

## Spot Check

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	12/29/2017	12/28/2018
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/16/2018	08/15/2019
Horn Antenna	Schwarzbeck	BBHA9170	185	08/02/2018	08/01/2019
Loop Antenna	ETS.LINDGREN	6502	148045	10/08/2018	10/07/2019
3m Site NSA	SGS	966 chamber	N/A	01/02/2018	01/01/2019
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/15/2018	05/14/2019
Network Analyze	Anritsu	MS4644A	1216312	06/19/2018	06/18/2019
Pre-Amplifier	HP	8449B	3008A00578	01/02/2018	01/01/2019
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/02/2018	10/01/2019
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2018	01/01/2019
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	01/02/2018	01/01/2019
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	01/02/2018	01/01/2019
Filter 5725-5875 MHz	Micro-Tronics	BRM50705	1	01/02/2018	01/01/2019
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2018	01/01/2019
Notebook	Lenovo	L420	LR-7HXZA	N/A	N/A

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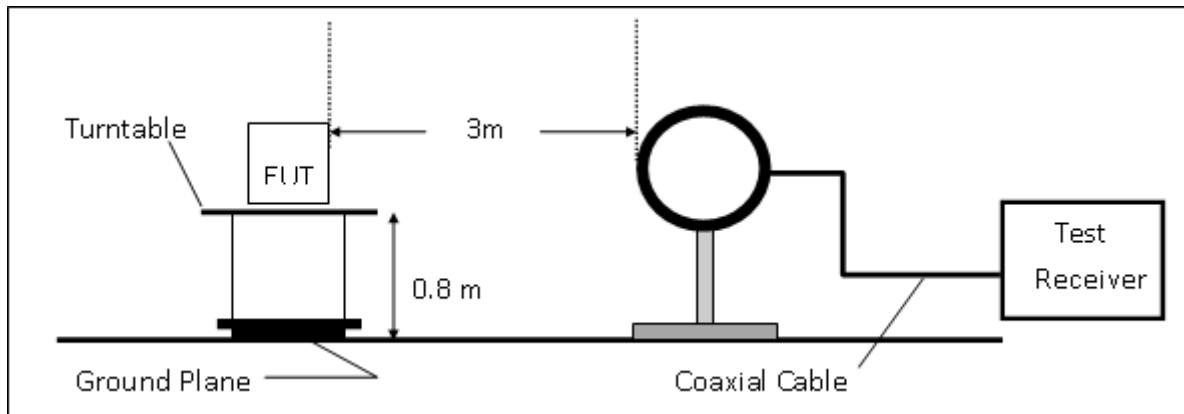
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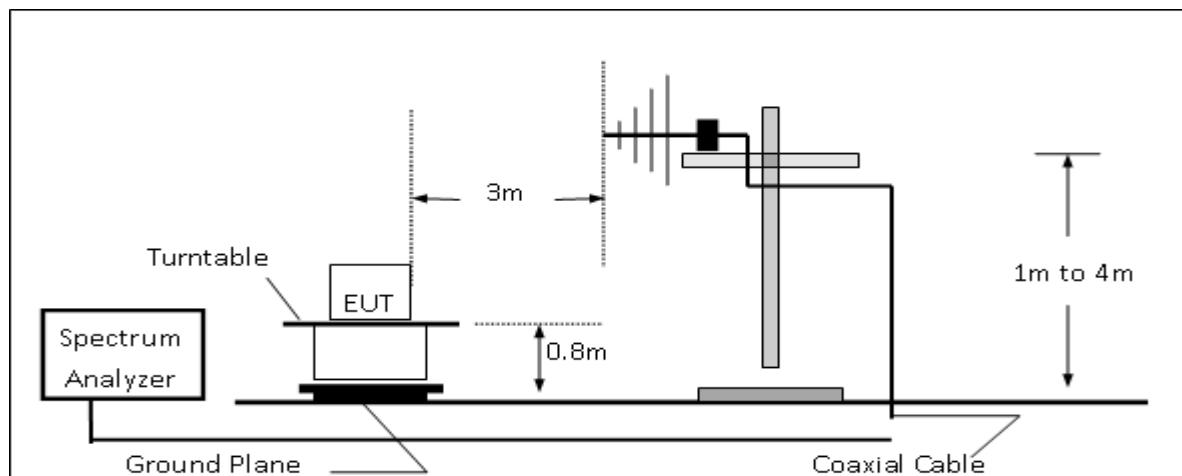
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### 11.3 Test SET-UP

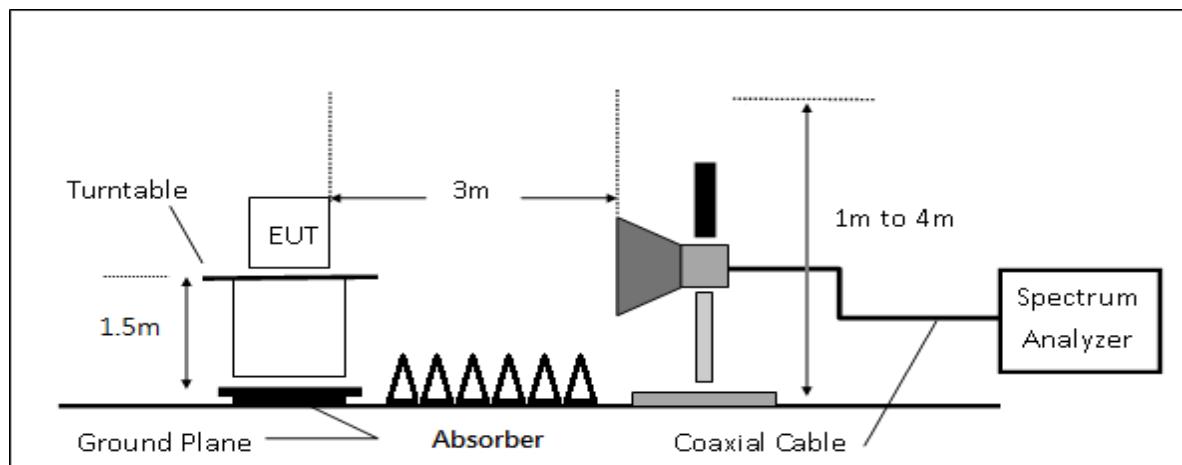
#### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



#### (B) Radiated Emission Test Set-UP, Frequency from 30MHz to 1000MHz



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



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## 11.4 Measurement Procedure

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

## 11.5 Field Strength Calculation

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

$$FS = RA + AF + CL - AG$$

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

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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**Note :**

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

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

## 11.6 Test Results of Radiated Spurious Emissions from 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.

## 11.7 Measurement Result

Refer to attach tabular data sheets.

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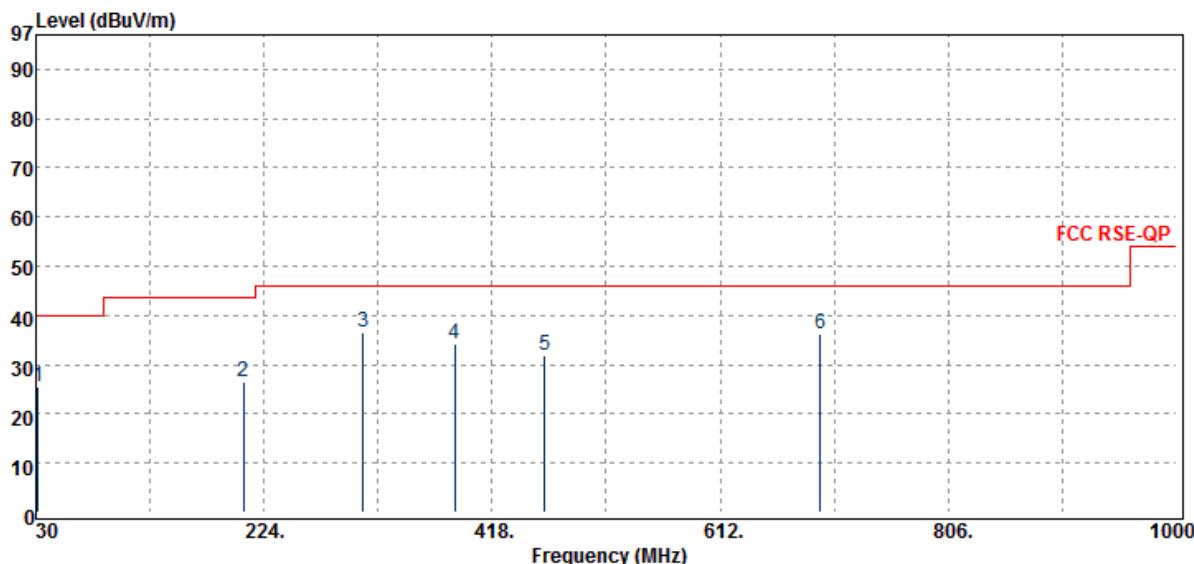
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## Radiated Spurious Emission Measurement Result

## Below 1GHz Worst-Case Data:

## 802.11a 5150~5250 MHz

Operation Band	:802.11aB1	Test Date	:2017-05-16
Fundamental Frequency	:5220 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
31.94	S	Peak	34.65	-9.11	25.54	40.00	-14.46
206.54	S	Peak	36.24	-9.71	26.53	43.50	-16.97
308.39	S	Peak	42.27	-5.57	36.70	46.00	-9.30
385.99	S	Peak	38.49	-4.31	34.18	46.00	-11.82
462.62	S	Peak	34.30	-2.56	31.74	46.00	-14.26
697.36	S	Peak	34.74	1.36	36.10	46.00	-9.90

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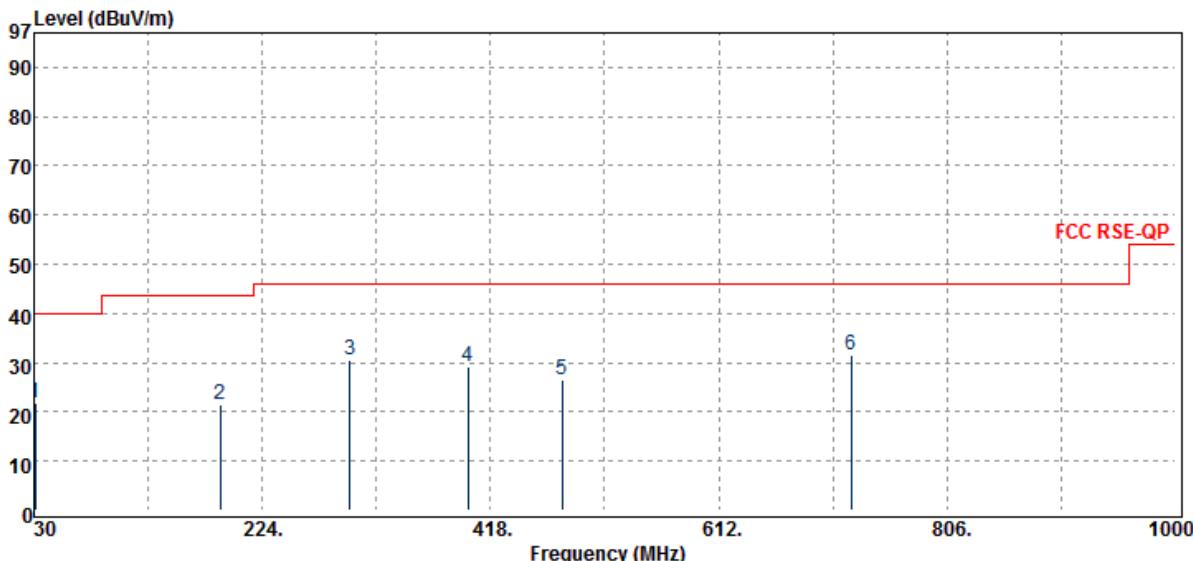
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Operation Band :802.11aB1  
 Fundamental Frequency :5220 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-16  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
30.97	S	Peak	31.10	-9.15	21.95	40.00	-18.05
188.11	S	Peak	30.52	-9.20	21.32	43.50	-22.18
298.69	S	Peak	36.39	-5.95	30.44	46.00	-15.56
398.60	S	Peak	33.02	-3.97	29.05	46.00	-16.95
479.11	S	Peak	28.94	-2.39	26.55	46.00	-19.45
724.52	S	Peak	29.74	1.69	31.43	46.00	-14.57

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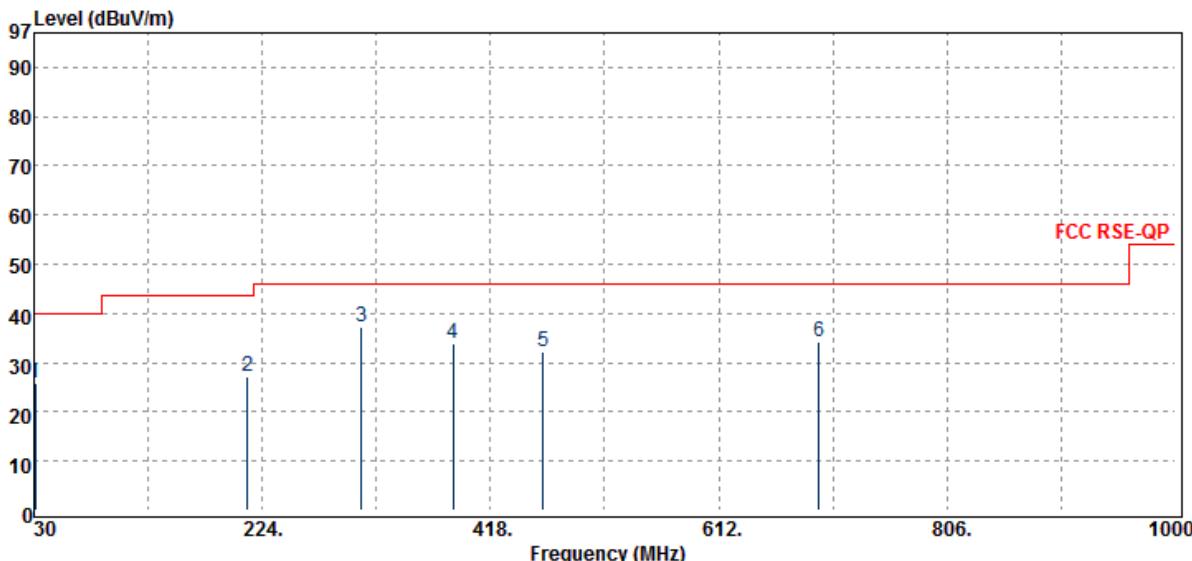
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## 802.11a 5250~5350 MHz

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

Test Date :2017-05-16  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
30.97	S	Peak	34.86	-9.15	25.71	40.00	-14.29
211.39	S	Peak	36.81	-9.70	27.11	43.50	-16.39
308.39	S	Peak	42.94	-5.57	37.37	46.00	-8.63
385.99	S	Peak	38.17	-4.31	33.86	46.00	-12.14
462.62	S	Peak	34.67	-2.56	32.11	46.00	-13.89
697.36	S	Peak	32.98	1.36	34.34	46.00	-11.66

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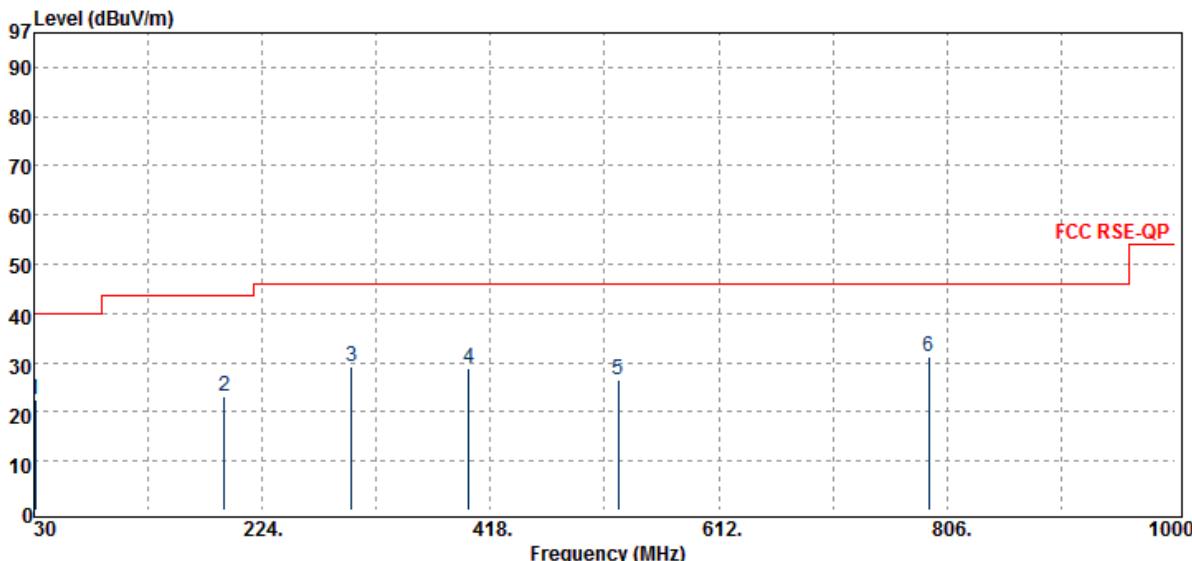
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Operation Band :802.11aB2  
 Fundamental Frequency :5300 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-16  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
30.97	S	Peak	31.52	-9.15	22.37	40.00	-17.63
191.99	S	Peak	32.53	-9.42	23.11	43.50	-20.39
299.66	S	Peak	35.00	-5.93	29.07	46.00	-16.93
399.57	S	Peak	32.86	-3.92	28.94	46.00	-17.06
526.64	S	Peak	27.83	-1.44	26.39	46.00	-19.61
790.48	S	Peak	28.44	2.86	31.30	46.00	-14.70

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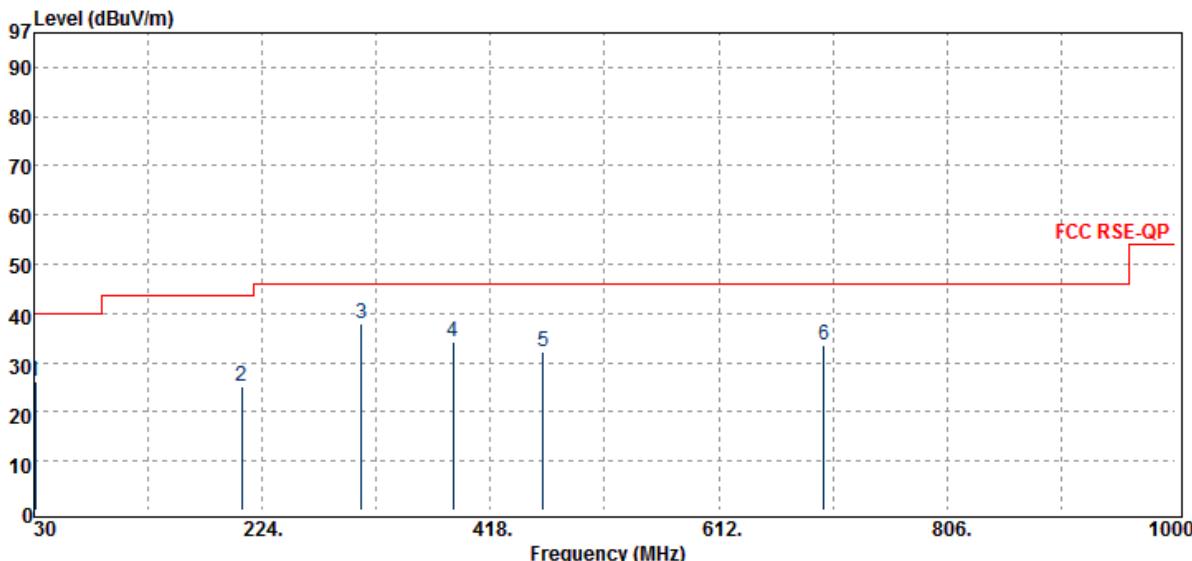
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**802.11a, 5470~5725 MHz**

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

Test Date :2017-05-16  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
30.97	S	Peak	35.22	-9.15	26.07	40.00	-13.93
206.54	S	Peak	35.03	-9.71	25.32	43.50	-18.18
308.39	S	Peak	43.36	-5.57	37.79	46.00	-8.21
385.99	S	Peak	38.52	-4.31	34.21	46.00	-11.79
462.62	S	Peak	34.67	-2.56	32.11	46.00	-13.89
701.24	S	Peak	32.18	1.44	33.62	46.00	-12.38

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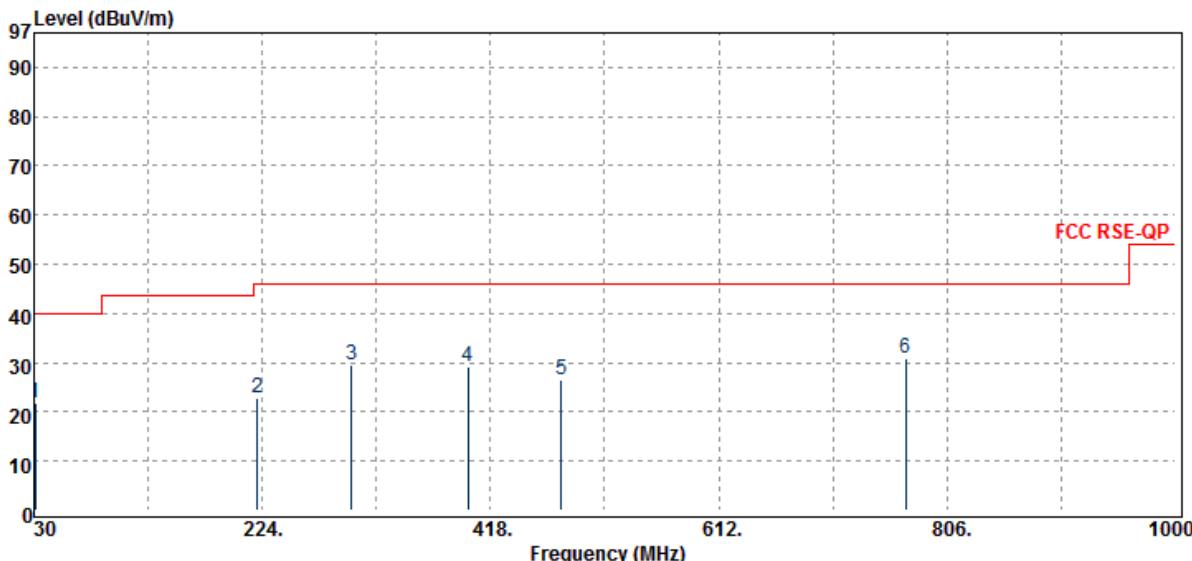
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Operation Band :802.11aB3  
 Fundamental Frequency :5580 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-16  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
30.97	S	Peak	31.09	-9.15	21.94	40.00	-18.06
220.12	S	Peak	32.01	-9.25	22.76	46.00	-23.24
299.66	S	Peak	35.49	-5.93	29.56	46.00	-16.44
398.60	S	Peak	33.09	-3.97	29.12	46.00	-16.88
478.14	S	Peak	28.78	-2.43	26.35	46.00	-19.65
771.08	S	Peak	28.43	2.61	31.04	46.00	-14.96

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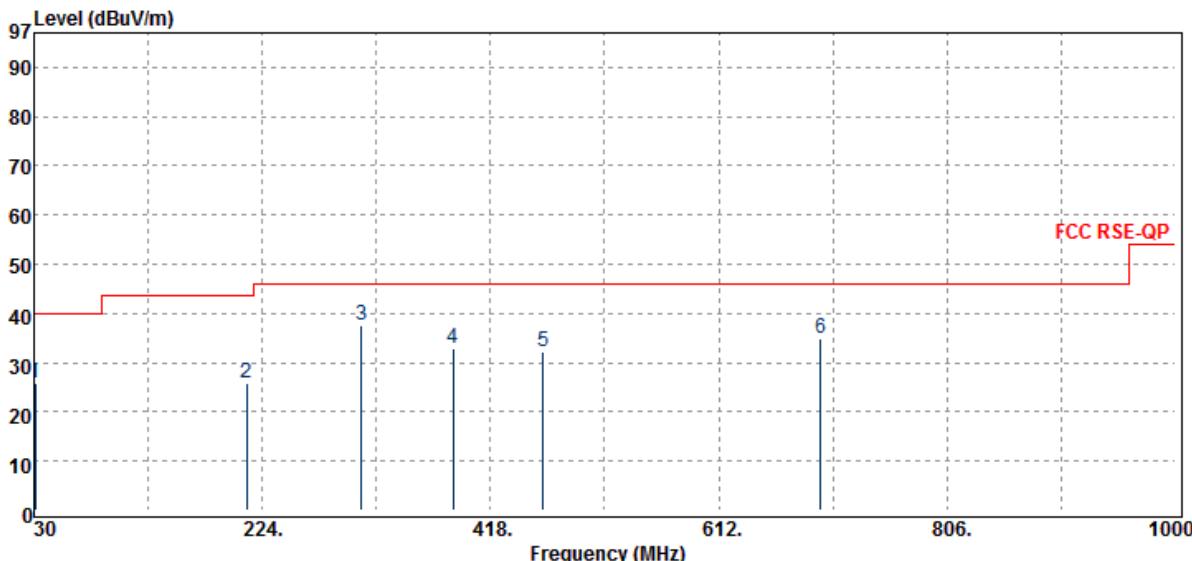
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**802.11a, 5725~5850 MHz**

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

Test Date :2017-05-16  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
30.97	S	Peak	35.13	-9.15	25.98	40.00	-14.02
210.42	S	Peak	35.53	-9.76	25.77	43.50	-17.73
308.39	S	Peak	43.14	-5.57	37.57	46.00	-8.43
385.99	S	Peak	37.18	-4.31	32.87	46.00	-13.13
462.62	S	Peak	34.67	-2.56	32.11	46.00	-13.89
698.33	S	Peak	33.52	1.40	34.92	46.00	-11.08

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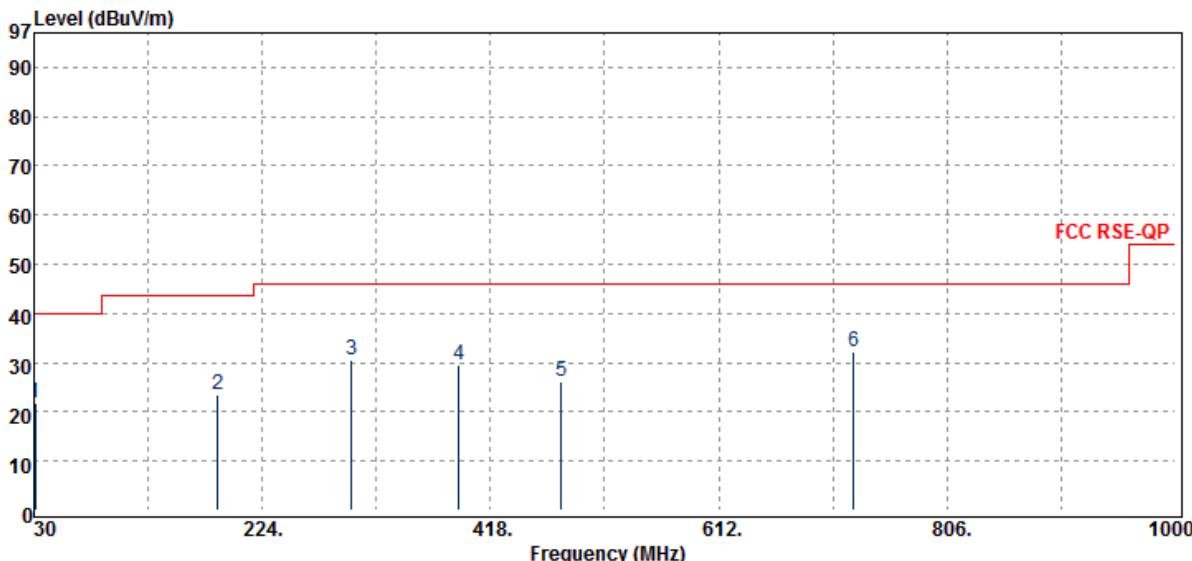
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Operation Band :802.11aB4  
 Fundamental Frequency :5785 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-16  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
30.97	S	Peak	30.98	-9.15	21.83	40.00	-18.17
186.17	S	Peak	32.59	-9.10	23.49	43.50	-20.01
299.66	S	Peak	36.31	-5.93	30.38	46.00	-15.62
390.84	S	Peak	33.84	-4.18	29.66	46.00	-16.34
478.14	S	Peak	28.68	-2.43	26.25	46.00	-19.75
726.46	S	Peak	30.42	1.74	32.16	46.00	-13.84

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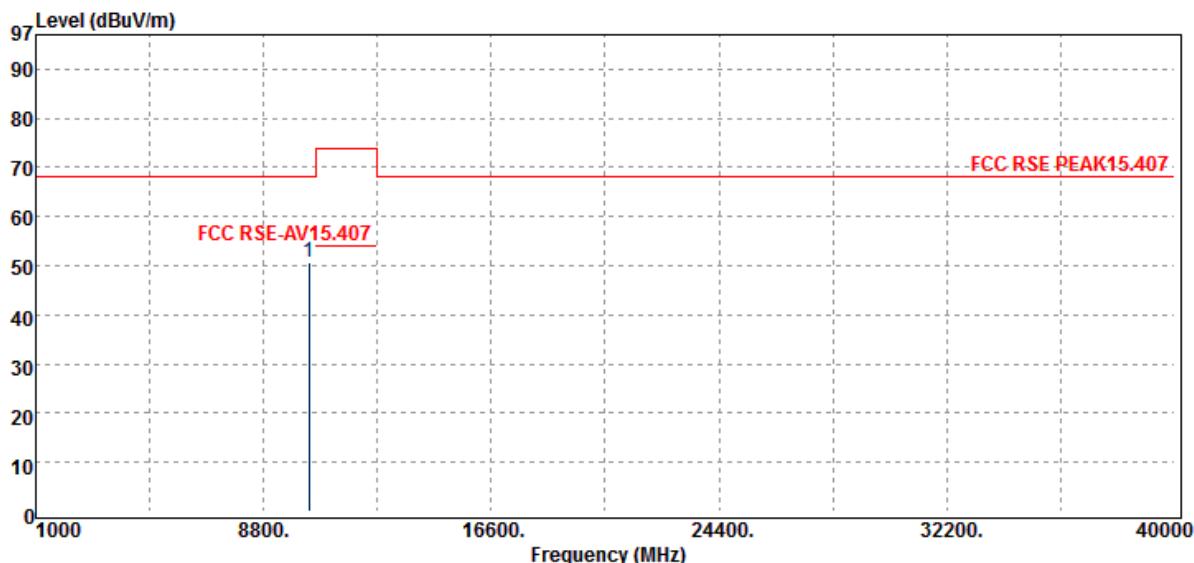
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**Above 1GHz Worst-Case Data:****Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz**

Operation Band	:802.11aB1	Test Date	:2017-05-16
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10360.00	H	Peak	32.53	18.29	50.82	68.30	-17.48

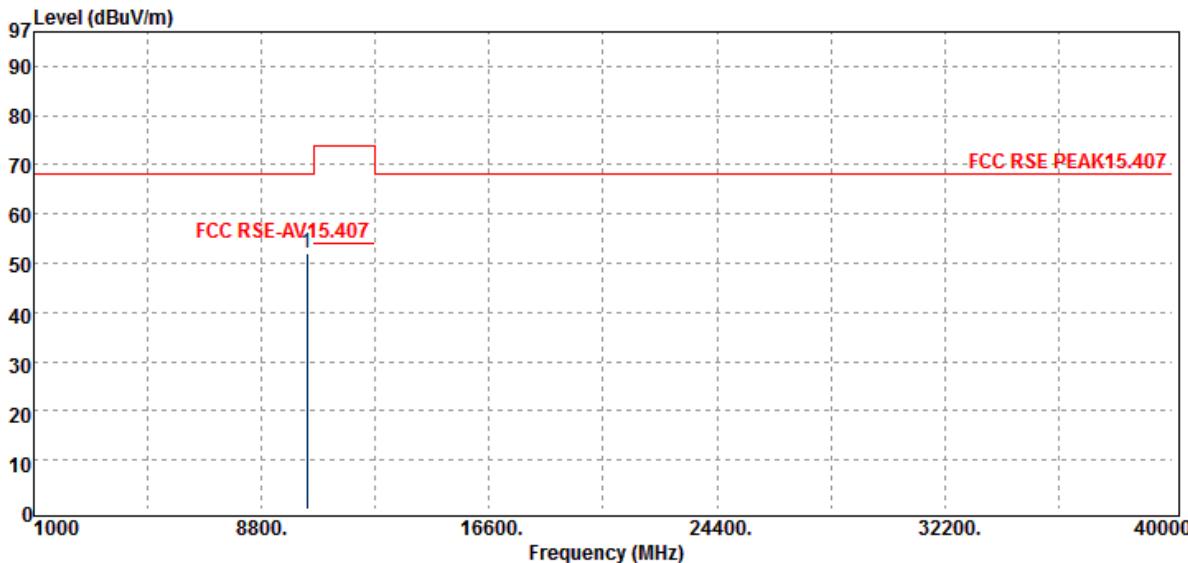
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Operation Band :802.11aB1  
Fundamental Frequency :5180 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :H Plane

Test Date :2017-05-16  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Mike  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10360.00	H	Peak	33.84	18.29	52.13	68.30	-16.17

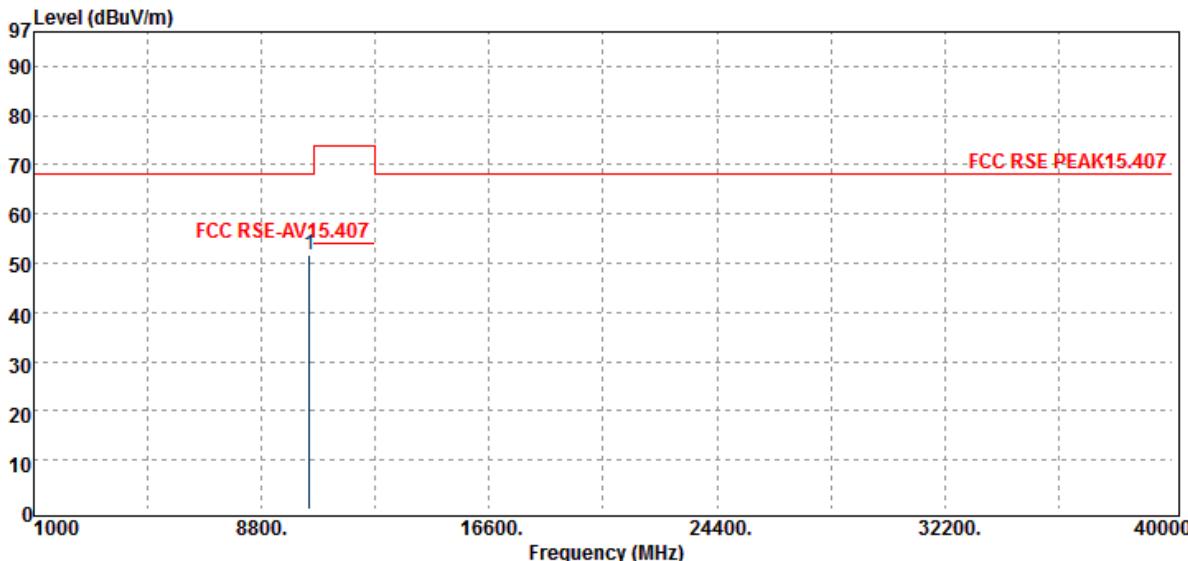
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Operation Band :802.11aB1  
 Fundamental Frequency :5220 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10440.00	H	Peak	33.07	18.69	51.76	68.30	-16.54

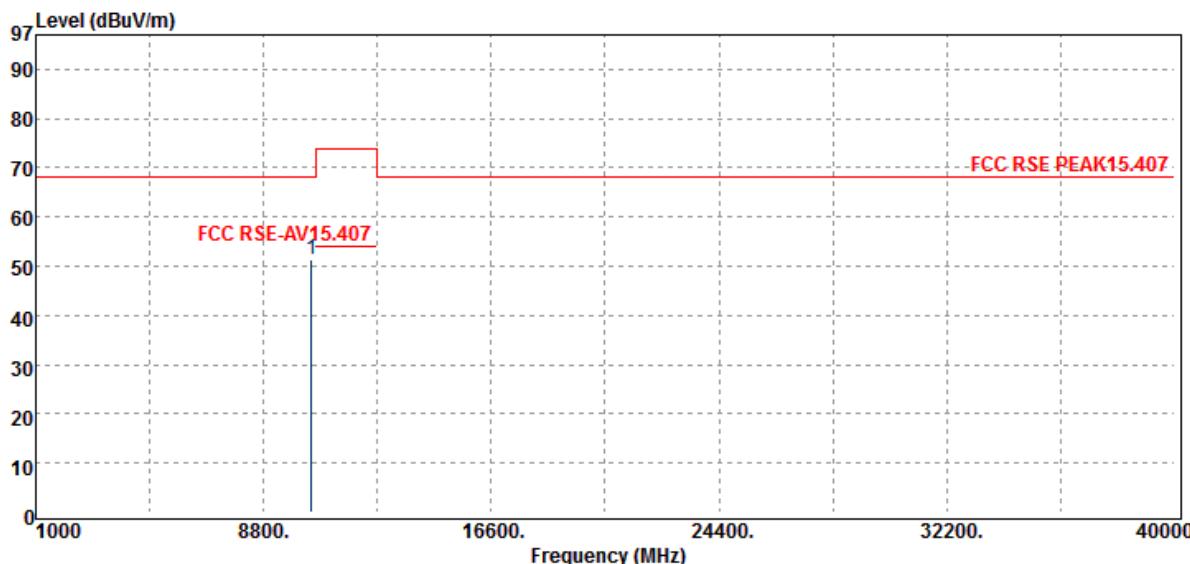
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Operation Band :802.11aB1  
 Fundamental Frequency :5220 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10440.00	H	Peak	32.57	18.69	51.26	68.30	-17.04

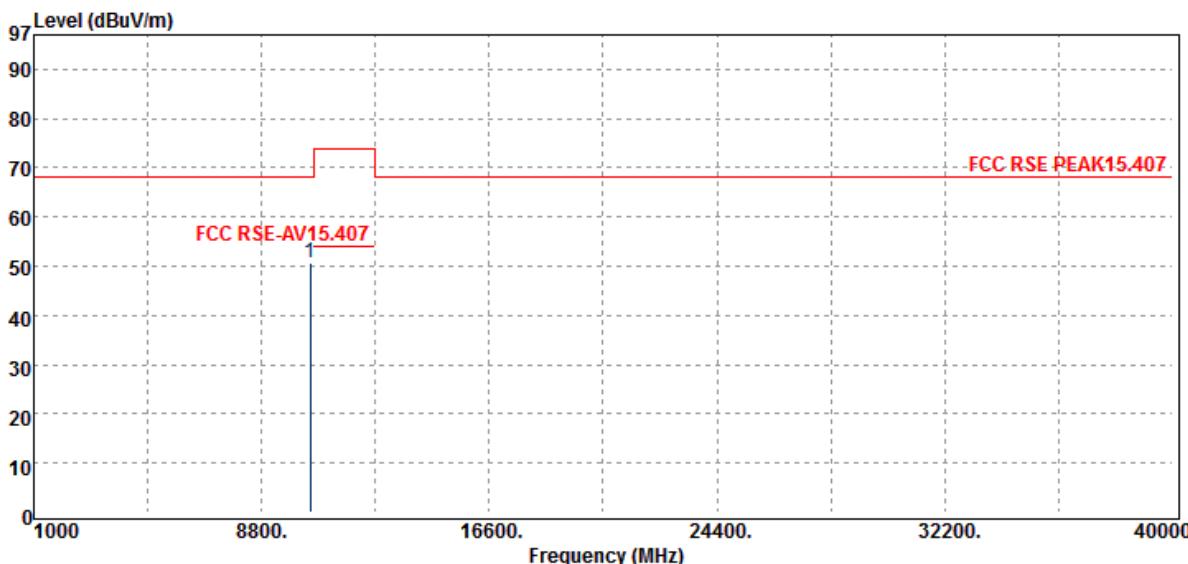
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Operation Band :802.11aB1  
 Fundamental Frequency :5240 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10480.00	H	Peak	32.38	18.30	50.68	68.30	-17.62

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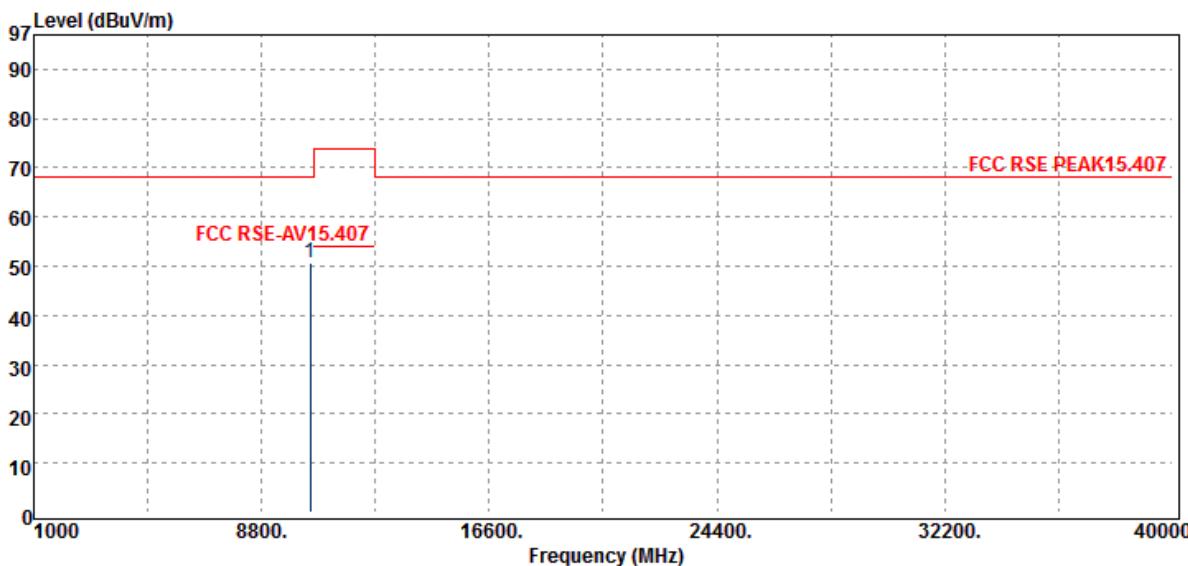
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Operation Band :802.11aB1  
 Fundamental Frequency :5240 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10480.00	H	Peak	32.30	18.30	50.60	68.30	-17.70

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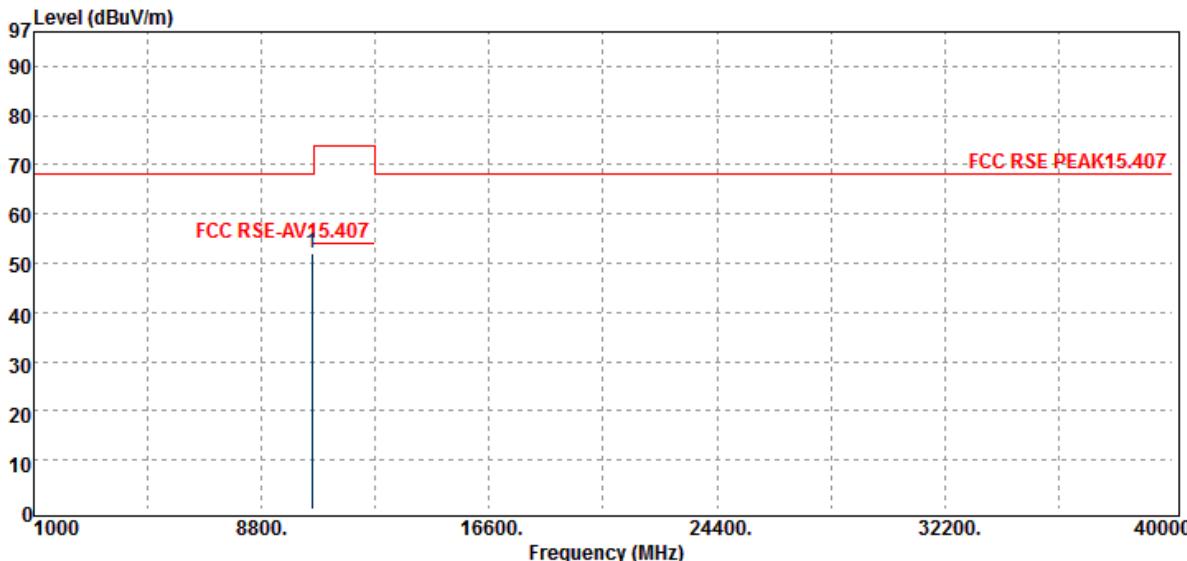
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## Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Band :802.11aB2 Test Date :2017-05-15  
 Fundamental Frequency :5260 MHz Temp./Humi. :23 deg\_C / 62 RH  
 Operation Mode :Tx CH LOW Engineer :Mike  
 EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10520.00	H	Peak	32.79	19.38	52.17	68.30	-16.13

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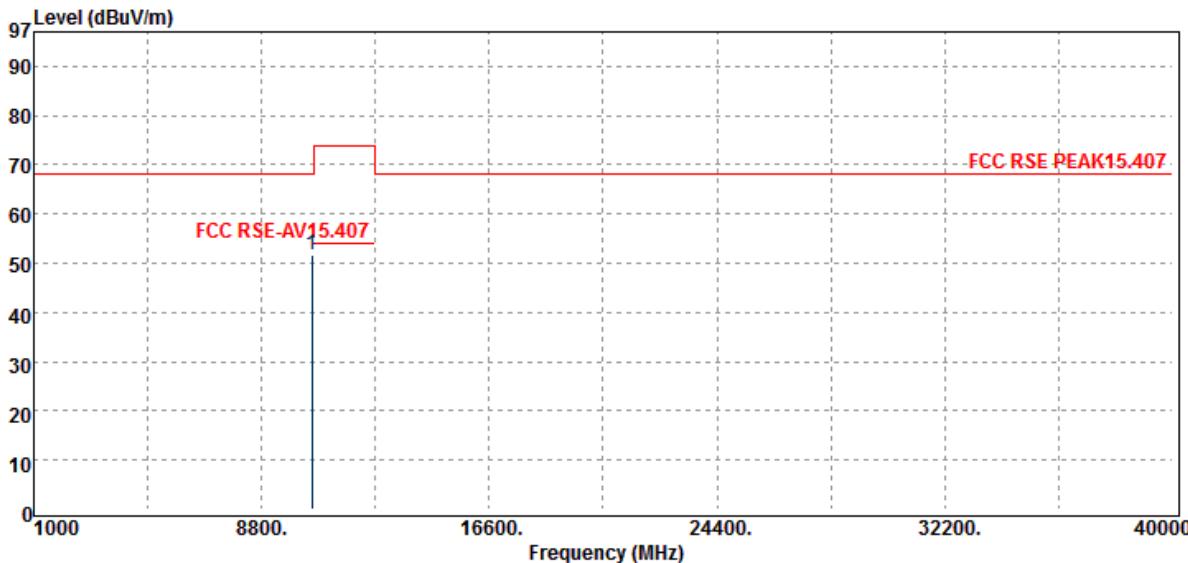
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Operation Band :802.11aB2  
Fundamental Frequency :5260 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :H Plane

Test Date :2017-05-15  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Mike  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10520.00	H	Peak	32.45	19.38	51.83	68.30	-16.47

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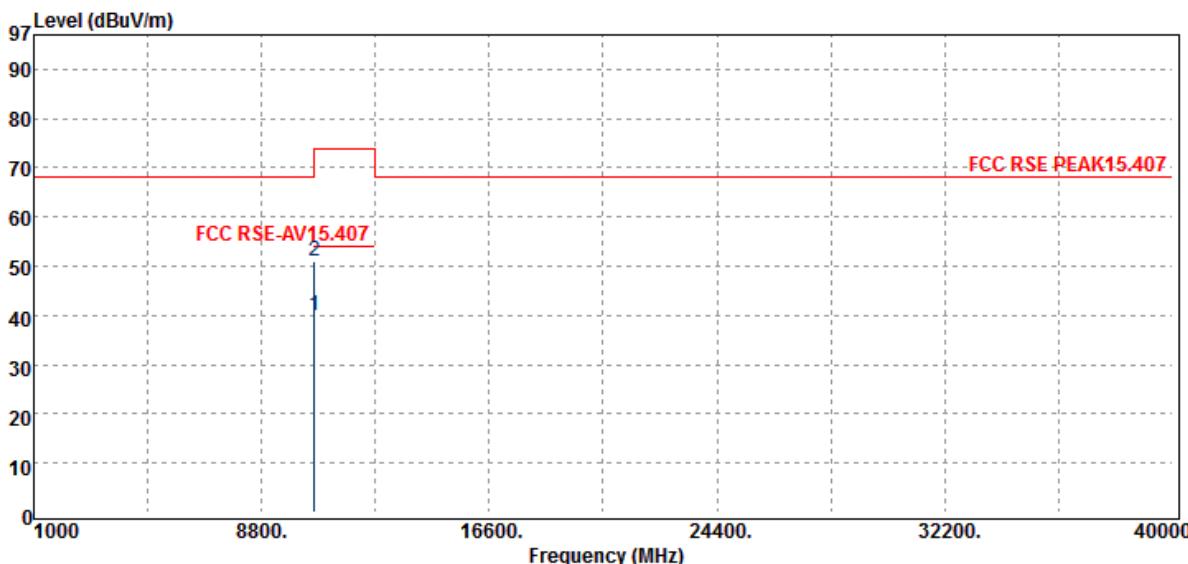
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Operation Band :802.11aB2  
 Fundamental Frequency :5300 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10600.00	H	Average	20.88	18.91	39.79	54.00	-14.21
10600.00	H	Peak	32.14	18.91	51.05	74.00	-22.95

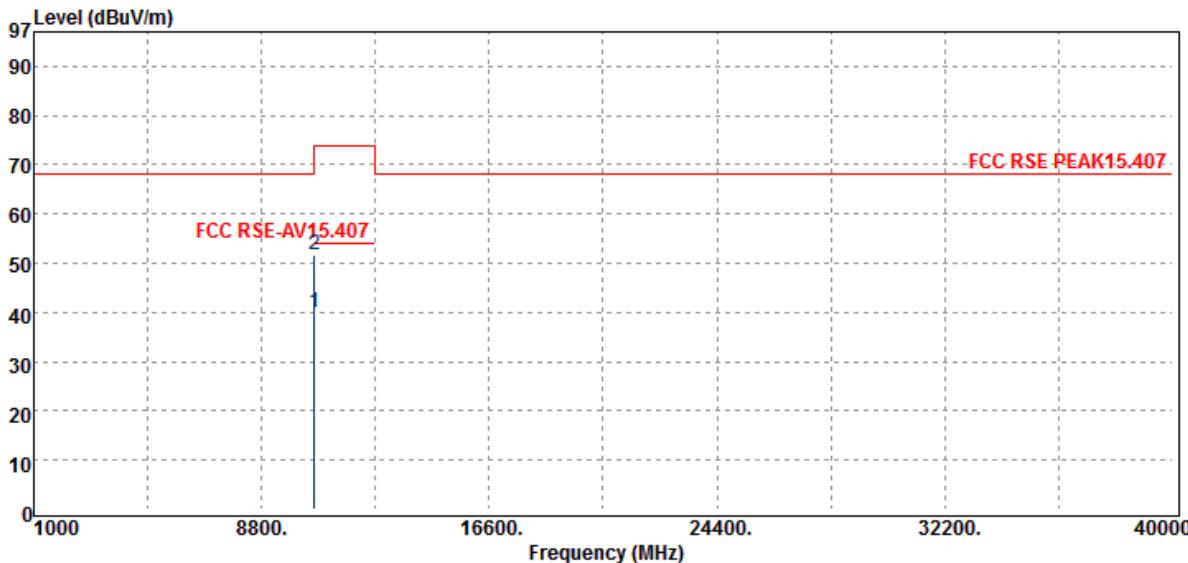
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Operation Band :802.11aB2  
 Fundamental Frequency :5300 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10600.00	H	Average	20.91	18.91	39.82	54.00	-14.18
10600.00	H	Peak	32.78	18.91	51.69	74.00	-22.31

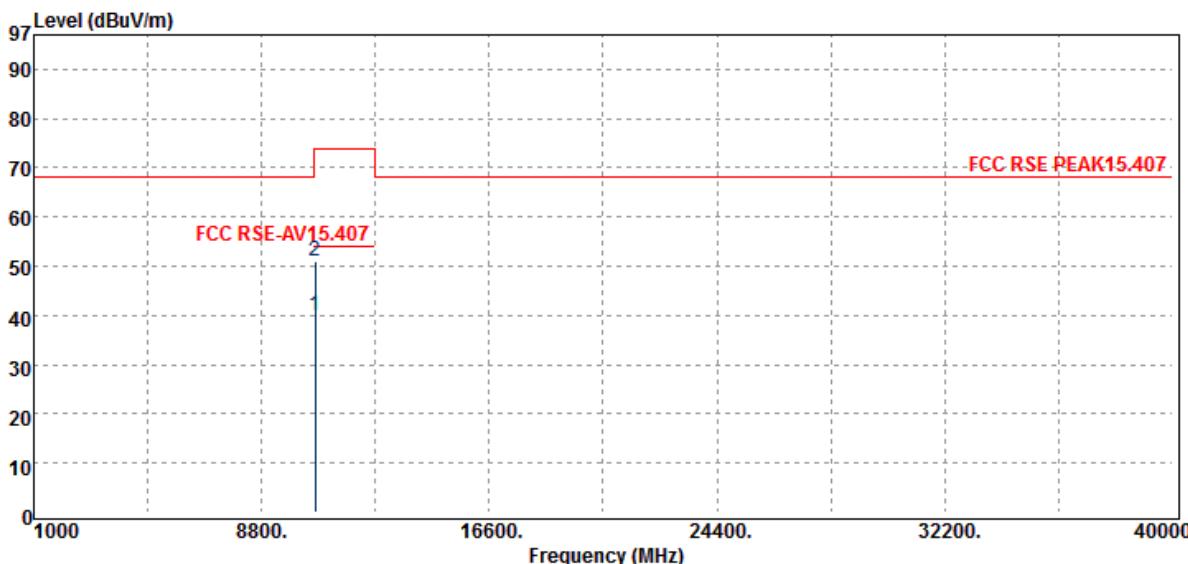
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Operation Band :802.11aB2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10640.00	H	Average	20.81	19.19	40.00	54.00	-14.00
10640.00	H	Peak	31.86	19.19	51.05	74.00	-22.95

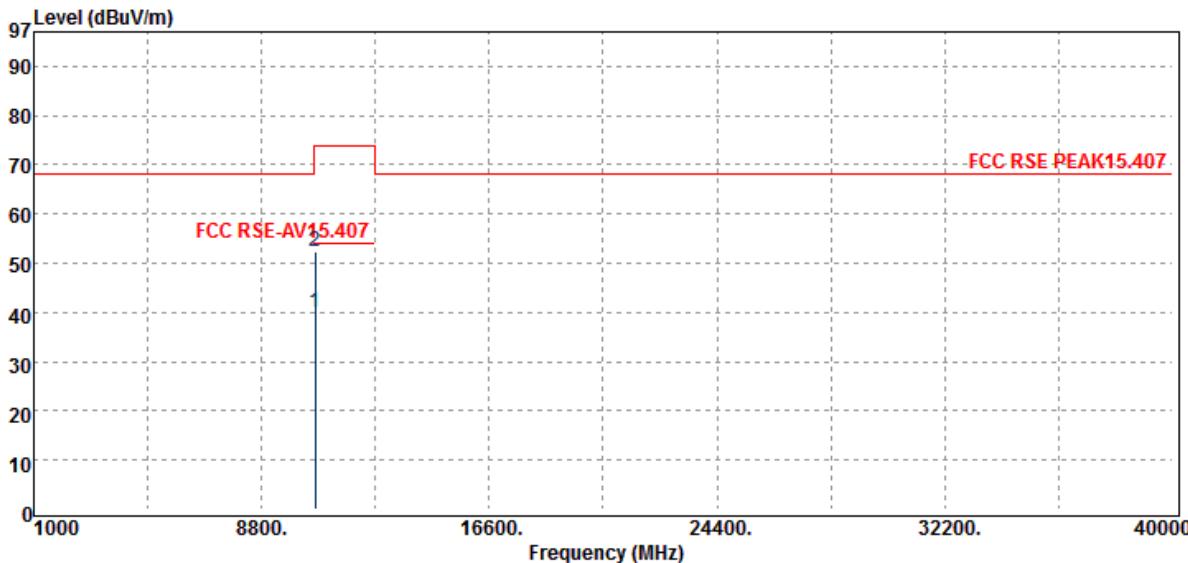
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Operation Band :802.11aB2  
Fundamental Frequency :5320 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :H Plane

Test Date :2017-05-15  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Mike  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10640.00	H	Average	20.77	19.19	39.96	54.00	-14.04
10640.00	H	Peak	33.10	19.19	52.29	74.00	-21.71

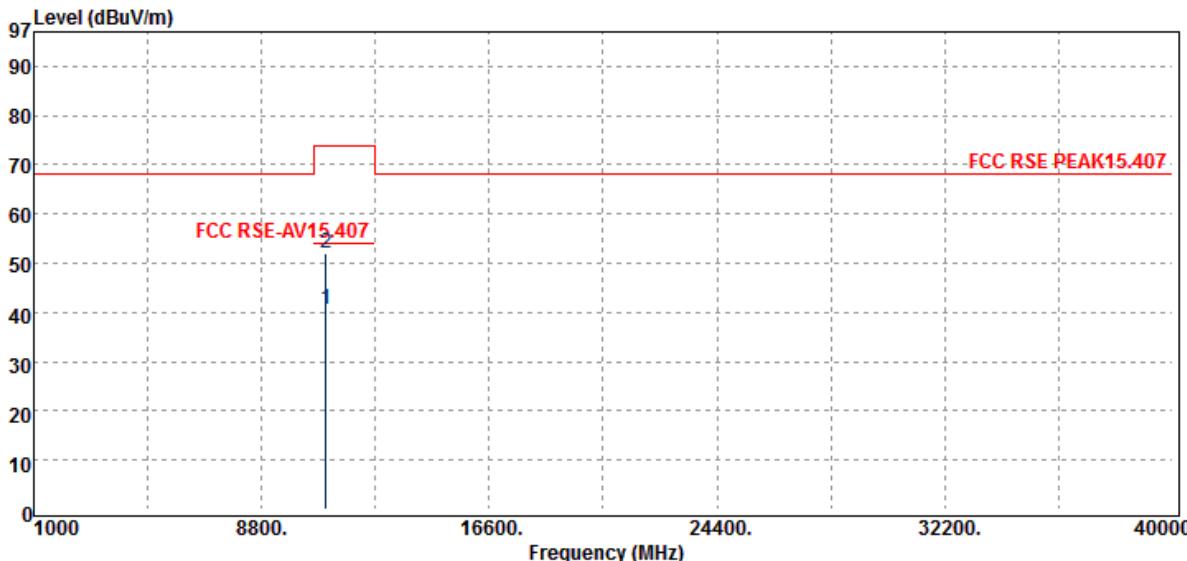
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## Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Band :802.11aB3 Test Date :2017-05-15  
 Fundamental Frequency :5500 MHz Temp./Humi. :23 deg\_C / 62 RH  
 Operation Mode :Tx CH LOW Engineer :Mike  
 EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11000.00	H	Average	20.52	20.16	40.68	54.00	-13.32
11000.00	H	Peak	31.99	20.16	52.15	74.00	-21.85

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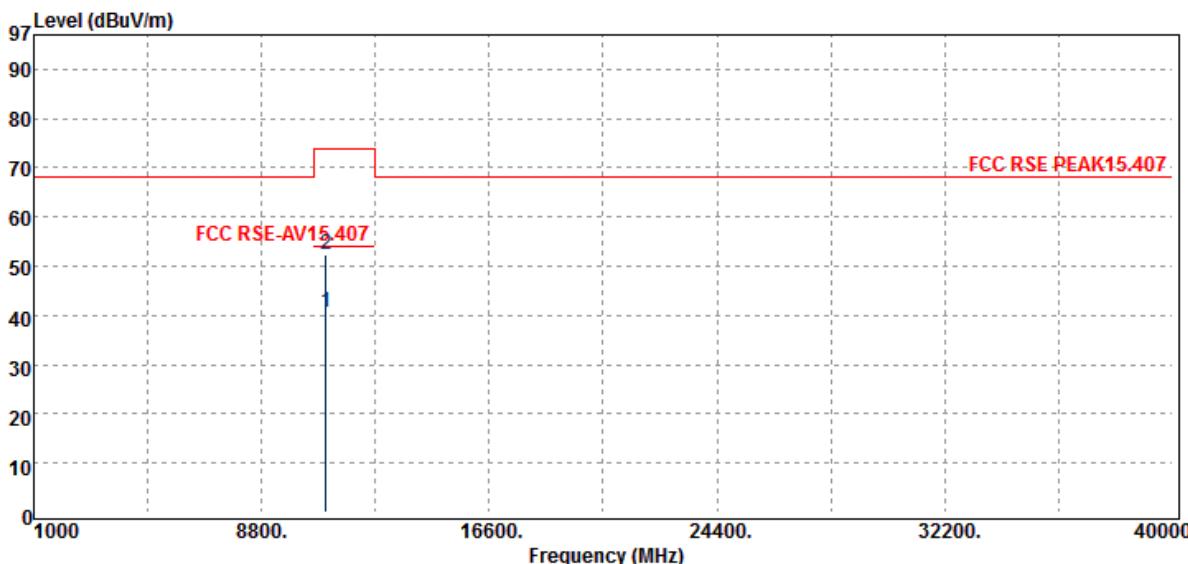
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Operation Band :802.11aB3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11000.00	H	Average	20.49	20.16	40.65	54.00	-13.35
11000.00	H	Peak	32.10	20.16	52.26	74.00	-21.74

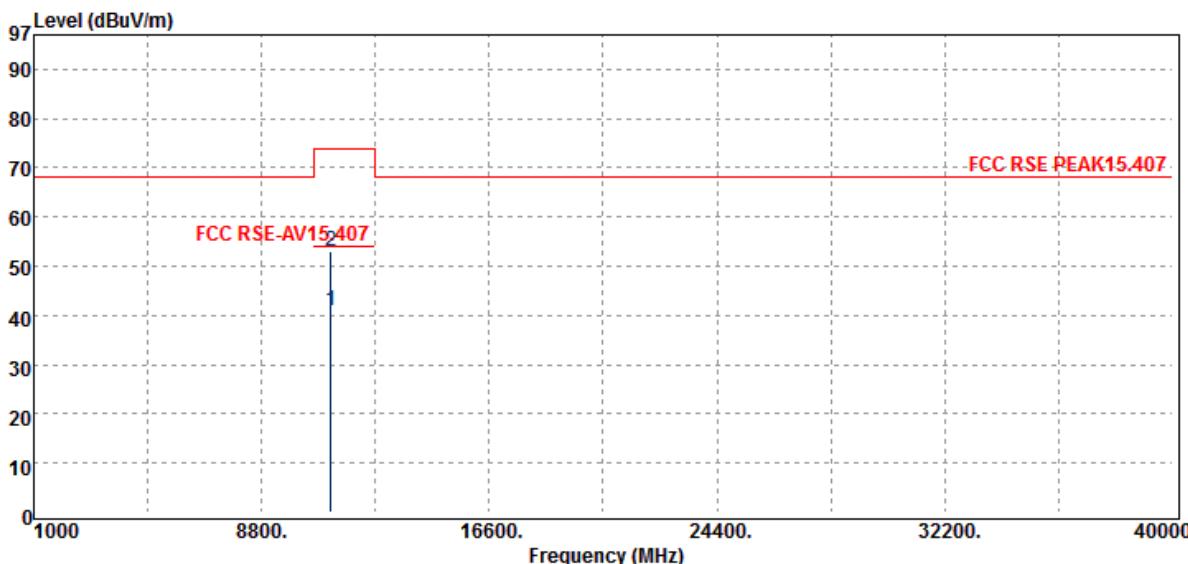
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Operation Band :802.11aB3  
 Fundamental Frequency :5580 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11160.00	H	Average	20.68	20.44	41.12	54.00	-12.88
11160.00	H	Peak	32.44	20.44	52.88	74.00	-21.12

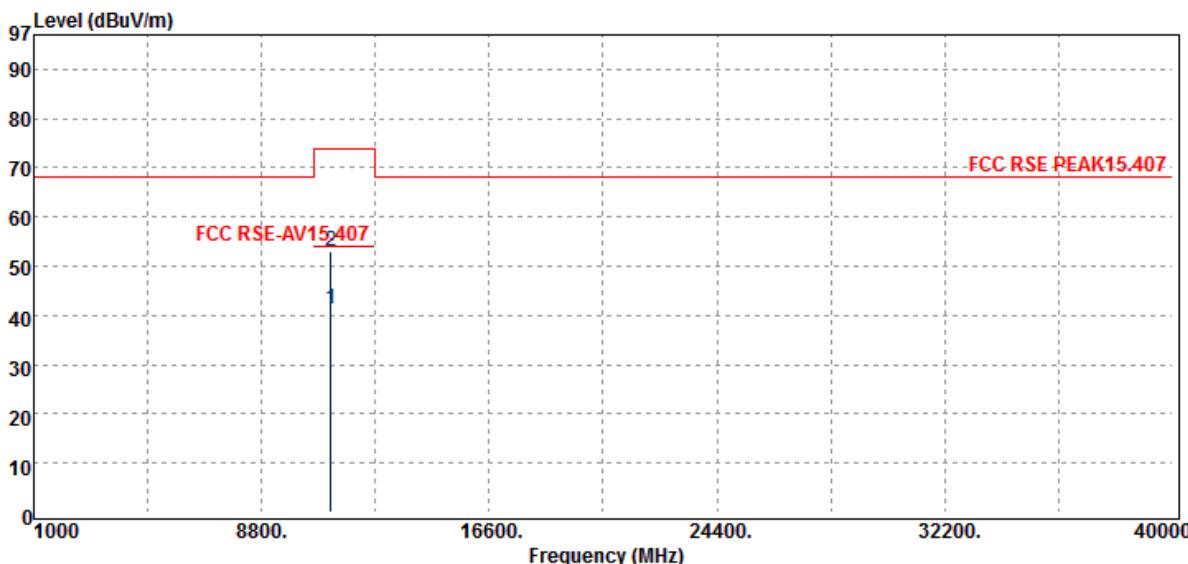
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Operation Band :802.11aB3  
 Fundamental Frequency :5580 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11160.00	H	Average	20.73	20.44	41.17	54.00	-12.83
11160.00	H	Peak	32.70	20.44	53.14	74.00	-20.86

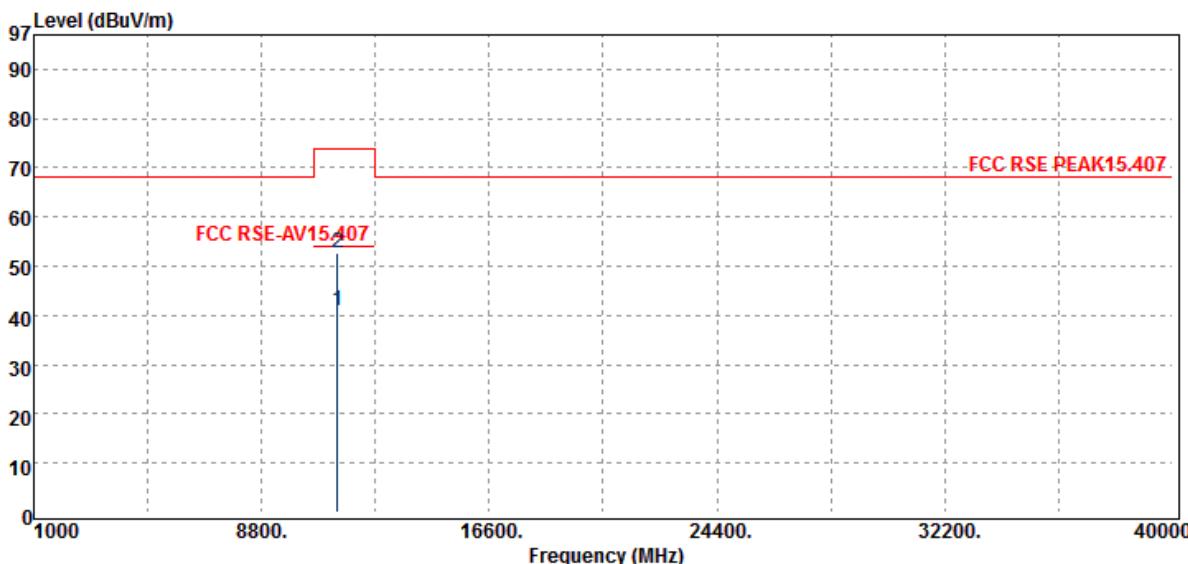
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Operation Band :802.11aB3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11400.00	H	Average	20.55	20.56	41.11	54.00	-12.89
11400.00	H	Peak	32.13	20.56	52.69	74.00	-21.31

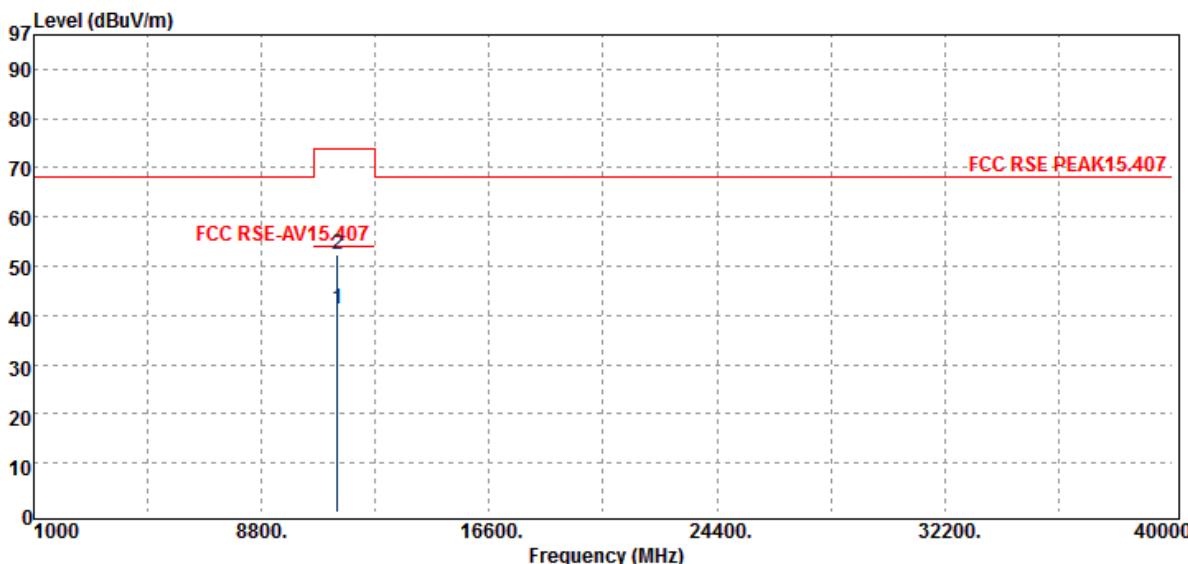
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Operation Band :802.11aB3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11400.00	H	Average	20.57	20.56	41.13	54.00	-12.87
11400.00	H	Peak	31.74	20.56	52.30	74.00	-21.70

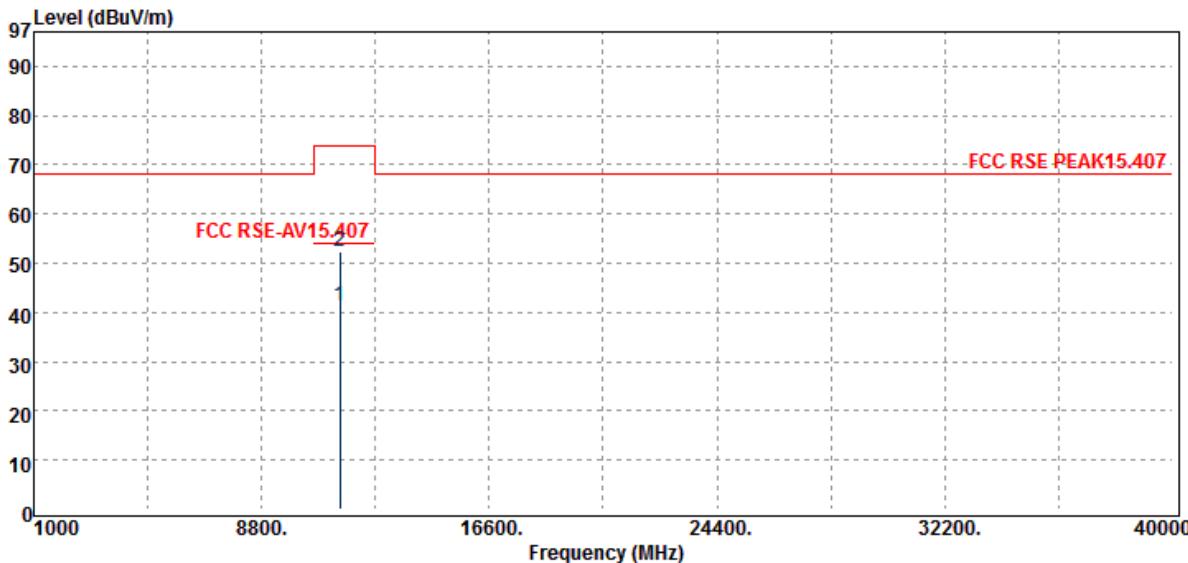
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## Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Band :802.11aB4 Test Date :2017-05-15  
 Fundamental Frequency :5745 MHz Temp./Humi. :23 deg\_C / 62 RH  
 Operation Mode :Tx CH LOW Engineer :Mike  
 EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11490.00	H	Average	20.82	20.42	41.24	54.00	-12.76
11490.00	H	Peak	31.80	20.42	52.22	74.00	-21.78

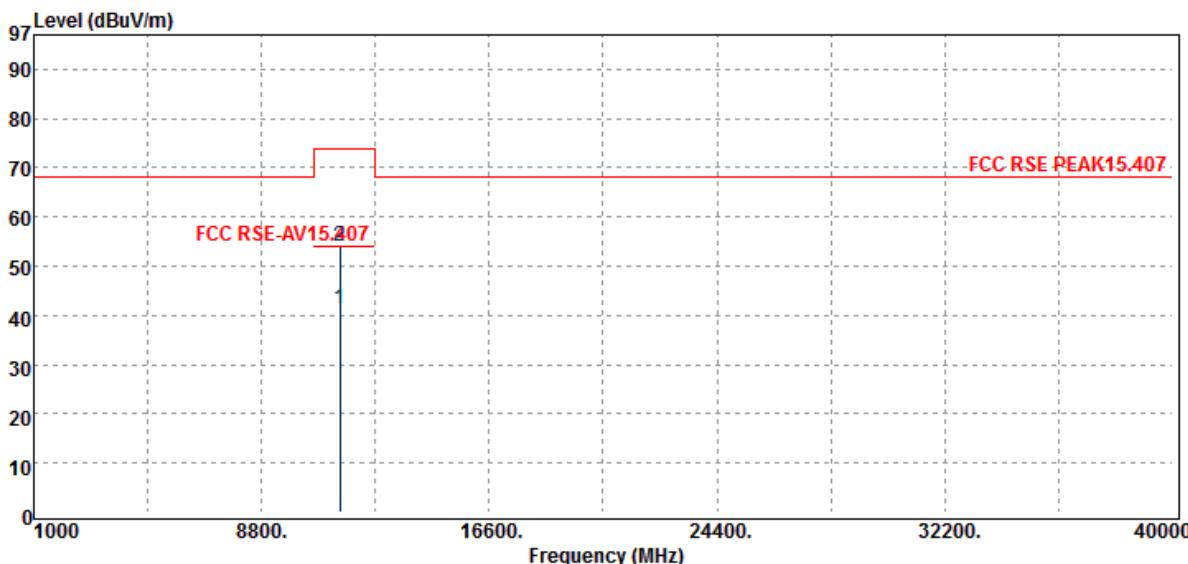
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Operation Band :802.11aB4  
 Fundamental Frequency :5745 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11490.00	H	Average	20.77	20.42	41.19	54.00	-12.81
11490.00	H	Peak	33.71	20.42	54.13	74.00	-19.87

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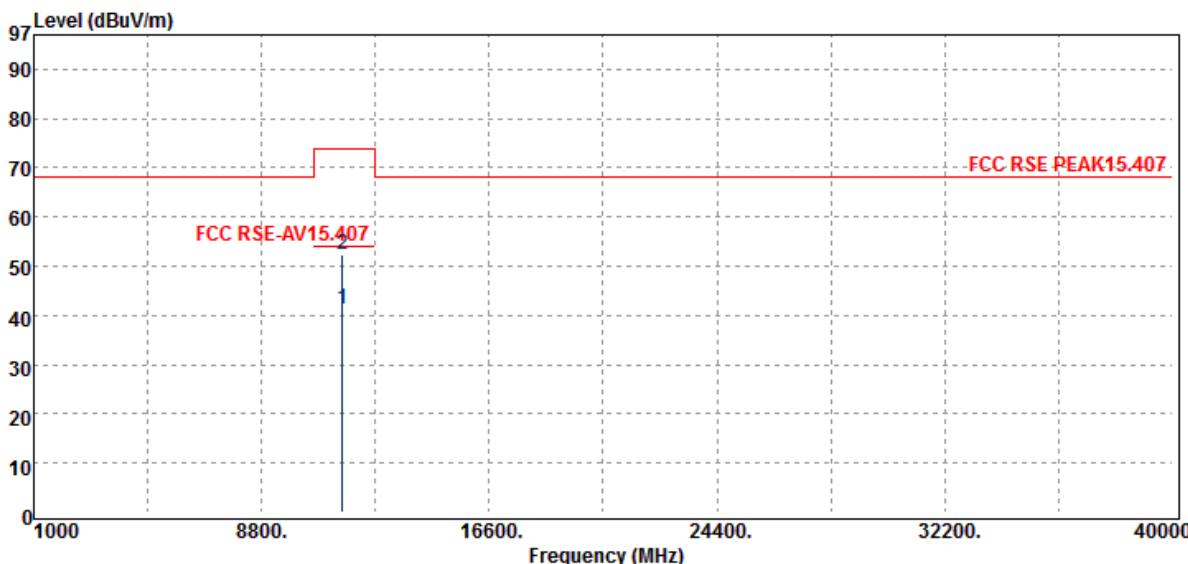
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Operation Band :802.11aB4  
Fundamental Frequency :5785 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :H Plane

Test Date :2017-05-15  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Mike  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11570.00	H	Average	20.73	20.58	41.31	54.00	-12.69
11570.00	H	Peak	31.68	20.58	52.26	74.00	-21.74

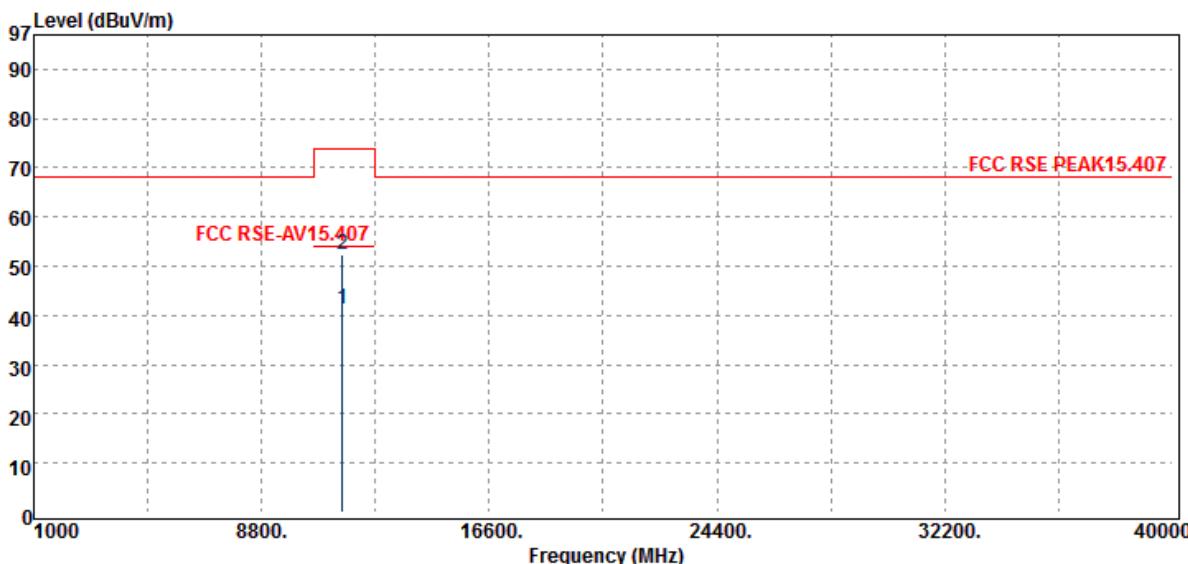
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Operation Band :802.11aB4  
 Fundamental Frequency :5785 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11570.00	H	Average	20.76	20.58	41.34	54.00	-12.66
11570.00	H	Peak	31.77	20.58	52.35	74.00	-21.65

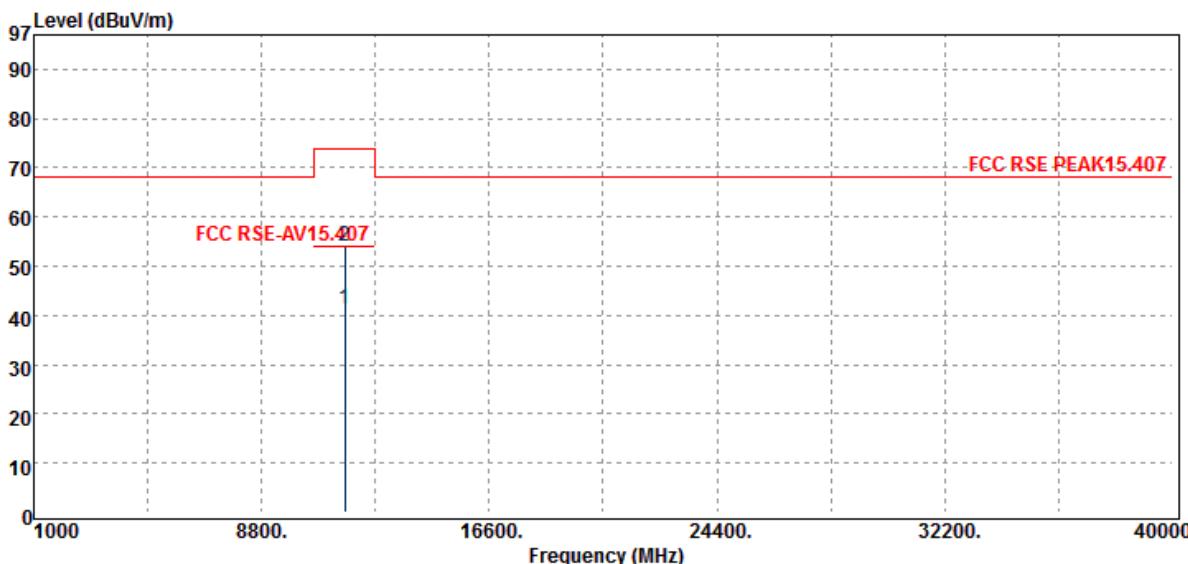
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Operation Band :802.11aB4  
Fundamental Frequency :5825 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :H Plane

Test Date :2017-05-15  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Mike  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11650.00	H	Average	20.78	20.43	41.21	54.00	-12.79
11650.00	H	Peak	33.65	20.43	54.08	74.00	-19.92

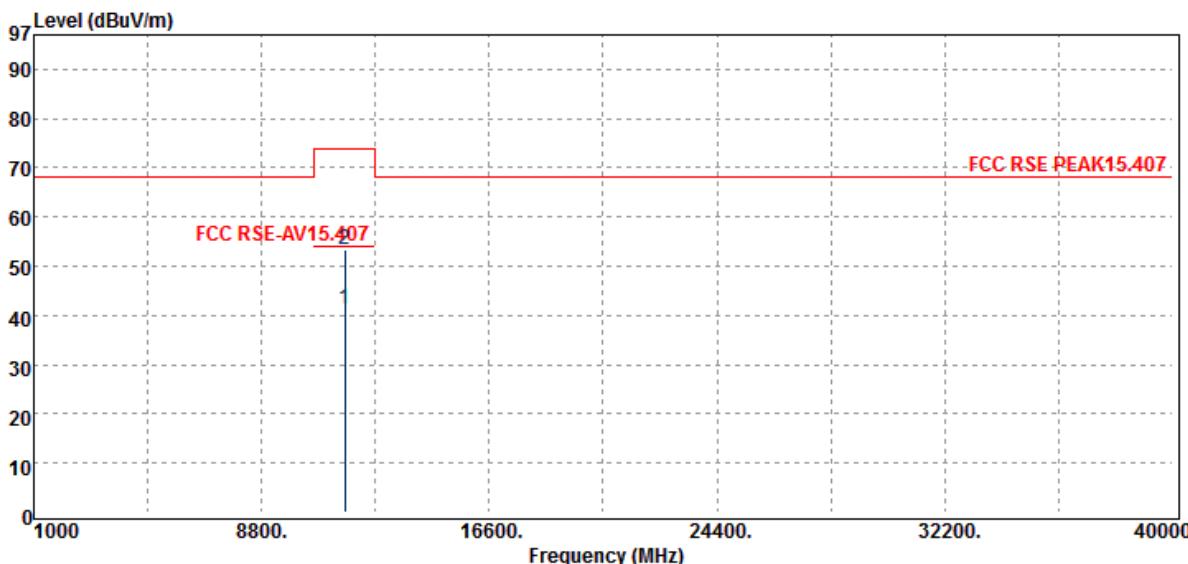
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Operation Band :802.11aB4  
 Fundamental Frequency :5825 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11650.00	H	Average	20.74	20.43	41.17	54.00	-12.83
11650.00	H	Peak	33.09	20.43	53.52	74.00	-20.48

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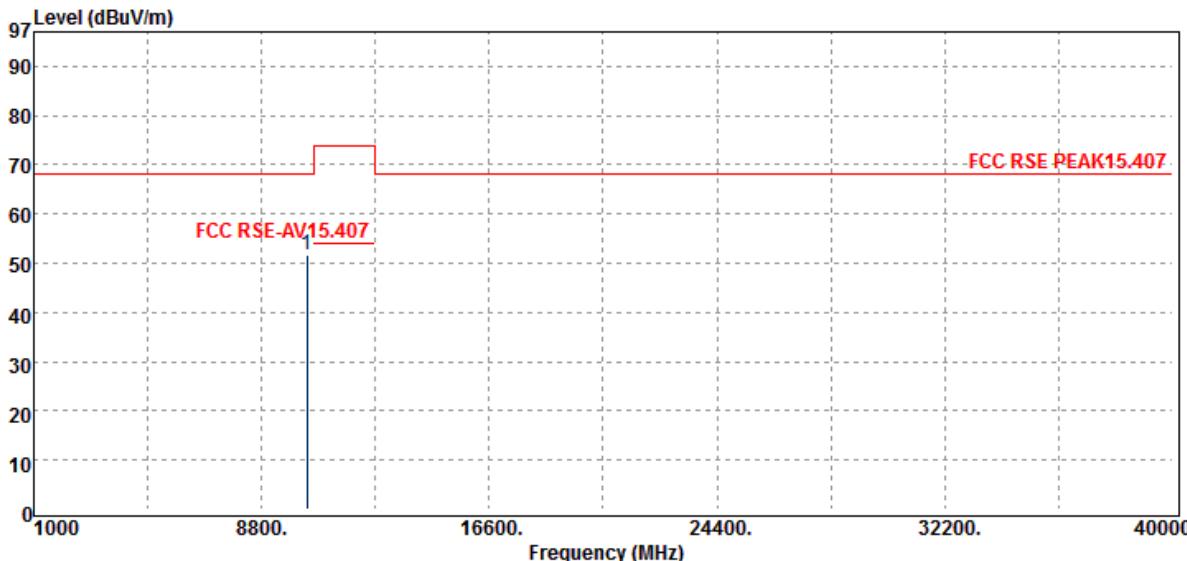
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**Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz**

Operation Band :802.11n20B1 Test Date :2017-05-15  
Fundamental Frequency :5180 MHz Temp./Humi. :23 deg\_C / 62 RH  
Operation Mode :Tx CH LOW Engineer :Mike  
EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10360.00	H	Peak	33.47	18.29	51.76	68.30	-16.54

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

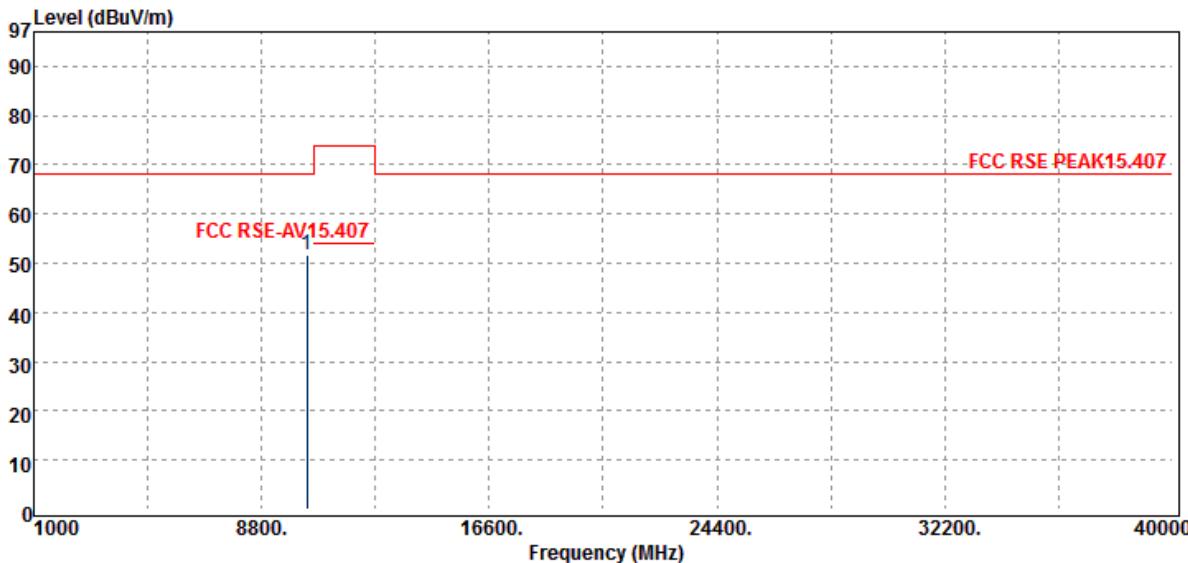
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Operation Band :802.11n20B1  
 Fundamental Frequency :5180 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10360.00	H	Peak	33.31	18.29	51.60	68.30	-16.70

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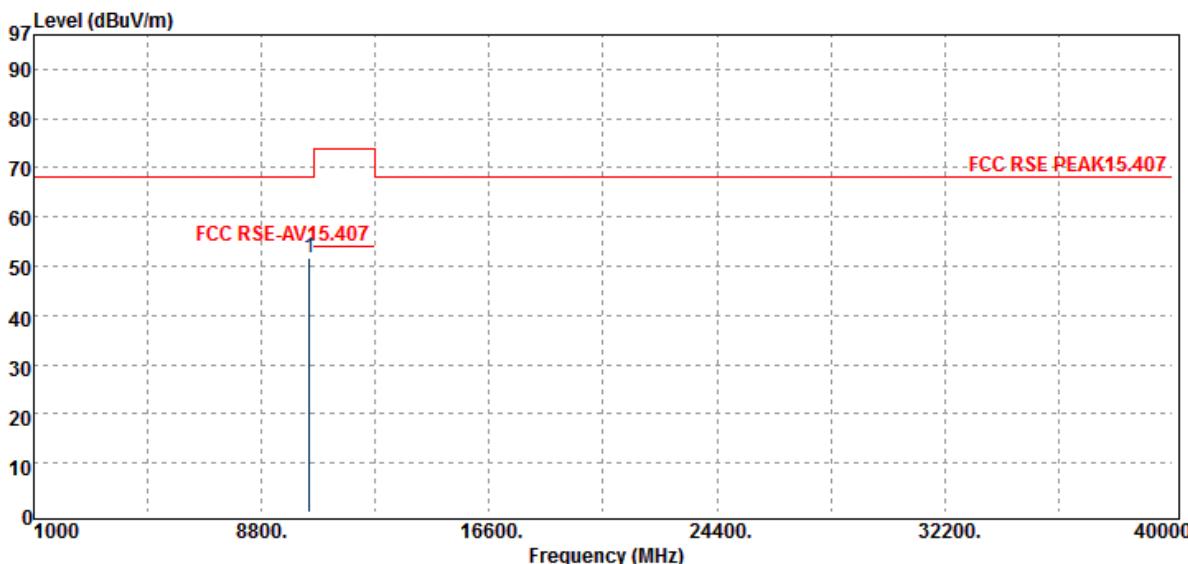
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Operation Band :802.11n20B1  
 Fundamental Frequency :5220 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10440.00	H	Peak	33.07	18.69	51.76	68.30	-16.54

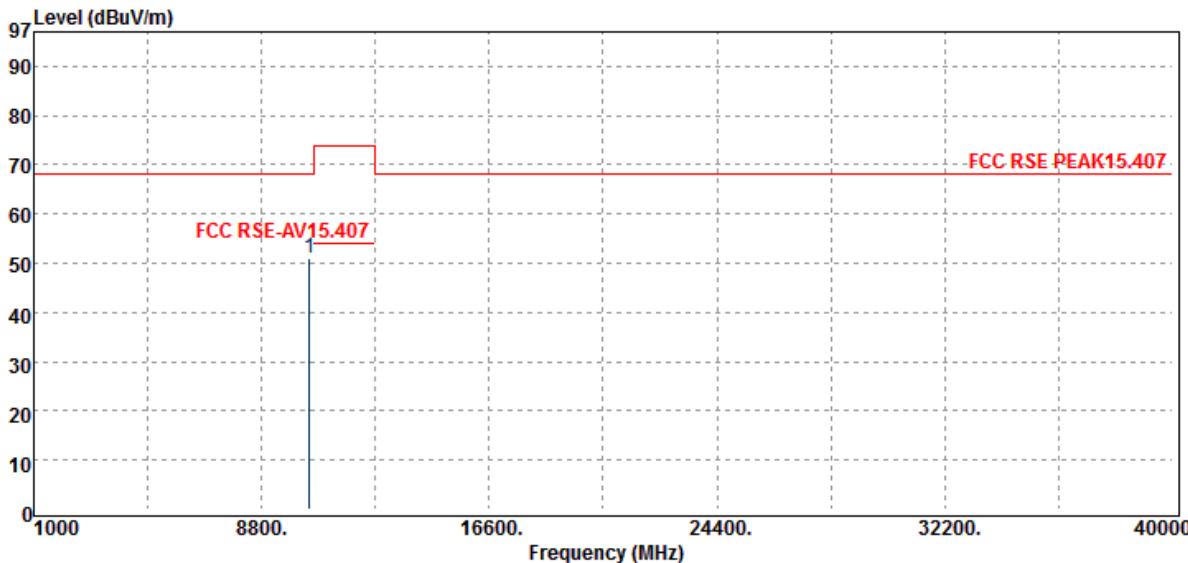
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Operation Band :802.11n20B1  
 Fundamental Frequency :5220 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10440.00	H	Peak	32.21	18.69	50.90	68.30	-17.40

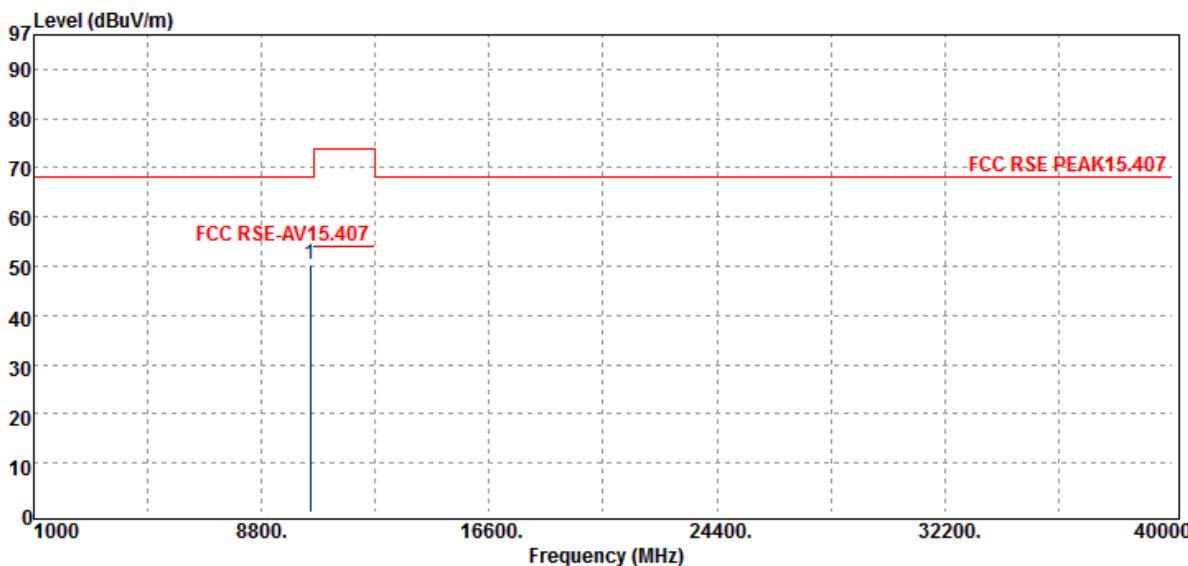
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Operation Band :802.11n20B1  
 Fundamental Frequency :5240 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10480.00	H	Peak	32.12	18.30	50.42	68.30	-17.88

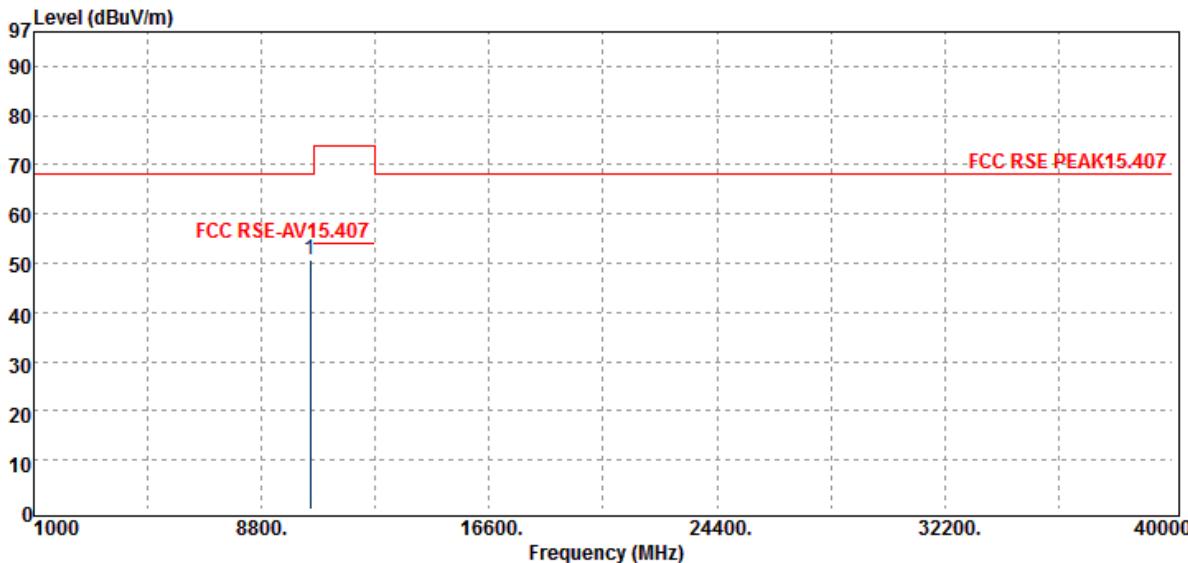
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Operation Band :802.11n20B1  
 Fundamental Frequency :5240 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10480.00	H	Peak	32.29	18.30	50.59	68.30	-17.71

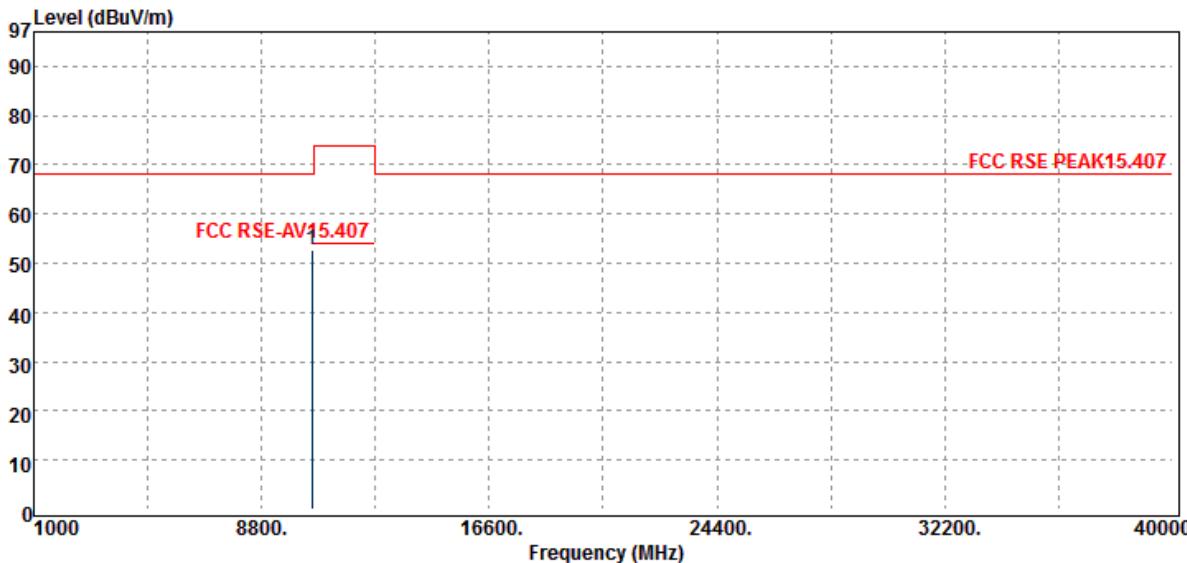
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**Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz**

Operation Band :802.11n20B2 Test Date :2017-05-15  
Fundamental Frequency :5260 MHz Temp./Humi. :23 deg\_C / 62 RH  
Operation Mode :Tx CH LOW Engineer :Mike  
EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10520.00	H	Peak	33.27	19.38	52.65	68.30	-15.65

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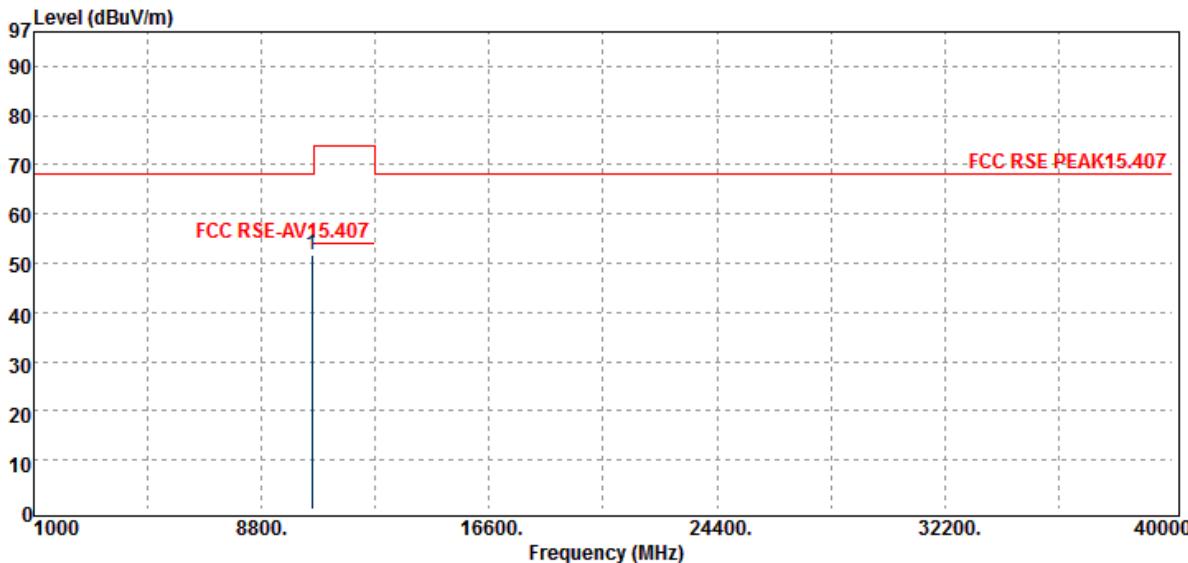
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Operation Band :802.11n20B2  
 Fundamental Frequency :5260 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10520.00	H	Peak	32.33	19.38	51.71	68.30	-16.59

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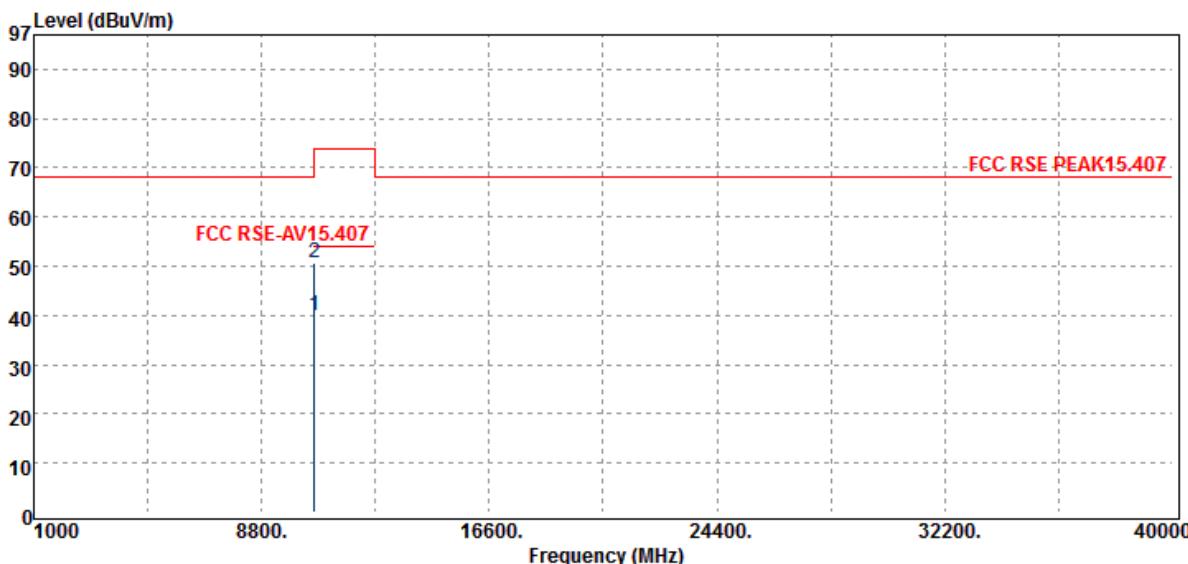
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Operation Band :802.11n20B2  
 Fundamental Frequency :5300 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10600.00	H	Average	20.89	18.91	39.80	54.00	-14.20
10600.00	H	Peak	31.94	18.91	50.85	74.00	-23.15

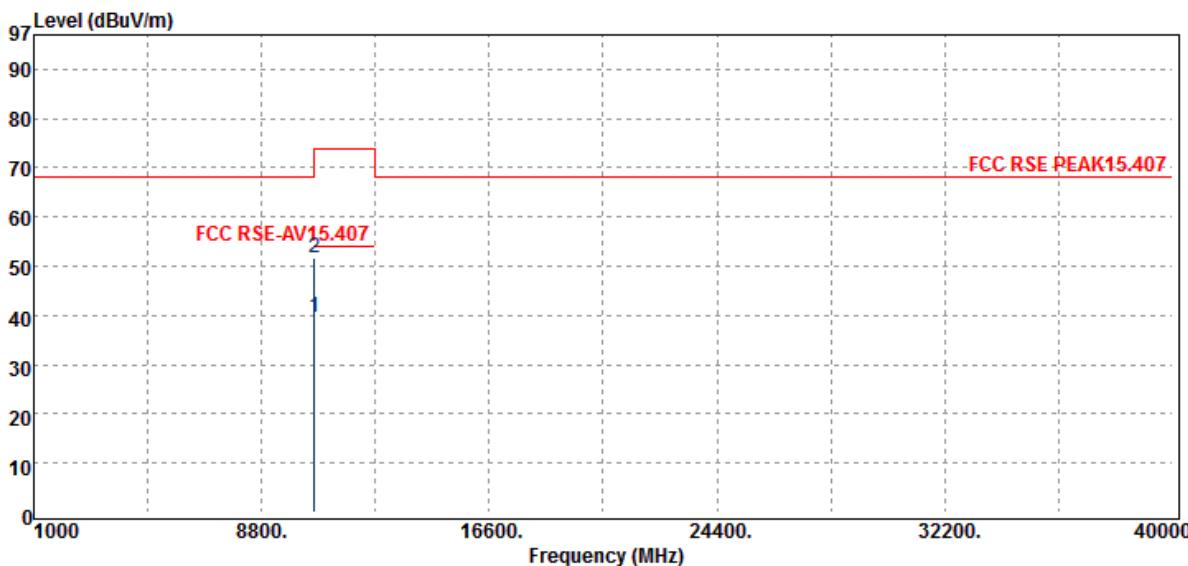
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Operation Band :802.11n20B2  
 Fundamental Frequency :5300 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10600.00	H	Average	20.77	18.91	39.68	54.00	-14.32
10600.00	H	Peak	32.91	18.91	51.82	74.00	-22.18

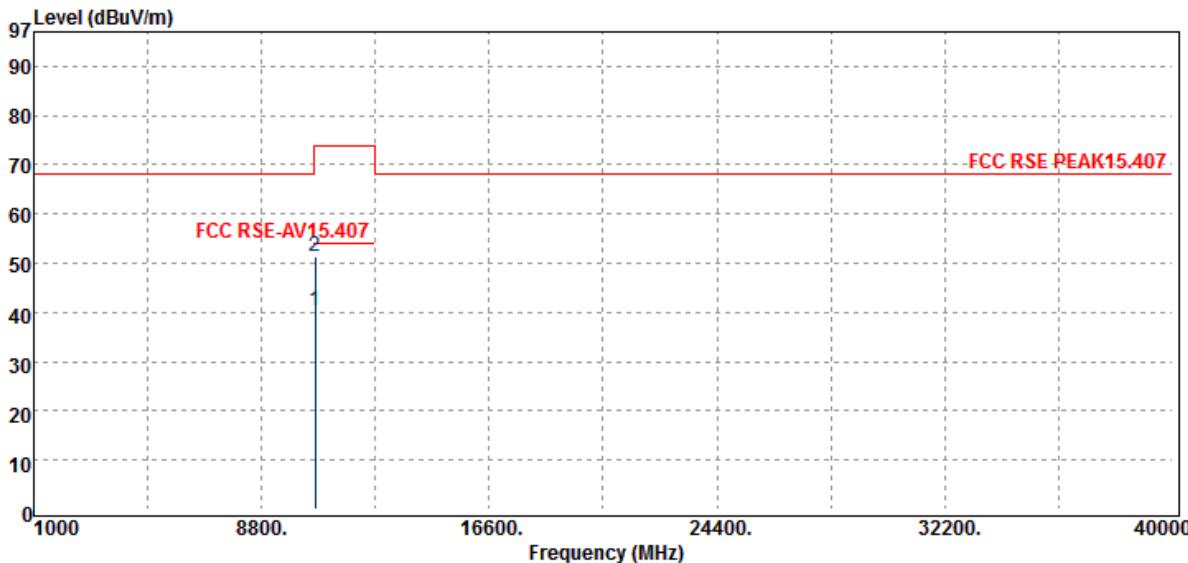
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Operation Band :802.11n20B2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10640.00	H	Average	20.94	19.19	40.13	54.00	-13.87
10640.00	H	Peak	32.28	19.19	51.47	74.00	-22.53

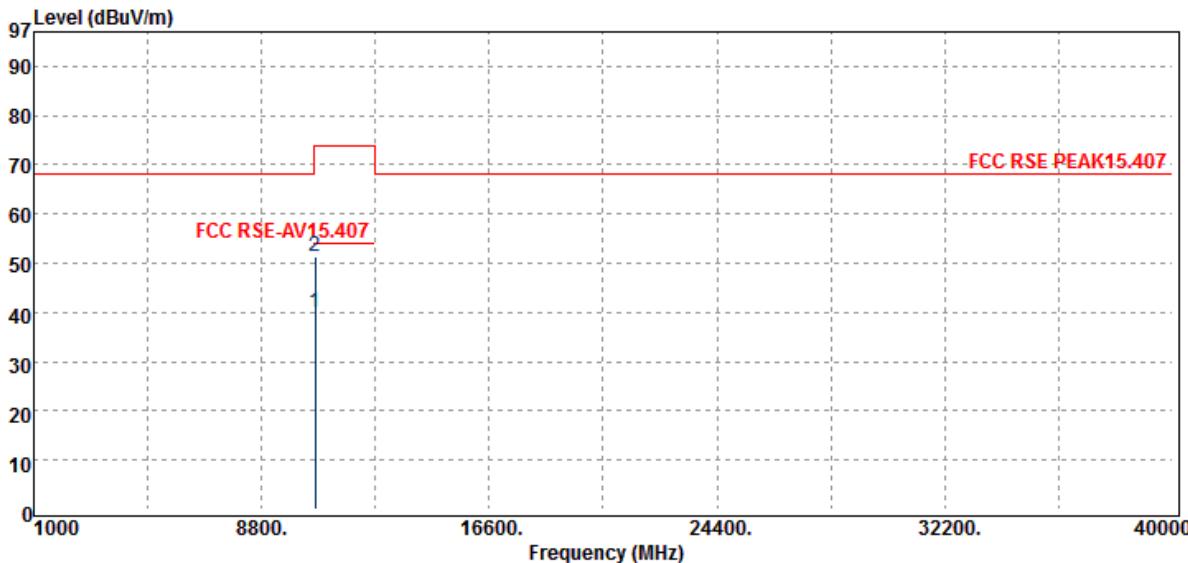
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Operation Band :802.11n20B2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10640.00	H	Average	20.90	19.19	40.09	54.00	-13.91
10640.00	H	Peak	32.16	19.19	51.35	74.00	-22.65

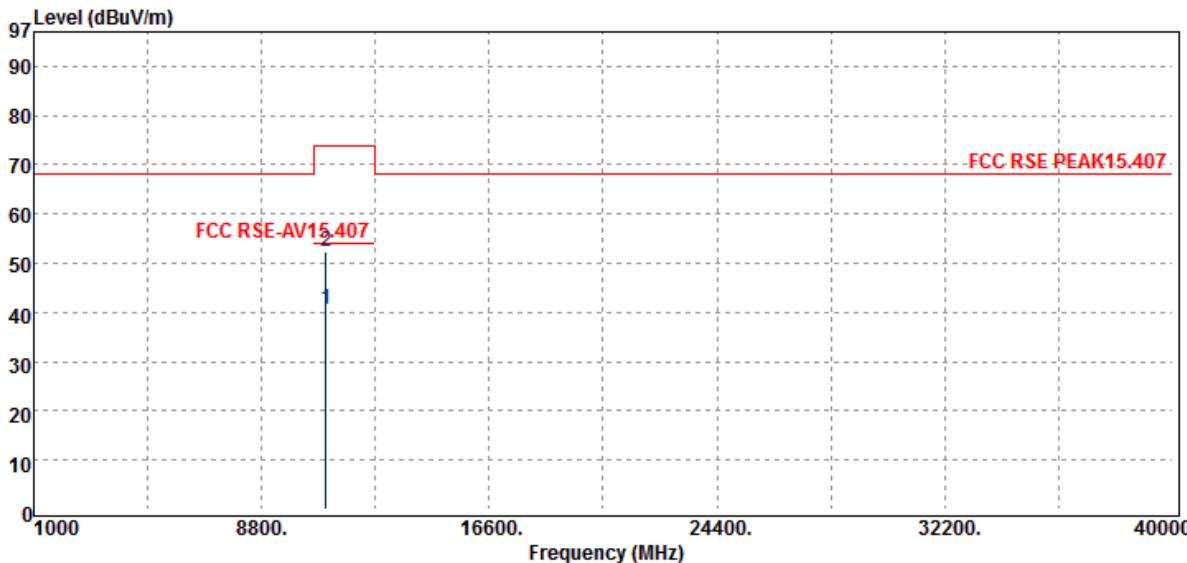
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## Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Band :802.11n20B3 Test Date :2017-05-15  
 Fundamental Frequency :5500 MHz Temp./Humi. :23 deg\_C / 62 RH  
 Operation Mode :Tx CH LOW Engineer :Mike  
 EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11000.00	H	Average	20.48	20.16	40.64	54.00	-13.36
11000.00	H	Peak	32.17	20.16	52.33	74.00	-21.67

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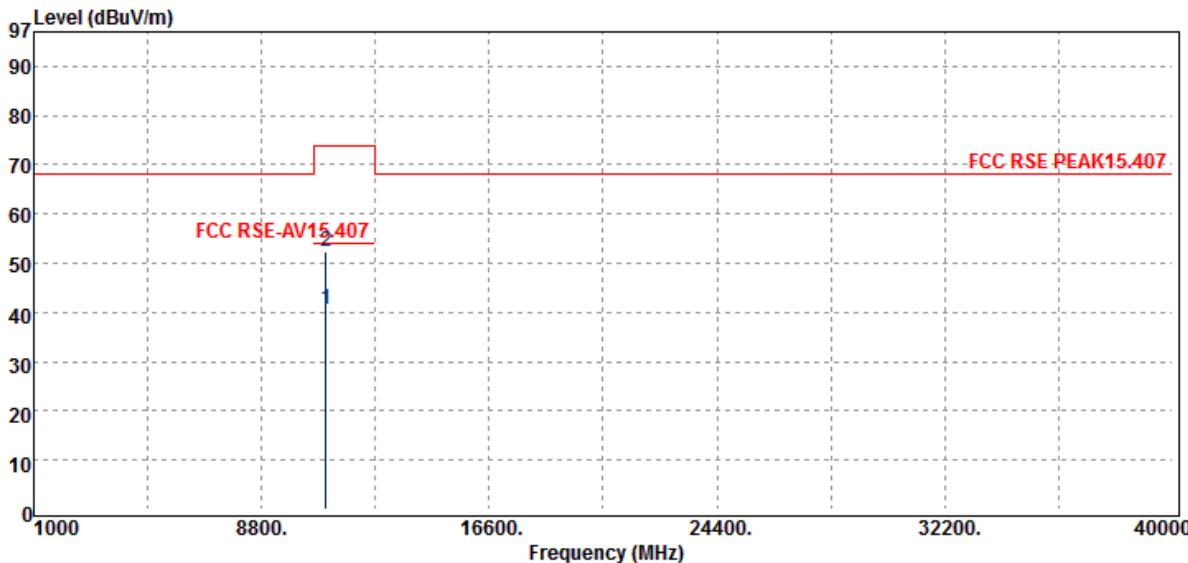
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Operation Band :802.11n20B3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11000.00	H	Average	20.50	20.16	40.66	54.00	-13.34
11000.00	H	Peak	32.32	20.16	52.48	74.00	-21.52

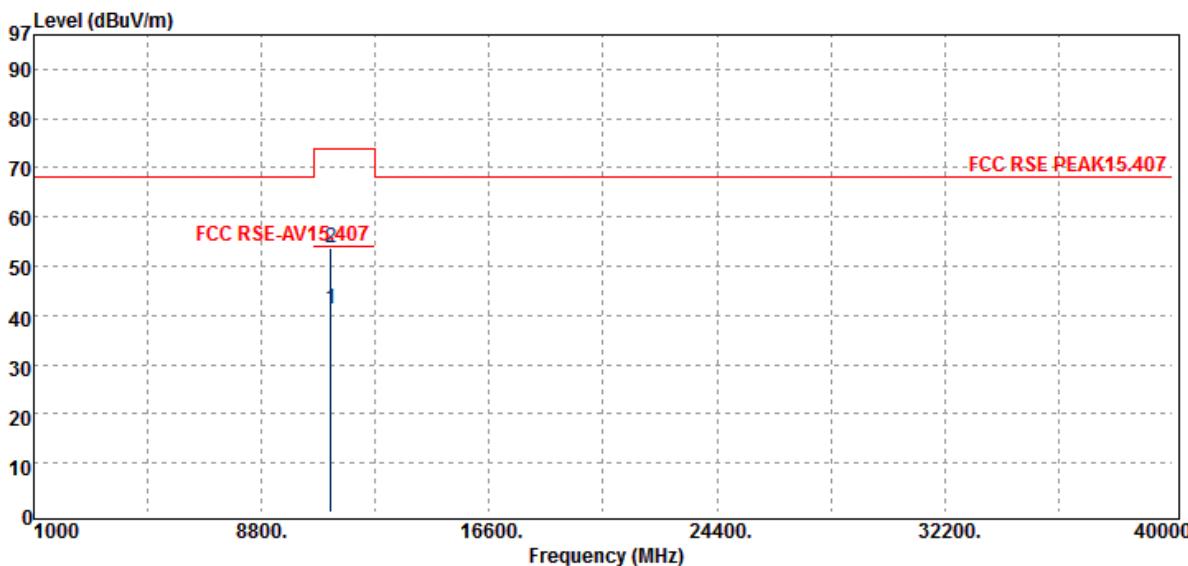
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Operation Band :802.11n20B3  
 Fundamental Frequency :5580 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11160.00	H	Average	20.85	20.44	41.29	54.00	-12.71
11160.00	H	Peak	33.32	20.44	53.76	74.00	-20.24

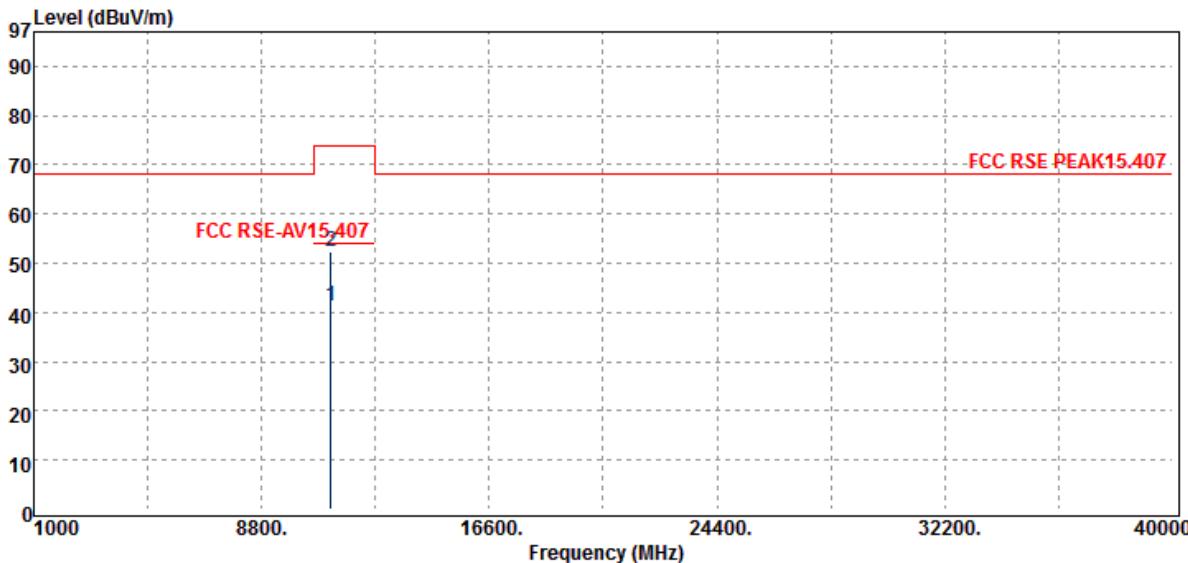
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Operation Band :802.11n20B3  
 Fundamental Frequency :5580 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11160.00	H	Average	20.81	20.44	41.25	54.00	-12.75
11160.00	H	Peak	31.92	20.44	52.36	74.00	-21.64

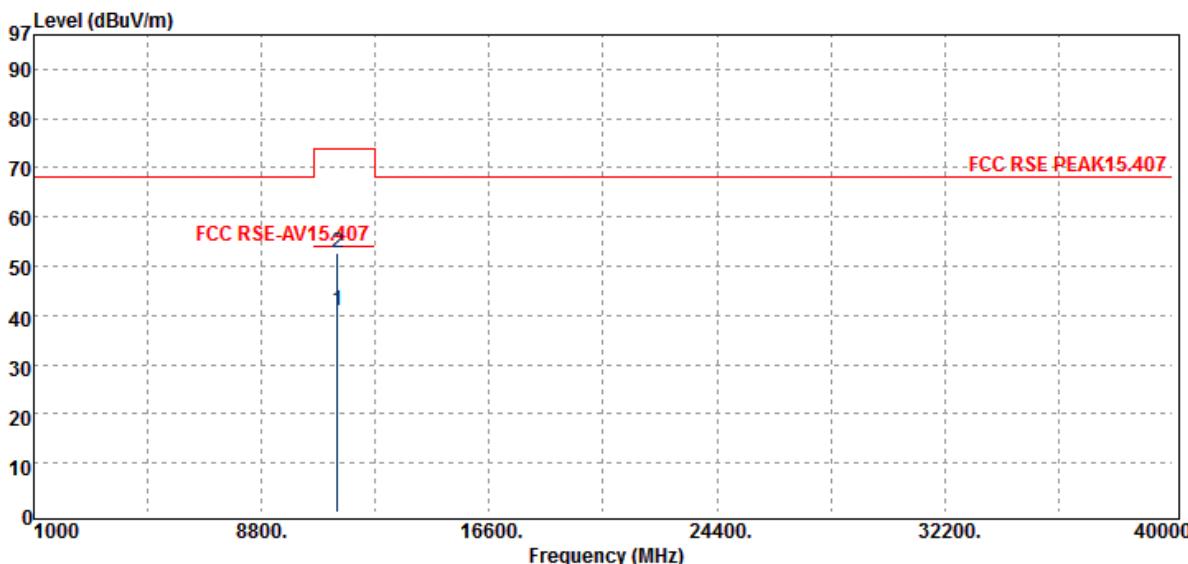
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Operation Band :802.11n20B3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11400.00	H	Average	20.54	20.56	41.10	54.00	-12.90
11400.00	H	Peak	32.29	20.56	52.85	74.00	-21.15

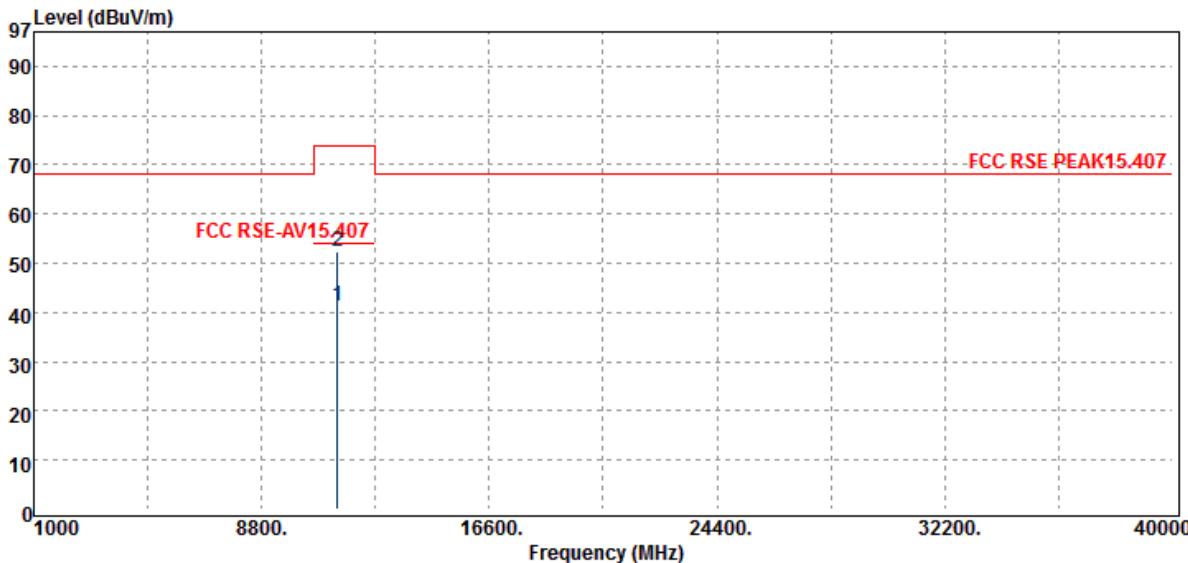
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Operation Band :802.11n20B3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11400.00	H	Average	20.59	20.56	41.15	54.00	-12.85
11400.00	H	Peak	31.72	20.56	52.28	74.00	-21.72

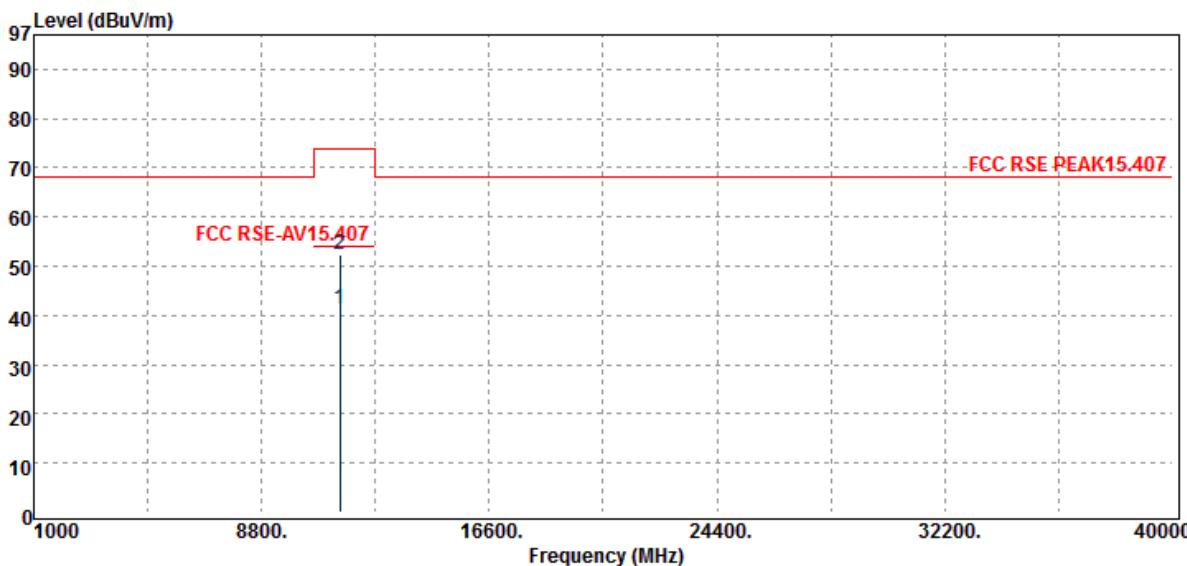
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## Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Band :802.11n20B4 Test Date :2017-05-15  
 Fundamental Frequency :5745 MHz Temp./Humi. :23 deg\_C / 62 RH  
 Operation Mode :Tx CH LOW Engineer :Mike  
 EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11490.00	H	Average	20.84	20.42	41.26	54.00	-12.74
11490.00	H	Peak	32.01	20.42	52.43	74.00	-21.57

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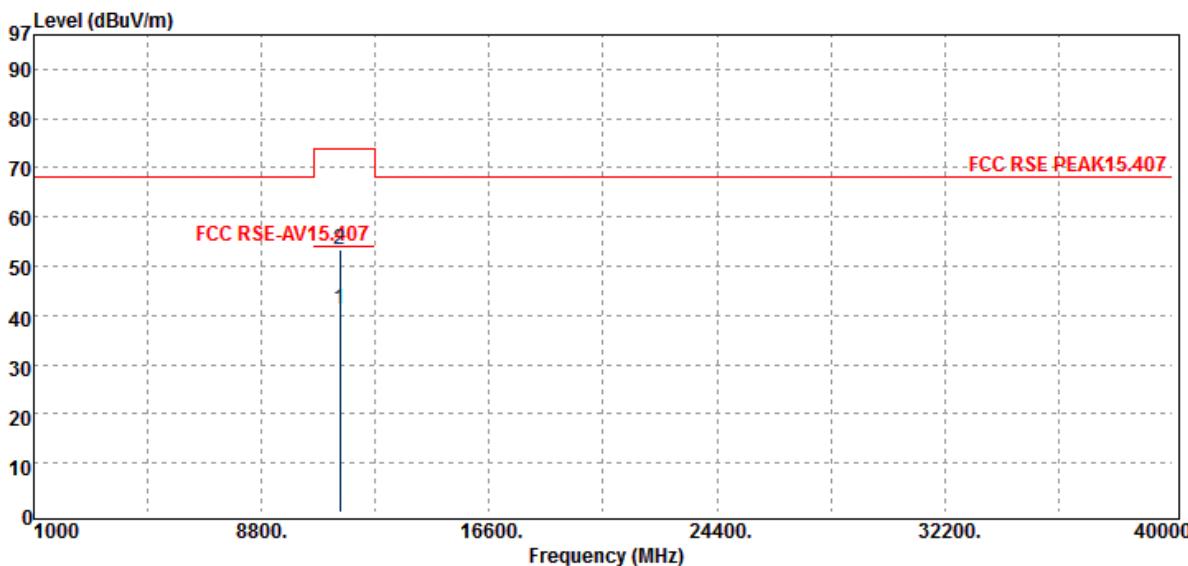
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Operation Band :802.11n20B4  
 Fundamental Frequency :5745 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11490.00	H	Average	20.79	20.42	41.21	54.00	-12.79
11490.00	H	Peak	33.02	20.42	53.44	74.00	-20.56

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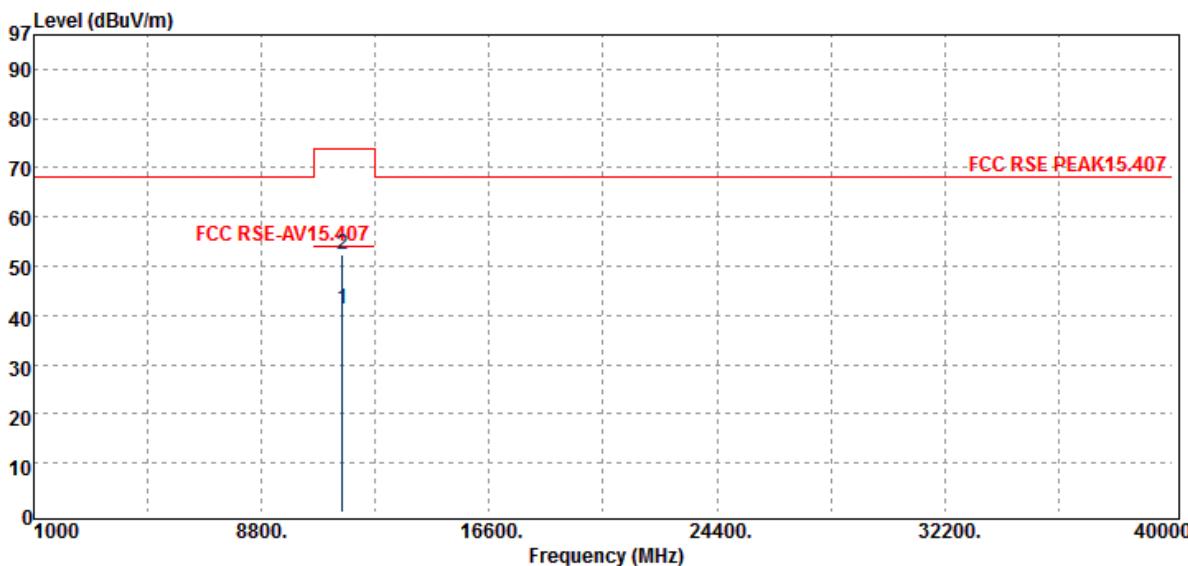
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Operation Band :802.11n20B4  
 Fundamental Frequency :5785 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11570.00	H	Average	20.69	20.58	41.27	54.00	-12.73
11570.00	H	Peak	31.85	20.58	52.43	74.00	-21.57

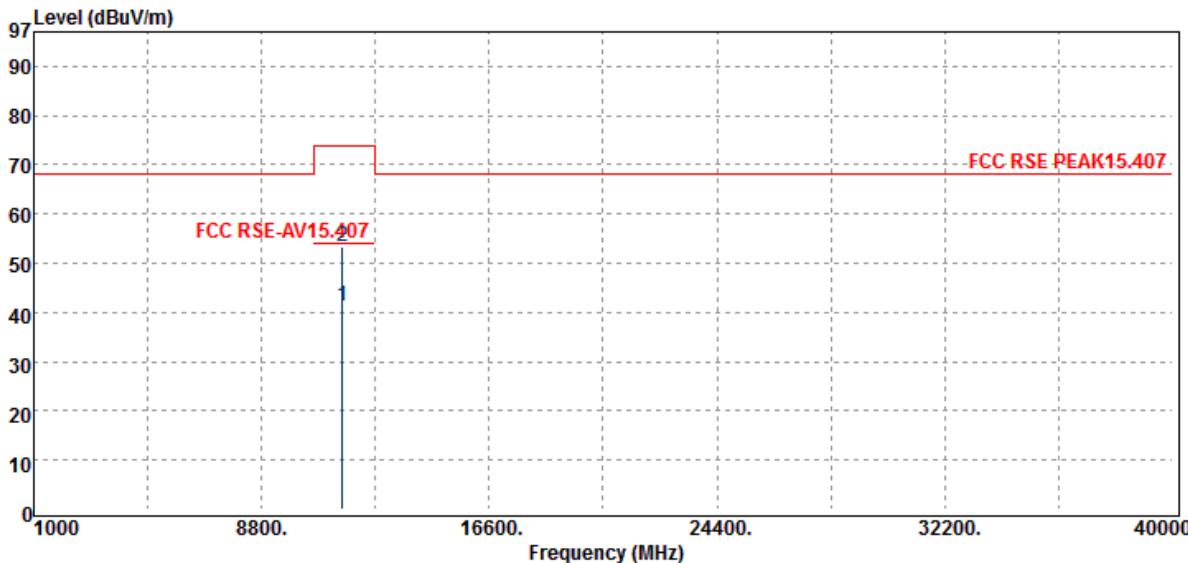
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Operation Band :802.11n20B4  
 Fundamental Frequency :5785 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



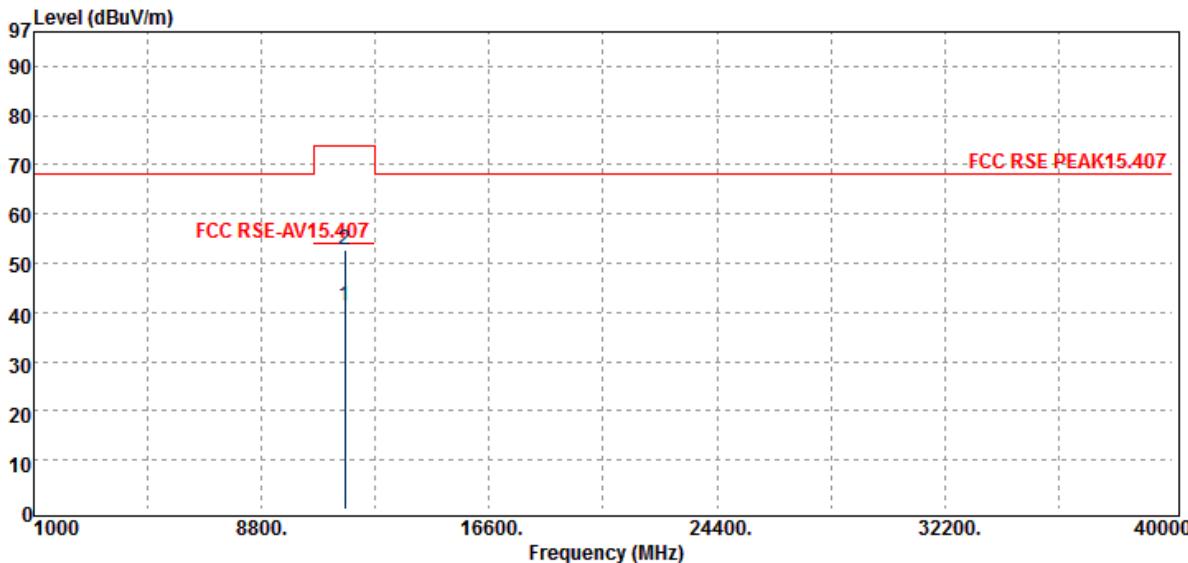
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11570.00	H	Average	20.73	20.58	41.31	54.00	-12.69
11570.00	H	Peak	32.75	20.58	53.33	74.00	-20.67

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Operation Band	:802.11n20B4	Test Date	:2017-05-15
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11650.00	H	Average	20.75	20.43	41.18	54.00	-12.82
11650.00	H	Peak	32.19	20.43	52.62	74.00	-21.38

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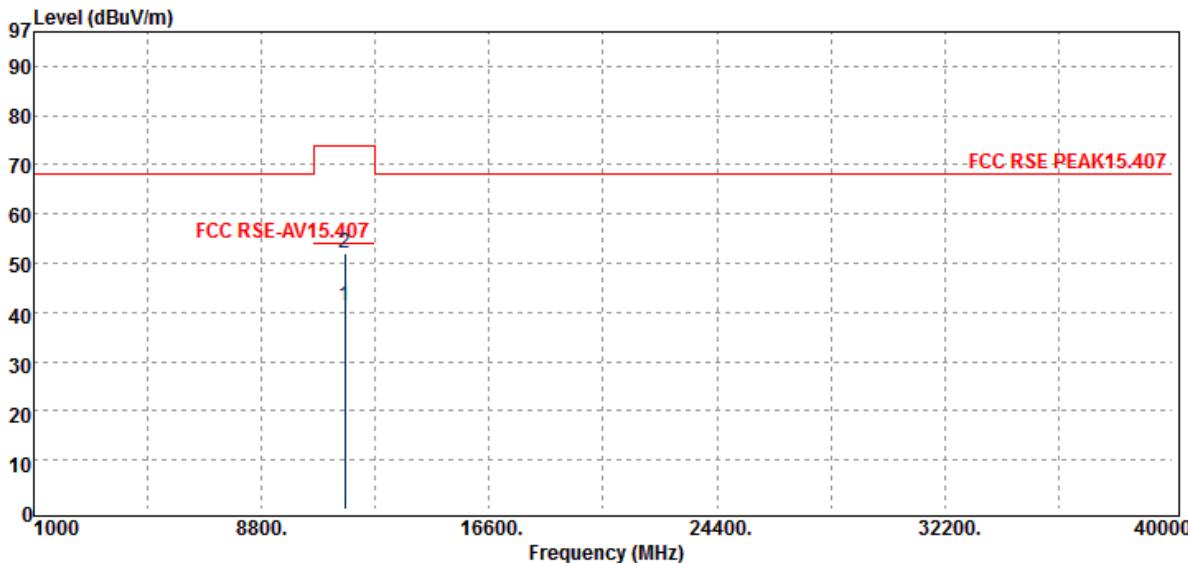
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Operation Band :802.11n20B4  
 Fundamental Frequency :5825 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11650.00	H	Average	20.77	20.43	41.20	54.00	-12.80
11650.00	H	Peak	31.76	20.43	52.19	74.00	-21.81

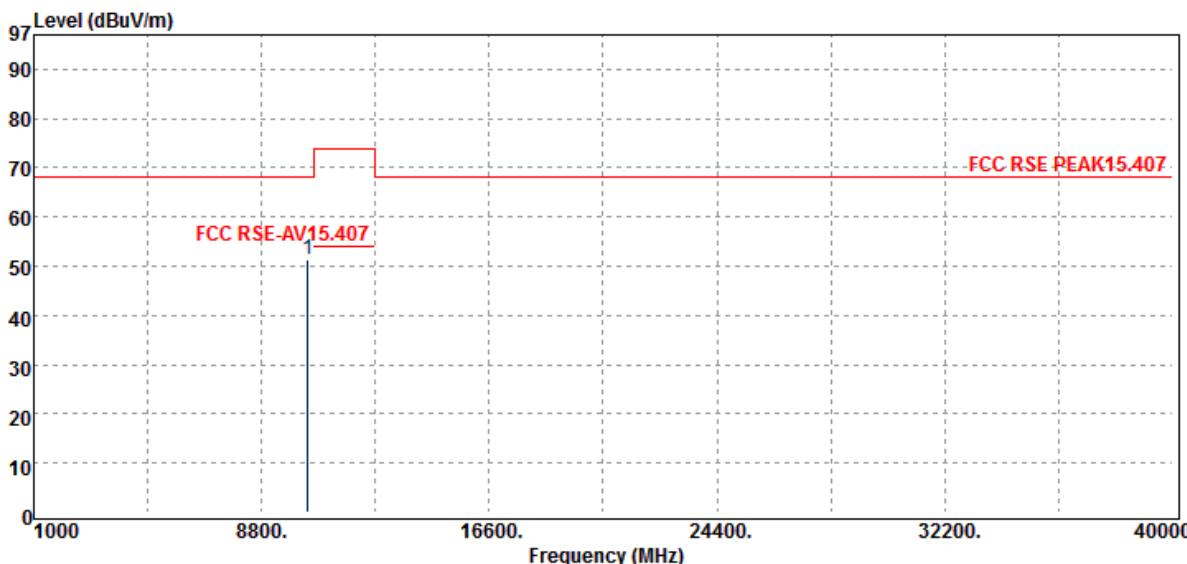
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Band :802.11n40B1 Test Date :2017-05-15  
 Fundamental Frequency :5190 MHz Temp./Humi. :23 deg\_C / 62 RH  
 Operation Mode :Tx CH LOW Engineer :Mike  
 EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10380.00	H	Peak	33.37	18.12	51.49	68.30	-16.81

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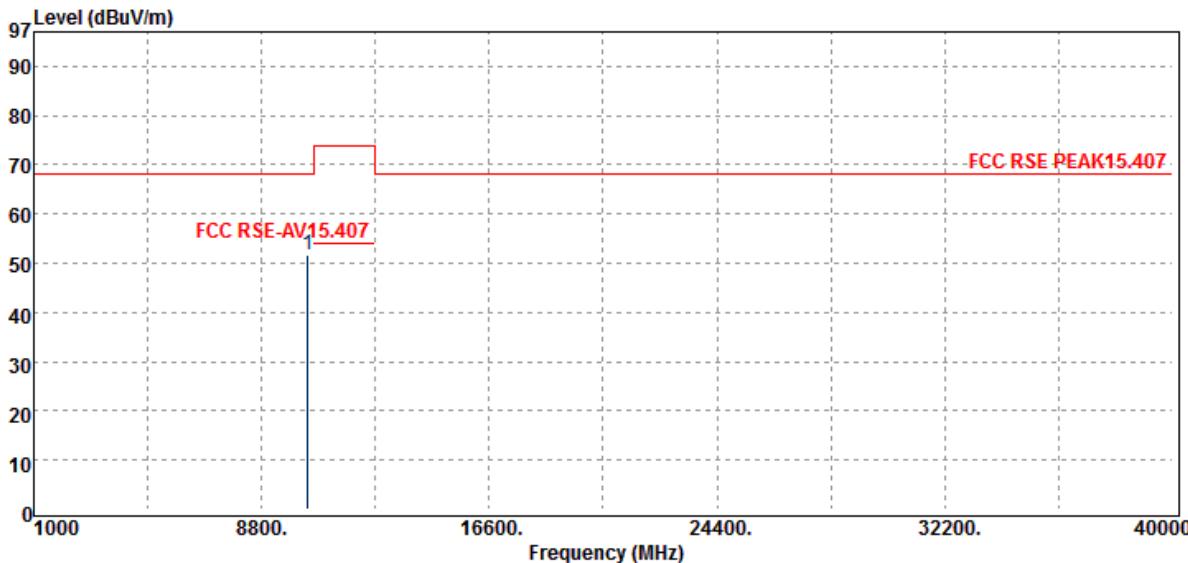
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Operation Band :802.11n40B1  
 Fundamental Frequency :5190 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10380.00	H	Peak	33.57	18.12	51.69	68.30	-16.61

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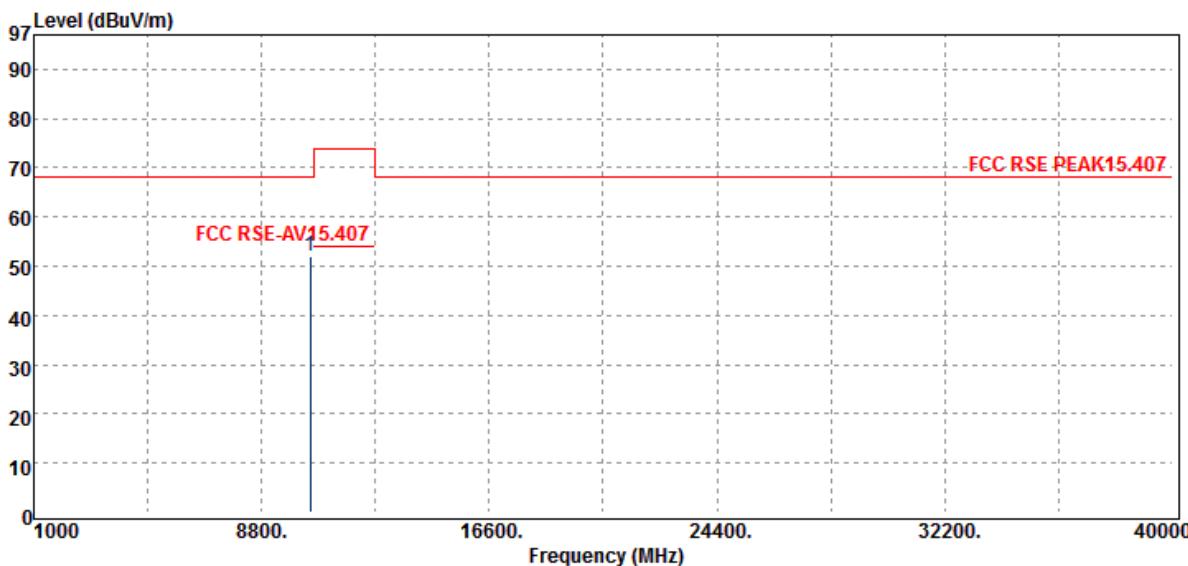
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Operation Band :802.11n40B1  
 Fundamental Frequency :5230 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10460.00	H	Peak	33.49	18.55	52.04	68.30	-16.26

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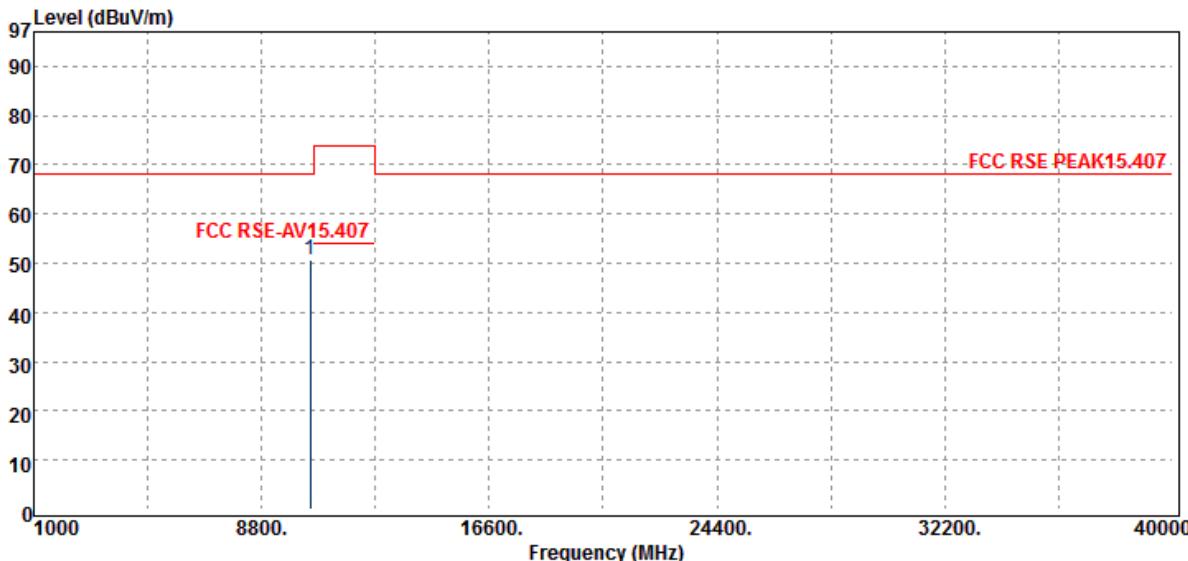
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Operation Band :802.11n40B1  
 Fundamental Frequency :5230 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10460.00	H	Peak	32.01	18.55	50.56	68.30	-17.74

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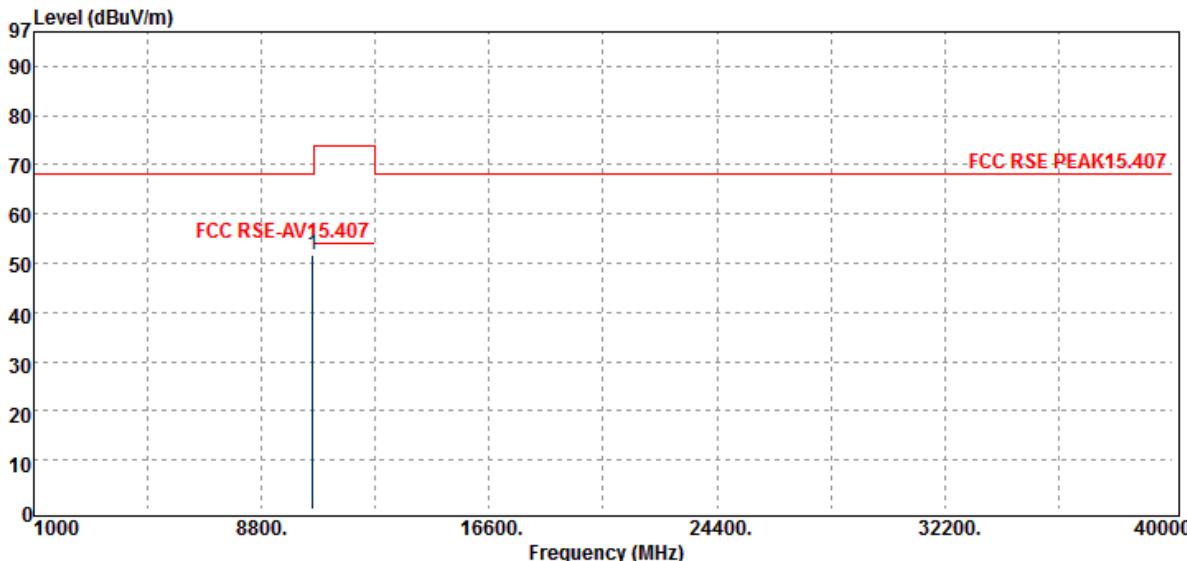
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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz**

Operation Band :802.11n40B2 Test Date :2017-05-15  
Fundamental Frequency :5270 MHz Temp./Humi. :23 deg\_C / 62 RH  
Operation Mode :Tx CH LOW Engineer :Mike  
EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10540.00	H	Peak	32.56	19.17	51.73	68.30	-16.57

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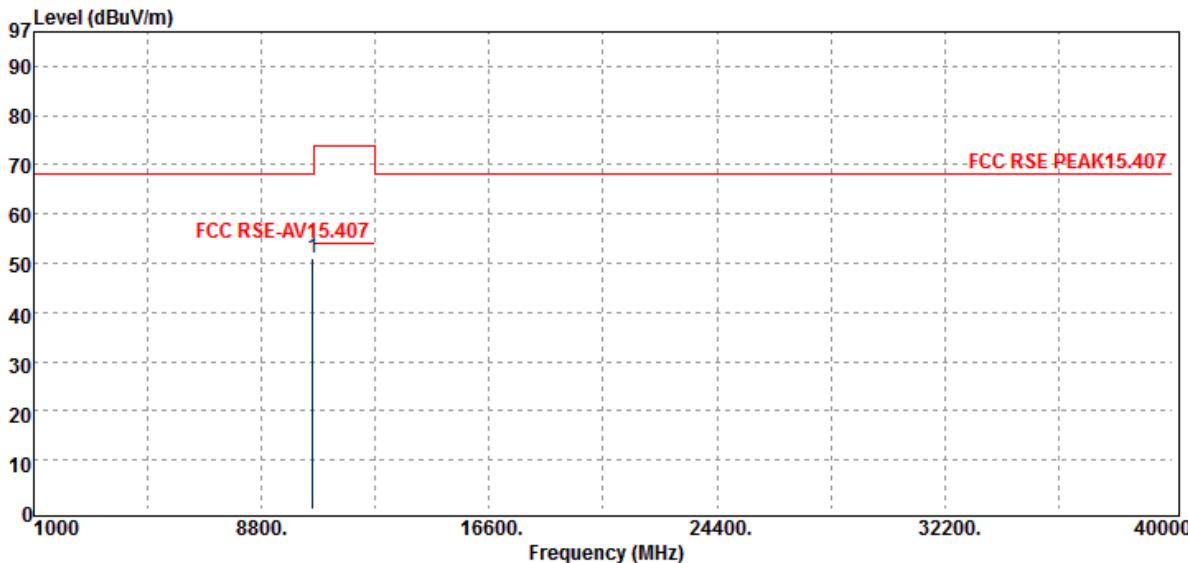
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Operation Band :802.11n40B2  
 Fundamental Frequency :5270 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10540.00	H	Peak	31.96	19.17	51.13	68.30	-17.17

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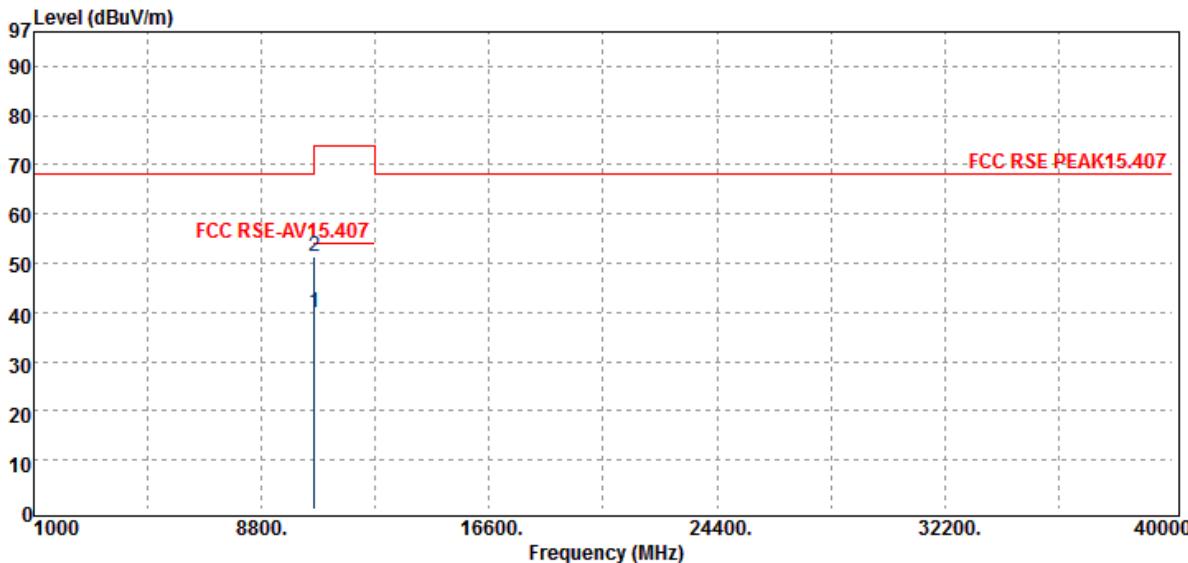
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Operation Band :802.11n40B2  
 Fundamental Frequency :5310 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10620.00	H	Average	20.78	19.11	39.89	54.00	-14.11
10620.00	H	Peak	32.22	19.11	51.33	74.00	-22.67

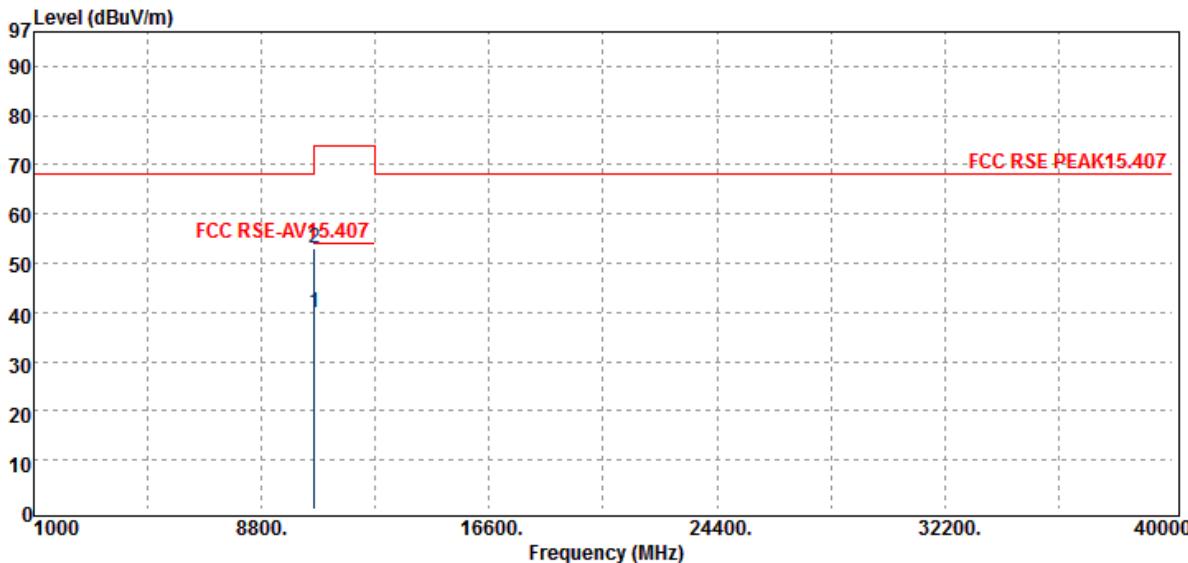
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Operation Band :802.11n40B2  
 Fundamental Frequency :5310 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
10620.00	H	Average	20.74	19.11	39.85	54.00	-14.15
10620.00	H	Peak	33.89	19.11	53.00	74.00	-21.00

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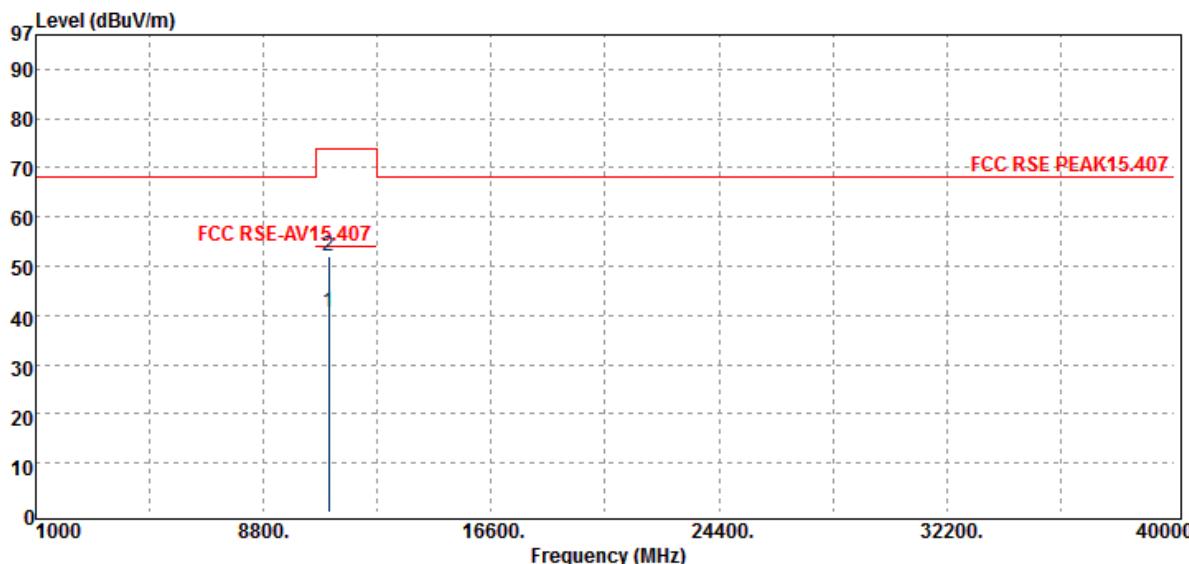
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Band :802.11n40B3 Test Date :2017-05-15  
 Fundamental Frequency :5510 MHz Temp./Humi. :23 deg\_C / 62 RH  
 Operation Mode :Tx CH LOW Engineer :Mike  
 EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11020.00	H	Average	20.41	20.16	40.57	54.00	-13.43
11020.00	H	Peak	31.94	20.16	52.10	74.00	-21.90

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

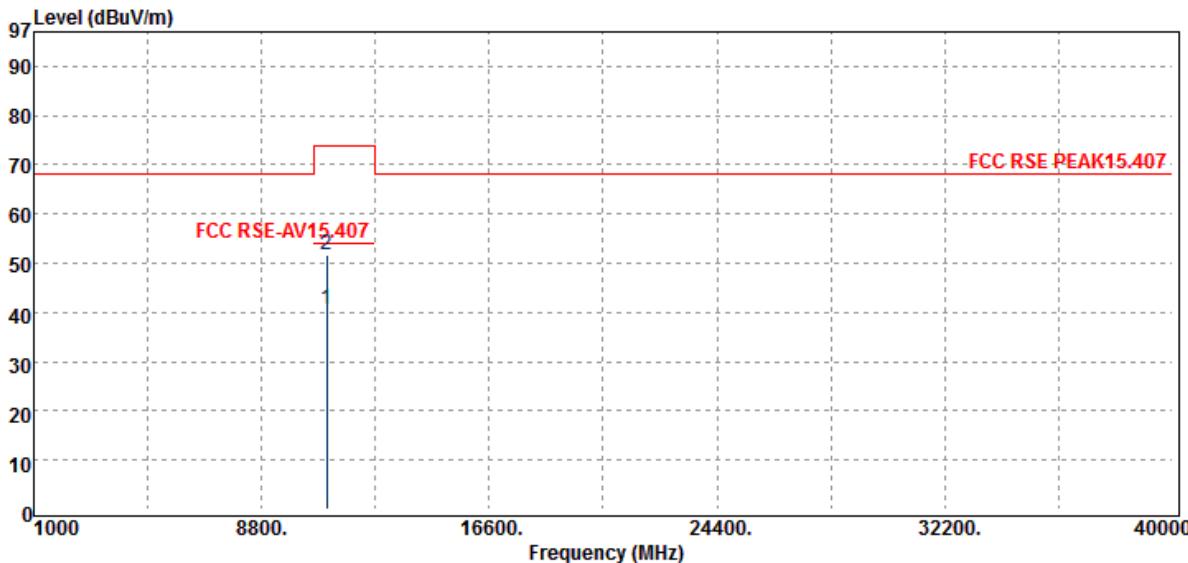
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Operation Band :802.11n40B3  
 Fundamental Frequency :5510 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11020.00	H	Average	20.48	20.16	40.64	54.00	-13.36
11020.00	H	Peak	31.68	20.16	51.84	74.00	-22.16

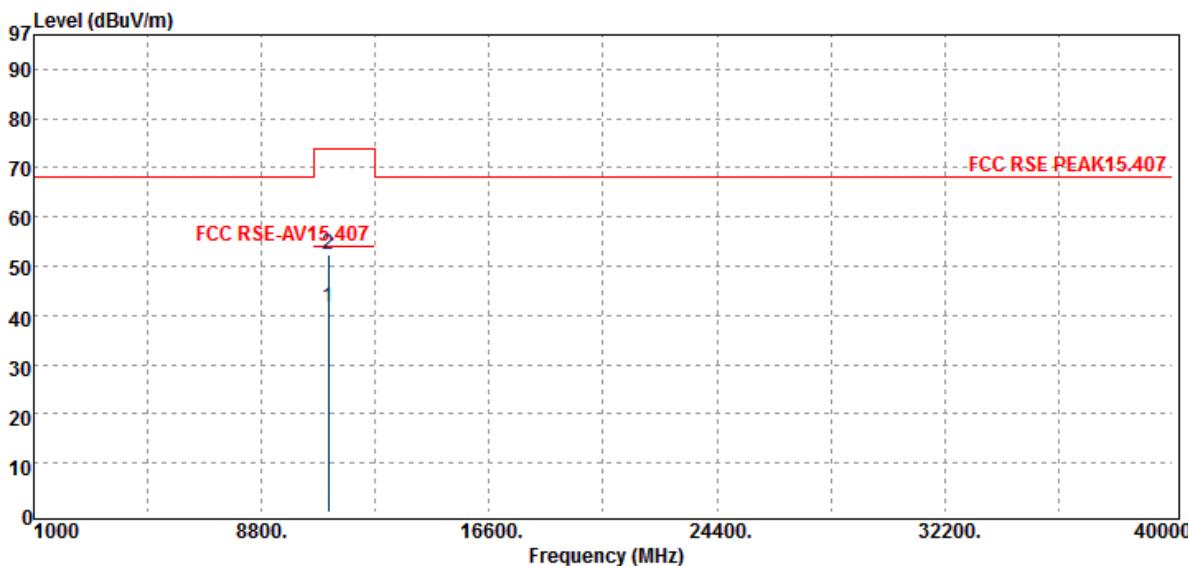
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Operation Band :802.11n40B3  
 Fundamental Frequency :5550 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11100.00	H	Average	21.23	20.32	41.55	54.00	-12.45
11100.00	H	Peak	32.00	20.32	52.32	74.00	-21.68

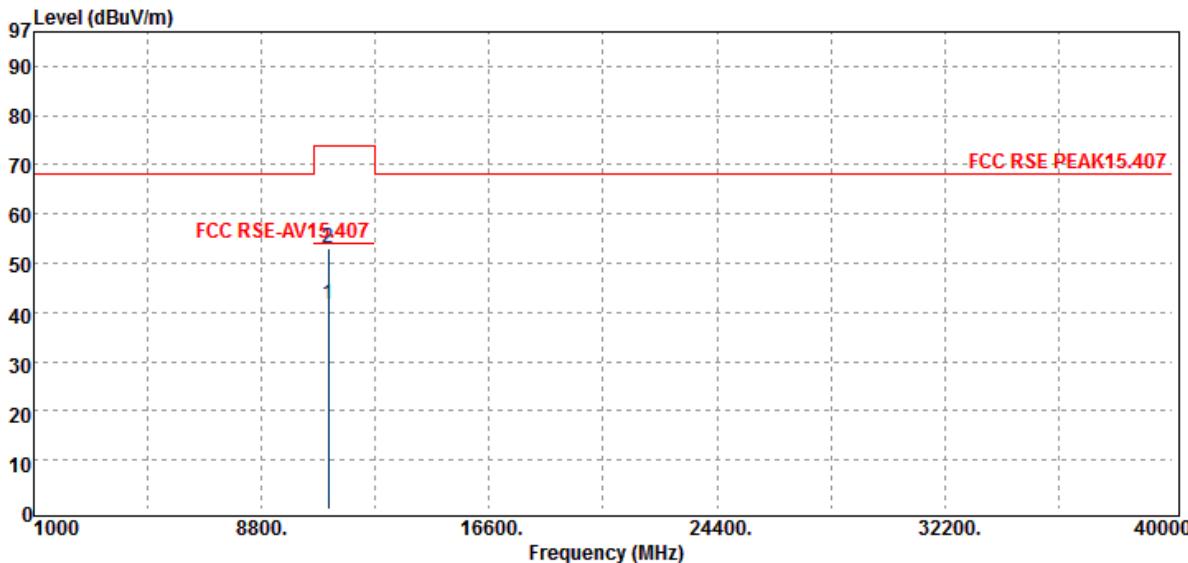
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Operation Band :802.11n40B3  
 Fundamental Frequency :5550 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11100.00	H	Average	21.29	20.32	41.61	54.00	-12.39
11100.00	H	Peak	32.68	20.32	53.00	74.00	-21.00

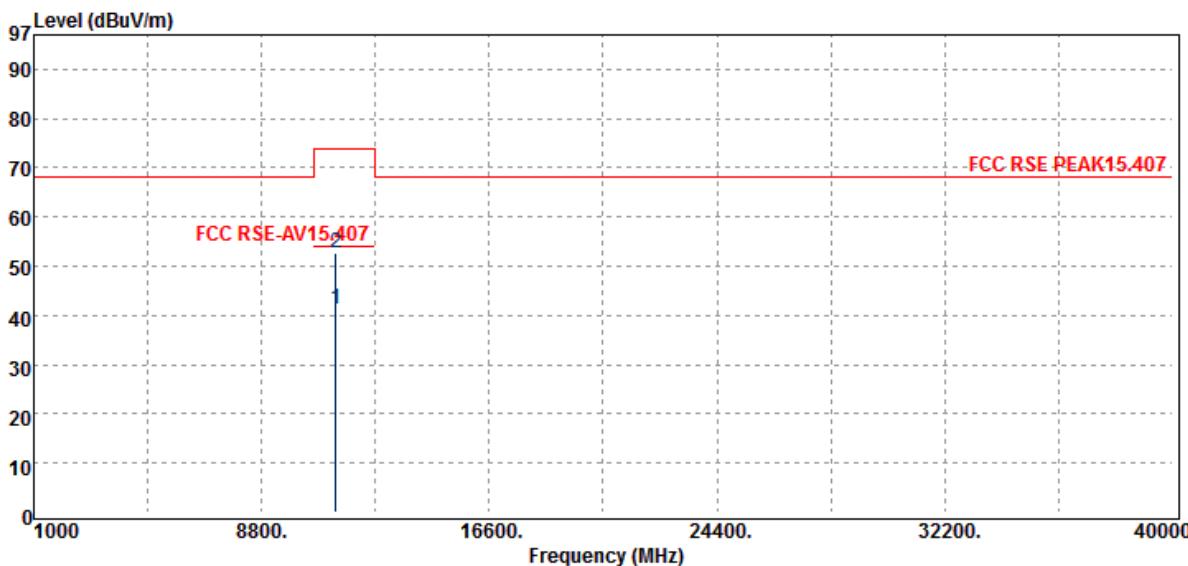
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Operation Band :802.11n40B3  
 Fundamental Frequency :5670 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11340.00	H	Average	21.04	20.38	41.42	54.00	-12.58
11340.00	H	Peak	32.20	20.38	52.58	74.00	-21.42

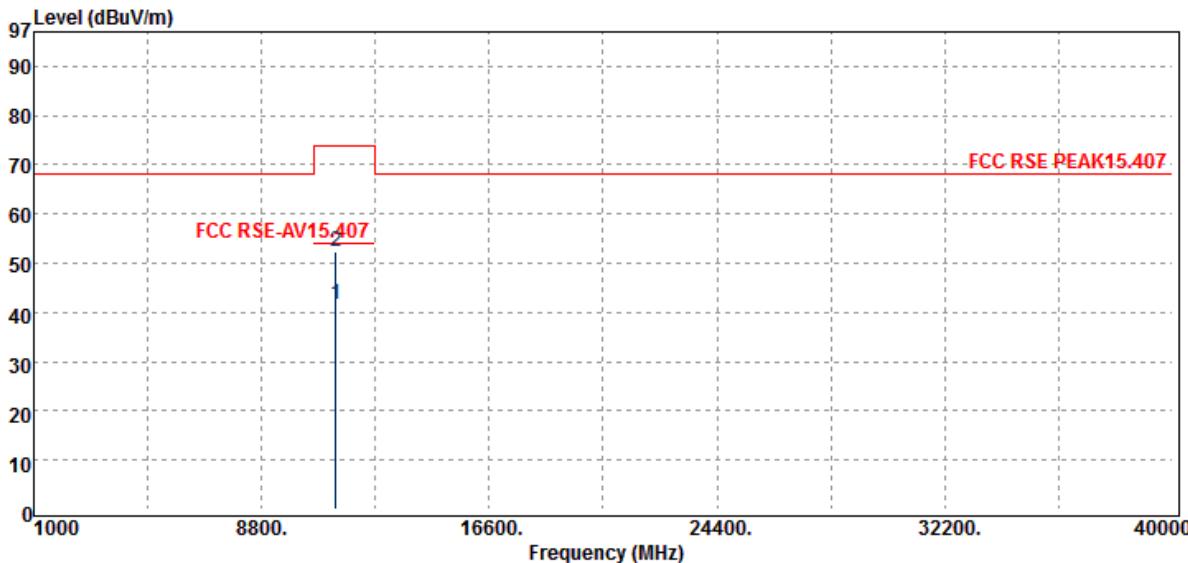
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Operation Band :802.11n40B3  
 Fundamental Frequency :5670 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11340.00	H	Average	21.10	20.38	41.48	54.00	-12.52
11340.00	H	Peak	32.02	20.38	52.40	74.00	-21.60

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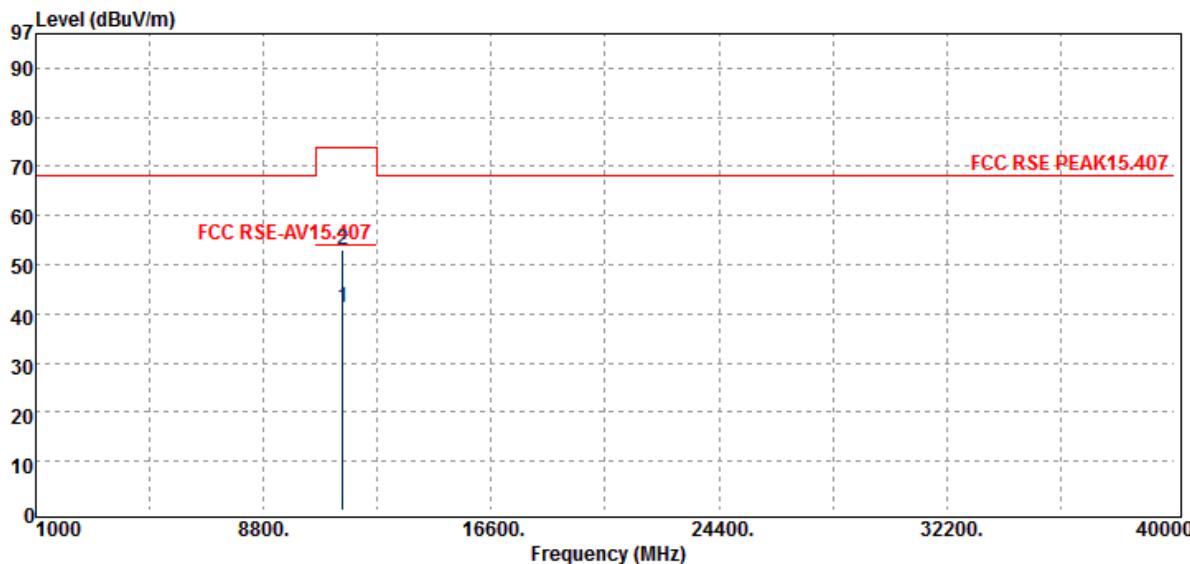
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Band :802.11n40B4 Test Date :2017-05-15  
 Fundamental Frequency :5755 MHz Temp./Humi. :23 deg\_C / 62 RH  
 Operation Mode :Tx CH LOW Engineer :Mike  
 EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11510.00	H	Average	20.80	20.38	41.18	54.00	-12.82
11510.00	H	Peak	32.67	20.38	53.05	74.00	-20.95

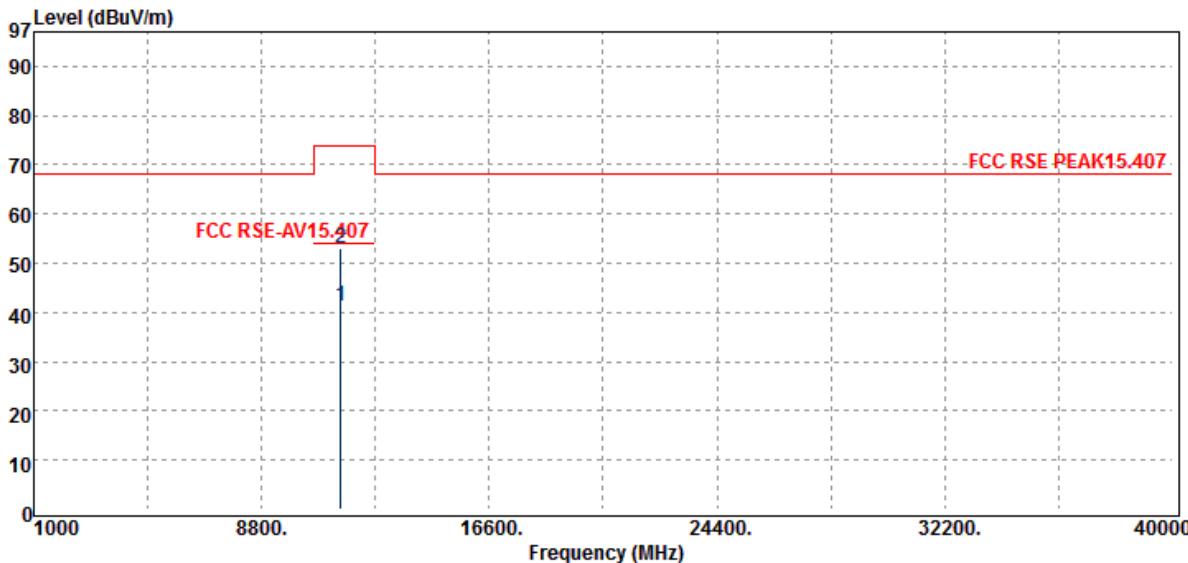
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Operation Band :802.11n40B4  
 Fundamental Frequency :5755 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11510.00	H	Average	20.77	20.38	41.15	54.00	-12.85
11510.00	H	Peak	32.64	20.38	53.02	74.00	-20.98

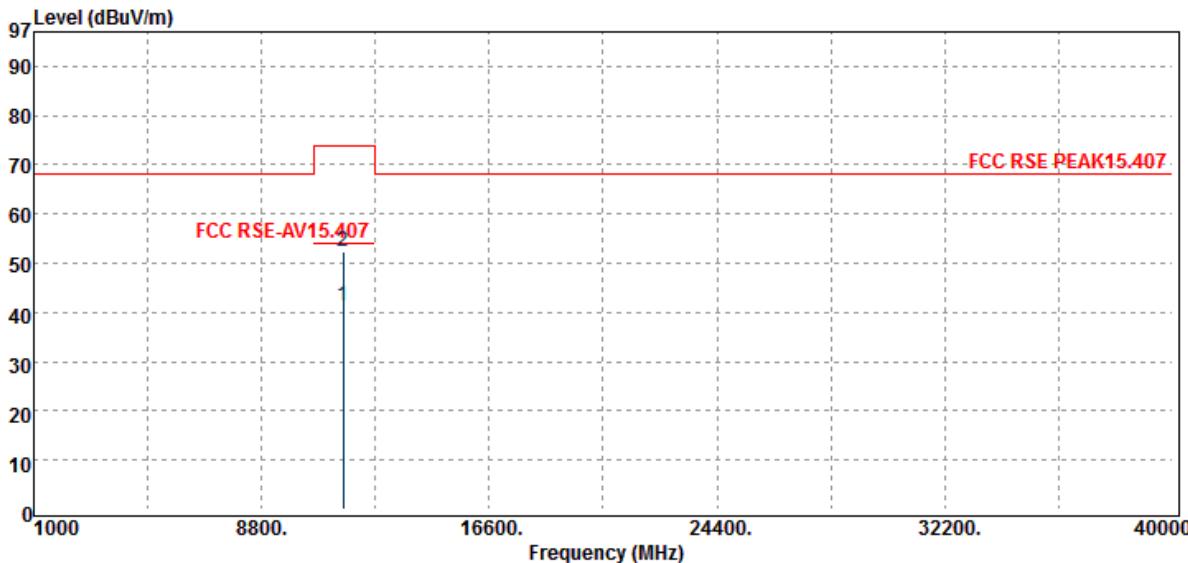
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Operation Band	:802.11n40B4	Test Date	:2017-05-15
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11590.00	H	Average	20.75	20.43	41.18	54.00	-12.82
11590.00	H	Peak	32.01	20.43	52.44	74.00	-21.56

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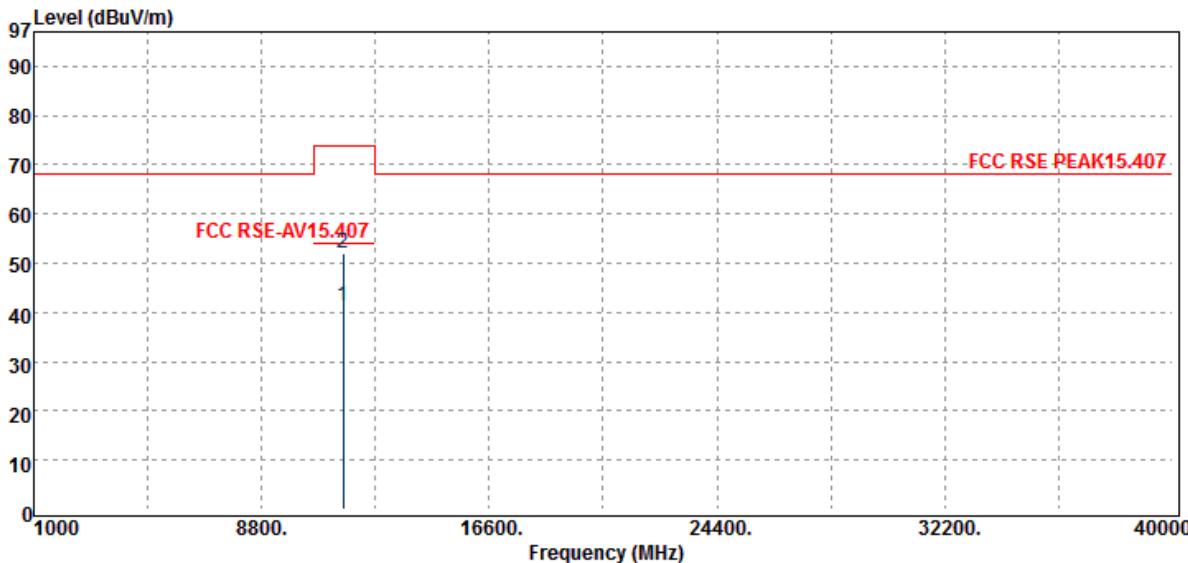
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Operation Band :802.11n40B4  
 Fundamental Frequency :5795 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-15  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11590.00	H	Average	20.73	20.43	41.16	54.00	-12.84
11590.00	H	Peak	31.68	20.43	52.11	74.00	-21.89

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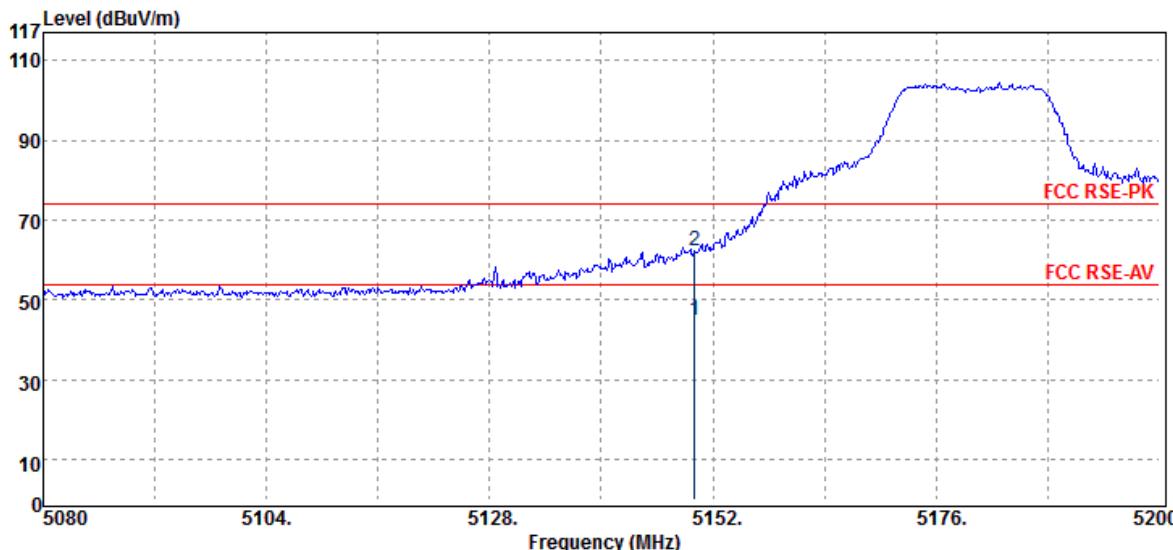
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**Band edge falling to restricted band****802.11a mode**

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

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	E	Average	38.89	5.88	44.77	54.00	-9.23
5150.00	E	Peak	56.52	5.88	62.40	74.00	-11.60

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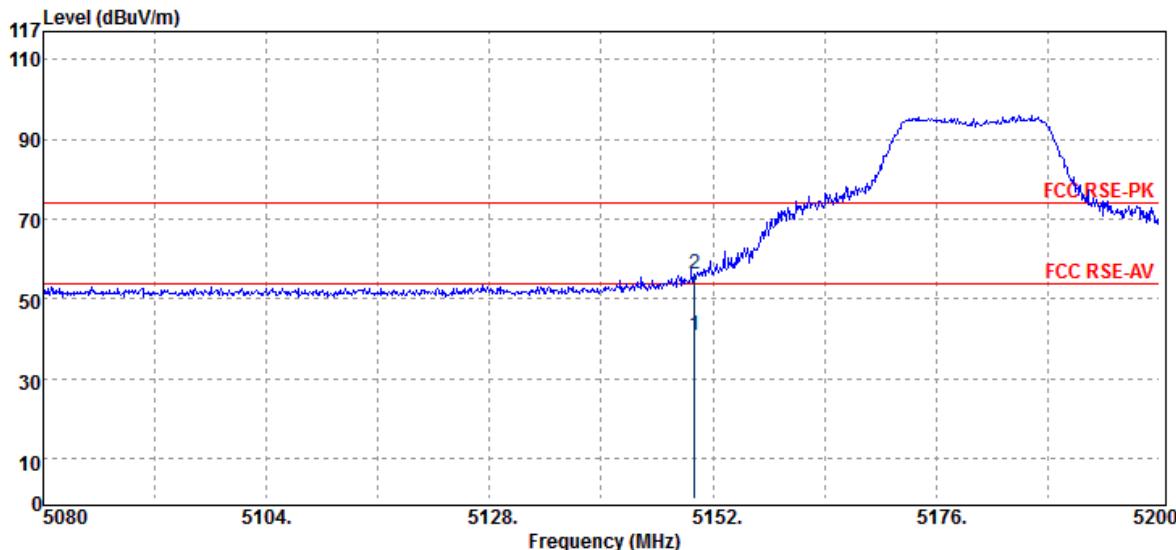
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Operation Band :802.11aB1  
 Fundamental Frequency :5180 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	E	Average	35.15	5.88	41.03	54.00	-12.97
5150.00	E	Peak	50.52	5.88	56.40	74.00	-17.60

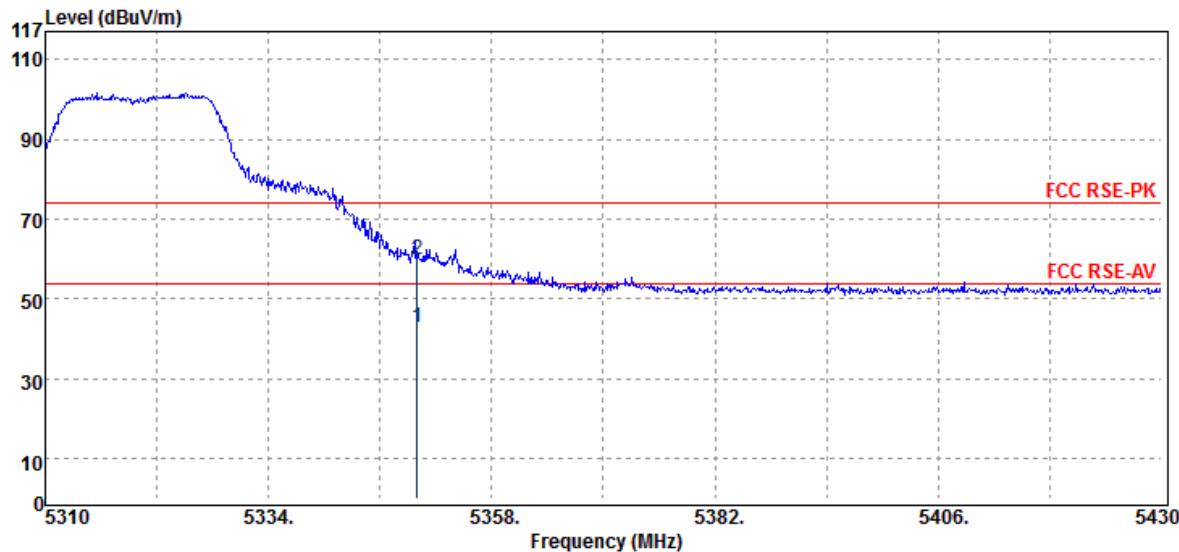
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Operation Band :802.11aB2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	E	Average	36.57	6.16	42.73	54.00	-11.27
5350.00	E	Peak	53.83	6.16	59.99	74.00	-14.01

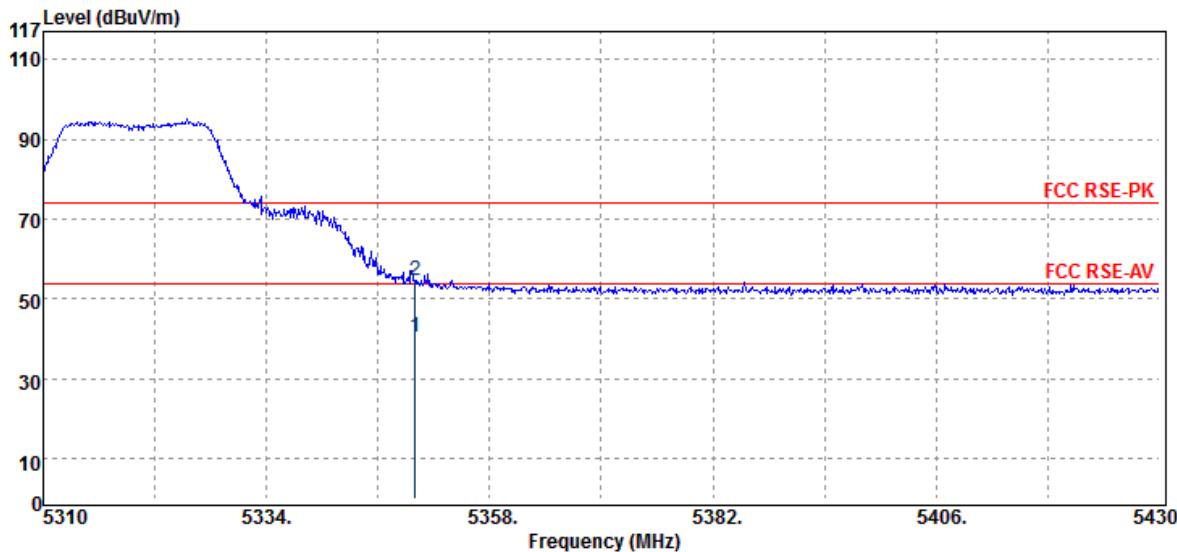
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Operation Band :802.11aB2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	E	Average	34.17	6.16	40.33	54.00	-13.67
5350.00	E	Peak	48.54	6.16	54.70	74.00	-19.30

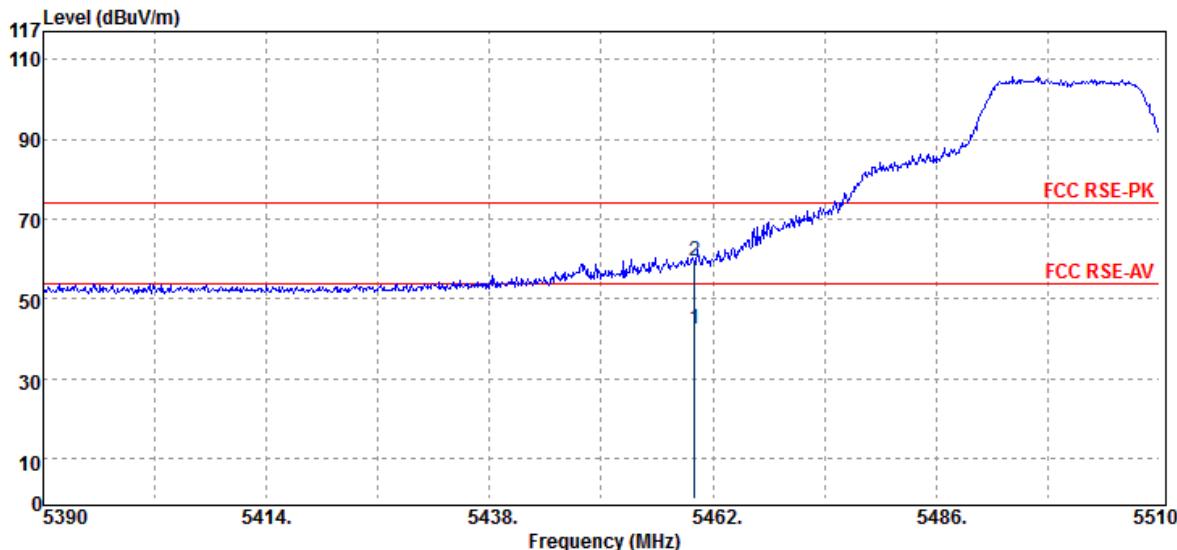
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Operation Band :802.11aB3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5460.00	E	Average	36.39	6.23	42.62	54.00	-11.38
5460.00	E	Peak	53.48	6.23	59.71	74.00	-14.29

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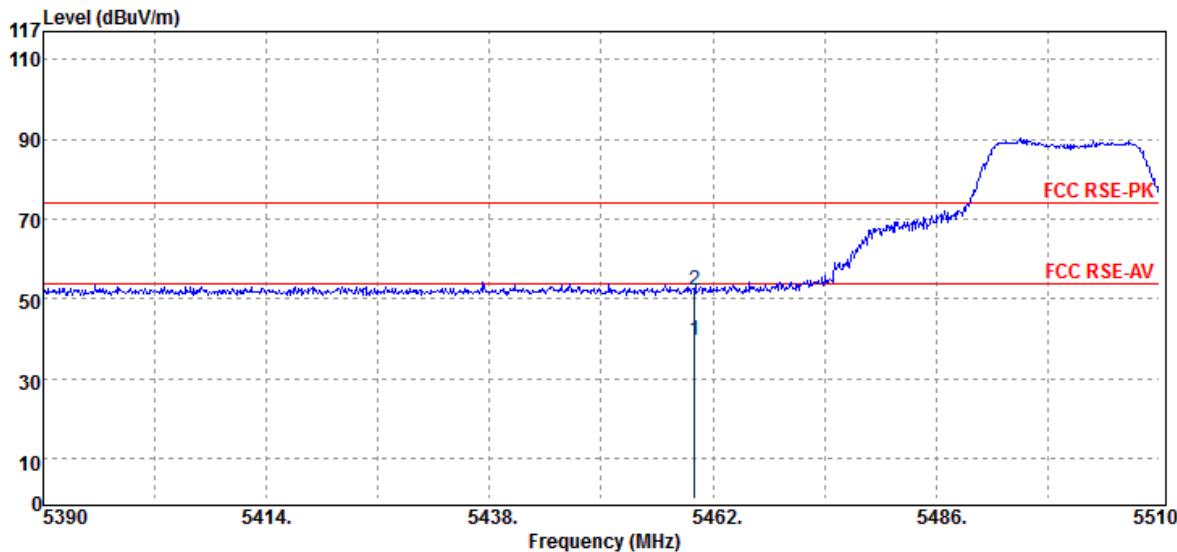
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Operation Band :802.11aB3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5460.00	E	Average	33.50	6.23	39.73	54.00	-14.27
5460.00	E	Peak	45.79	6.23	52.02	74.00	-21.98

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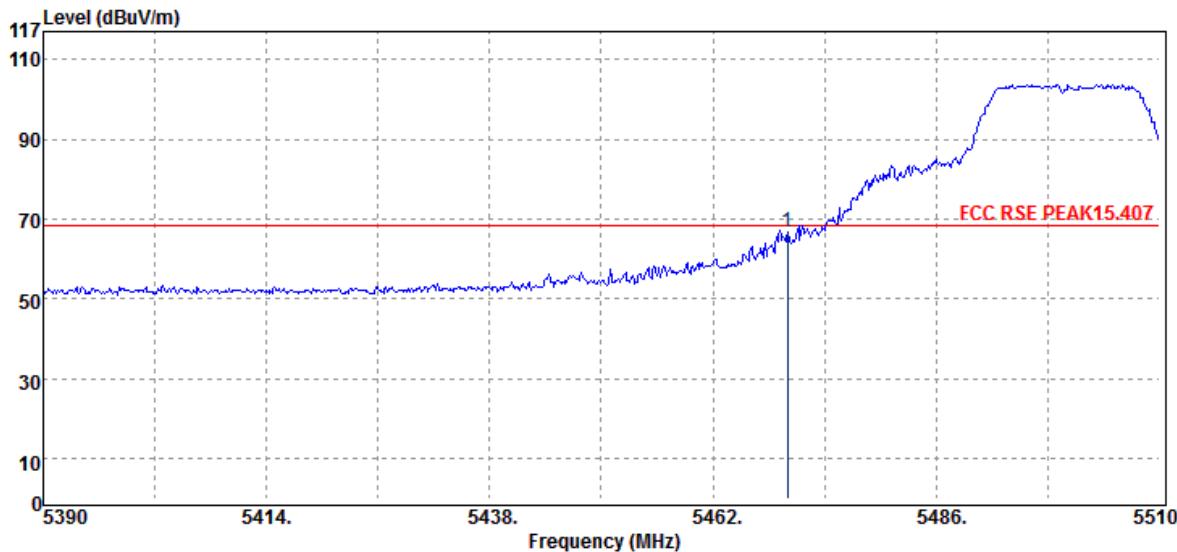
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Operation Band :802.11aB3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW RSE  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5470.00	E	Peak	60.55	6.26	66.81	68.30	-1.49

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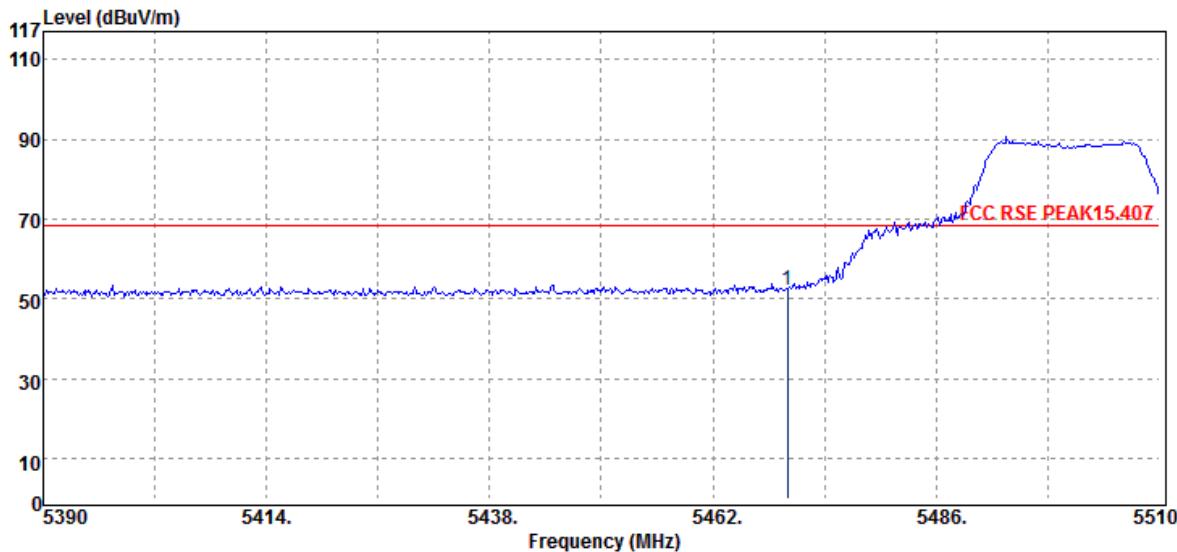
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Operation Band :802.11aB3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW RSE  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5470.00	E	Peak	46.14	6.26	52.40	68.30	-15.90

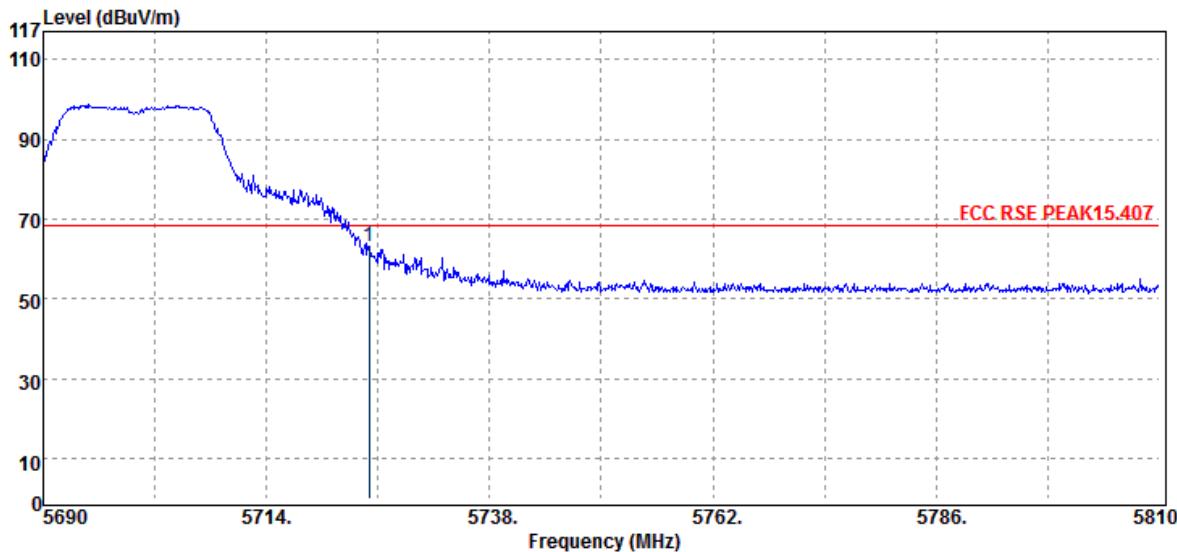
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Operation Band :802.11aB3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	E	Peak	56.59	6.59	63.18	68.30	-5.12

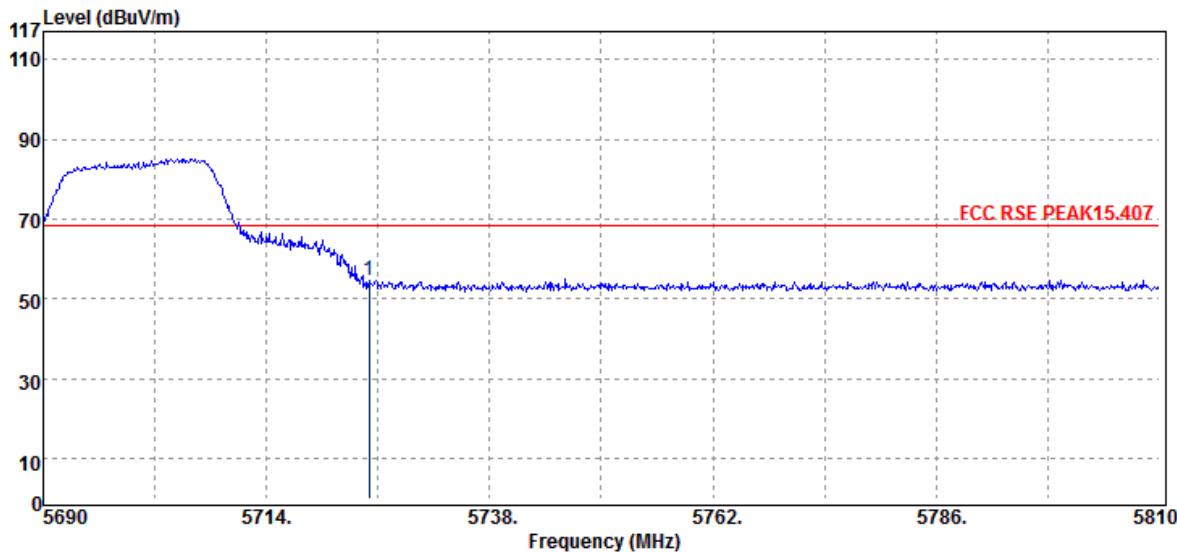
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Operation Band :802.11aB3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	E	Peak	47.95	6.59	54.54	68.30	-13.76

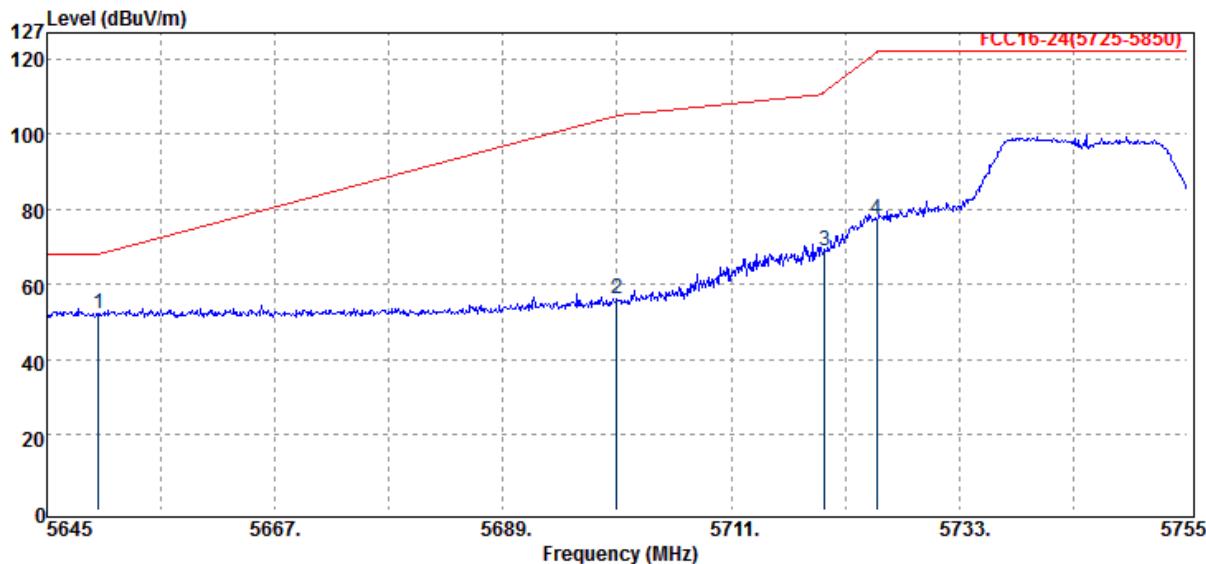
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Operation Band :802.11aB4  
 Fundamental Frequency :5745 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5650.00	E	Peak	45.74	6.48	52.22	68.23	-16.01
5700.00	E	Peak	49.58	6.67	56.25	105.23	-48.98
5720.00	E	Peak	62.35	6.60	68.95	110.83	-41.88
5725.00	E	Peak	70.63	6.59	77.22	122.23	-45.01

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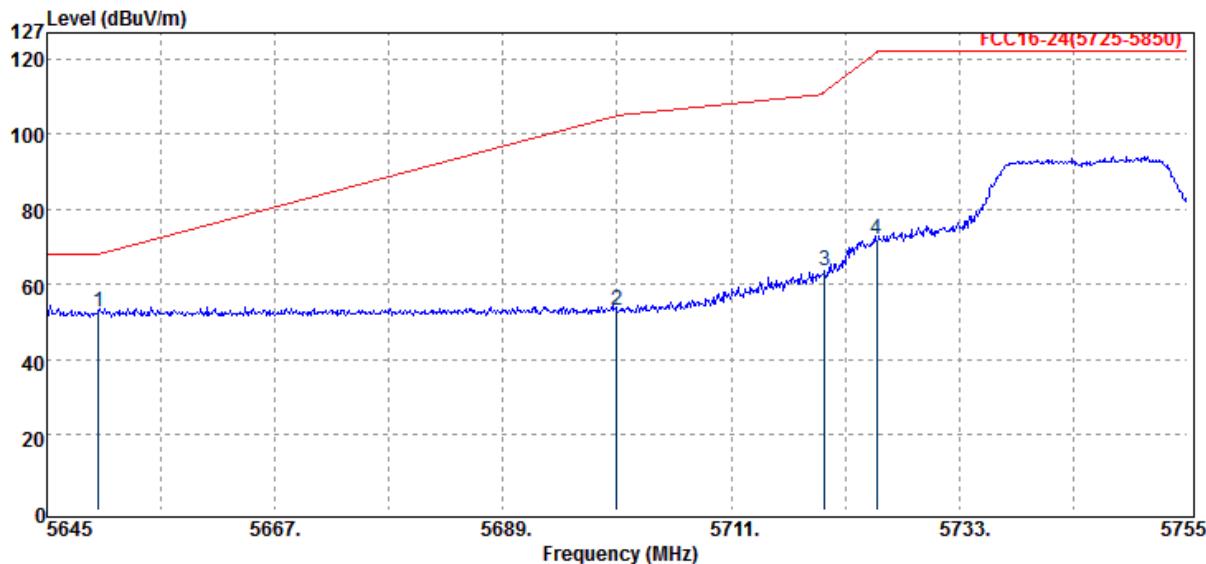
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Operation Band :802.11aB4  
 Fundamental Frequency :5745 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5650.00	E	Peak	46.06	6.48	52.54	68.23	-15.69
5700.00	E	Peak	46.67	6.67	53.34	105.23	-51.89
5720.00	E	Peak	57.08	6.60	63.68	110.83	-47.15
5725.00	E	Peak	65.49	6.59	72.08	122.23	-50.15

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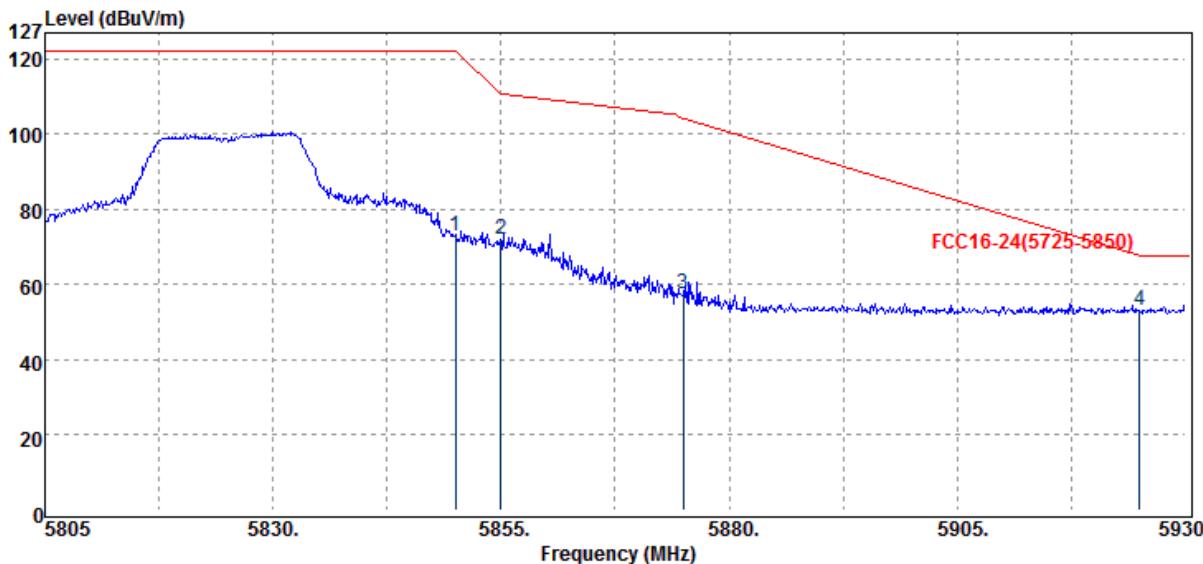
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Operation Band :802.11aB4  
 Fundamental Frequency :5825 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	65.61	7.28	72.89	122.23	-49.34
5855.00	E	Peak	64.68	7.32	72.00	110.83	-38.83
5875.00	E	Peak	50.00	7.37	57.37	105.23	-47.86
5925.00	E	Peak	45.92	7.39	53.31	68.23	-14.92

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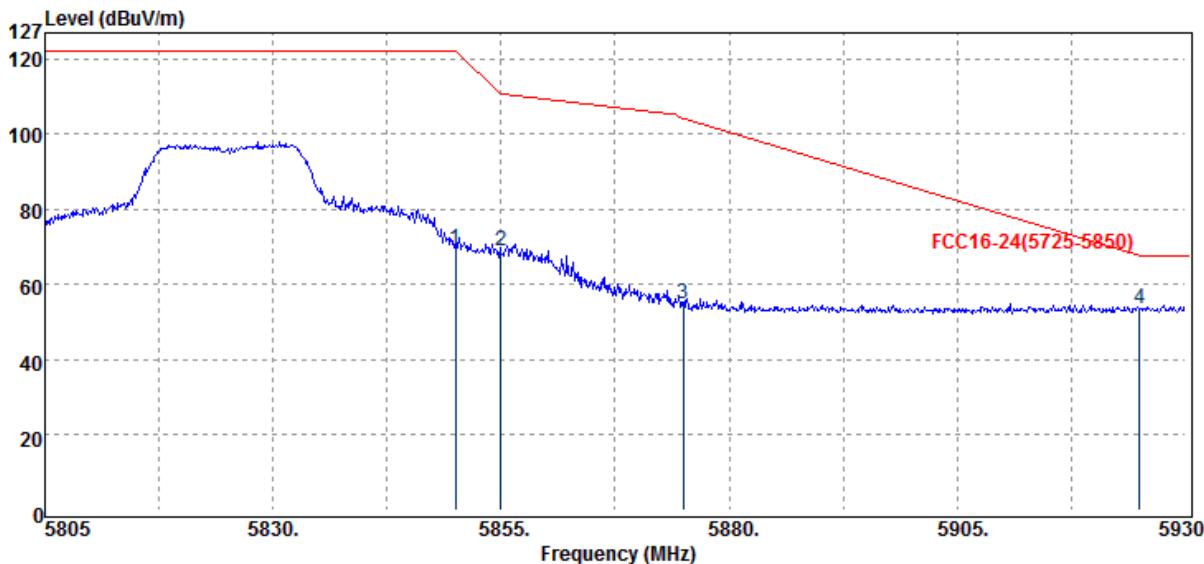
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Operation Band :802.11aB4  
 Fundamental Frequency :5825 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	62.17	7.28	69.45	122.23	-52.78
5855.00	E	Peak	61.87	7.32	69.19	110.83	-41.64
5875.00	E	Peak	47.38	7.37	54.75	105.23	-50.48
5925.00	E	Peak	46.12	7.39	53.51	68.23	-14.72

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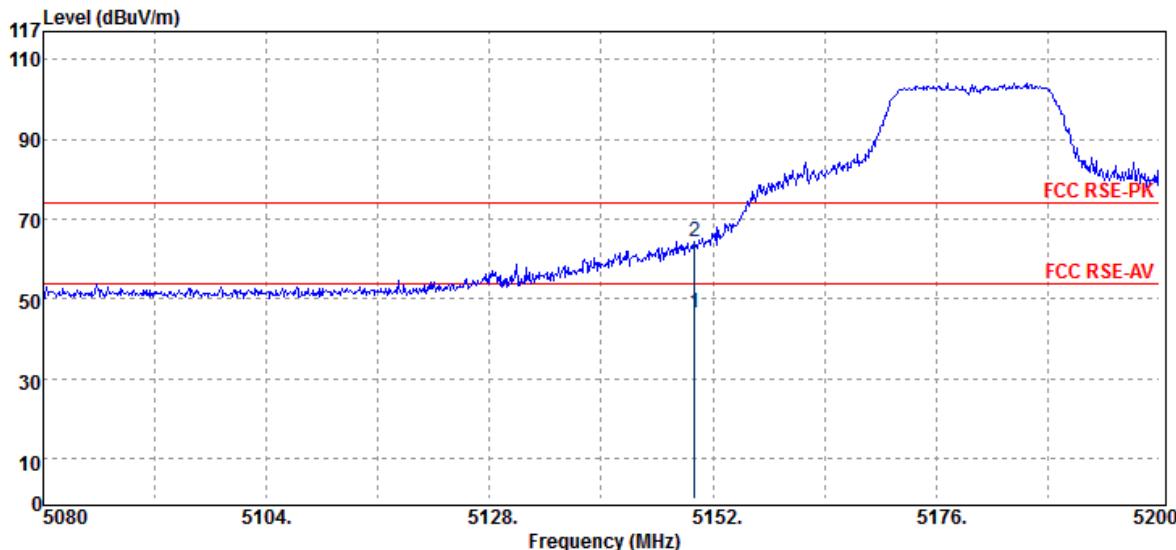
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## 802.11n20 HT mode

Operation Band :802.11n20B1  
 Fundamental Frequency :5180 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	E	Average	40.55	5.88	46.43	54.00	-7.57
5150.00	E	Peak	58.39	5.88	64.27	74.00	-9.73

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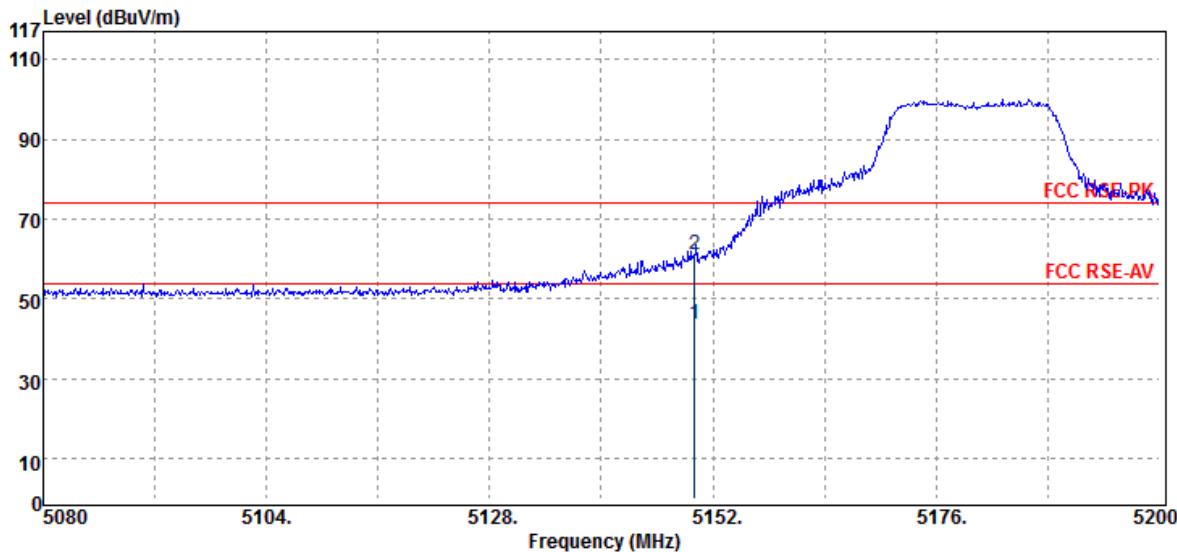
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Operation Band :802.11n20B1  
 Fundamental Frequency :5180 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	E	Average	37.93	5.88	43.81	54.00	-10.19
5150.00	E	Peak	55.06	5.88	60.94	74.00	-13.06

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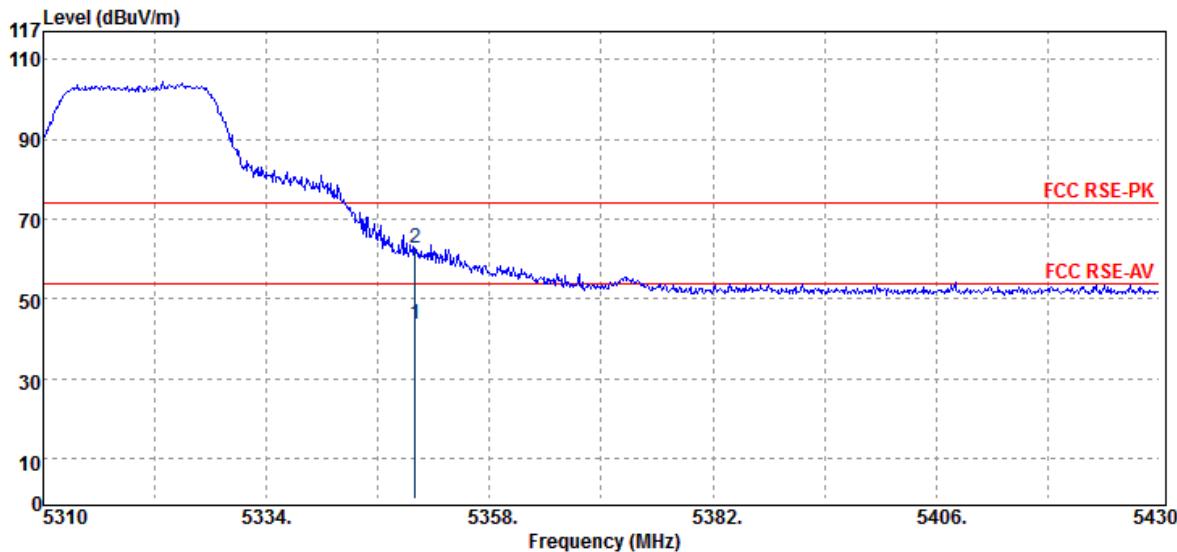
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Operation Band :802.11n20B2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	E	Average	37.42	6.16	43.58	54.00	-10.42
5350.00	E	Peak	56.76	6.16	62.92	74.00	-11.08

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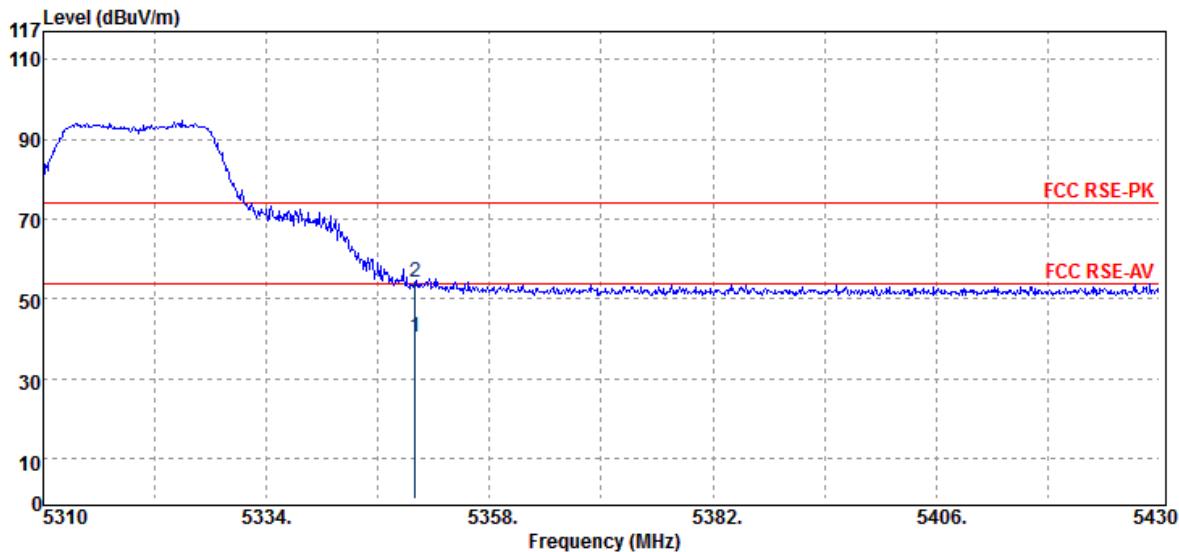
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Operation Band :802.11n20B2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	E	Average	34.15	6.16	40.31	54.00	-13.69
5350.00	E	Peak	48.07	6.16	54.23	74.00	-19.77

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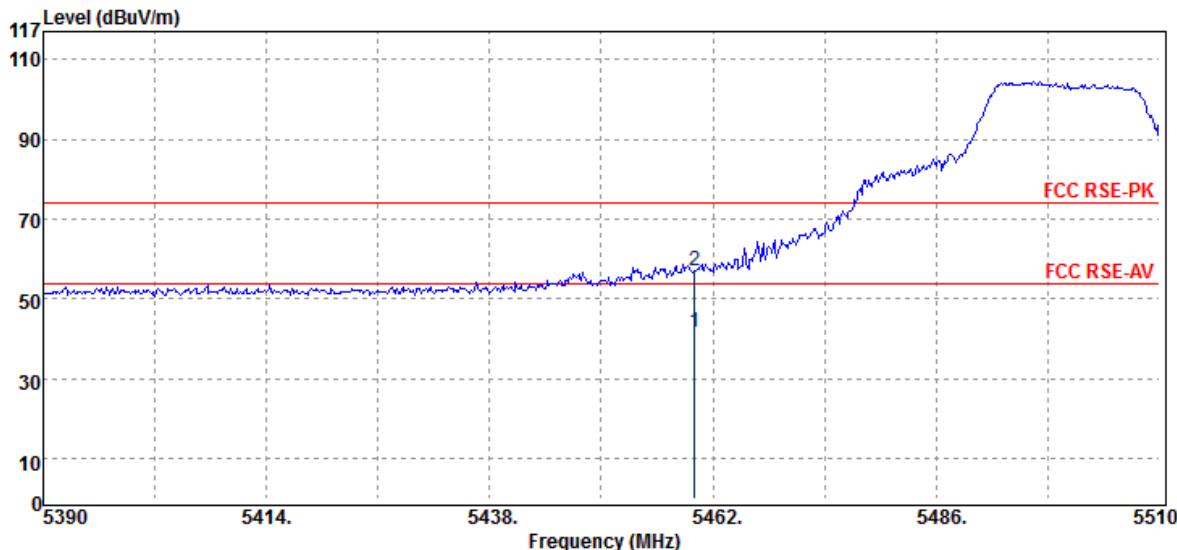
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Operation Band :802.11n20B3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5460.00	E	Average	35.62	6.23	41.85	54.00	-12.15
5460.00	E	Peak	50.96	6.23	57.19	74.00	-16.81

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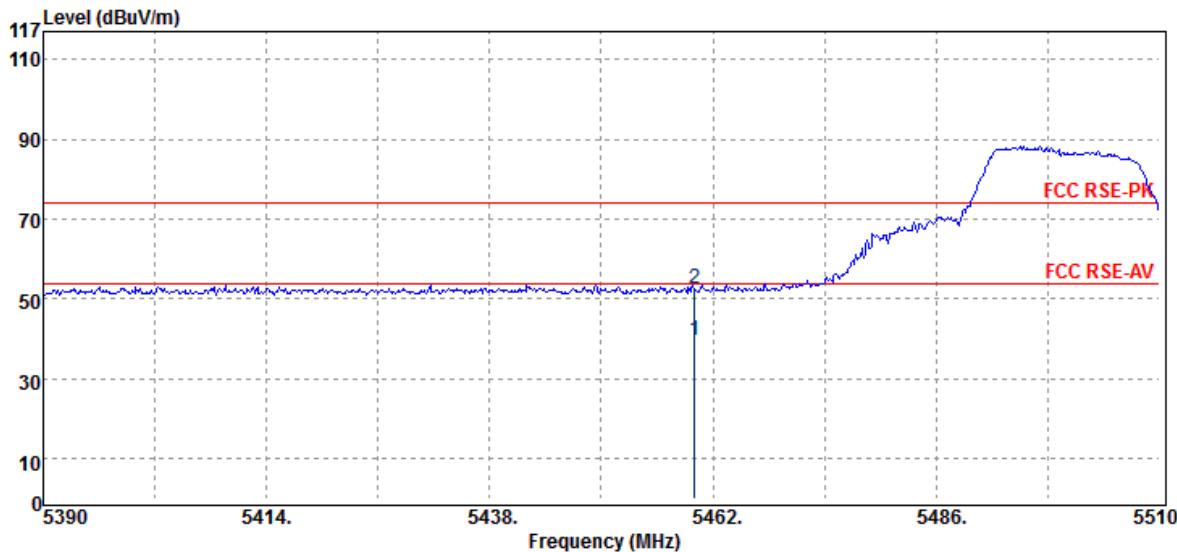
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Operation Band :802.11n20B3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5460.00	E	Average	33.48	6.23	39.71	54.00	-14.29
5460.00	E	Peak	46.27	6.23	52.50	74.00	-21.50

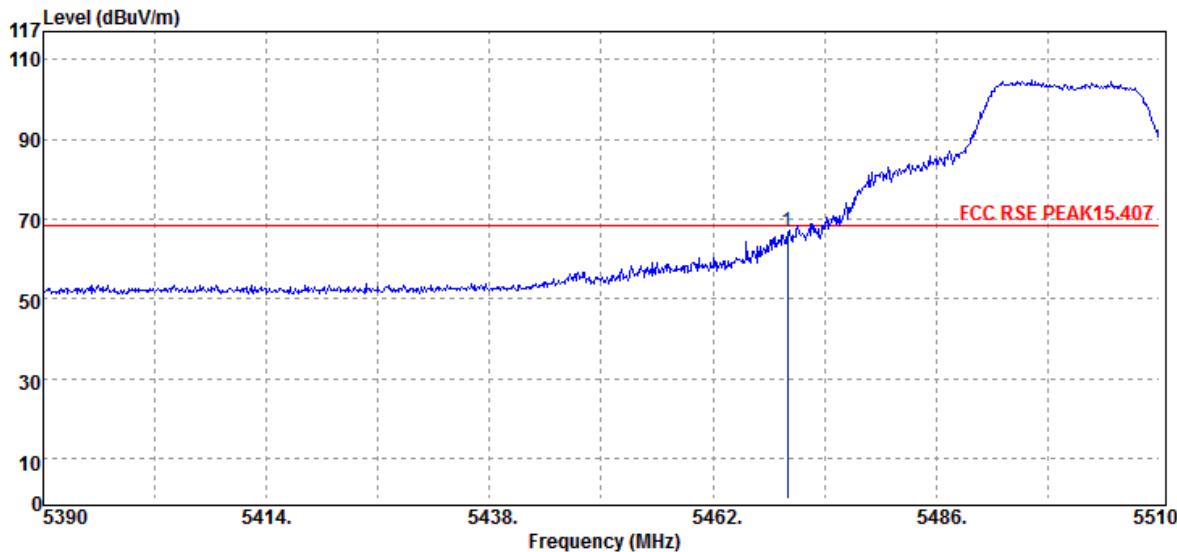
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Operation Band :802.11n20B3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW RSE  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5470.00	E	Peak	60.54	6.26	66.80	68.30	-1.50

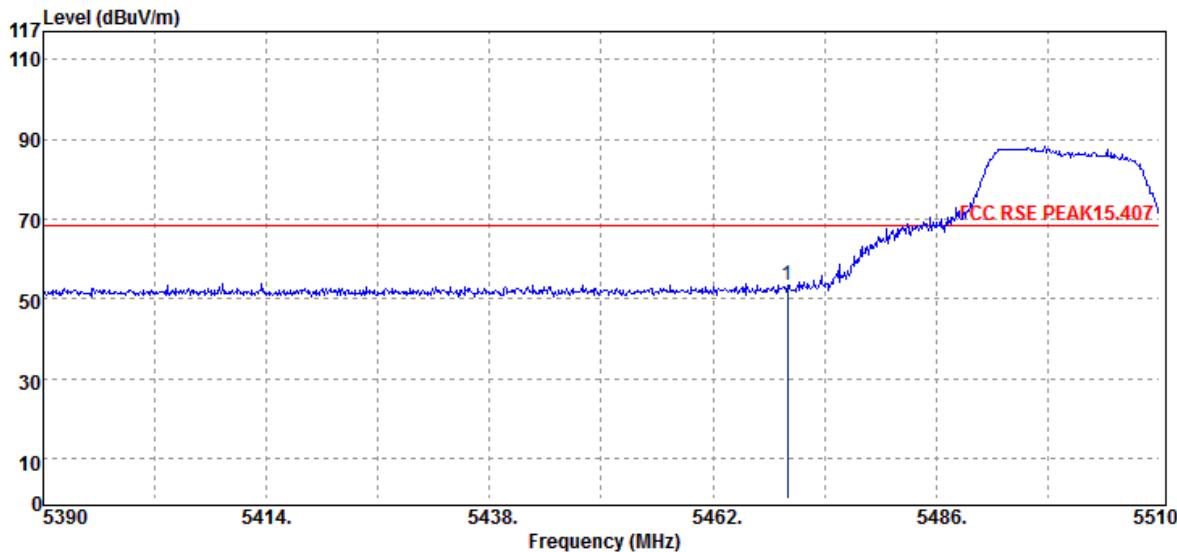
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Operation Band :802.11n20B3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW RSE  
 EUT Pol. :H Plane

Test Date :2017-05-12  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Mike  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5470.00	E	Peak	46.99	6.26	53.25	68.30	-15.05

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