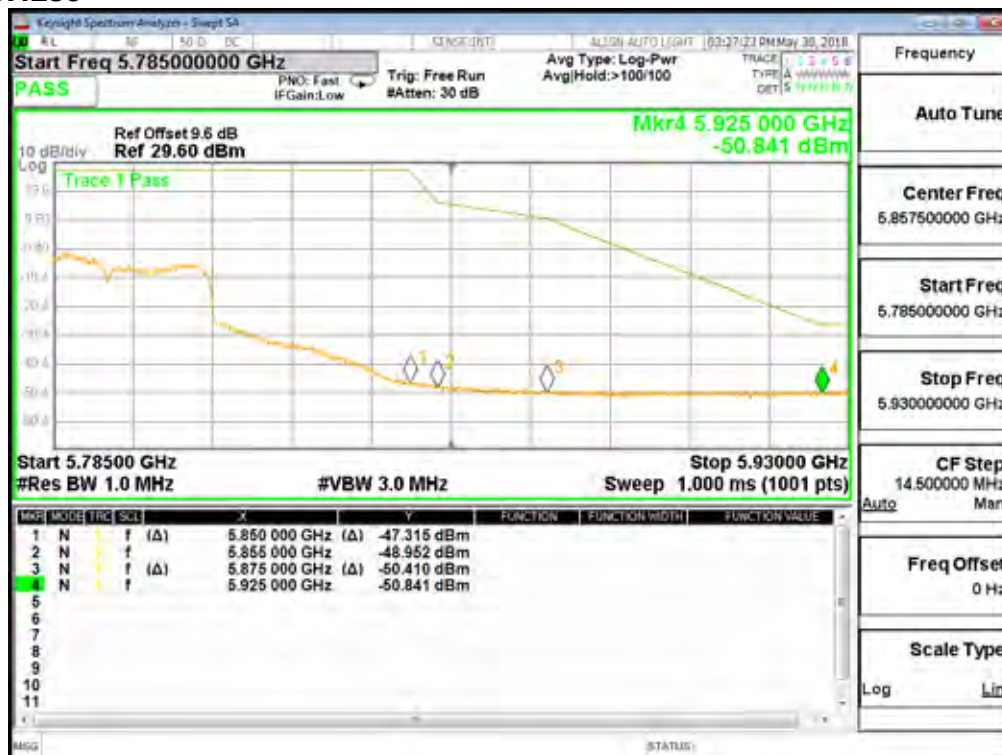
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802.11n40 CH151



802.11n40 CH159



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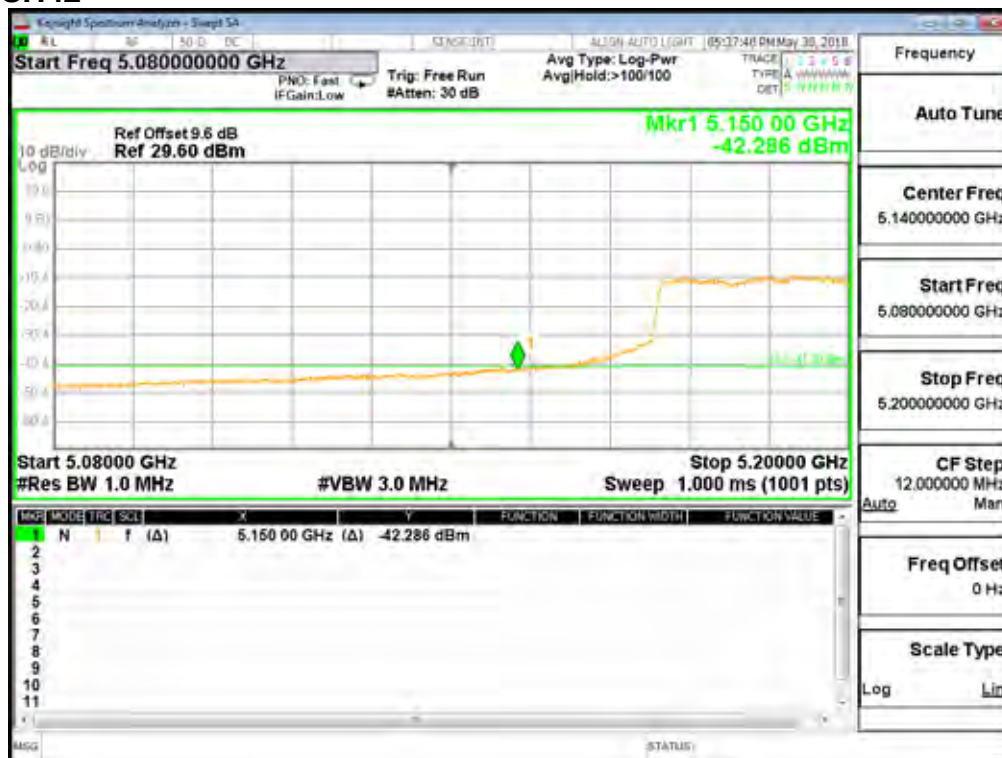
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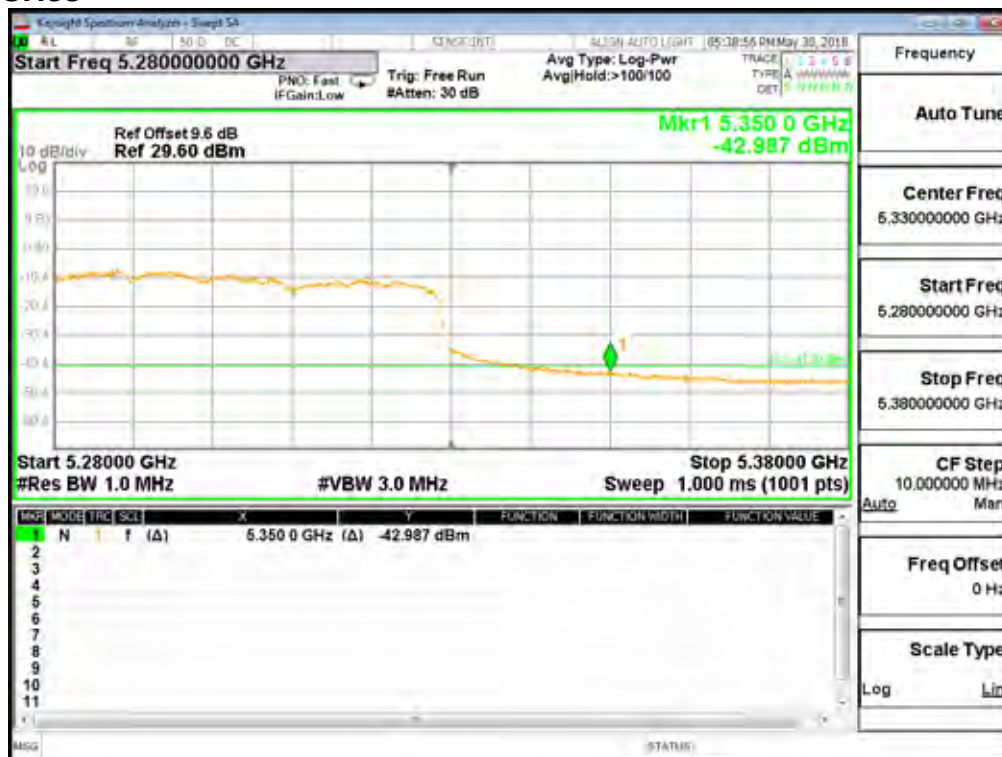
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802.11ac80 CH42



802.11ac80 CH58



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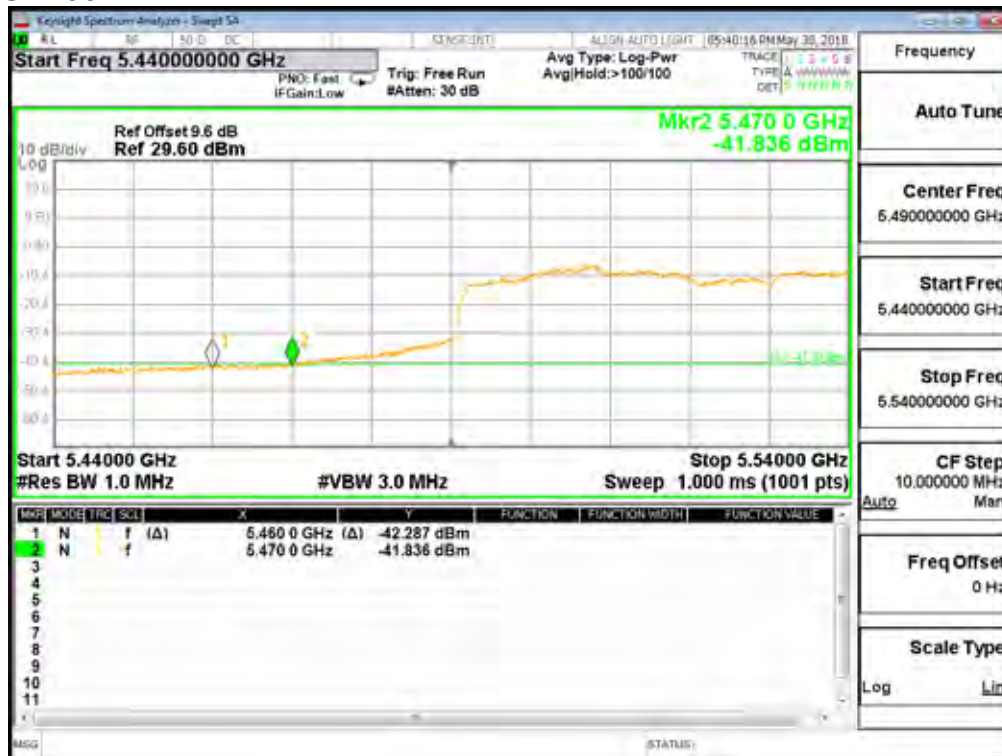
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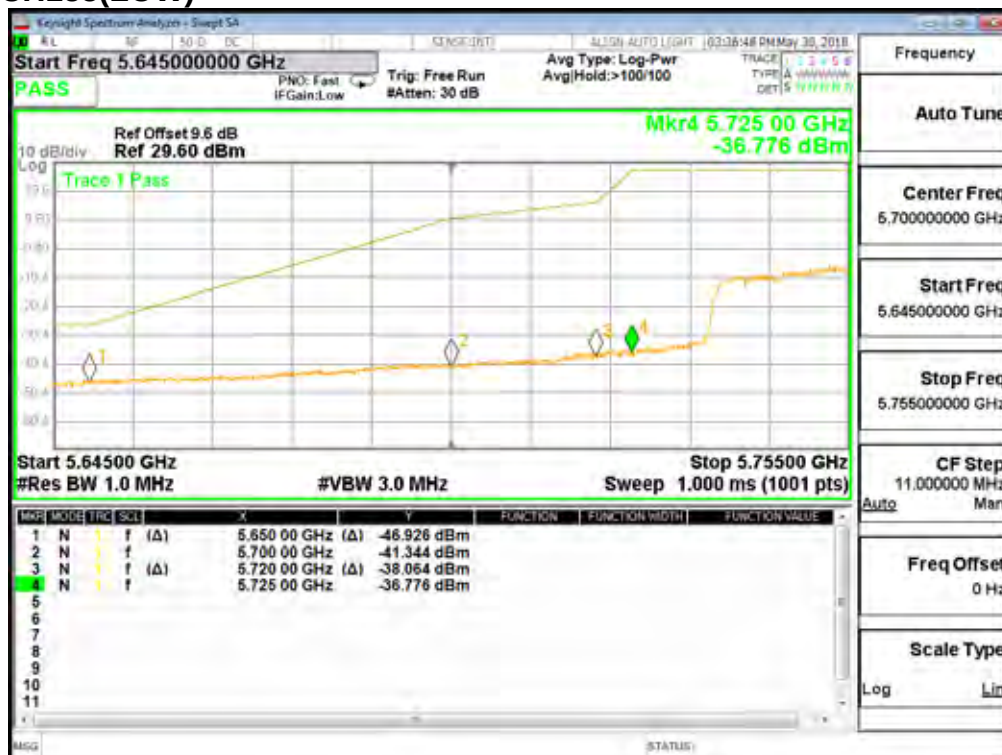
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802.11ac80 CH106



802.11ac80 CH155(LOW)



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802.11ac80 CH155(HIGH)



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7. ANTENNA REQUIREMENT

7.1 Standard Applicable

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.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.2 Antenna Connected Construction

The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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