

## 10. PEAK POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

#### FCC

OPERZTION Band	EUT CATEGORY	LIMIT
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U-NII-1

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## 10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**  
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)  
**For U-NII-3 Band:**  
Set RBW=500 kHz, VBW $\geq$  3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome

For the overlapped channels between U-NII-2C and U-NII-3, and according to FCC KDB 644545 D03 the power is computed based on the portion of the emission bandwidth contained within that band. This rule is only applicable for those channels marked as overlapped.

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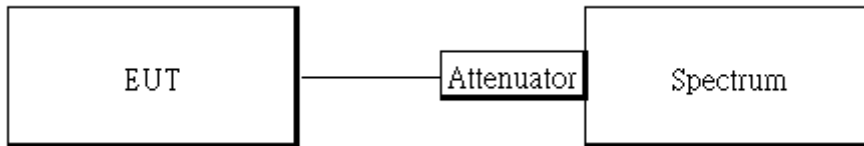
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### 10.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

### 10.4 Test Set-up



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## 10.5 Measurement Result

POWER DENSITY 802.11a MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-0.38	11	-11.38
5220	-1.44	11	-12.44
5240	-0.17	11	-11.17
5260	-1.58	11	-12.58
5300	0.00	11	-11.00
5320	-1.86	11	-12.86
5500	-1.83	11	-12.83
5580	0.11	11	-10.89
5700	-1.74	11	-12.74
5745	4.85	30	-25.15
5785	4.50	30	-25.50
5825	4.72	30	-25.28

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-1.71	17	-18.71
5220	-1.07	17	-18.07
5240	-0.98	17	-17.98
5260	-1.66	11	-12.66
5300	0.32	11	-10.68
5320	-2.13	11	-13.13
5500	-3.52	11	-14.52
5580	0.09	11	-10.91
5700	-1.97	11	-12.97
5720 (UNII-2C)	-8.83	11	-19.83
5720 (UNII-3)	-10.67	30	-40.67
5745	7.46	30	-22.54
5785	7.69	30	-22.31
5825	7.55	30	-22.45

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POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-7.05	17	-24.05
5230	-3.5	17	-20.50
5270	-5.88	11	-16.88
5310	-3.42	11	-14.42
5510	-4.58	11	-15.58
5550	-5.35	11	-16.35
5670	-5.95	11	-16.95
5710 (UNII-2C)	-11.23	11	-22.23
5710 (UNII-3)	-15.78	30	-45.78
5755	3.75	30	-26.25
5795	3.73	30	-26.27

POWER DENSITY 802.11ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-8.48	17	-25.48
5290	-10.77	11	-21.77
5530	-9.01	11	-20.01
5610	-5.17	11	-16.17
5690 (UNII-2C)	-12.91	11	-23.91
5690 (UNII-3)	-19.73	30	-49.73
5775	1.32	30	-28.68

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EIRP spectral density 802.11a MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-0.38	-0.12	-0.50	10	-10.38
5220	-1.44	-0.12	-1.56	10	-11.44
5240	-0.17	-0.12	-0.29	10	-10.17

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-1.71	2.89	1.18	10	-11.71
5220	-1.07	2.89	1.82	10	-11.07
5240	-0.98	2.89	1.91	10	-10.98

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-7.05	2.89	-4.16	10	-17.05
5220	-3.50	2.89	-0.61	10	-13.50

EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-8.48	2.89	-5.59	10	-18.48

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802.11a 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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### Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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**802.11a 5250~5350 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5260 MHz)**



**Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)**



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### Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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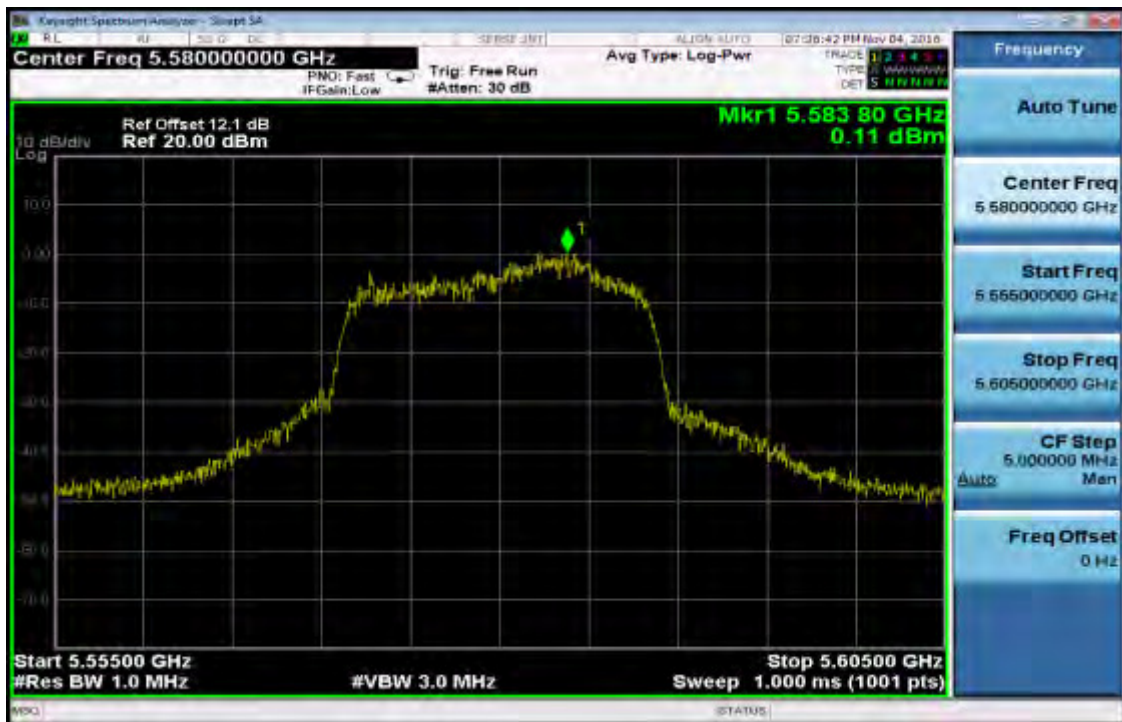
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**802.11a 5470~5725 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5500 MHz)**



**Peak Power Spectral Density Data Plot (CH Mid 5580 MHz)**



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### Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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802.11a 5725~5850 MHz  
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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### Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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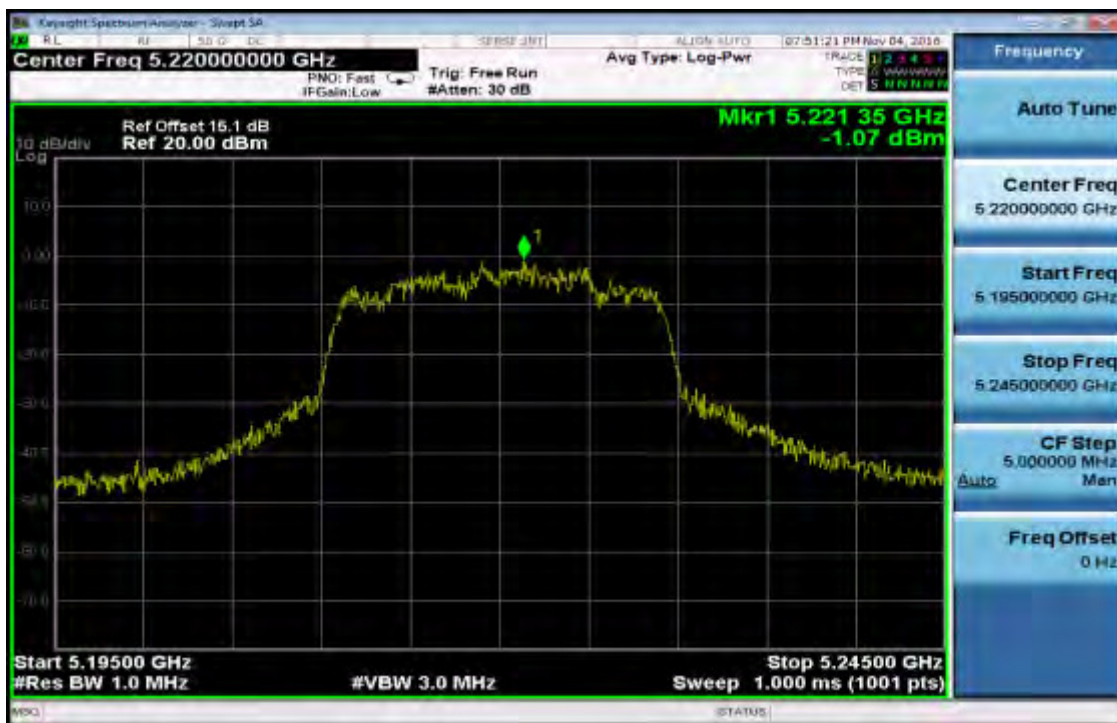
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**802.11n HT20, 5150~5250 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5180 MHz)**



**Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)**



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### Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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**802.11n HT20, 5250~5350 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5260MHz)**



**Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)**



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### Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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**802.11n HT20, 5470~5725 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5500 MHz)**



**Peak Power Spectral Density Data Plot (CH Mid 5580MHz)**



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### Peak Power Spectral Density Data Plot (CH High 5700 MHz)



### 802.11n HT20, 5470~5725 MHz

### Peak Power Spectral Density Data Plot (CH High 5720 MHz)



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802.11n HT20, 5725~5850 MHz  
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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### Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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**802.11n HT40, 5150~5250 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5190 MHz)**



**Peak Power Spectral Density Data Plot (CH High 5230 MHz)**



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802.11n HT40, 5250~5350 MHz  
Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



Peak Power Spectral Density Data Plot (CH High 5310 MHz)



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**802.11n HT40, 5470~5725 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5510 MHz)**



**Peak Power Spectral Density Data Plot (CH Mid 5550 MHz)**



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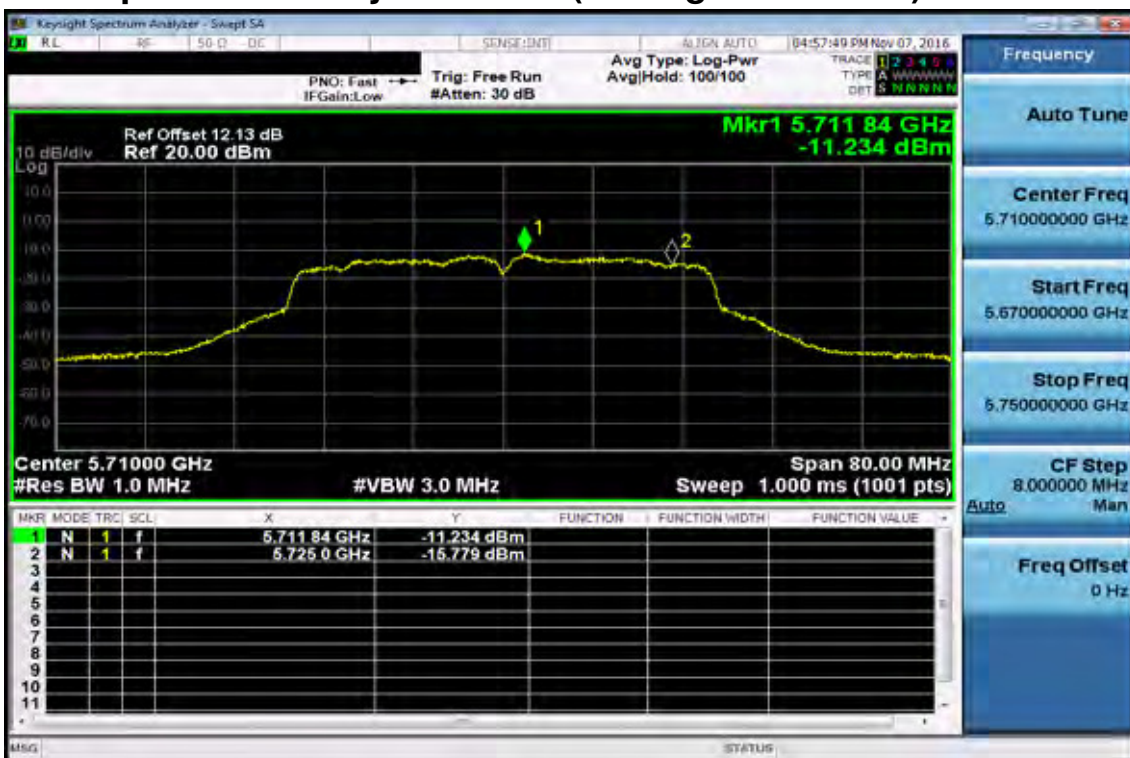
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### Peak Power Spectral Density Data Plot (CH High 5670 MHz)



### 802.11n HT40, 5470~5725 MHz

### Peak Power Spectral Density Data Plot (CH High 5710 MHz)



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**802.11n HT40, 5725~5850 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5755 MHz)**



**Peak Power Spectral Density Data Plot (CH High 5795 MHz)**



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**802.11ac VHT80, 5150~5250 MHz  
Peak Power Spectral Density Data Plot (CH ,Mid 5210 MHz)**



**802.11ac VHT80, 5250~5350 MHz  
Peak Power Spectral Density Data Plot (CH Mid 5290 MHz)**



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802.11ac VHT80, 5470~5725 MHz  
Peak Power Spectral Density Data Plot (CH Low 5530 MHz)



Peak Power Spectral Density Data Plot (CH Low 5610 MHz)



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### Peak Power Spectral Density Data Plot (CH Low 5690 MHz)



### 802.11ac VHT80, 5725~5850 MHz

### Peak Power Spectral Density Data Plot (CH Mid 5775 MHz)



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## 11. UNDESIRABLE RADIATED EMISSION MEASUREMENT

### 11.1 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) RSS-247 6.2.4.2	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 (dB $\mu$ V/m) = 20 log Emission level (dB $\mu$ V/m)

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## 11.2 Measurement Equipment Used

SGS 966 Chamber No.C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/12/2016	04/11/2017
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2015	12/22/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017
Horn Antenna	ETS-Lindgren	3117	00143272	12/16/2015	12/15/2016
Horn Antenna	Schwarzbeck	BBHA9170	185	07/18/2016	07/17/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-26	100780	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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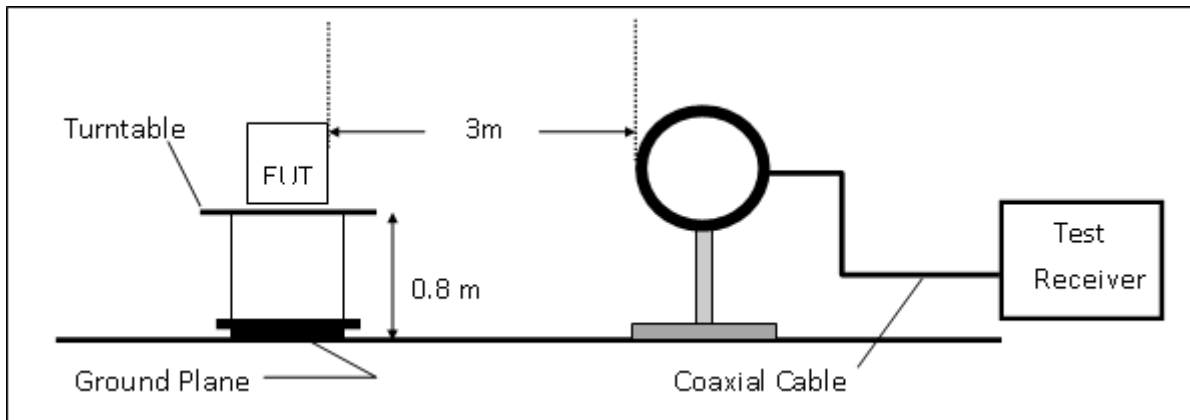
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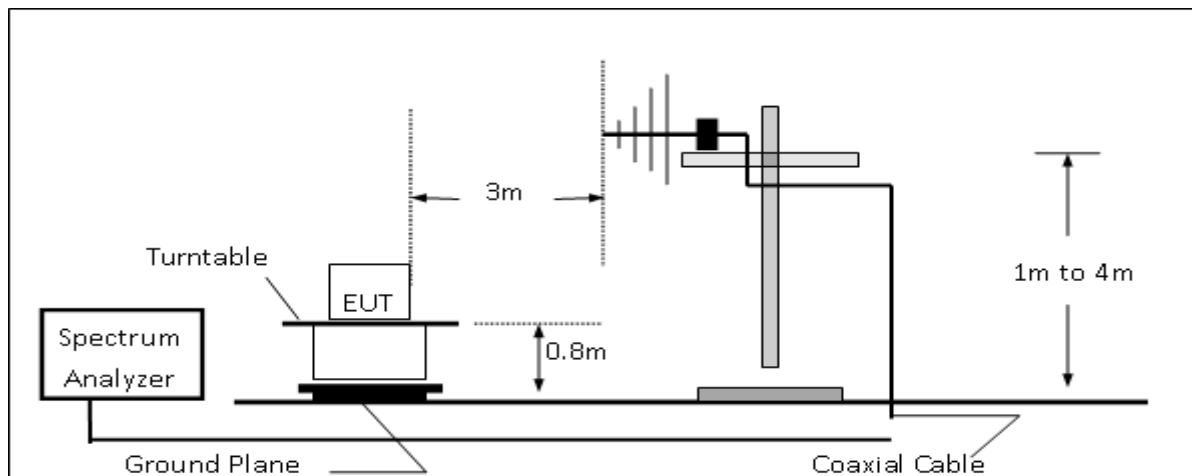
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### 11.3 Test SET-UP

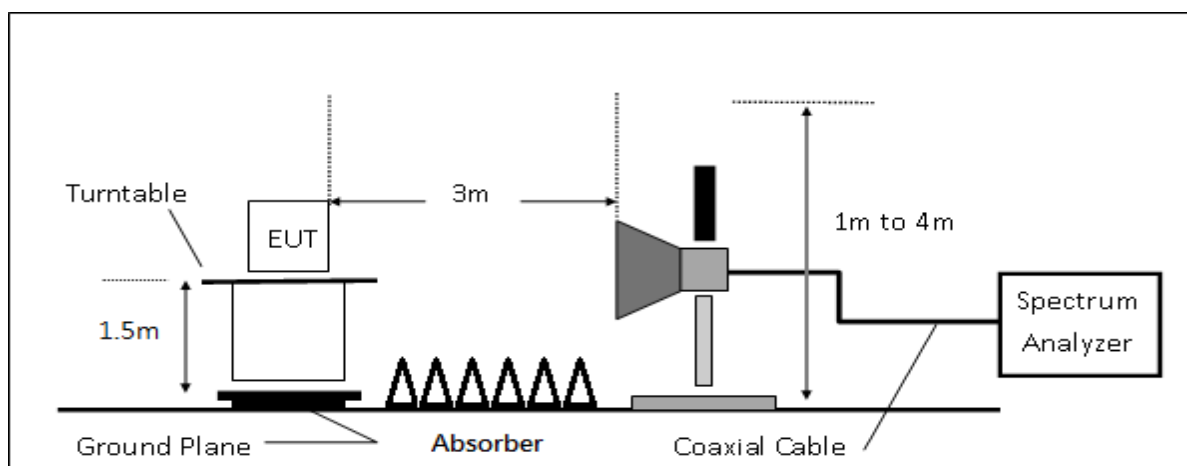
#### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



#### (B) Radiated Emission Test Set-UP, Frequency form 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 v01r01.
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 ≥ 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	

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

$$\text{Factor(dB)} = \text{Antenna Factor(dB}\mu\text{V/m)} + \text{Cable Loss(dB)} - \text{Pre\_Amplifier Gain(dB)}$$

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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 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.

**11.7 Measurement Result**

Refer to attach tabular data sheets.

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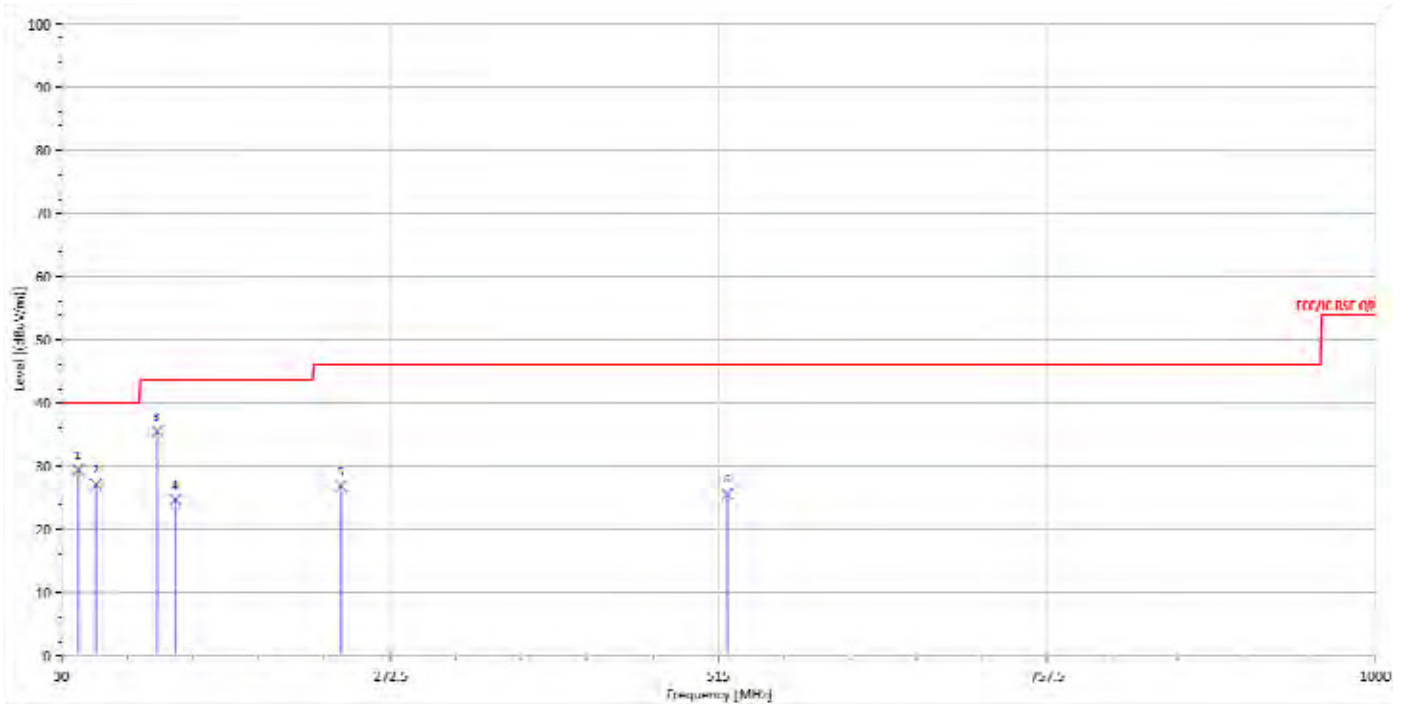
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## Radiated Spurious Emission Measurement Result

### Below 1GHz Worst-Case Data:

#### 802.11a 5150~5250 MHz

Operation Mode :	802.11a	Test Date :	2016/11/8
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	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
42.61	S	Peak	43.96	-14.63	29.34	40	-10.66
55.22	S	Peak	48.29	-21.25	27.05	40	-12.95
100.81	S	Peak	53.14	-17.64	35.49	43.5	-8.01
114.39	S	Peak	40.94	-16.21	24.72	43.5	-18.78
236.61	S	Peak	42.50	-15.63	26.87	46	-19.13
521.79	S	Peak	32.83	-7.26	25.57	46	-20.43

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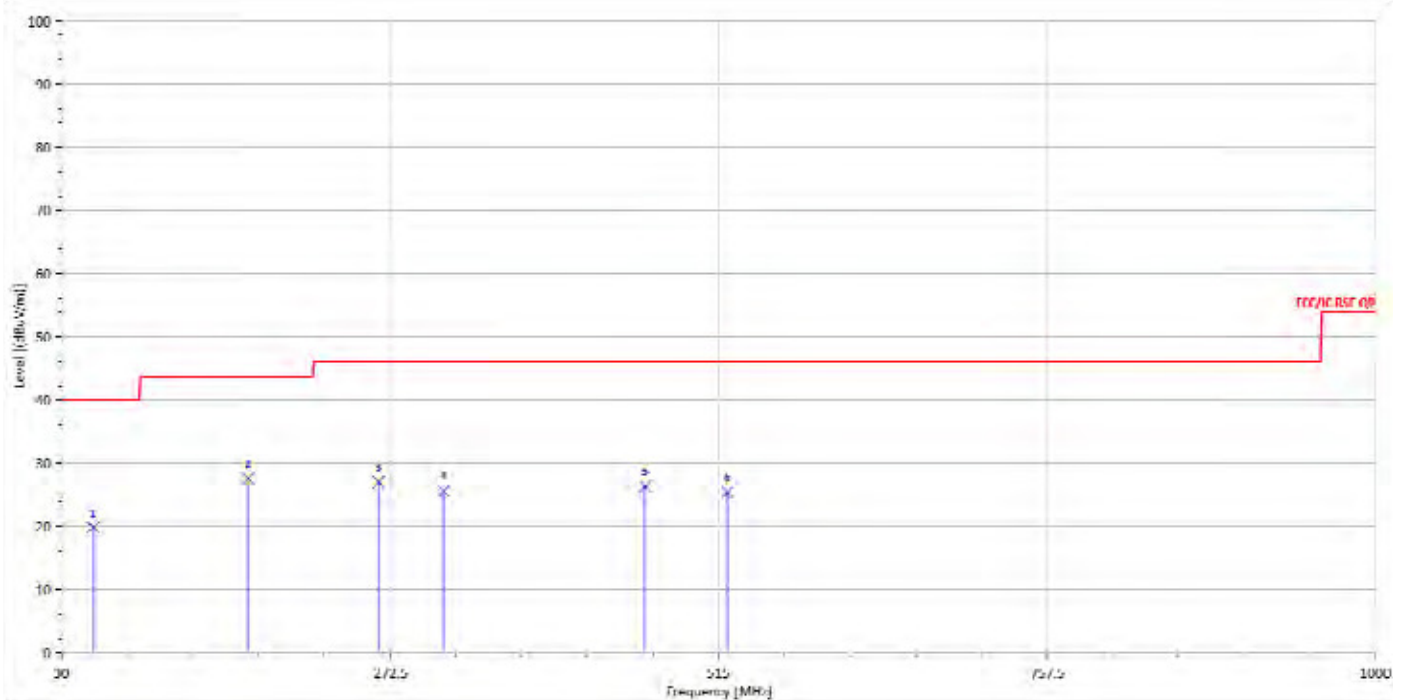
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5220 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
53.28	S	Peak	40.36	-20.53	19.83	40	-20.17
167.74	S	Peak	45.60	-18.06	27.54	43.5	-15.96
263.77	S	Peak	40.78	-13.80	26.98	46	-19.02
312.27	S	Peak	38.11	-12.52	25.59	46	-20.41
460.68	S	Peak	34.46	-8.15	26.31	46	-19.69
521.79	S	Peak	32.71	-7.26	25.46	46	-20.54

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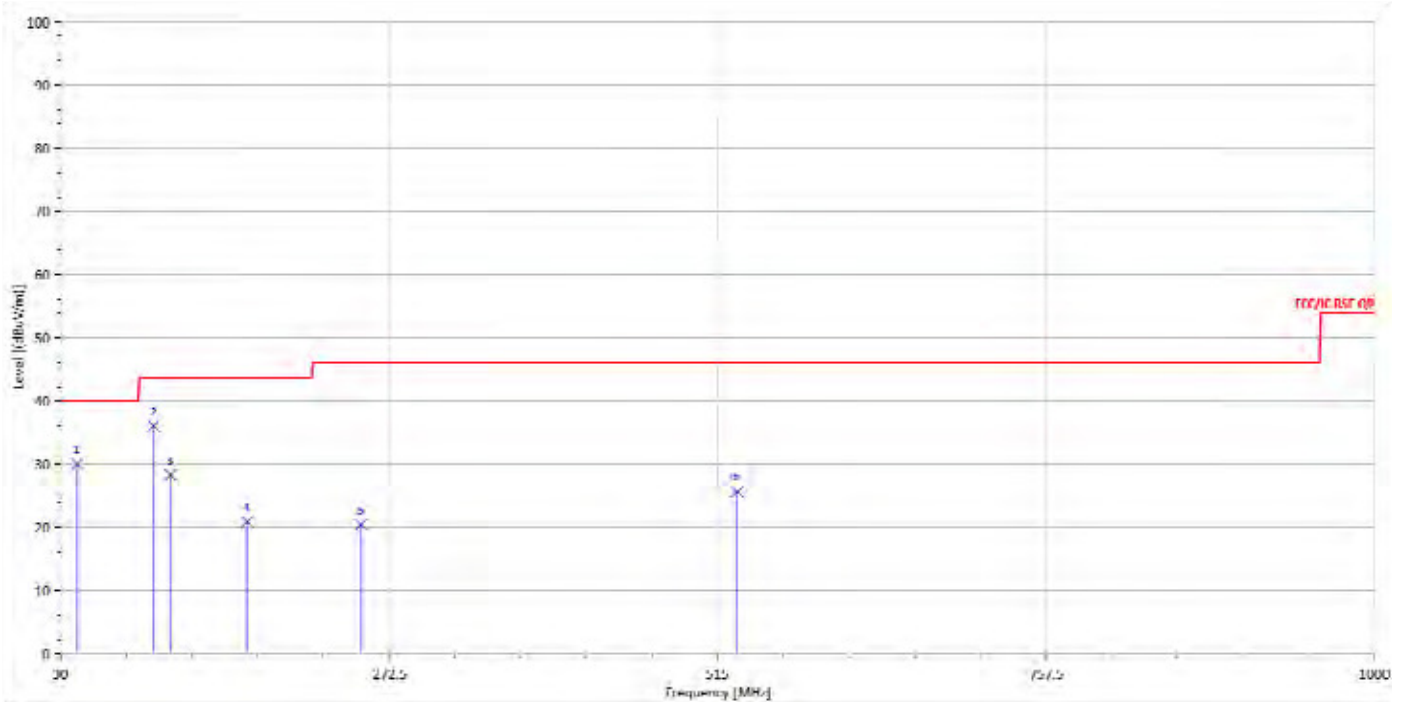
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### 802.11a 5250~5350 MHz

Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      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
42.61	S	Peak	44.58	-14.63	29.95	40	-10.05
98.87	S	Peak	53.98	-17.93	36.05	43.5	-7.45
111.48	S	Peak	44.61	-16.38	28.23	43.5	-15.27
167.74	S	Peak	38.93	-18.06	20.87	43.5	-22.63
252.13	S	Peak	34.87	-14.45	20.42	46	-25.58
529.55	S	Peak	32.88	-7.21	25.66	46	-20.34

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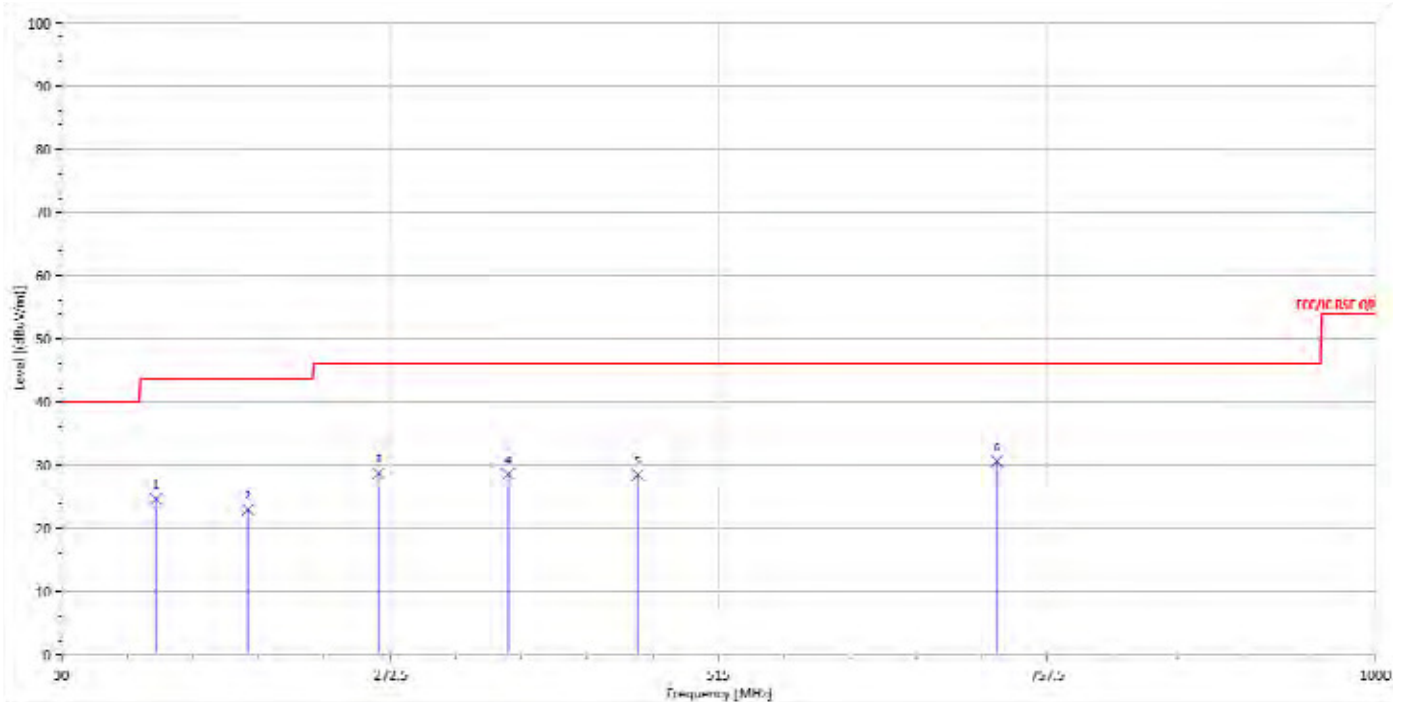
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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	42.44	-17.77	24.67	43.5	-18.83
167.74	S	Peak	41.03	-18.06	22.98	43.5	-20.52
263.77	S	Peak	42.40	-13.80	28.60	46	-17.40
359.80	S	Peak	39.70	-11.20	28.50	46	-17.50
455.83	S	Peak	36.83	-8.43	28.40	46	-17.60
720.64	S	Peak	35.38	-4.83	30.55	46	-15.45

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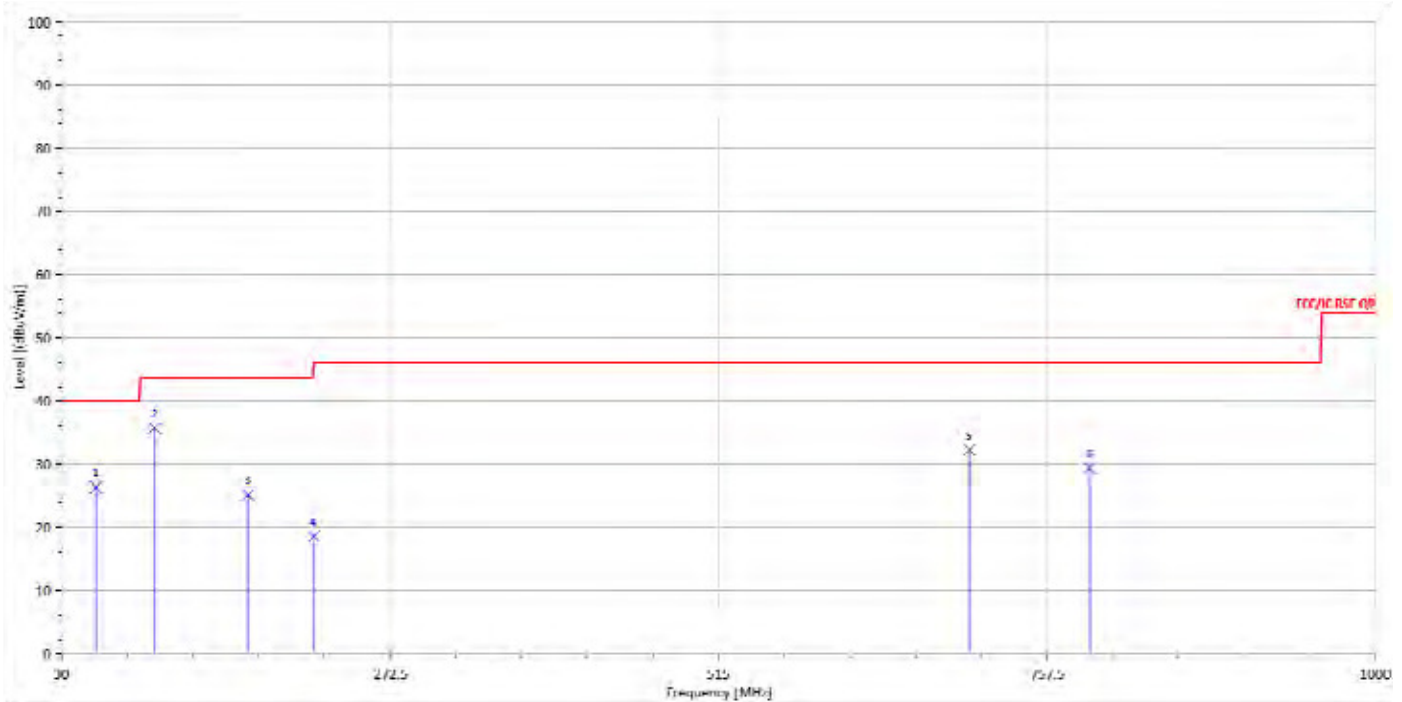
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### 802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2016/11/8
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	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
55.22	S	Peak	47.55	-21.25	26.31	40	-13.69
98.87	S	Peak	53.64	-17.93	35.71	43.5	-7.79
167.74	S	Peak	43.20	-18.06	25.14	43.5	-18.36
216.24	S	Peak	35.71	-17.15	18.57	46	-27.43
700.27	S	Peak	37.39	-5.20	32.19	46	-13.81
789.51	S	Peak	33.49	-4.18	29.31	46	-16.69

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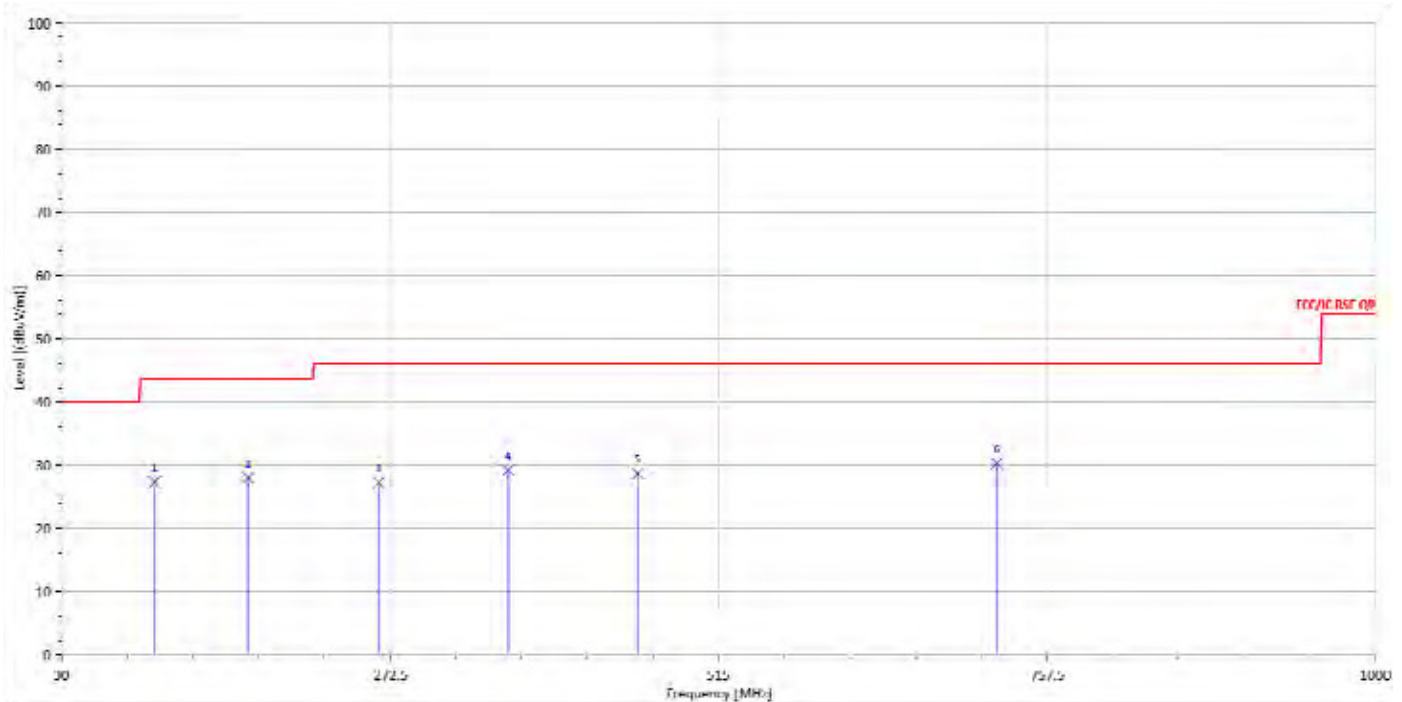
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5580 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
98.87	S	Peak	45.25	-17.93	27.32	43.5	-16.18
167.74	S	Peak	45.96	-18.06	27.91	43.5	-15.59
263.77	S	Peak	40.98	-13.80	27.18	46	-18.82
359.80	S	Peak	40.34	-11.20	29.14	46	-16.86
455.83	S	Peak	37.00	-8.43	28.57	46	-17.43
720.64	S	Peak	35.03	-4.83	30.20	46	-15.80

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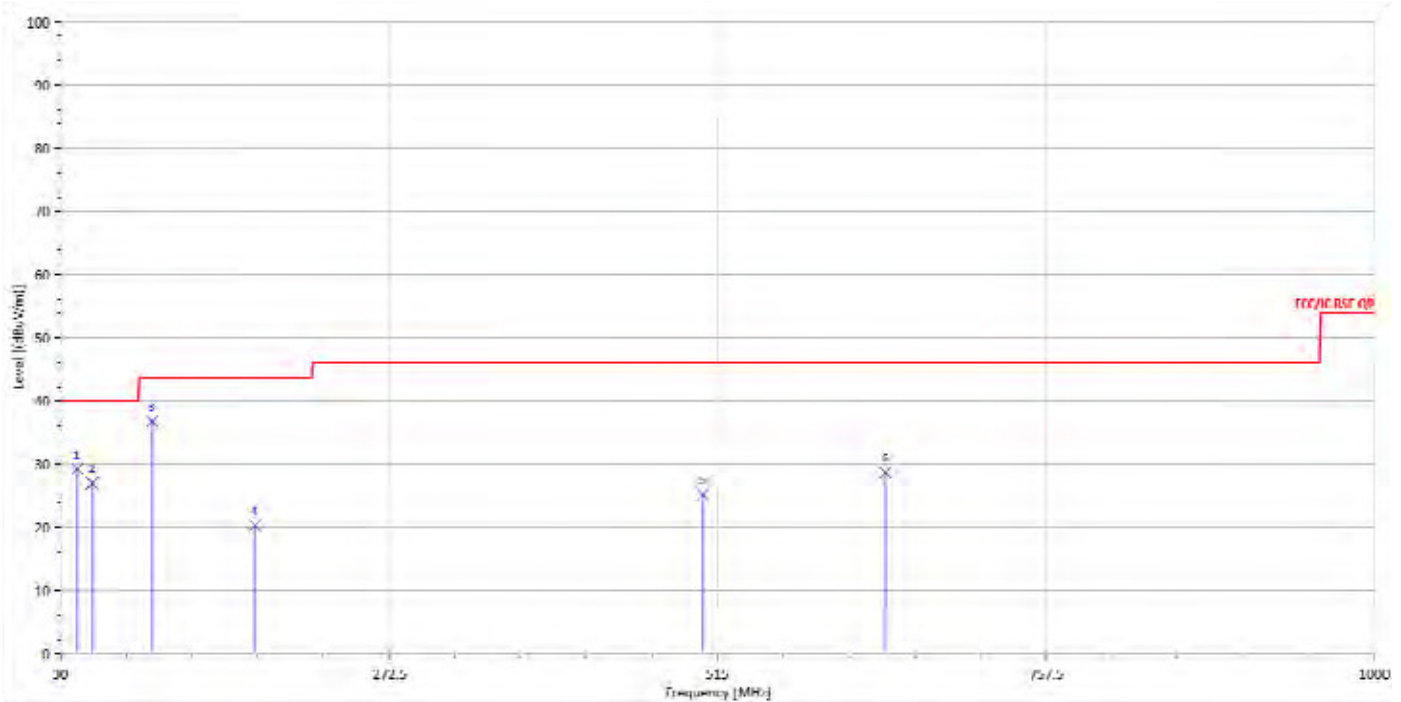
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### 802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2016/11/8
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	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
42.61	S	Peak	43.79	-14.63	29.16	40	-10.84
53.28	S	Peak	47.48	-20.53	26.96	40	-13.04
97.90	S	Peak	54.87	-18.10	36.77	43.5	-6.73
173.56	S	Peak	38.65	-18.36	20.29	43.5	-23.21
504.33	S	Peak	33.03	-7.86	25.18	46	-20.82
639.16	S	Peak	33.87	-5.26	28.61	46	-17.39

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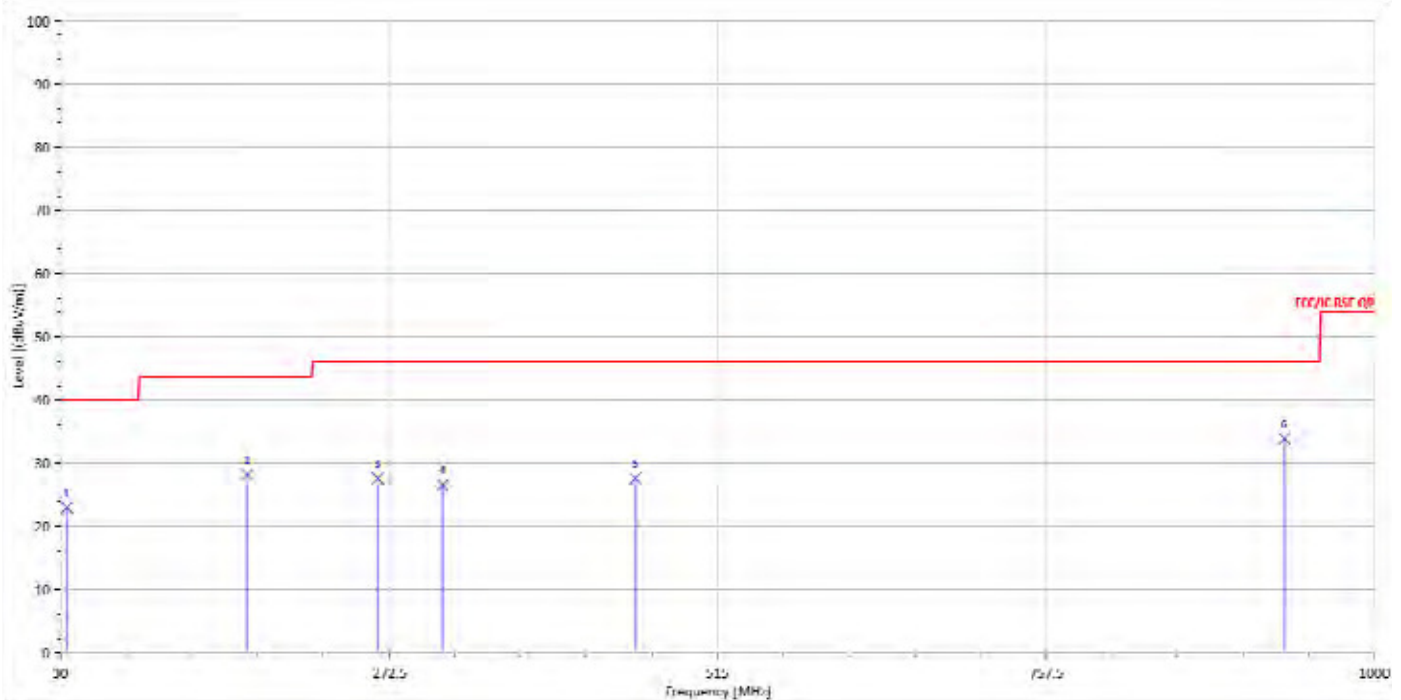
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5785 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
34.85	S	Peak	32.78	-9.78	23.00	40	-17.00
167.74	S	Peak	46.20	-18.06	28.14	43.5	-15.36
263.77	S	Peak	41.35	-13.80	27.55	46	-18.45
312.27	S	Peak	39.03	-12.52	26.51	46	-19.49
454.86	S	Peak	36.02	-8.46	27.56	46	-18.44
934.04	S	Peak	35.45	-1.58	33.87	46	-12.13

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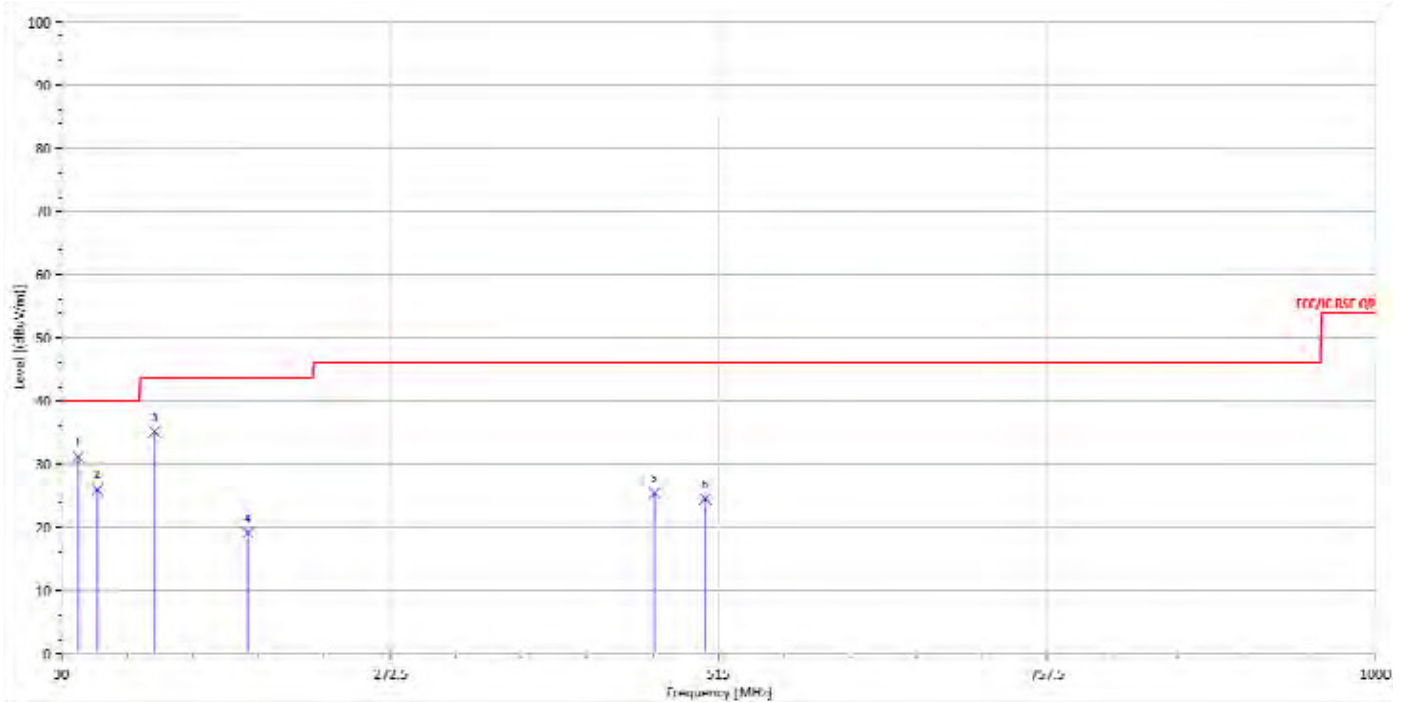
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### 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80	Test Date :	2016/11/8
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
42.61	S	Peak	45.74	-14.63	31.11	40	-8.89
56.19	S	Peak	47.55	-21.59	25.97	40	-14.03
98.87	S	Peak	53.07	-17.93	35.14	43.5	-8.36
167.74	S	Peak	37.19	-18.06	19.13	43.5	-24.37
467.47	S	Peak	33.19	-7.73	25.46	46	-20.54
505.30	S	Peak	32.50	-7.99	24.51	46	-21.49

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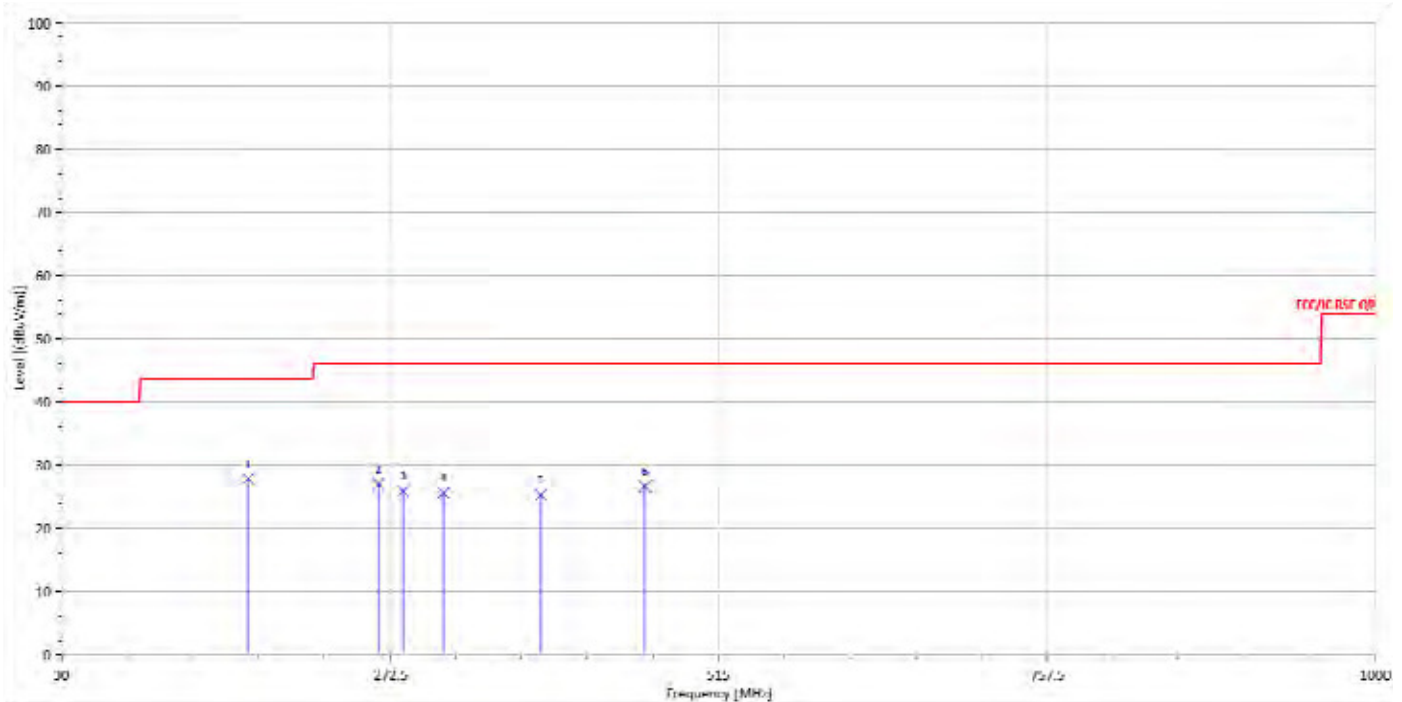
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Operation Mode : 802.11ac80 Test Date : 2016/11/8  
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
167.74	S	Peak	45.80	-18.06	27.75	43.5	-15.75
263.77	S	Peak	40.83	-13.80	27.03	46	-18.97
282.20	S	Peak	39.45	-13.53	25.92	46	-20.08
312.27	S	Peak	38.14	-12.52	25.62	46	-20.38
384.05	S	Peak	35.59	-10.27	25.31	46	-20.69
460.68	S	Peak	34.77	-8.15	26.62	46	-19.38

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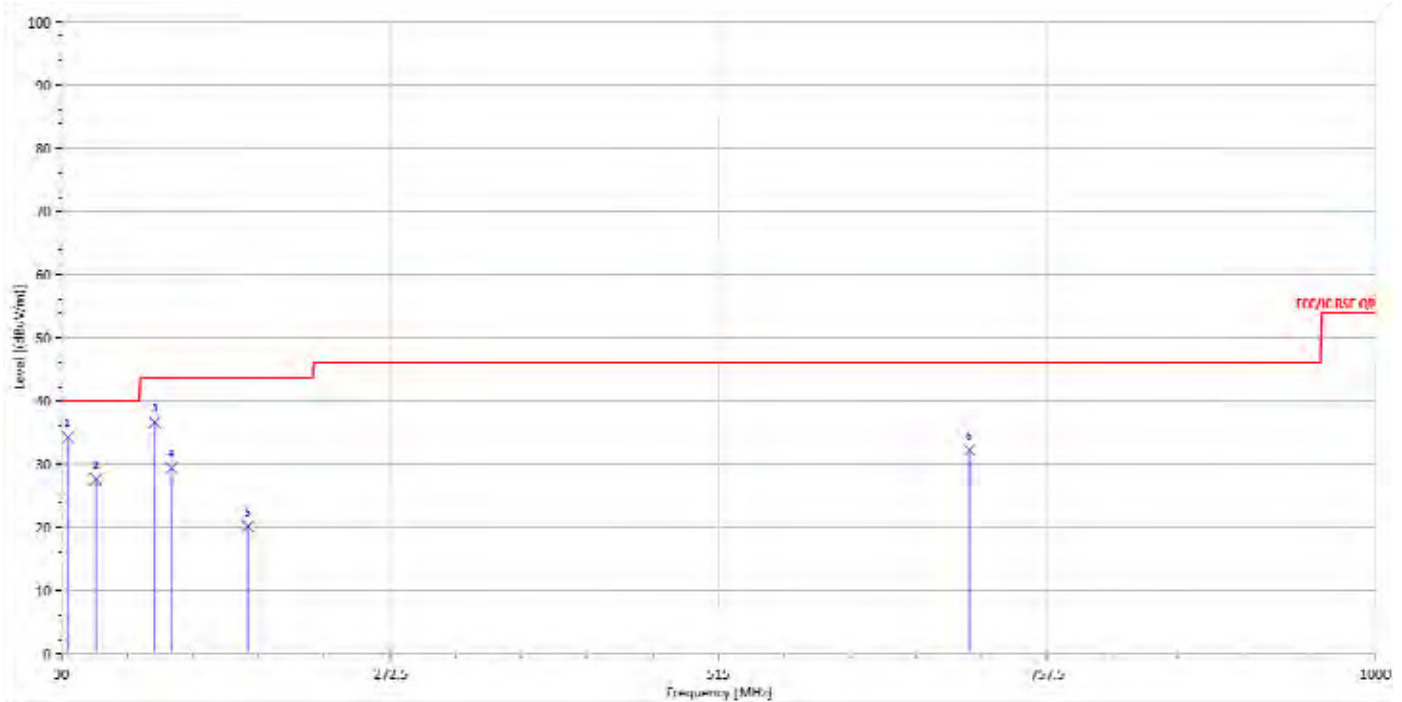
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### 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80	Test Date :	2016/11/8
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	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
34.85	S	Peak	44.03	-9.78	34.25	40	-5.75
55.22	S	Peak	48.78	-21.25	27.54	40	-12.46
98.87	S	Peak	54.56	-17.93	36.63	43.5	-6.87
111.48	S	Peak	45.72	-16.38	29.33	43.5	-14.17
167.74	S	Peak	38.16	-18.06	20.10	43.5	-23.40
700.27	S	Peak	37.36	-5.20	32.16	46	-13.84

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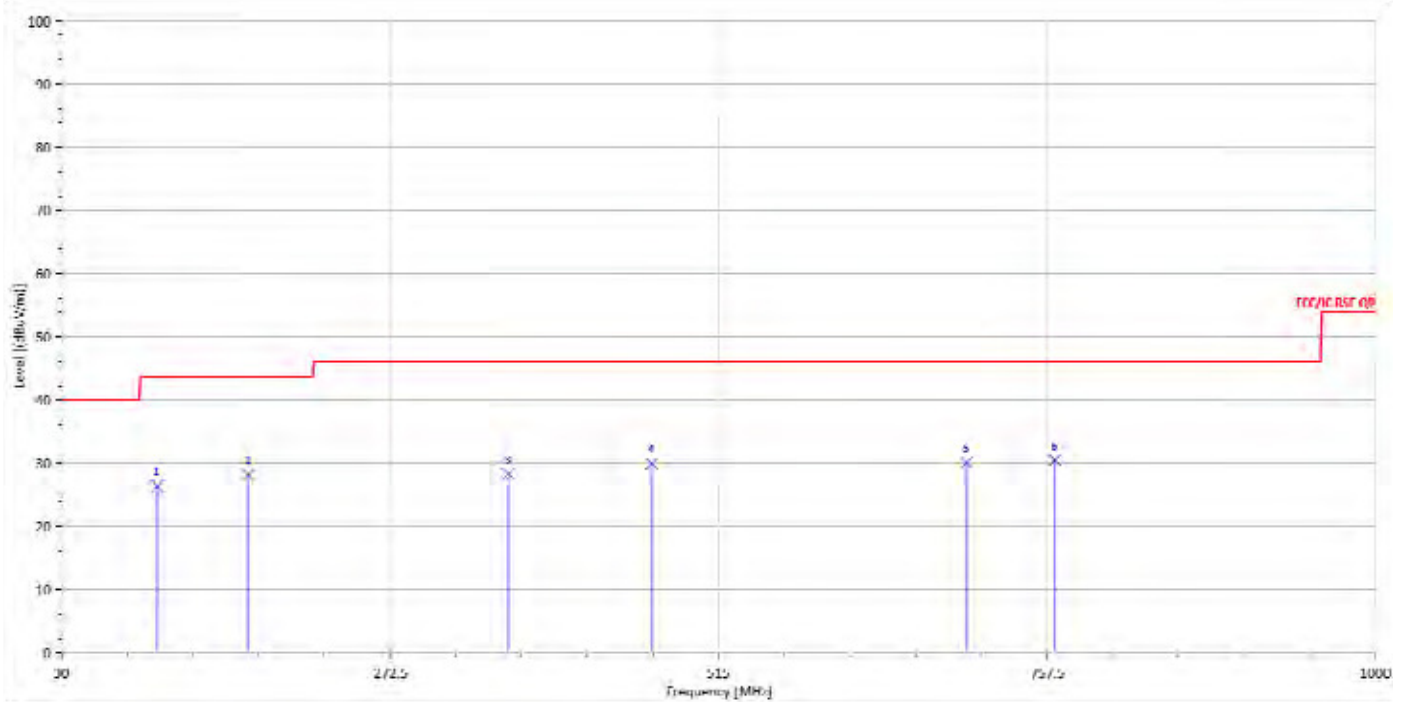
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Operation Mode : 802.11ac80 Test Date : 2016/11/8  
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
100.81	S	Peak	44.02	-17.64	26.38	43.5	-17.12
167.74	S	Peak	46.17	-18.06	28.12	43.5	-15.38
359.80	S	Peak	39.38	-11.20	28.18	46	-17.82
465.53	S	Peak	37.90	-8.04	29.86	46	-16.14
698.33	S	Peak	35.10	-5.10	30.00	46	-16.00
763.32	S	Peak	34.57	-4.18	30.40	46	-15.60

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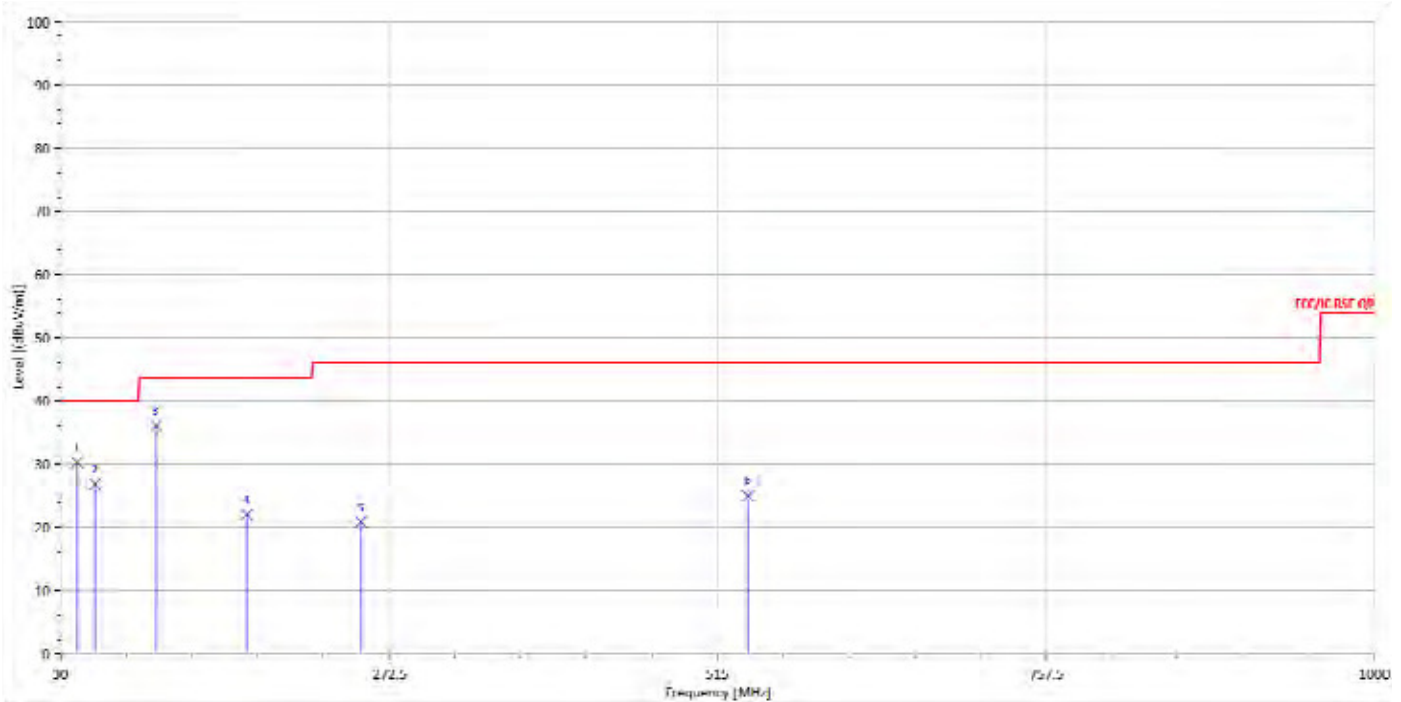
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### 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80	Test Date :	2016/11/8
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	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
42.61	S	Peak	44.86	-14.63	30.23	40	-9.77
55.22	S	Peak	48.05	-21.25	26.80	40	-13.20
100.81	S	Peak	53.72	-17.64	36.08	43.5	-7.42
167.74	S	Peak	40.08	-18.06	22.03	43.5	-21.47
252.13	S	Peak	35.31	-14.45	20.86	46	-25.14
537.31	S	Peak	32.28	-7.24	25.04	46	-20.96

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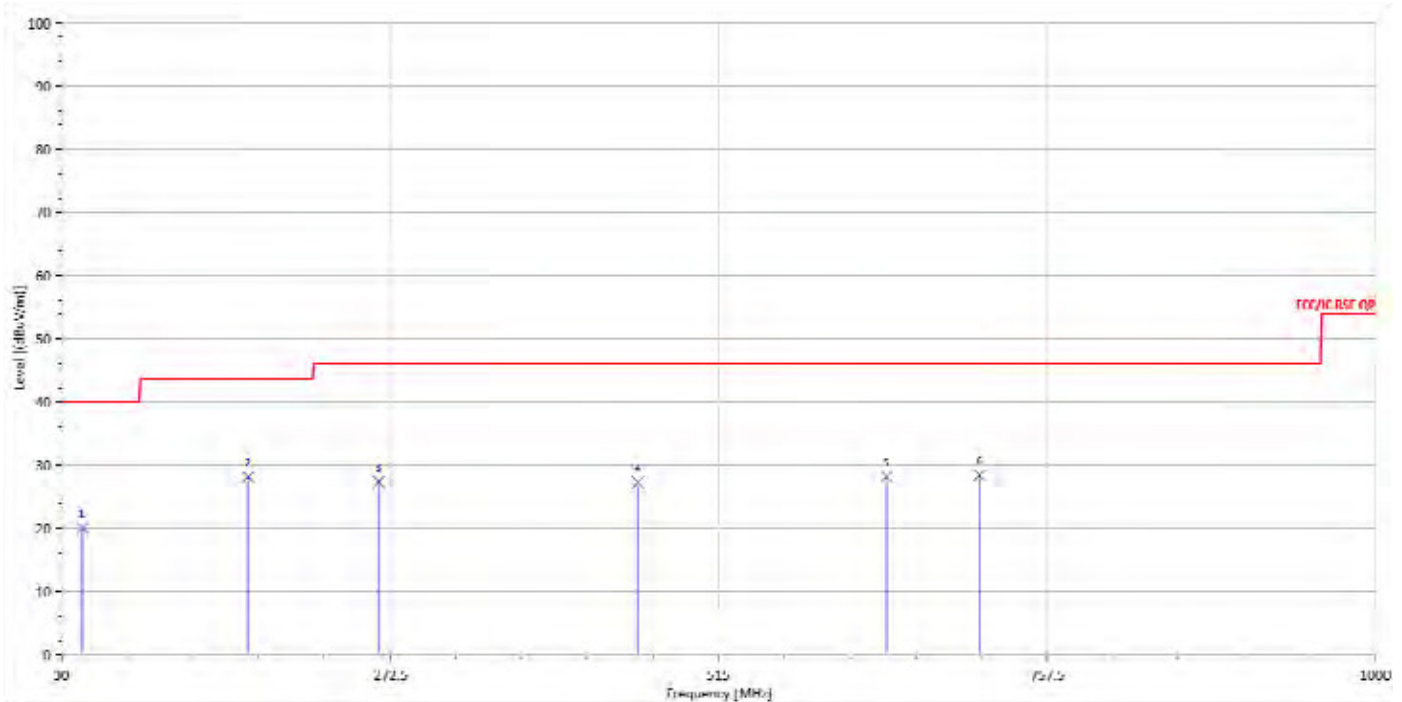
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Operation Mode : 802.11ac80 Test Date : 2016/11/8  
 Fundamental Frequency : 5610 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
45.52	S	Peak	36.67	-16.67	20.00	40	-20.00
167.74	S	Peak	46.11	-18.06	28.05	43.5	-15.45
263.77	S	Peak	41.10	-13.80	27.30	46	-18.70
455.83	S	Peak	35.65	-8.43	27.22	46	-18.78
639.16	S	Peak	33.36	-5.26	28.10	46	-17.90
708.03	S	Peak	33.47	-5.15	28.33	46	-17.67

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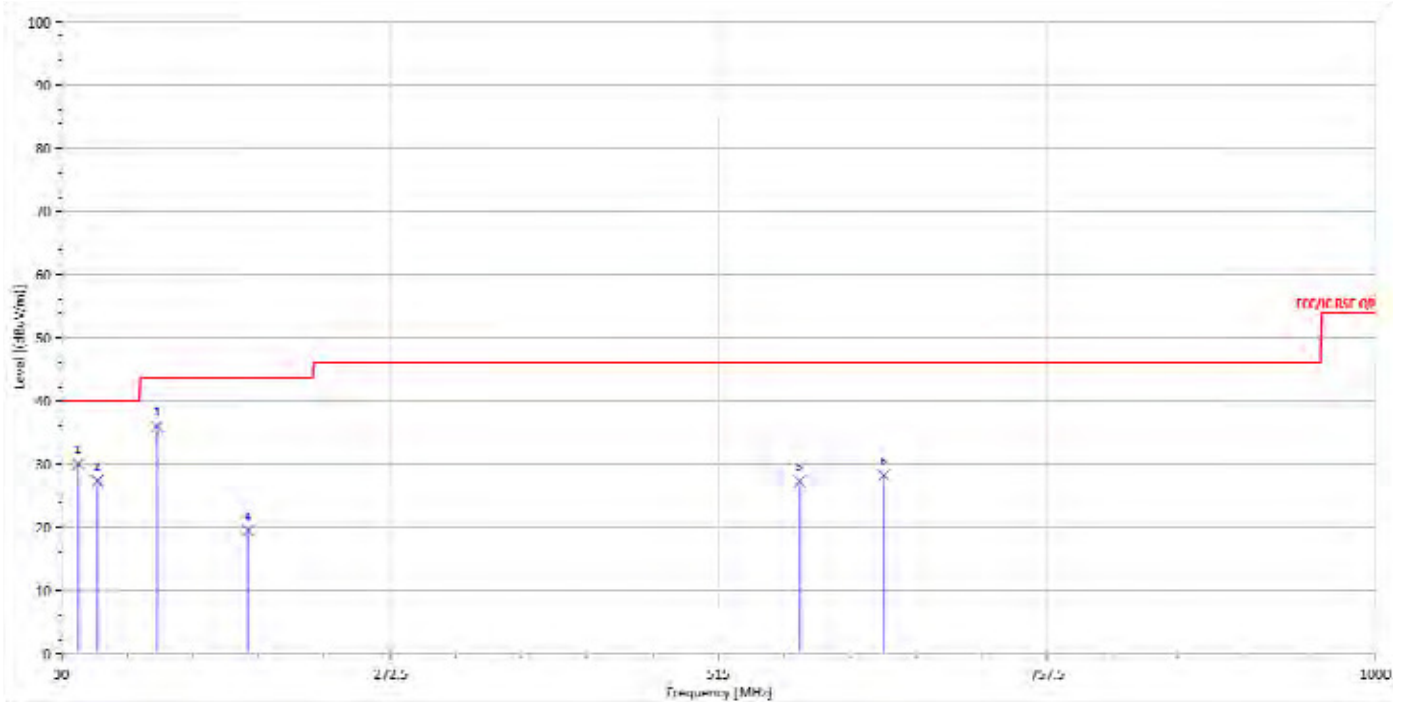
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### 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80	Test Date :	2016/11/8
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
42.61	S	Peak	44.57	-14.63	29.94	40	-10.06
56.19	S	Peak	48.88	-21.59	27.30	40	-12.70
100.81	S	Peak	53.64	-17.64	36.00	43.5	-7.50
167.74	S	Peak	37.52	-18.06	19.47	43.5	-24.03
575.14	S	Peak	33.45	-6.24	27.20	46	-18.80
637.22	S	Peak	33.23	-5.08	28.15	46	-17.85

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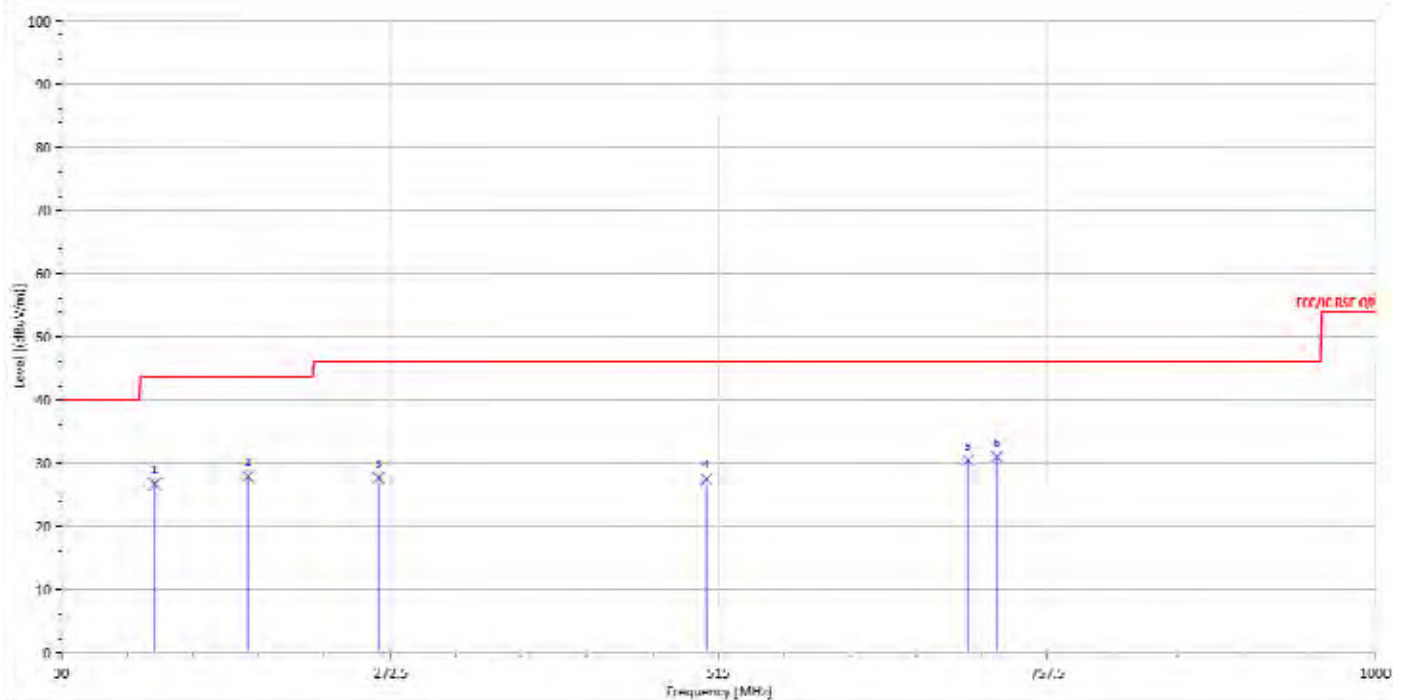
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Operation Mode : 802.11ac80 Test Date : 2016/11/8  
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
98.87	S	Peak	44.62	-17.93	26.68	43.5	-16.82
167.74	S	Peak	45.86	-18.06	27.81	43.5	-15.69
263.77	S	Peak	41.43	-13.80	27.63	46	-18.37
506.27	S	Peak	35.47	-8.08	27.39	46	-18.61
699.30	S	Peak	35.48	-5.09	30.39	46	-15.61
720.64	S	Peak	35.78	-4.83	30.95	46	-15.05

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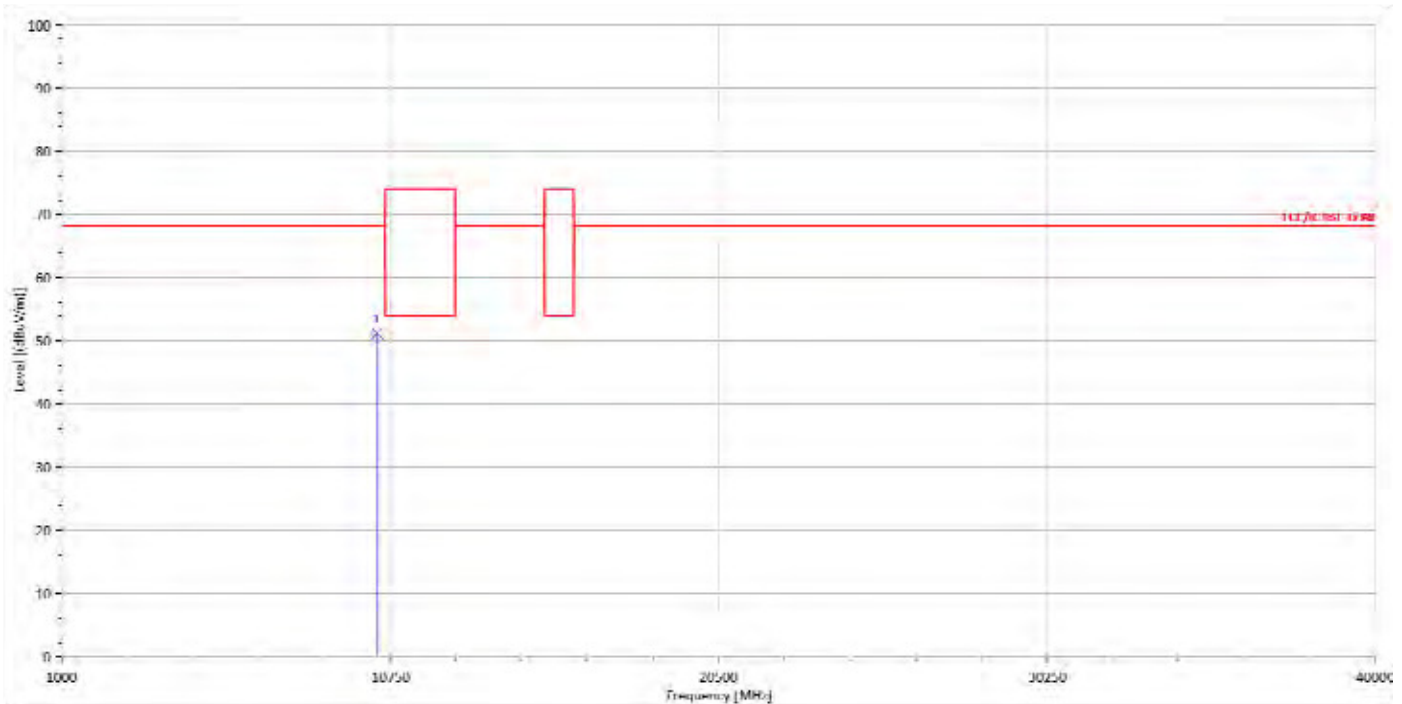
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**Above 1GHz Worst-Case Data:**

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

Operation Mode :	802.11a	Test Date :	2016/11/8
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
10360.00	H	Peak	30.99	20.18	51.17	68.3	-17.13

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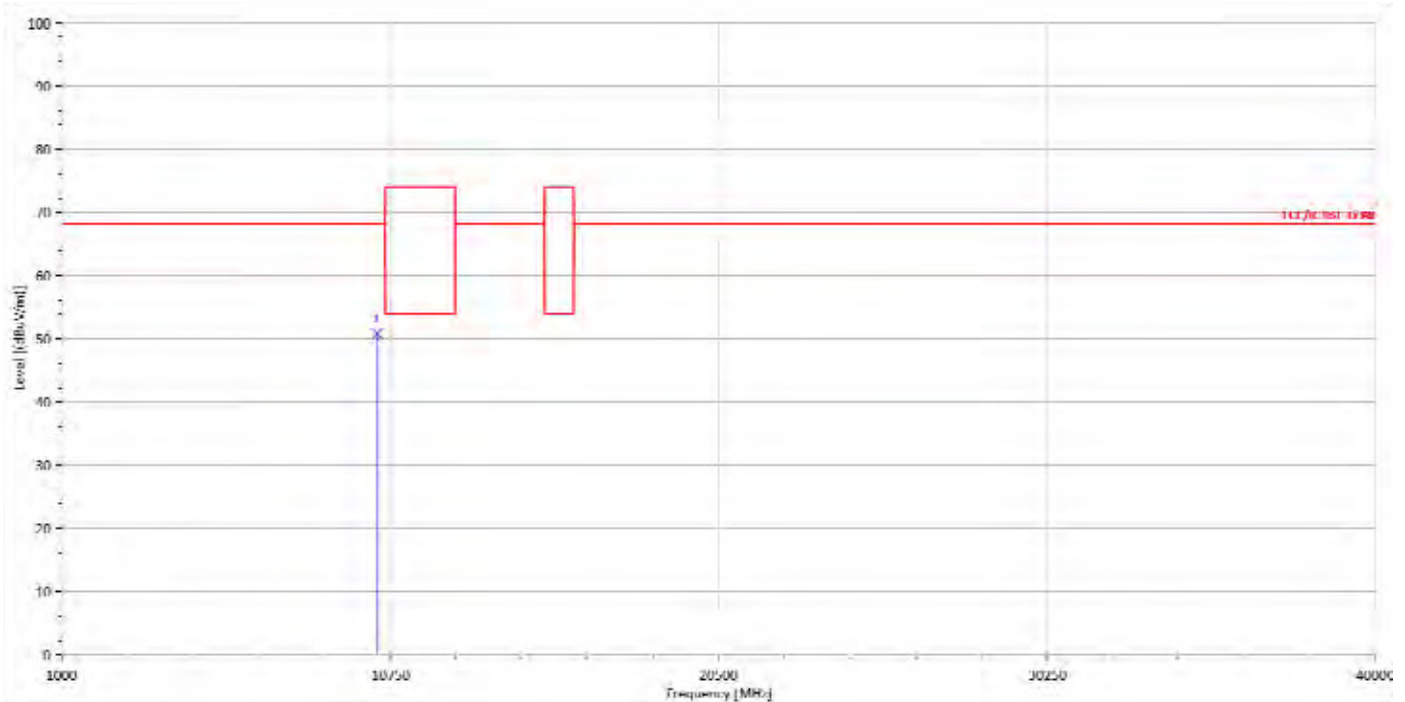
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5180 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
10360.00	H	Peak	30.64	20.18	50.82	68.3	-17.48

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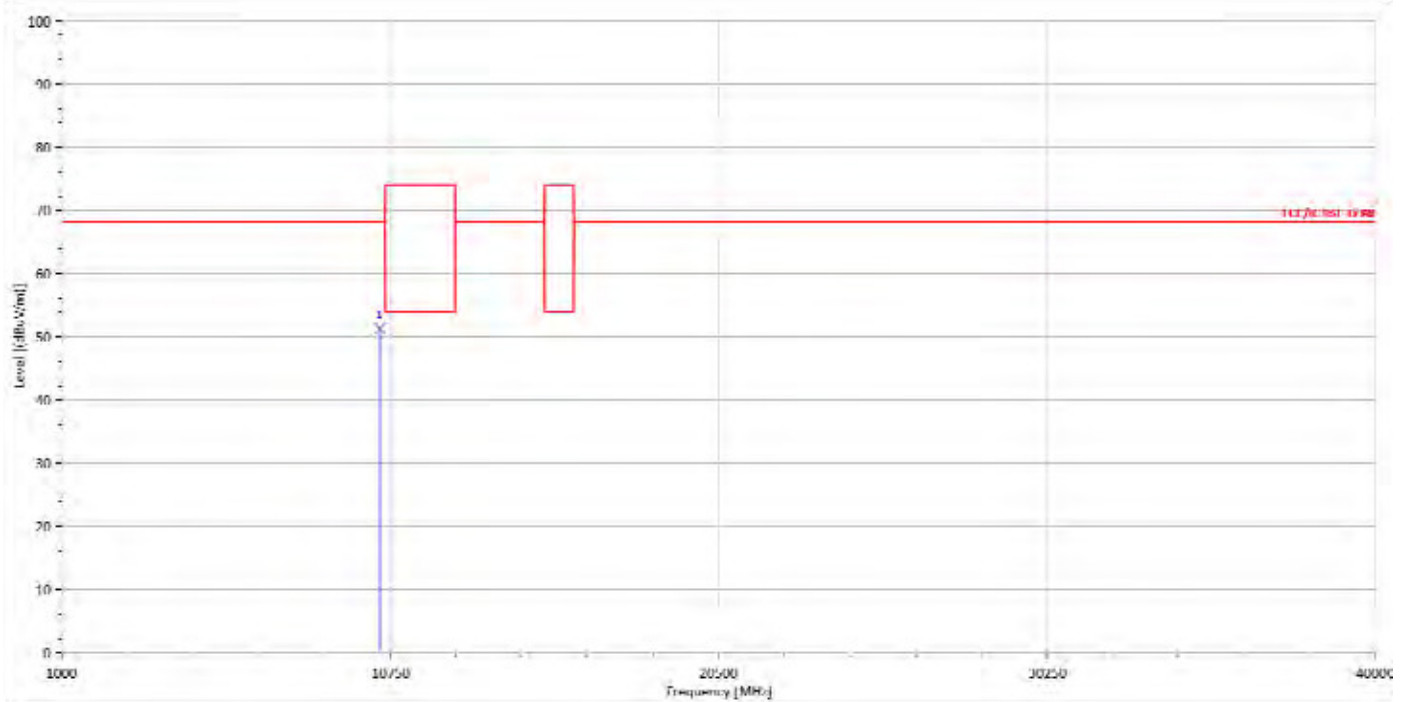
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5220 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
10440.00	H	Peak	31.02	20.29	51.31	68.3	-16.99

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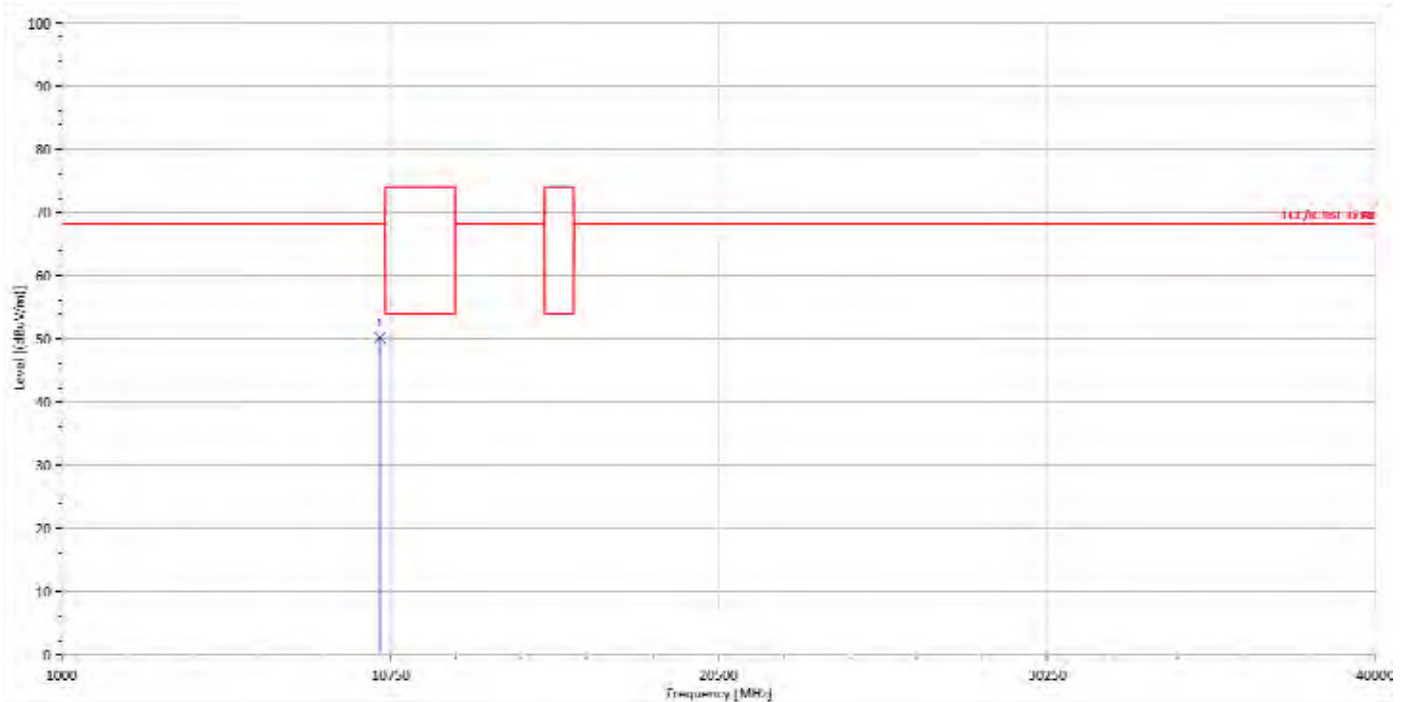
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5220 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
10440.00	H	Peak	29.89	20.29	50.18	68.3	-18.12

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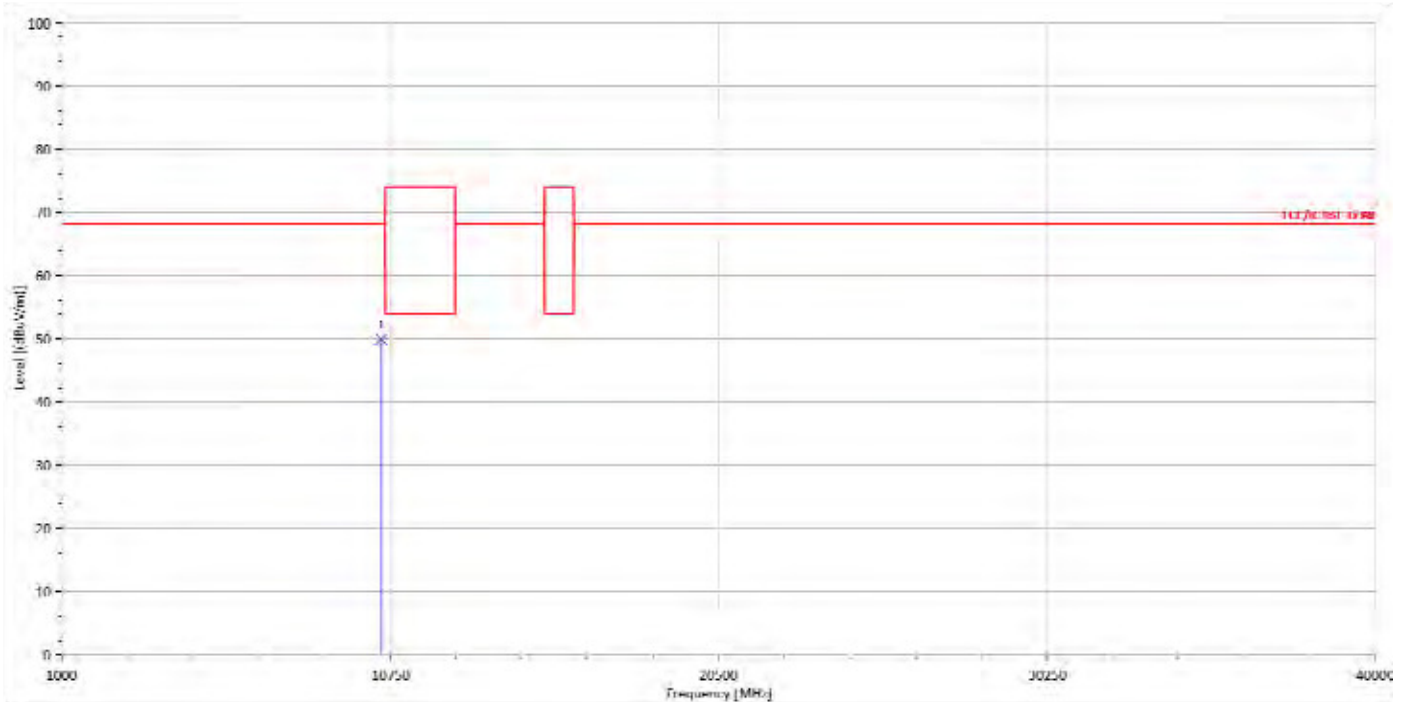
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Operation Mode :	802.11a	Test Date :	2016/11/8
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
10480.00	H	Peak	29.24	20.68	49.92	68.3	-18.38

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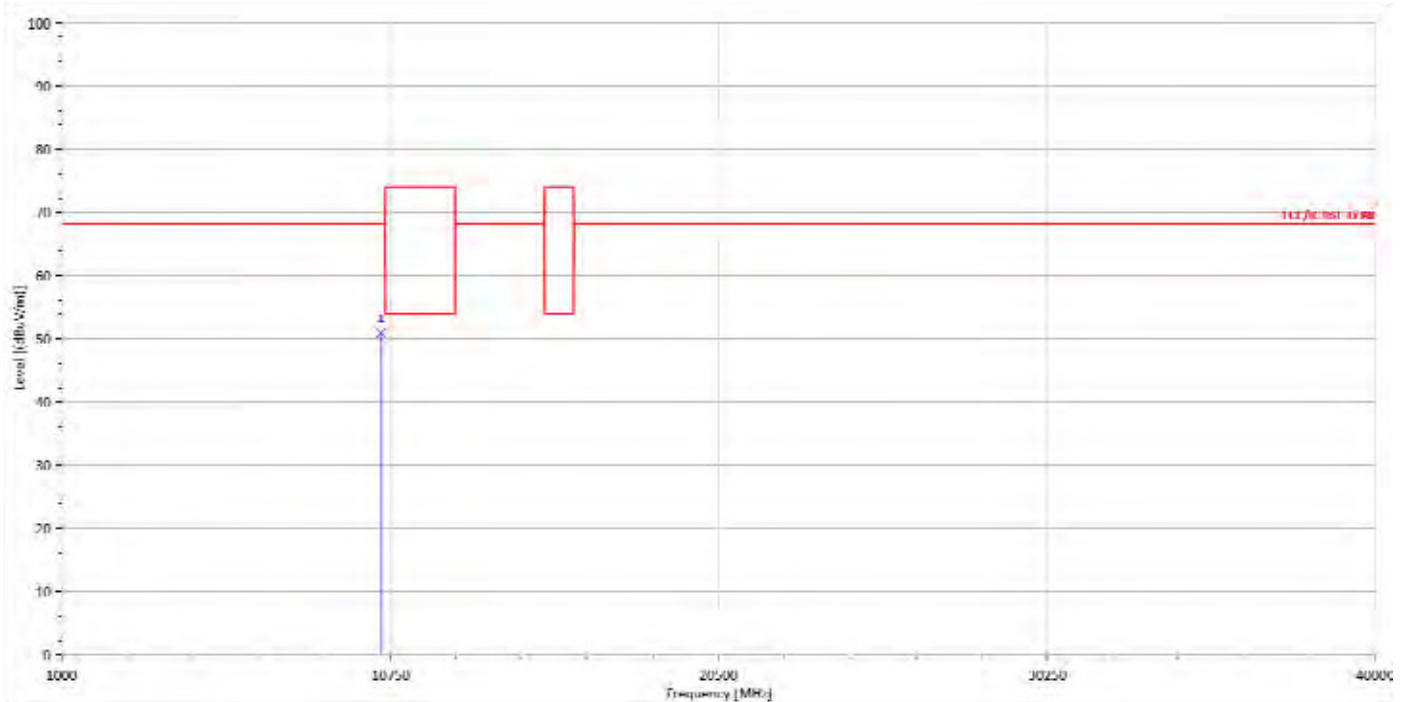
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5240 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
10480.00	H	Peak	30.24	20.68	50.92	68.3	-17.38

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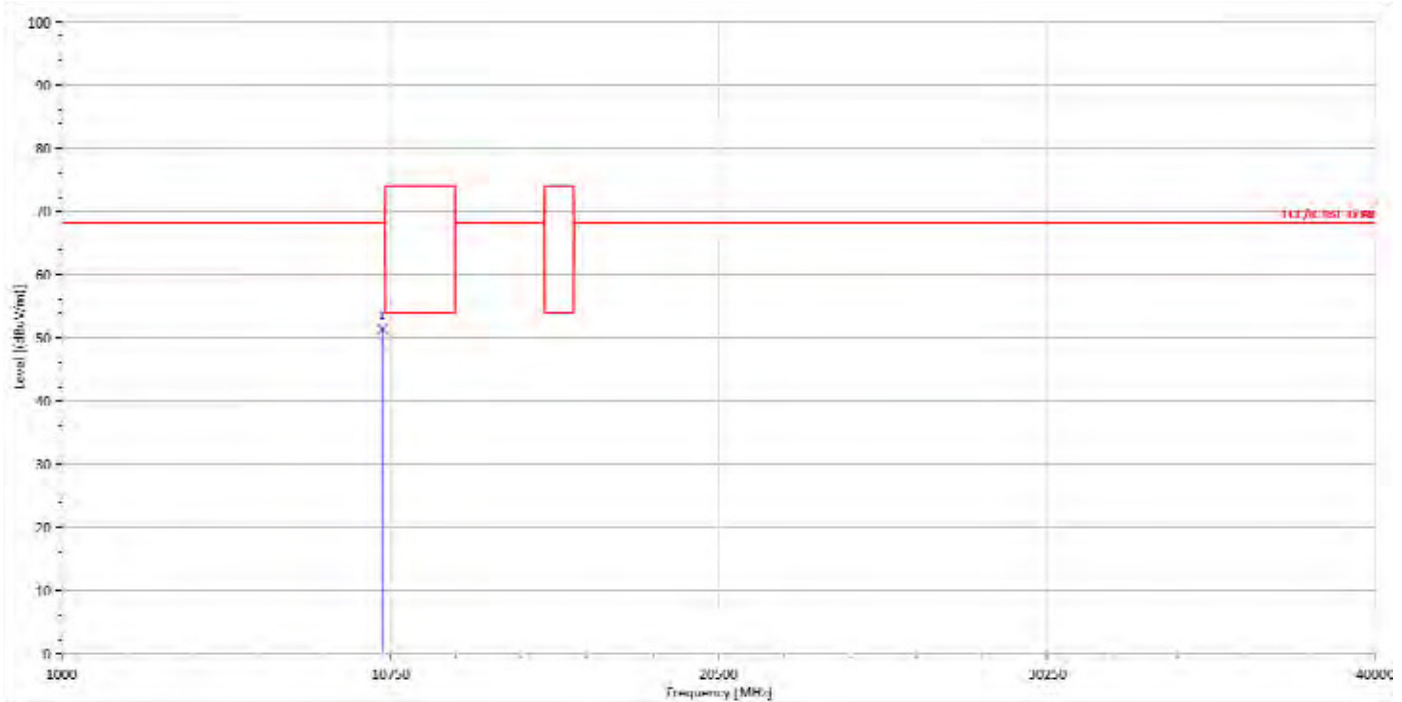
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### Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11a	Test Date :	2016/11/8
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
10520.00	H	Peak	31.27	20.10	51.37	68.3	-16.93

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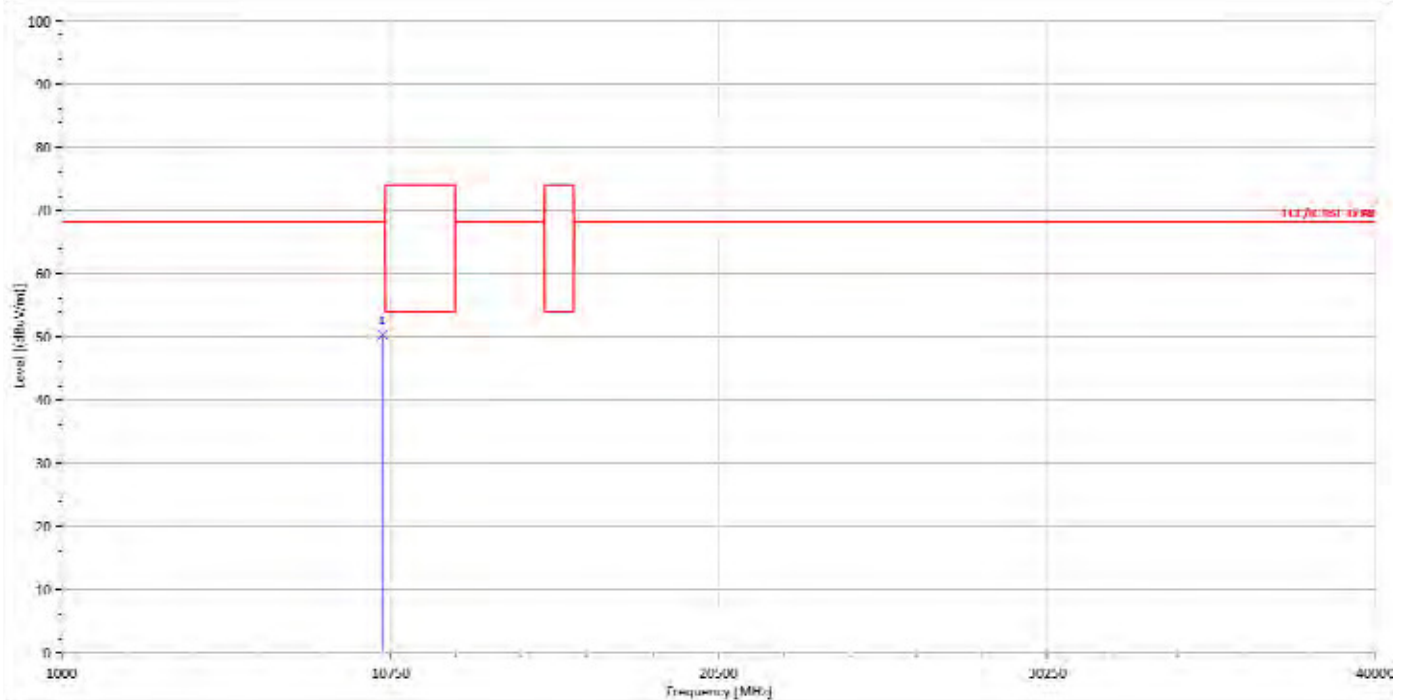
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5260 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
10520.00	H	Peak	30.23	20.10	50.33	68.3	-17.97

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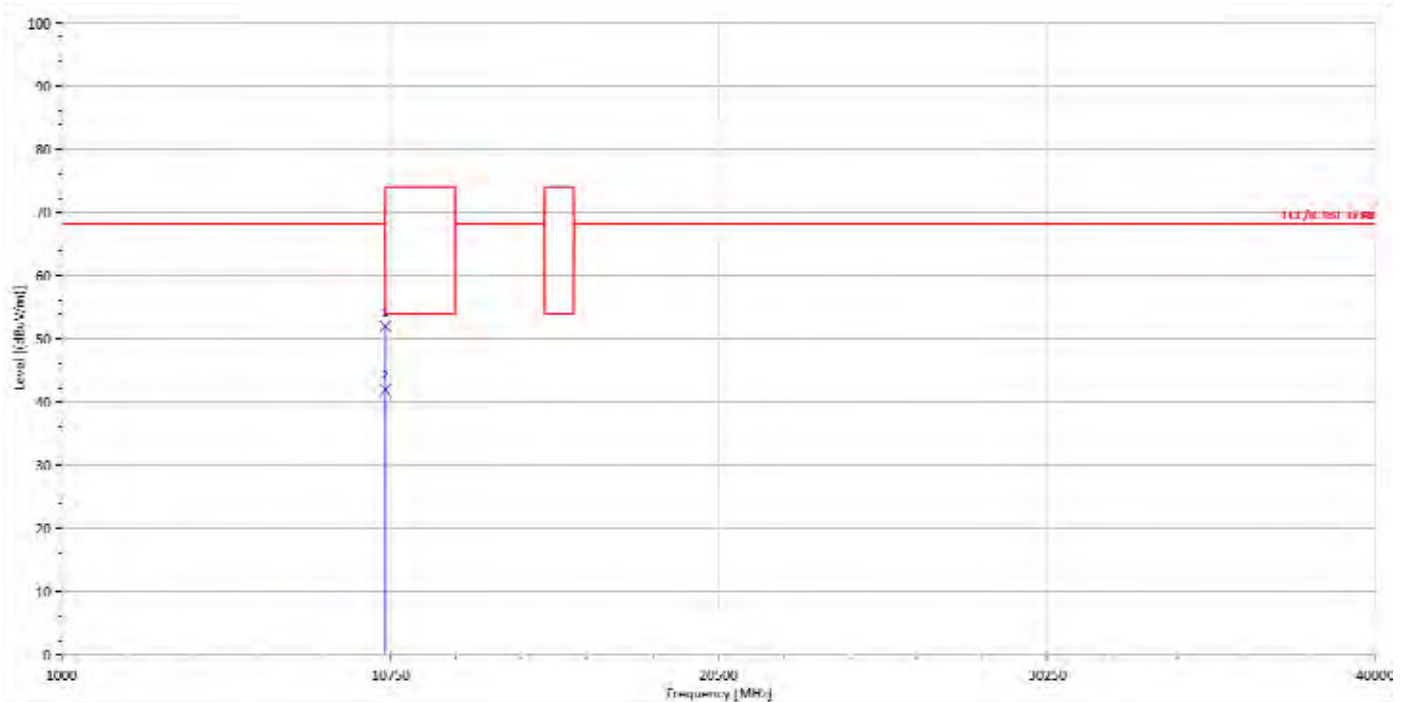
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
10600.00	H	Peak	31.83	20.17	51.99	74	-22.01
10600.00	H	Average	21.72	20.17	41.89	54	-12.11

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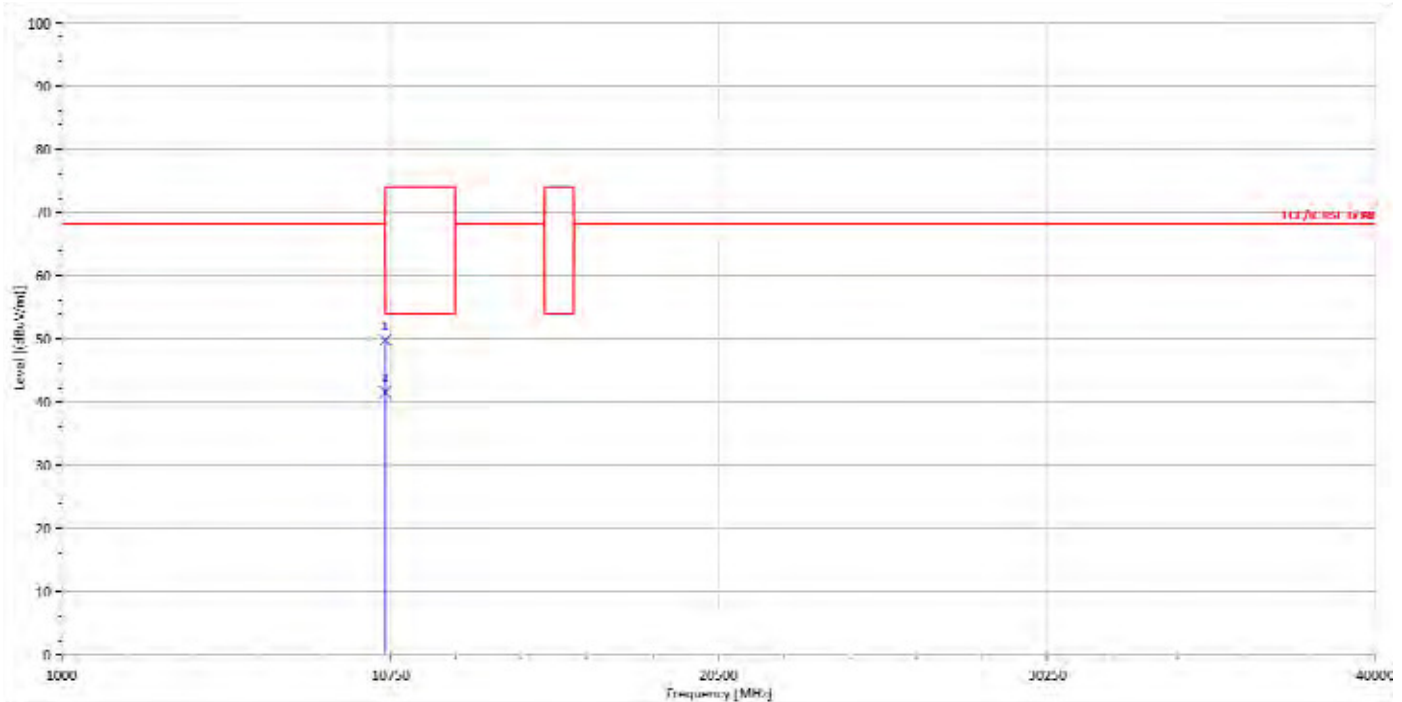
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
10600.00	H	Peak	29.60	20.17	49.77	74	-24.23
10600.00	H	Average	21.38	20.17	41.55	54	-12.45

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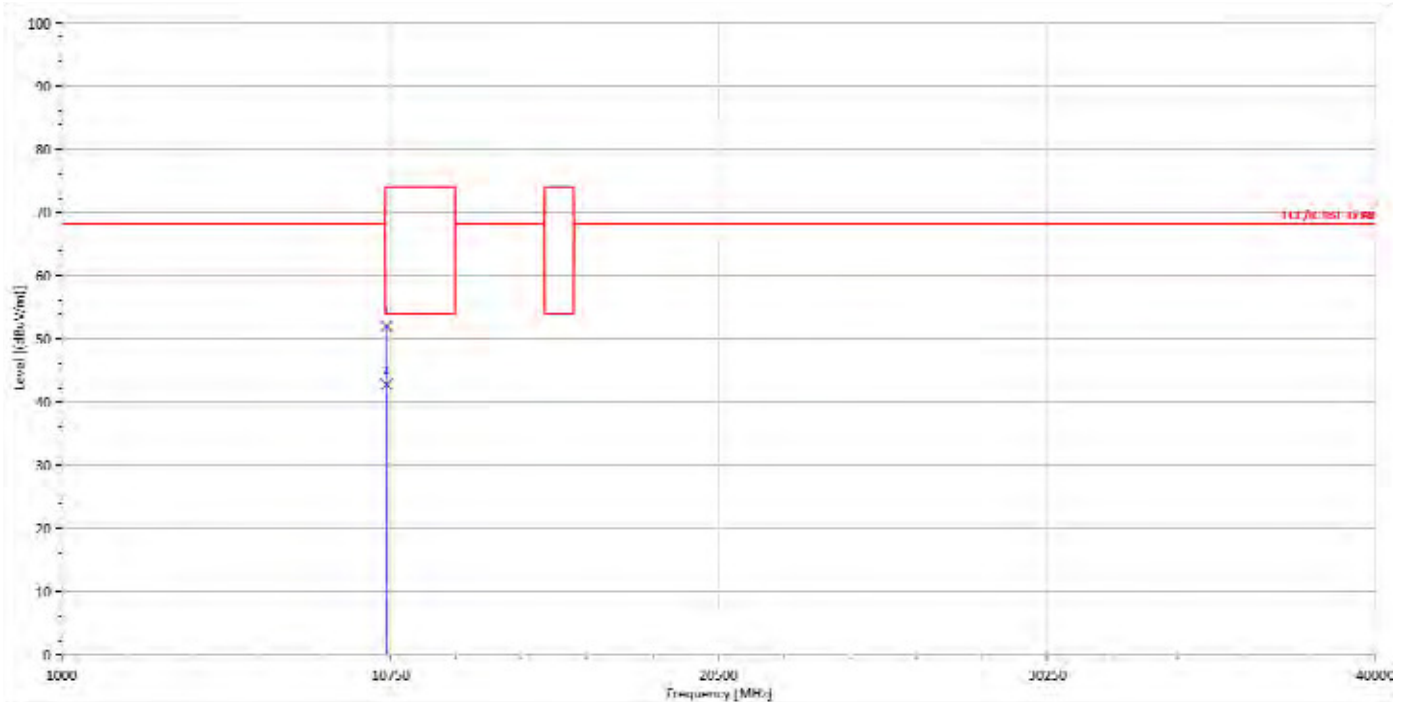
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5320 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
10640.00	H	Peak	31.65	20.34	52.00	74	-22.00
10640.00	H	Average	22.36	20.34	42.70	54	-11.30

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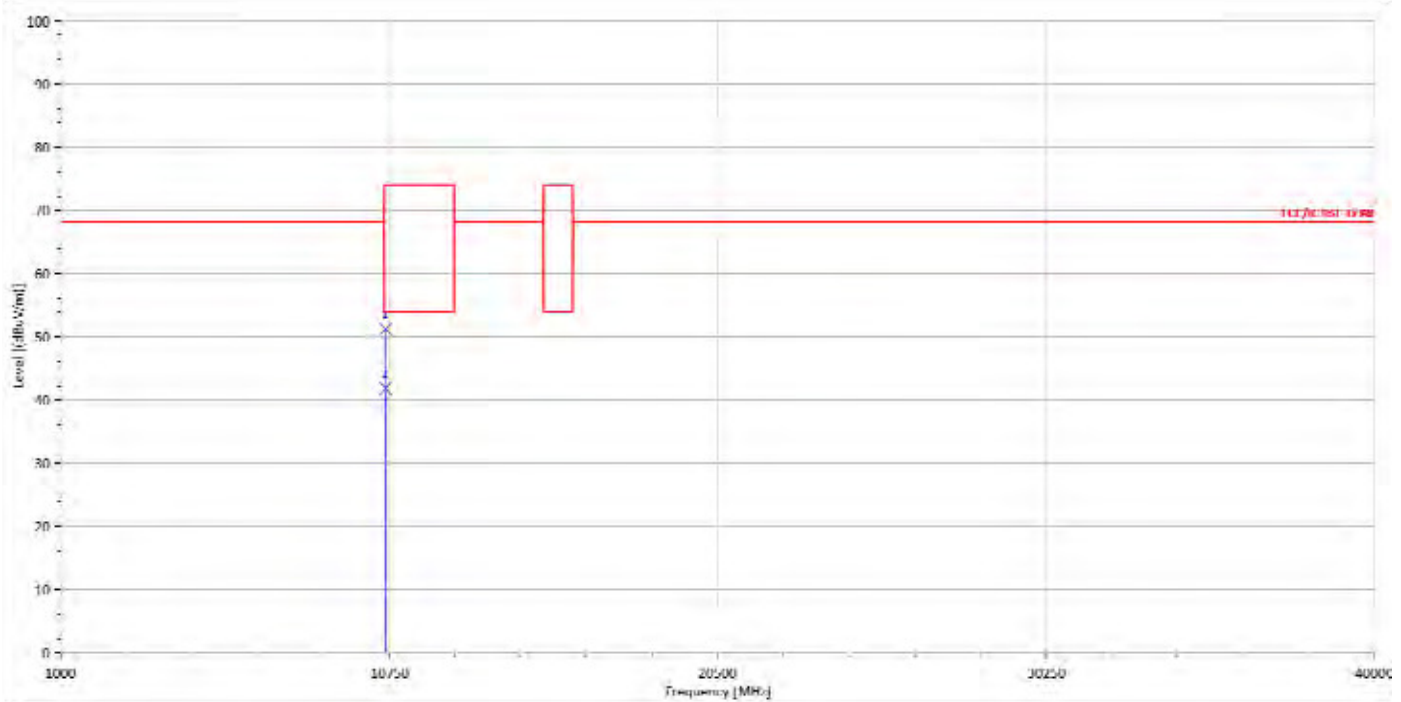
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 Fundamental Frequency : 5320 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
10640.00	H	Peak	30.89	20.34	51.24	74	-22.76
10640.00	H	Average	21.45	20.34	41.79	54	-12.21

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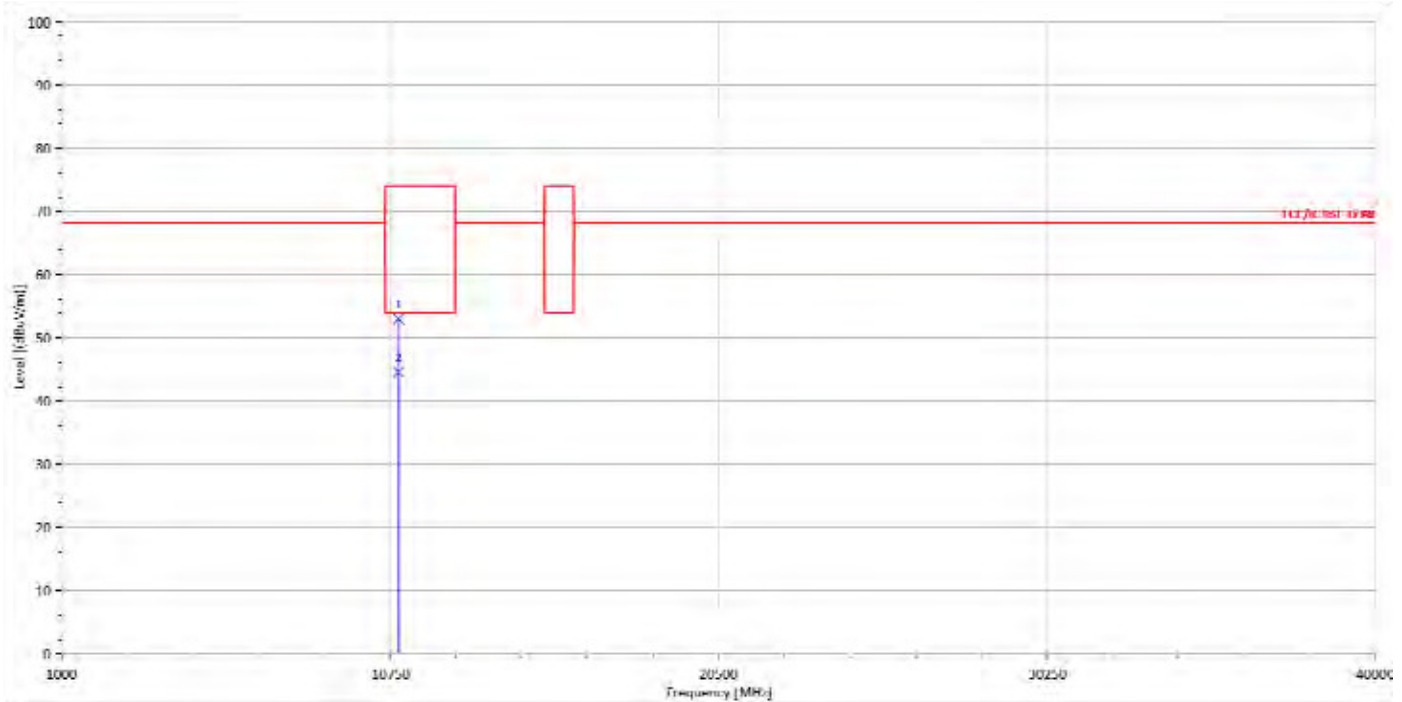
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### Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2016/11/8
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
11000.00	H	Peak	30.93	22.11	53.03	74	-20.97
11000.00	H	Average	22.40	22.11	44.51	54	-9.49

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台灣檢驗科技股份有限公司

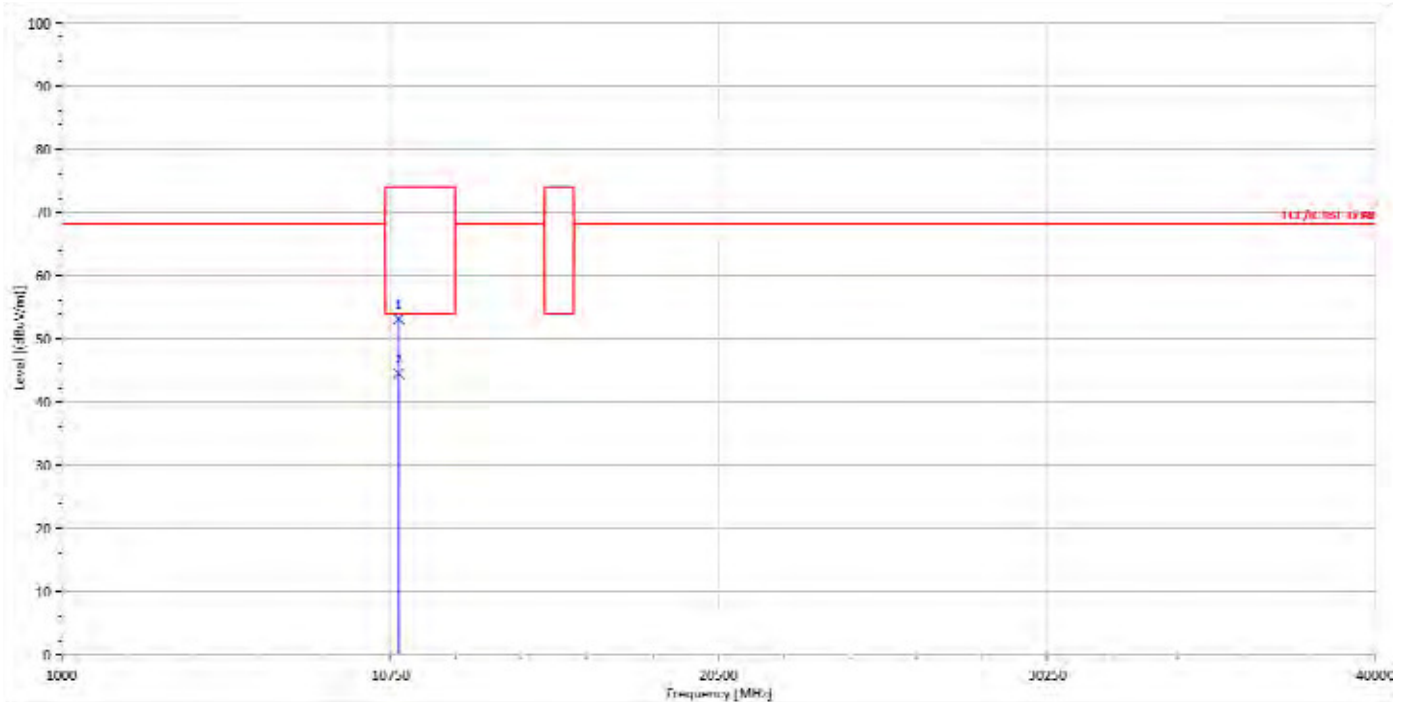
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5500 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      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
11000.00	H	Peak	31.11	22.11	53.21	74	-20.79
11000.00	H	Average	22.35	22.11	44.46	54	-9.54

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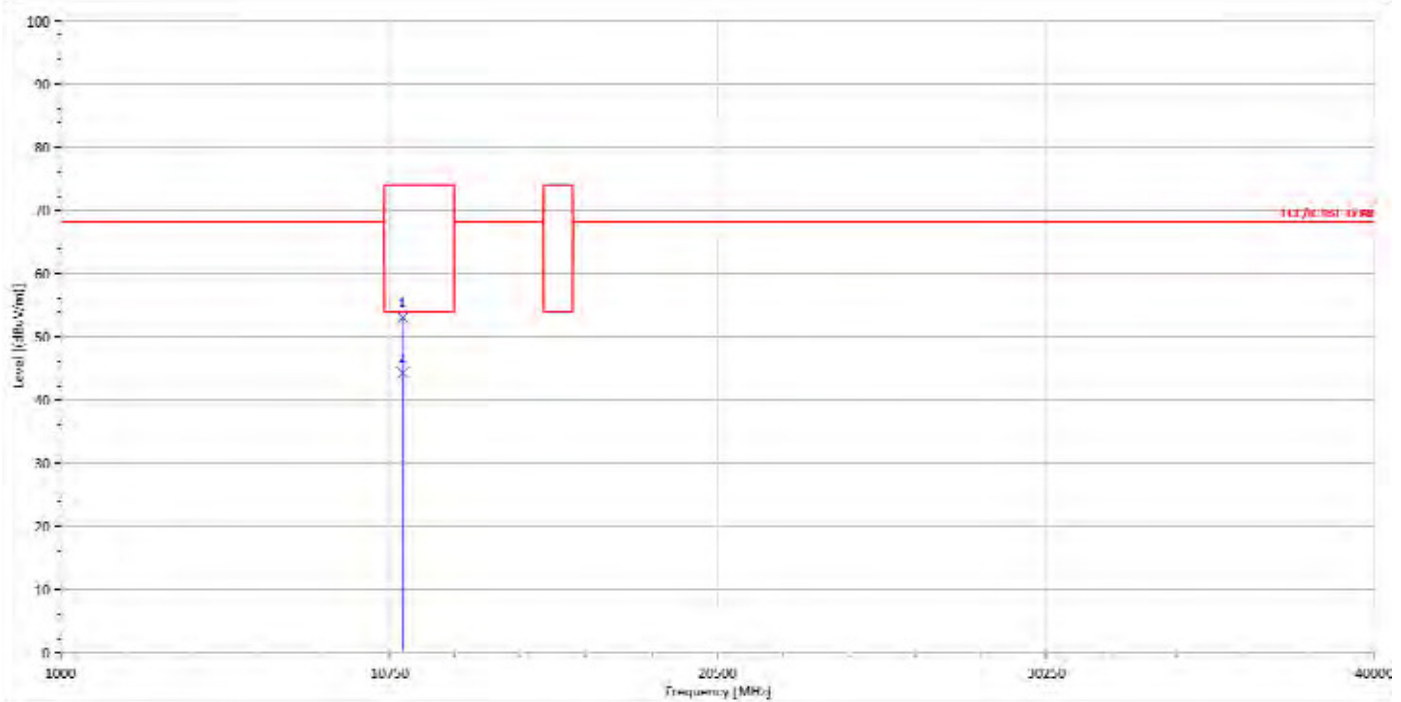
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5580 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
11160.00	H	Peak	31.03	22.04	53.06	74	-20.94
11160.00	H	Average	22.23	22.04	44.27	54	-9.73

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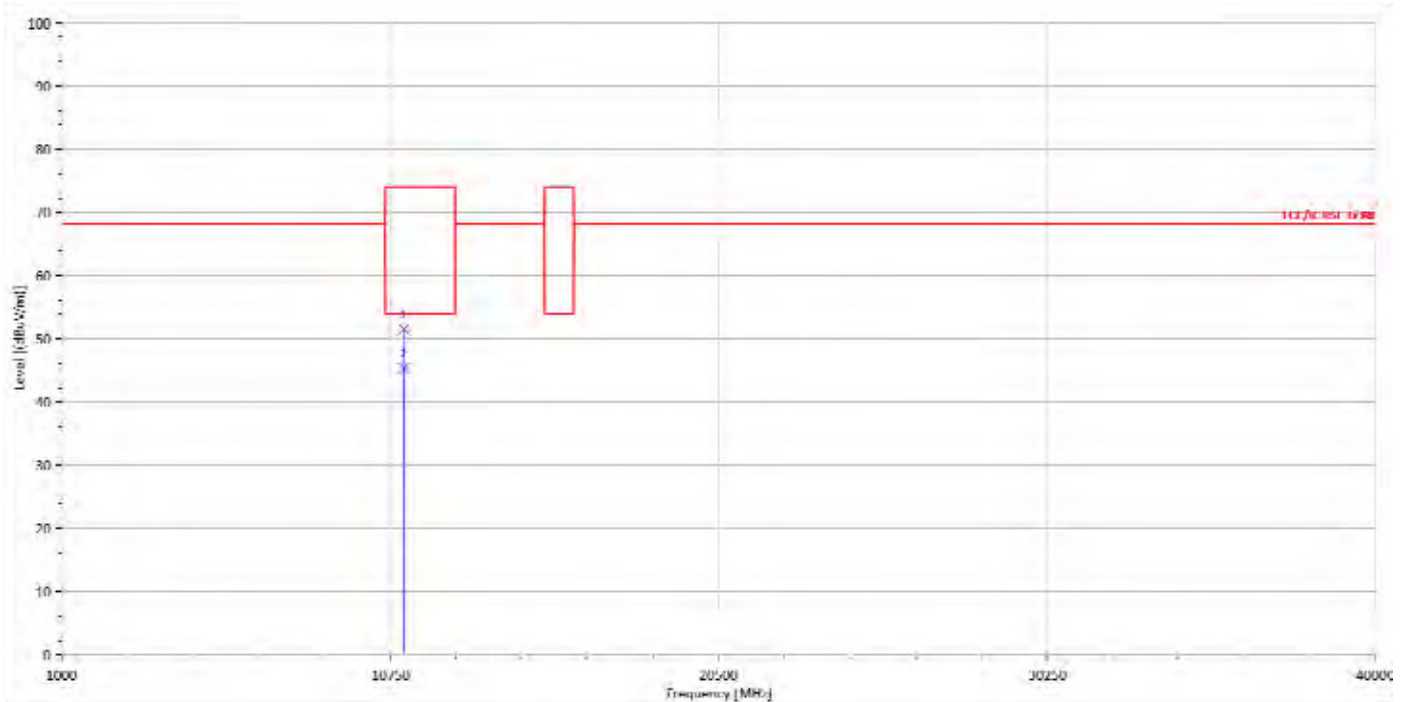
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5580 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11160.00	H	Peak	29.47	22.04	51.51	74	-22.49
11160.00	H	Average	23.22	22.04	45.26	54	-8.74

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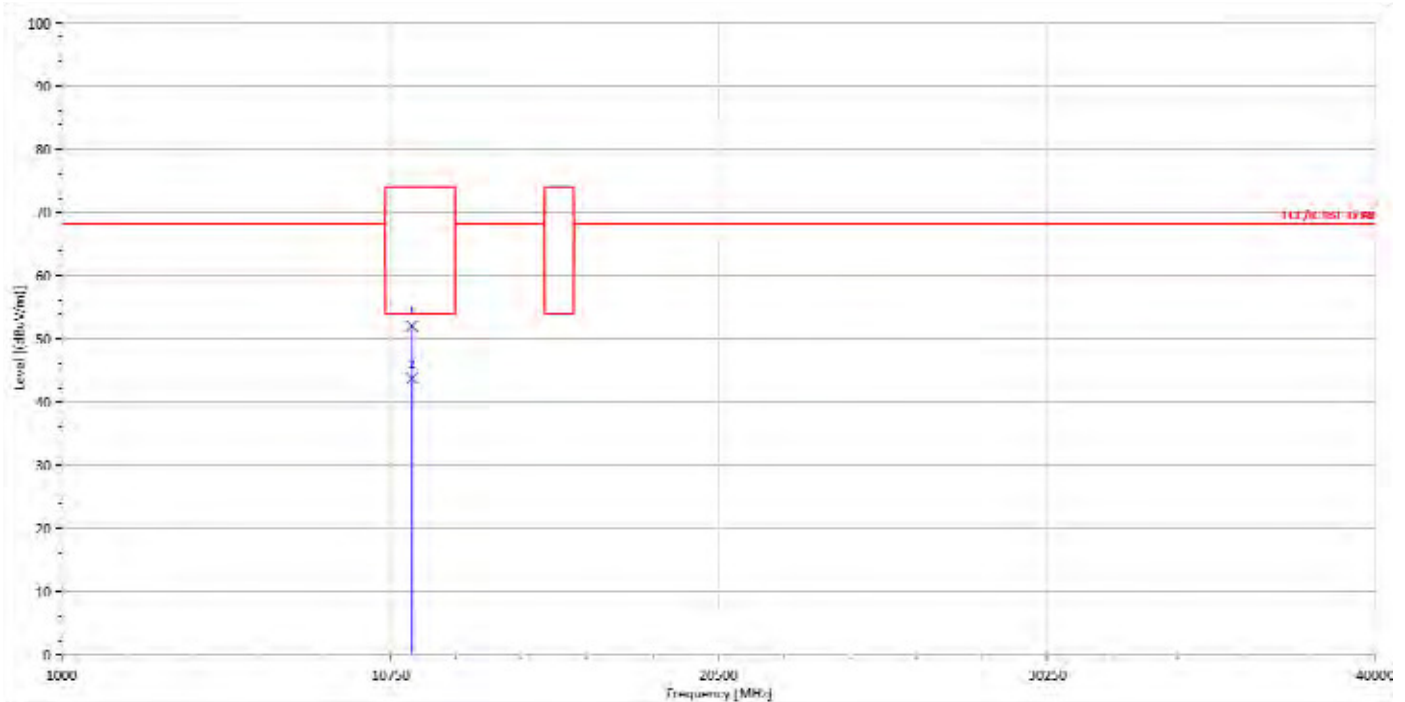
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5700 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
11400.00	H	Peak	30.82	21.22	52.03	74	-21.97
11400.00	H	Average	22.44	21.22	43.66	54	-10.34

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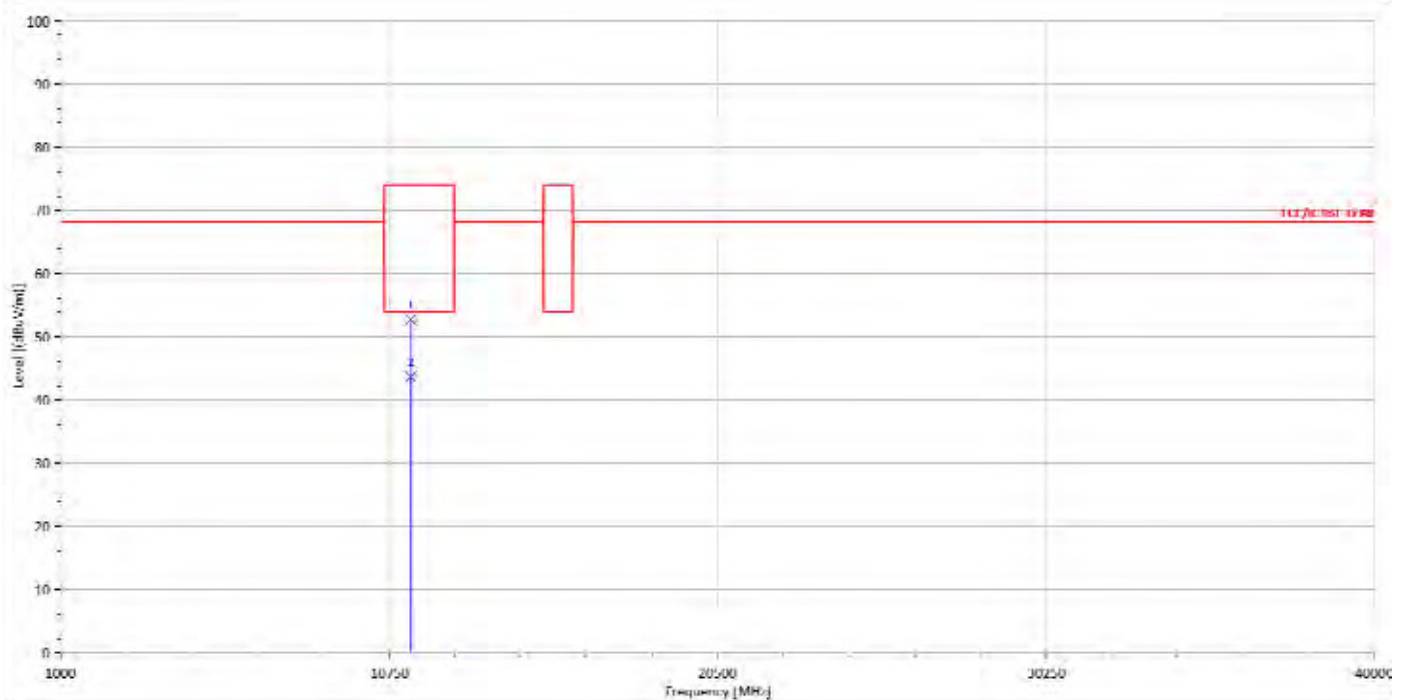
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Operation Mode :	802.11a	Test Date :	2016/11/8
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11400.00	H	Peak	31.54	21.22	52.75	74	-21.25
11400.00	H	Average	22.39	21.22	43.61	54	-10.39

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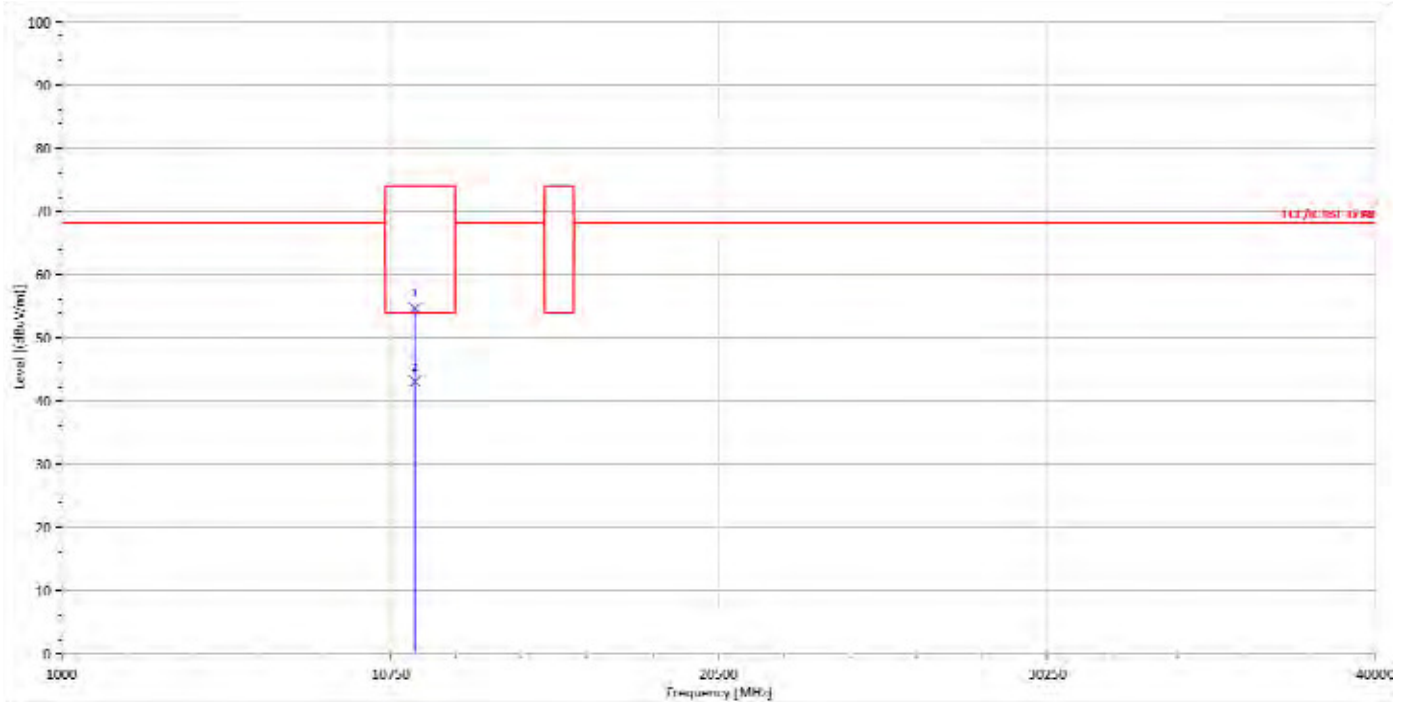
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### Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2016/11/8
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
11490.00	H	Peak	34.03	20.70	54.73	74	-19.27
11490.00	H	Average	22.31	20.70	43.01	54	-10.99

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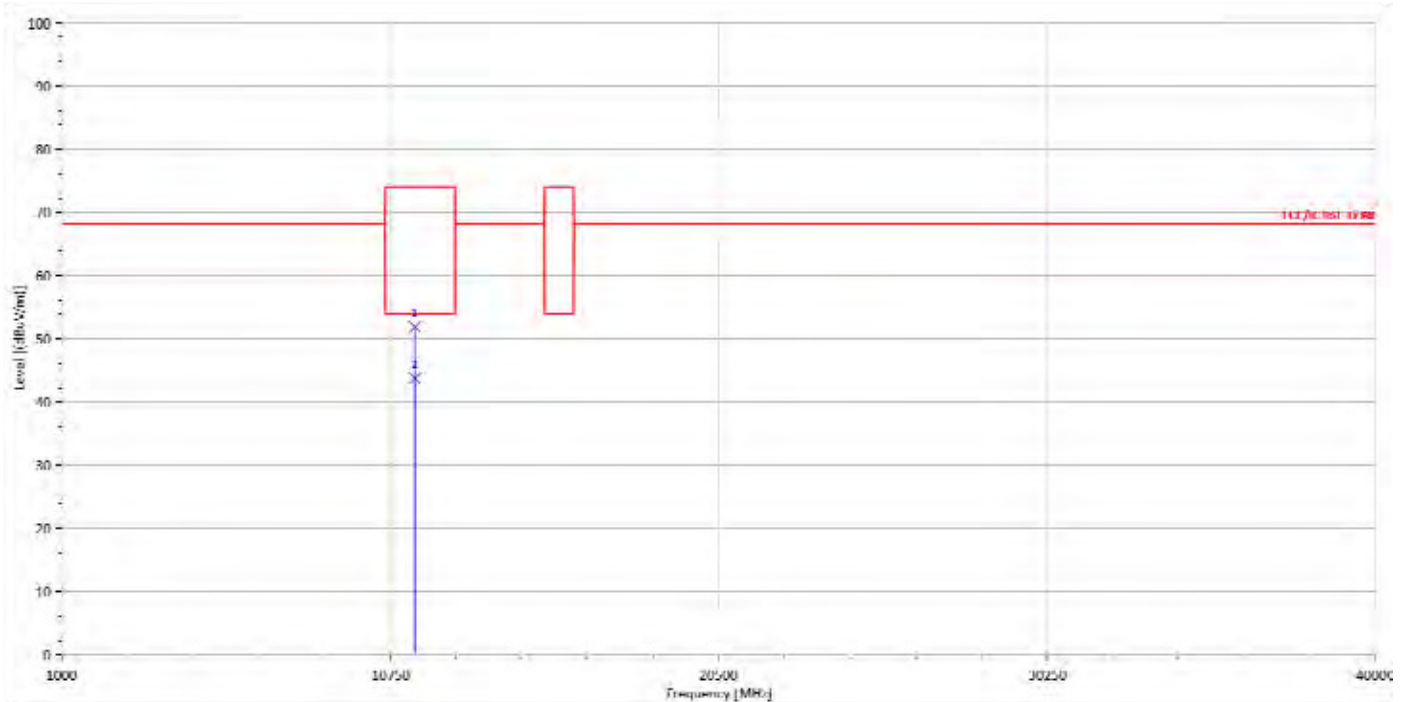
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5745 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11490.00	H	Peak	31.18	20.70	51.89	74	-22.11
11490.00	H	Average	22.98	20.70	43.68	54	-10.32

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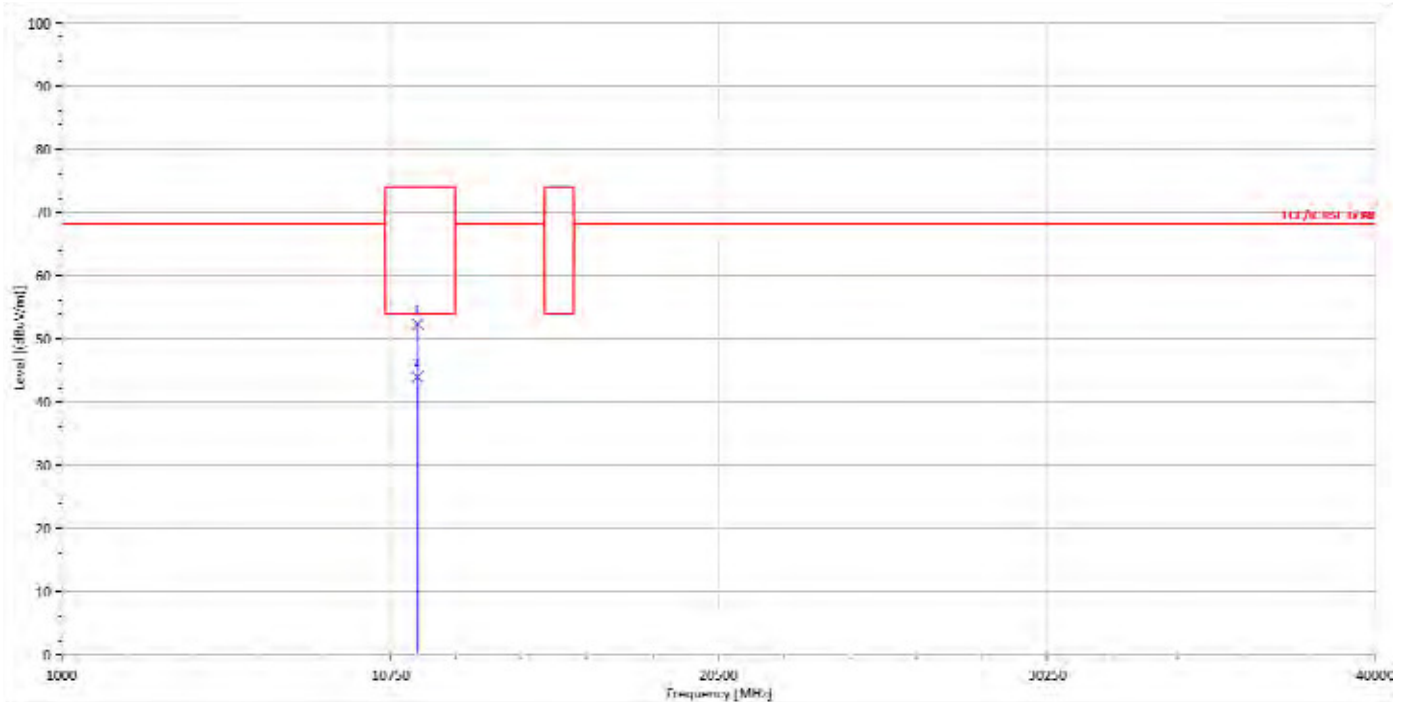
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5785 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
11570.00	H	Peak	30.90	21.44	52.34	74	-21.66
11570.00	H	Average	22.46	21.44	43.90	54	-10.10

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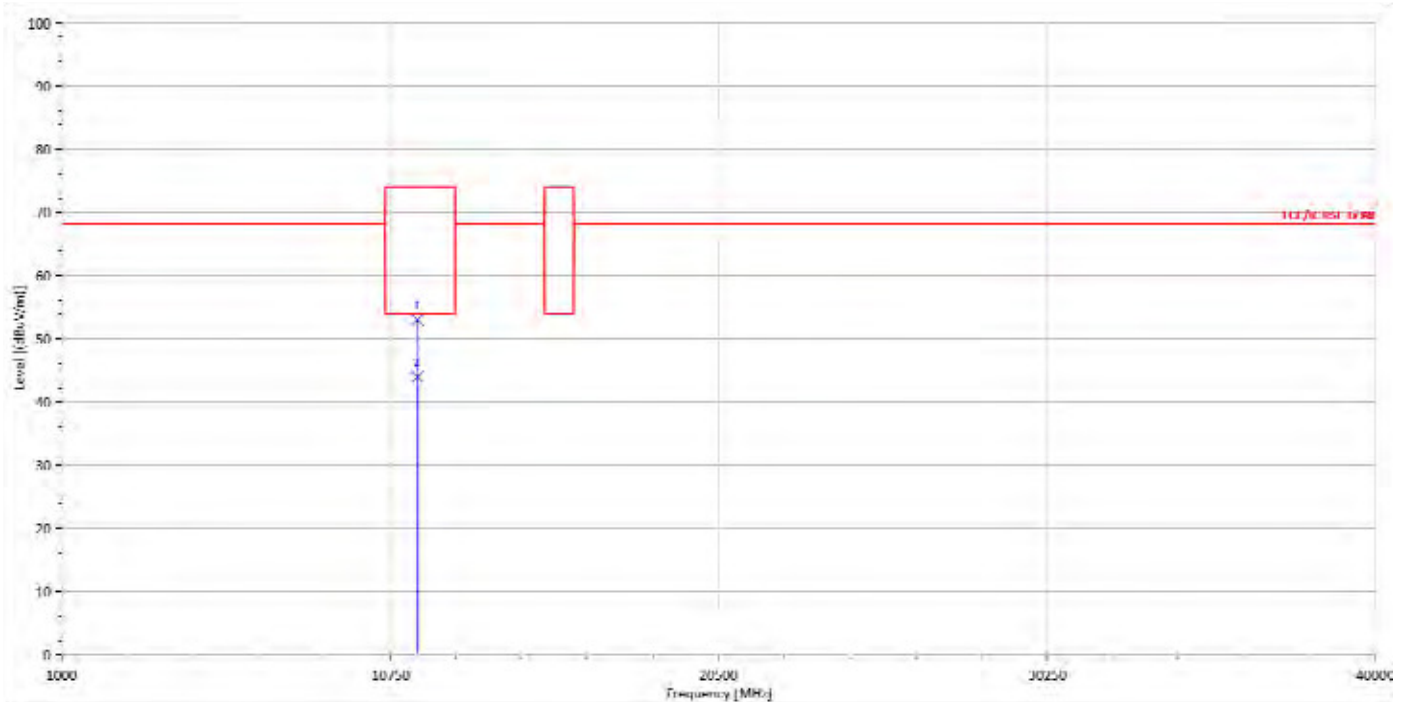
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5785 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11570.00	H	Peak	31.57	21.44	53.02	74	-20.98
11570.00	H	Average	22.49	21.44	43.93	54	-10.07

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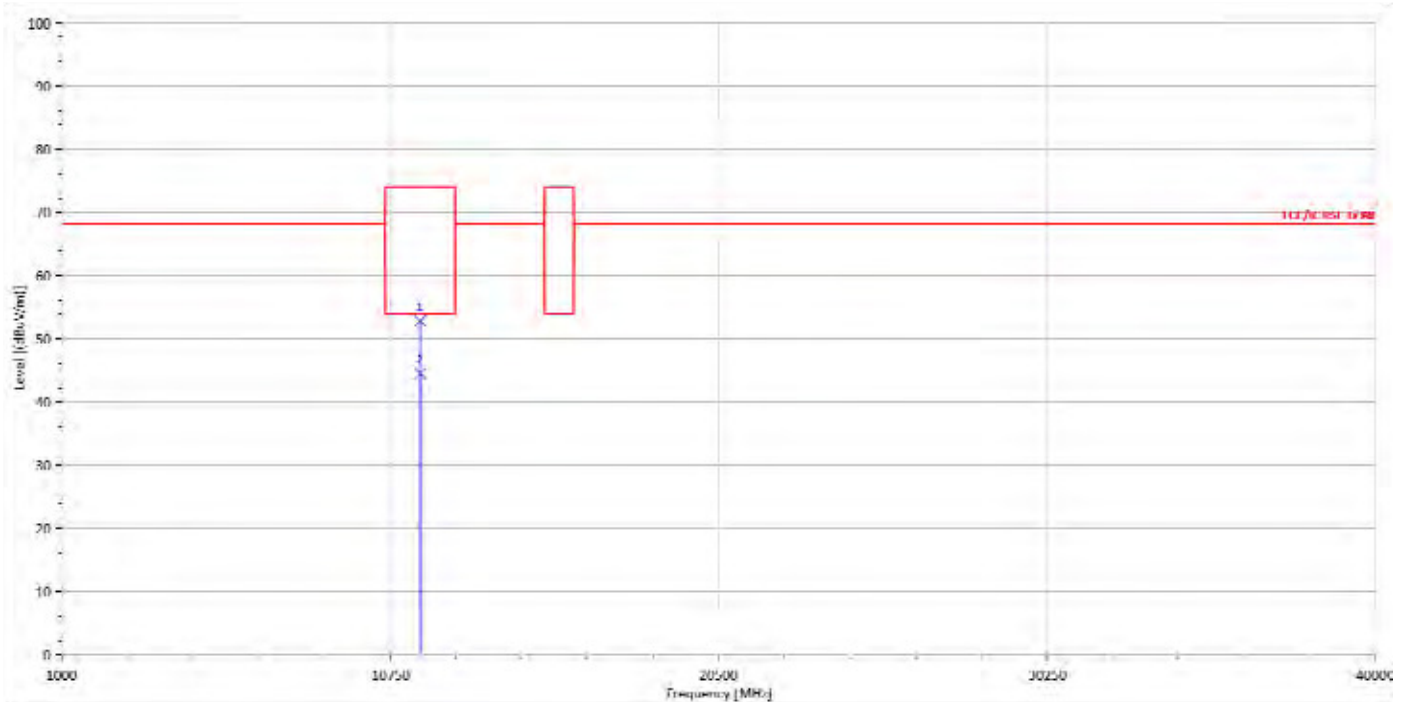
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Operation Mode :	802.11a	Test Date :	2016/11/8
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
11650.00	H	Peak	30.83	22.02	52.86	74	-21.14
11650.00	H	Average	22.42	22.02	44.44	54	-9.56

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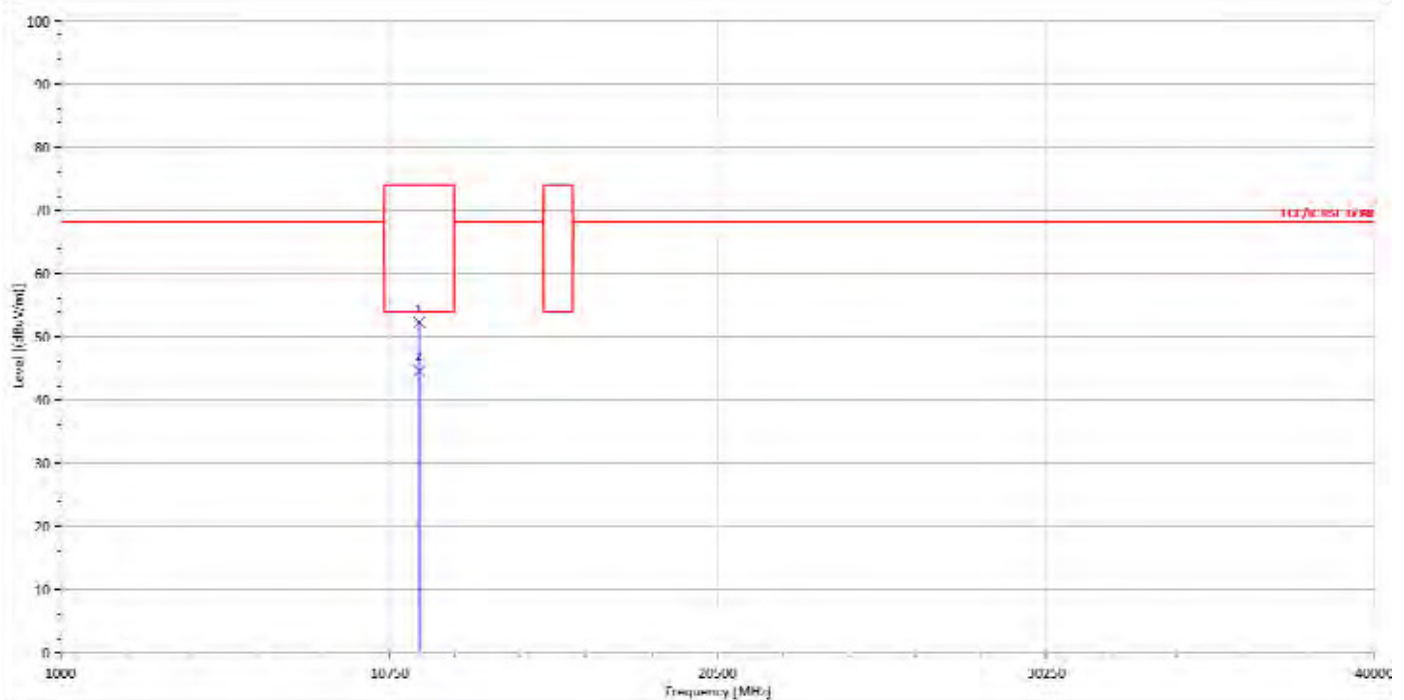
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Operation Mode : 802.11a      Test Date : 2016/11/8  
 Fundamental Frequency : 5825 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11650.00	H	Peak	30.27	22.02	52.29	74	-21.71
11650.00	H	Average	22.51	22.02	44.53	54	-9.47

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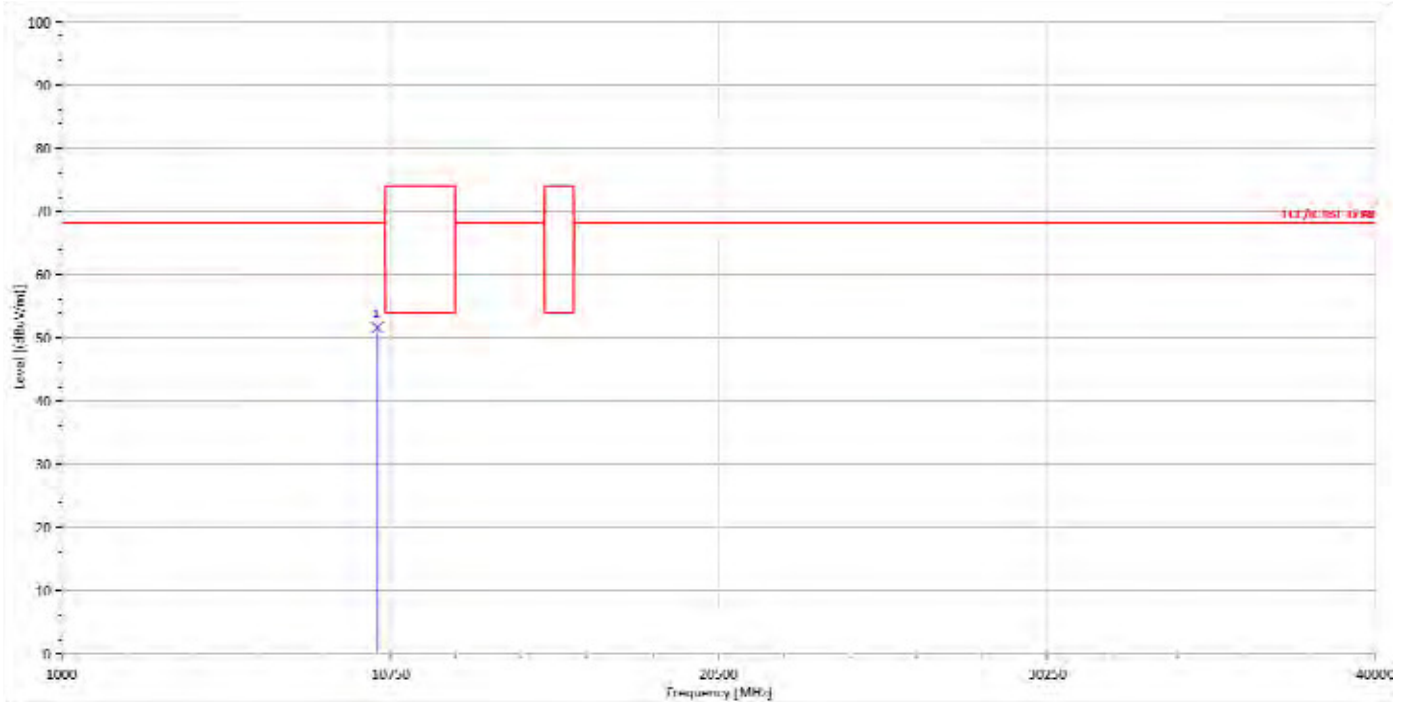
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5180 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      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
10360.00	H	Peak	31.47	20.18	51.65	68.3	-16.65

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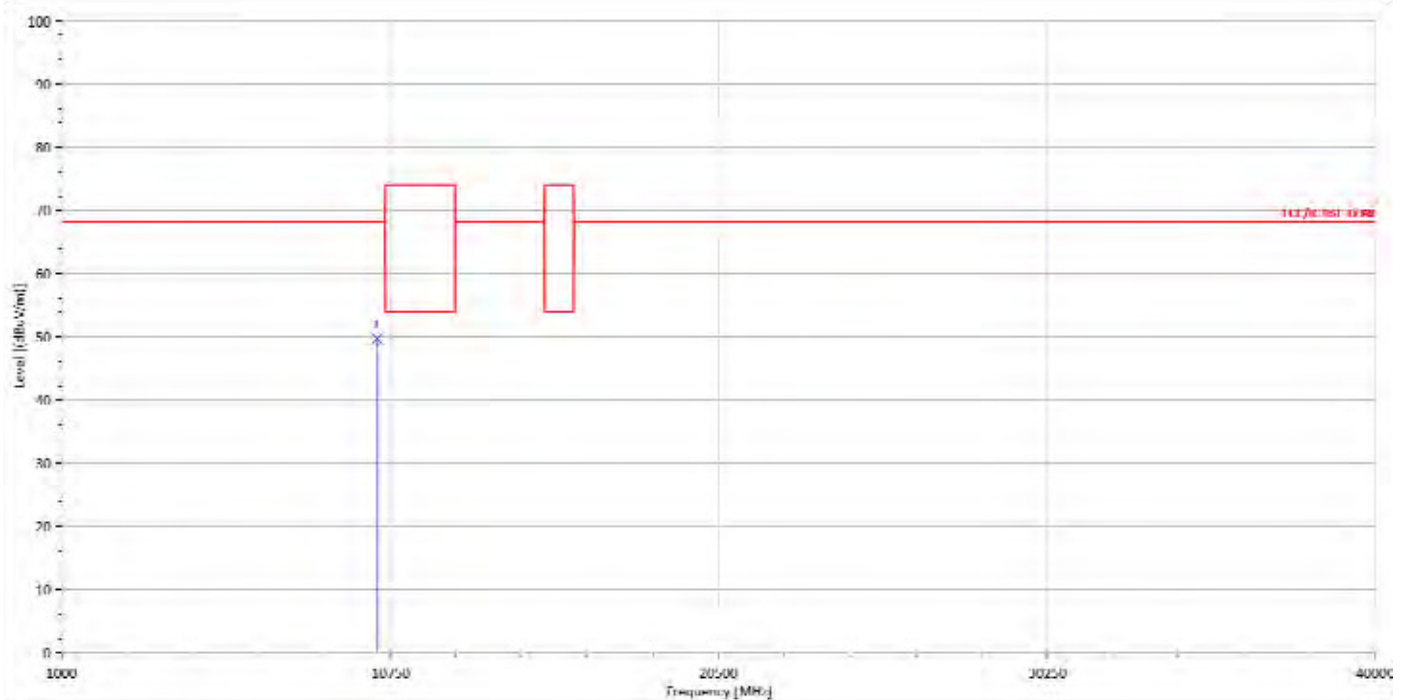
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5180 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
10360.00	H	Peak	29.50	20.18	49.68	68.3	-18.62

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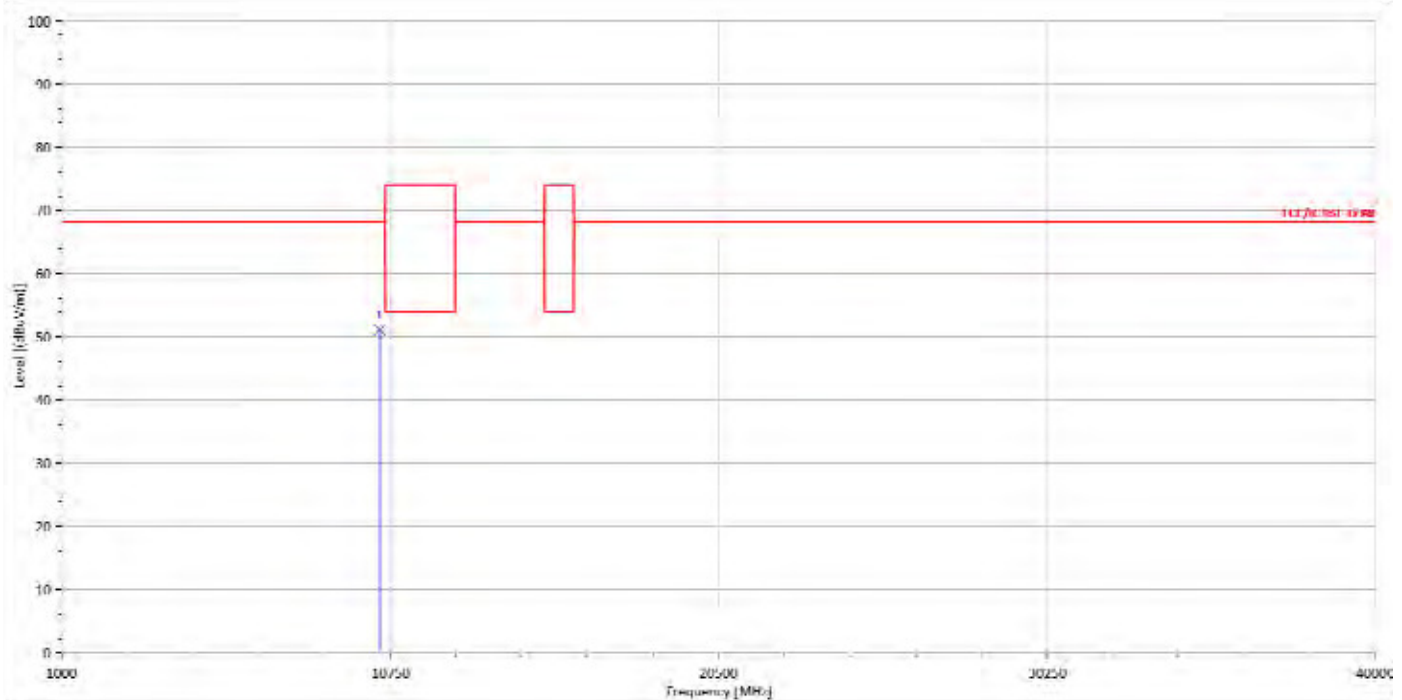
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5220 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
10440.00	H	Peak	30.82	20.29	51.11	68.3	-17.19

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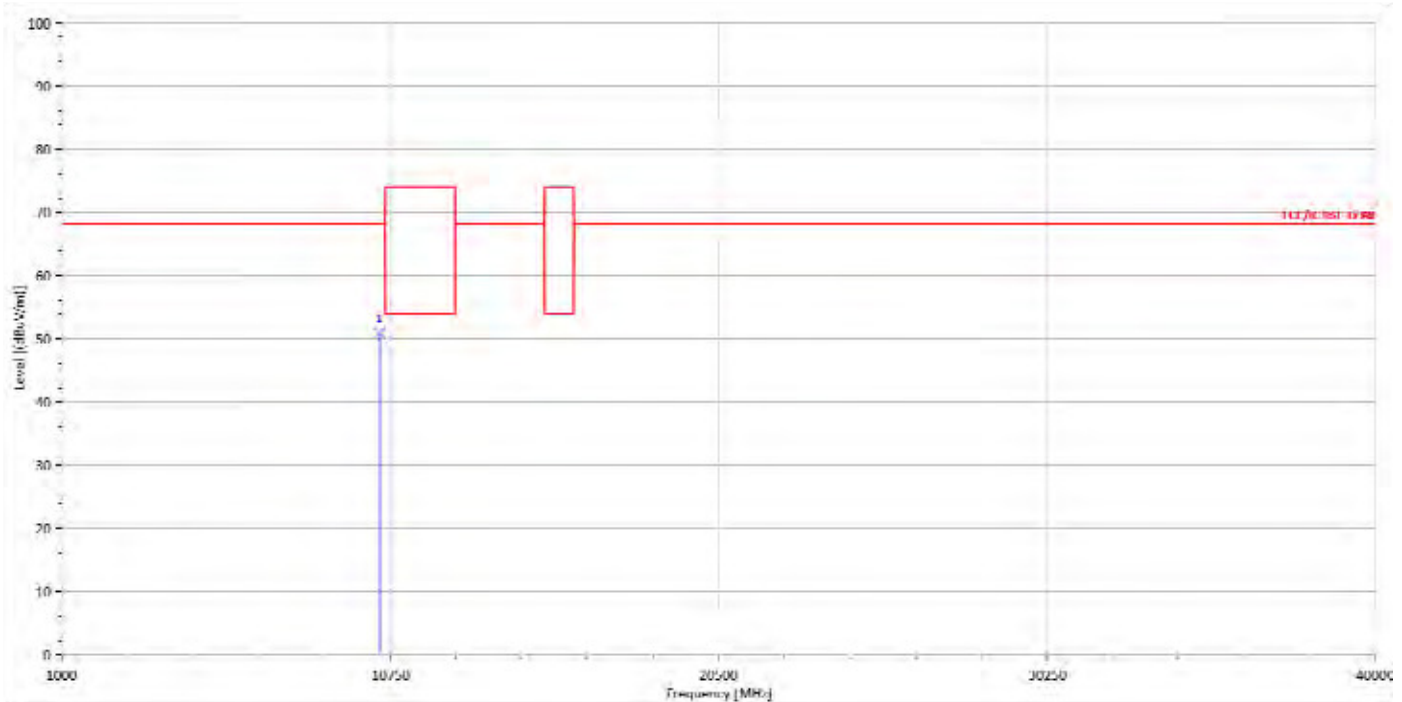
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5220 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
10440.00	H	Peak	30.64	20.29	50.93	68.3	-17.37

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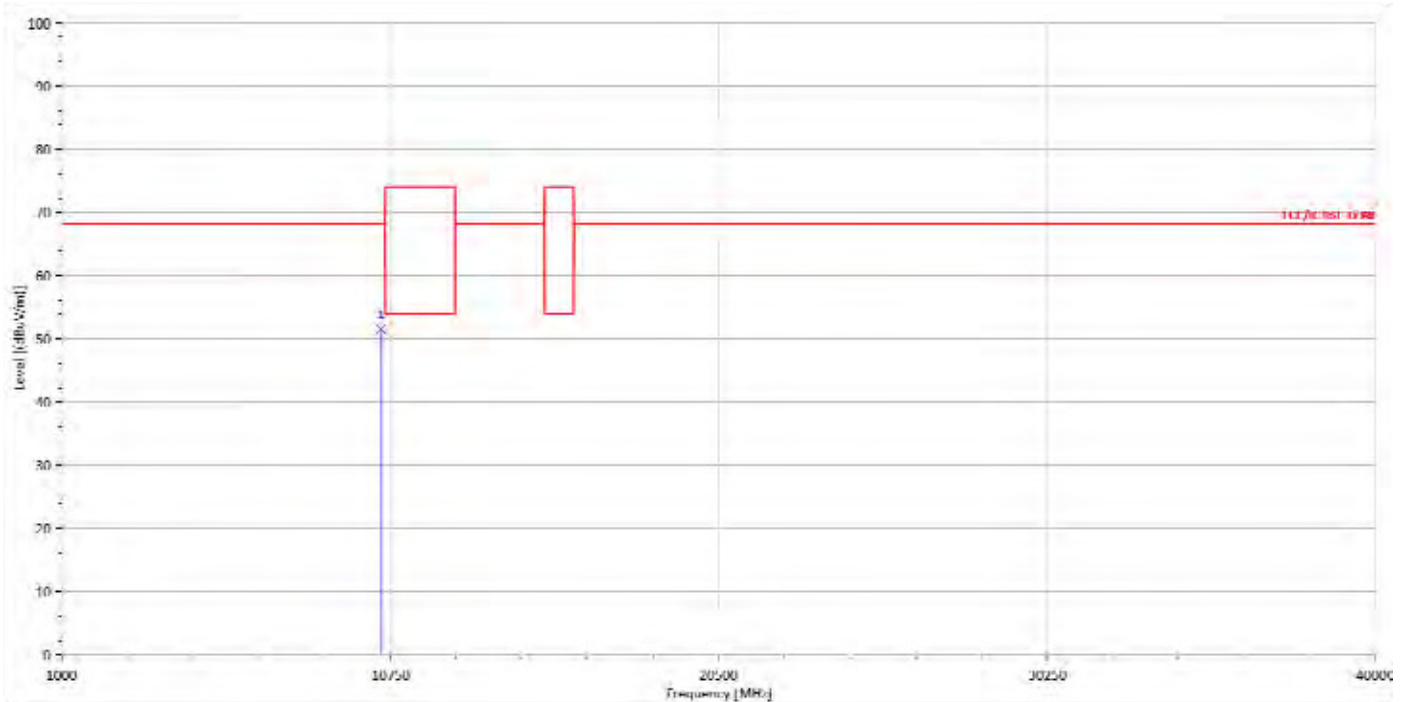
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5240 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
10480.00	H	Peak	30.86	20.68	51.54	68.3	-16.76

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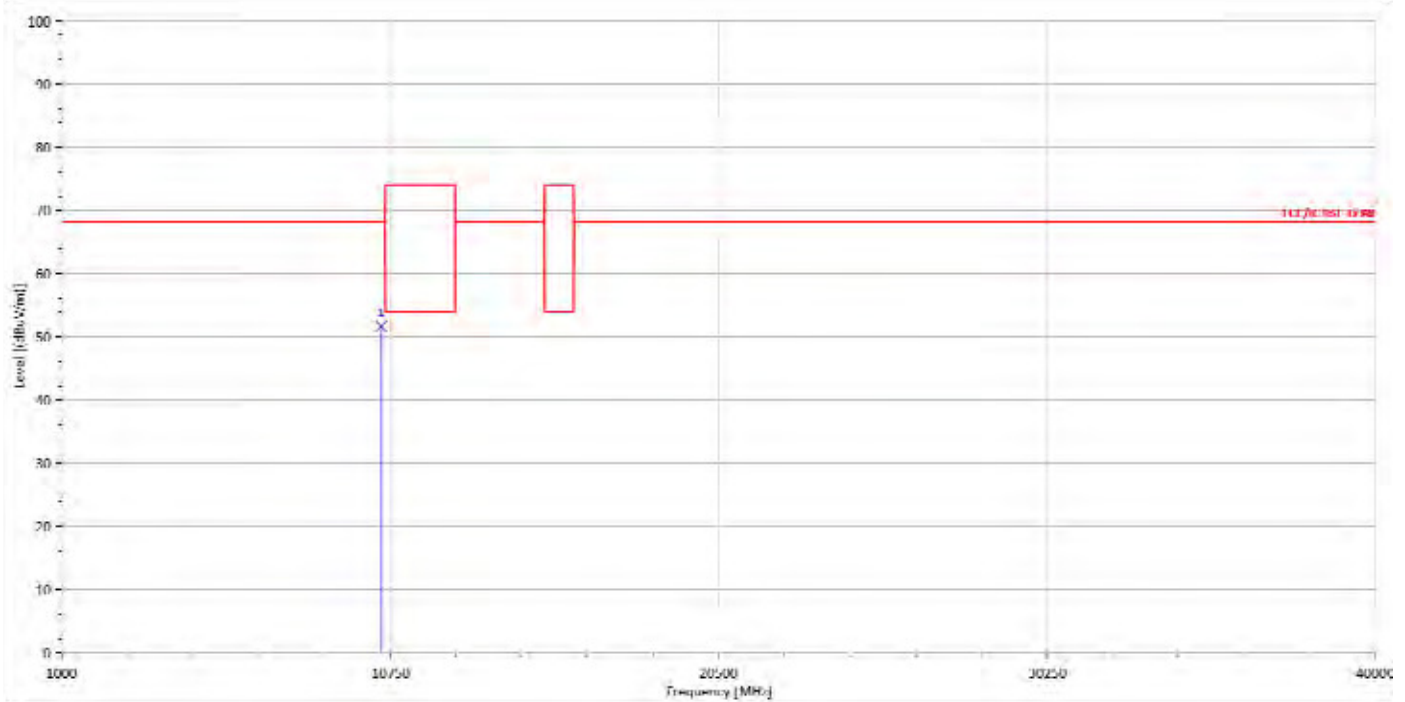
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5240 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
10480.00	H	Peak	31.00	20.68	51.68	68.3	-16.62

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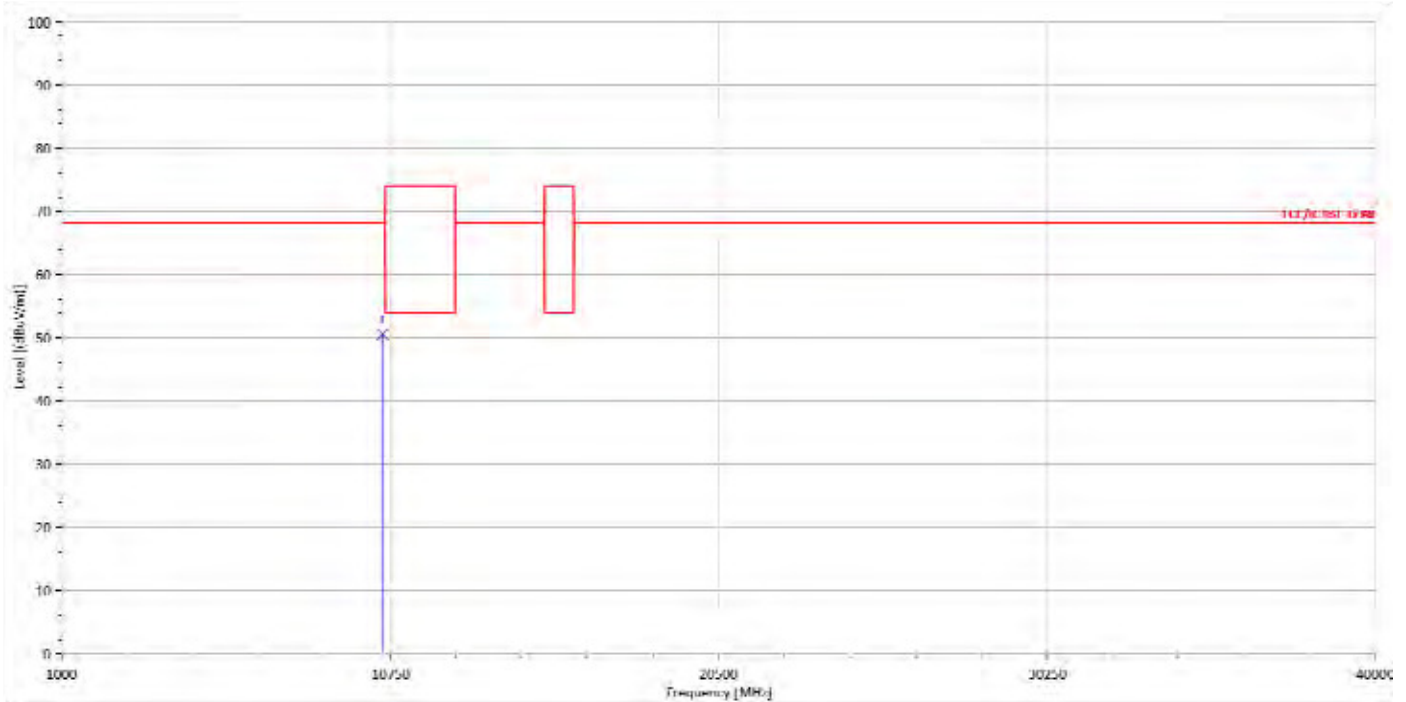
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20	Test Date :	2016/11/8
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
10520.00	H	Peak	30.47	20.10	50.57	68.3	-17.73

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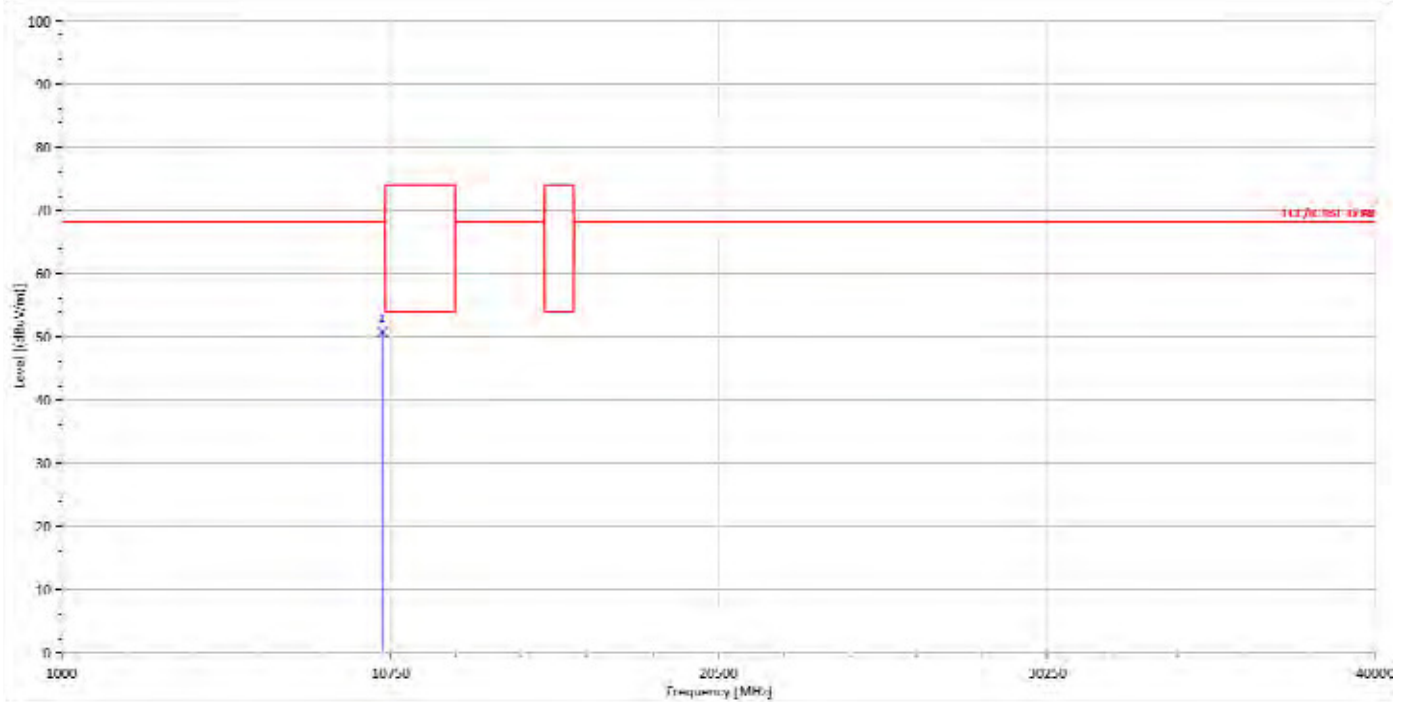
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5260 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
10520.00	H	Peak	30.66	20.10	50.76	68.3	-17.54

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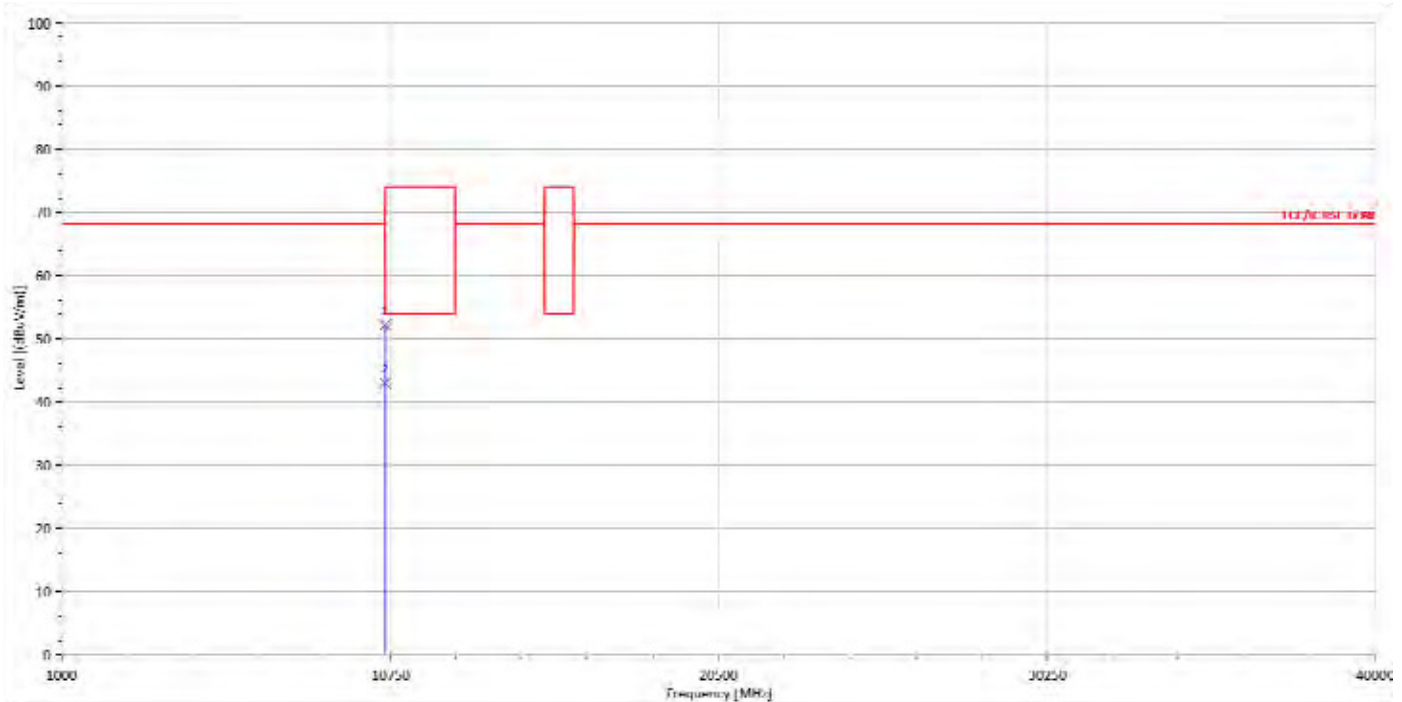
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
10600.00	H	Peak	32.05	20.17	52.22	74	-21.78
10600.00	H	Average	22.75	20.17	42.92	54	-11.08

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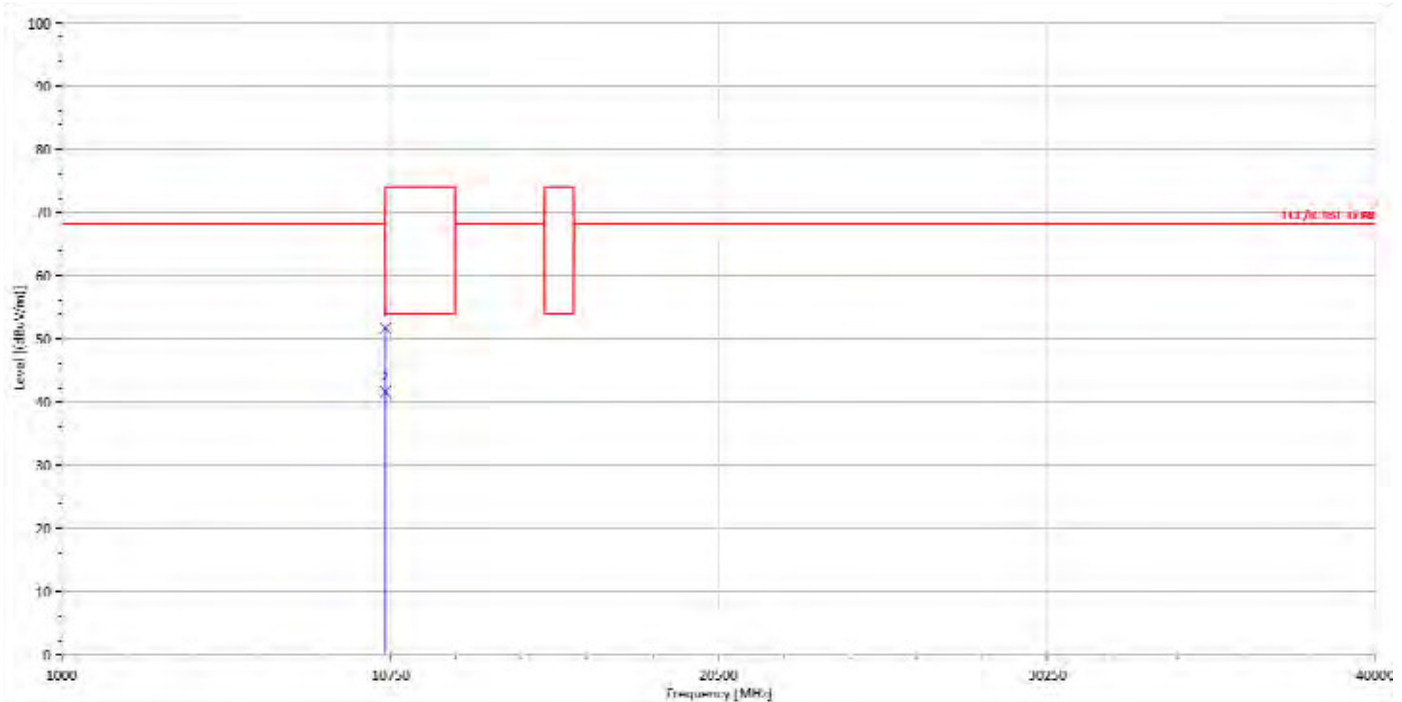
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
10600.00	H	Peak	31.54	20.17	51.71	74	-22.29
10600.00	H	Average	21.42	20.17	41.59	54	-12.41

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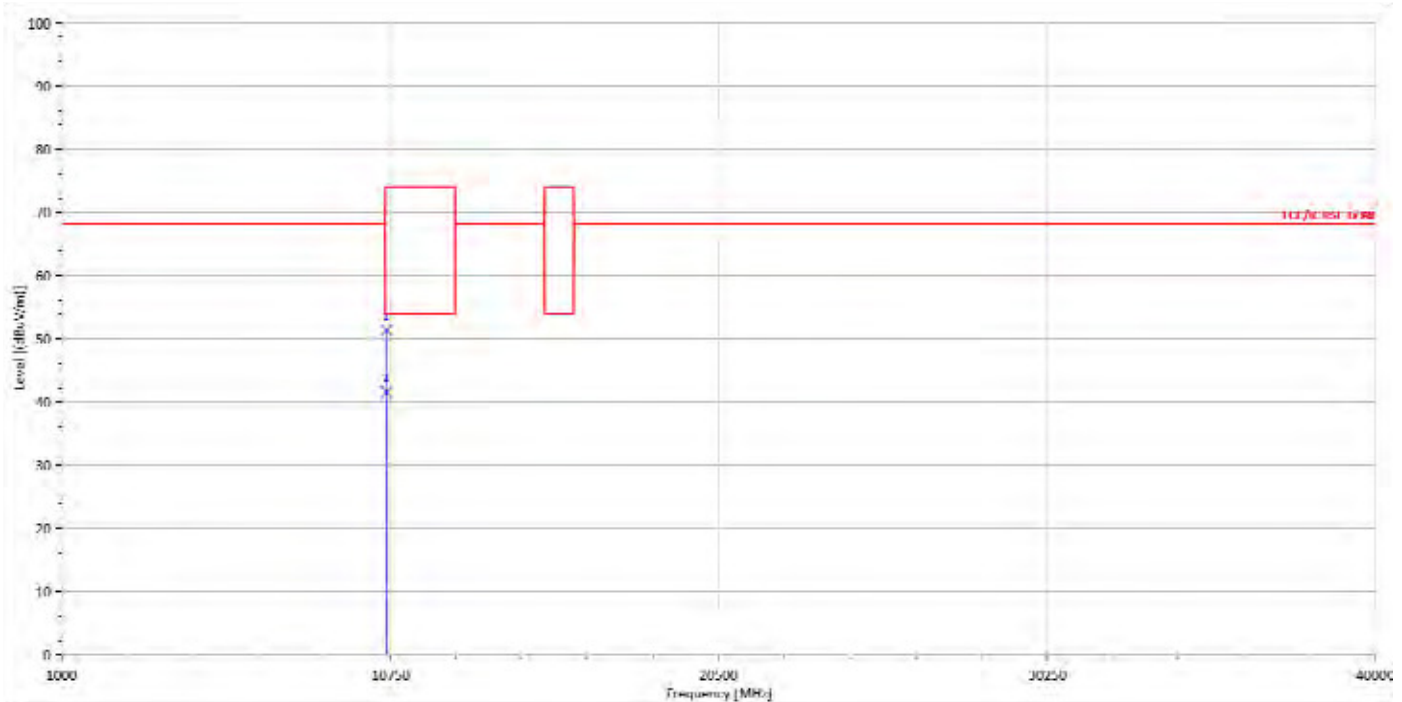
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5320 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
10640.00	H	Peak	31.01	20.34	51.36	74	-22.64
10640.00	H	Average	21.20	20.34	41.54	54	-12.46

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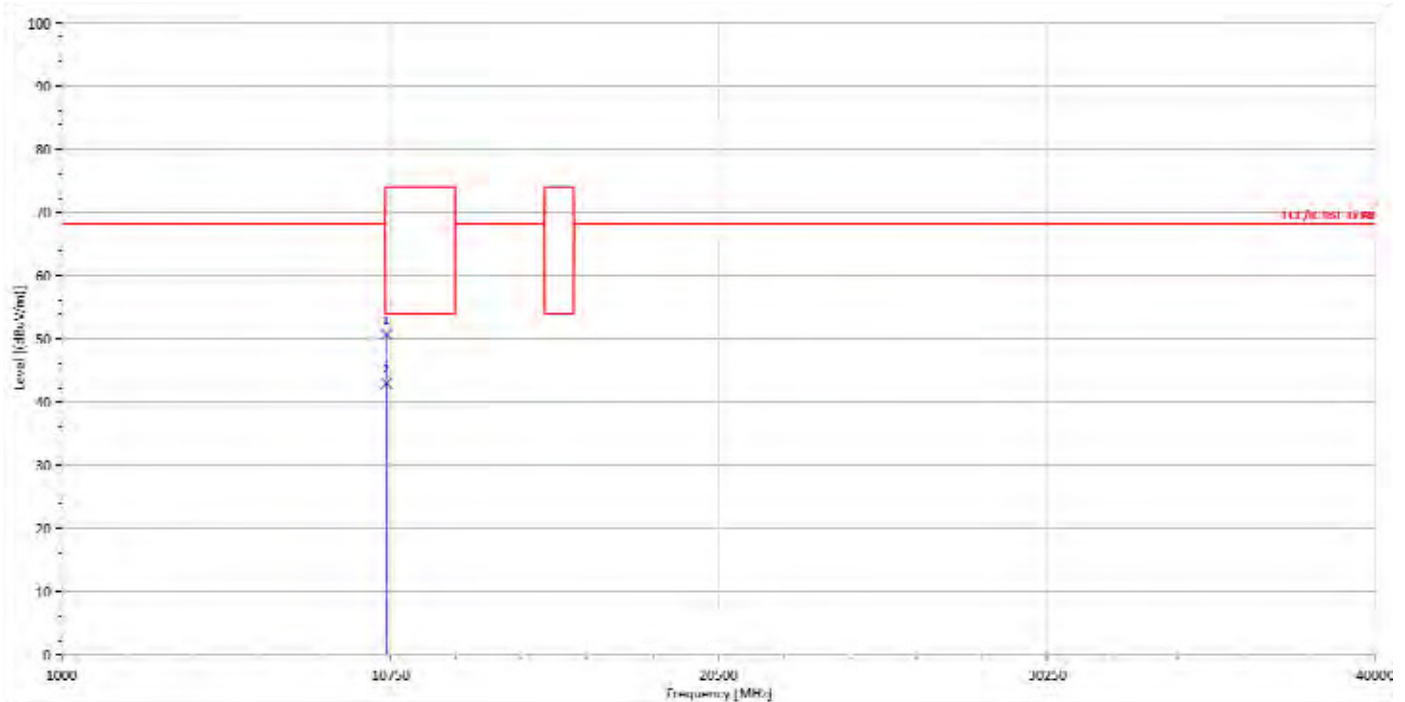
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5320 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
10640.00	H	Peak	30.37	20.34	50.71	74	-23.29
10640.00	H	Average	22.51	20.34	42.85	54	-11.15

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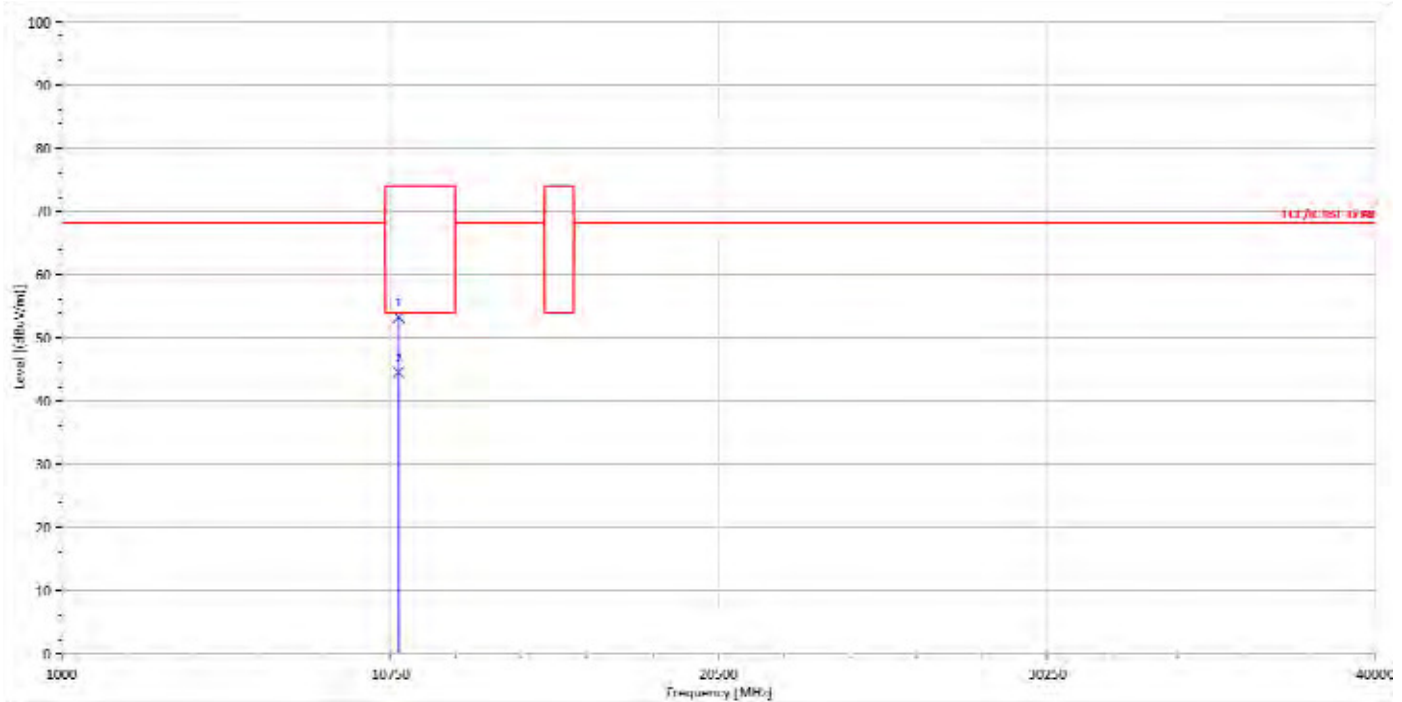
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20	Test Date :	2016/11/8
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
11000.00	H	Peak	31.19	22.11	53.29	74	-20.71
11000.00	H	Average	22.38	22.11	44.49	54	-9.51

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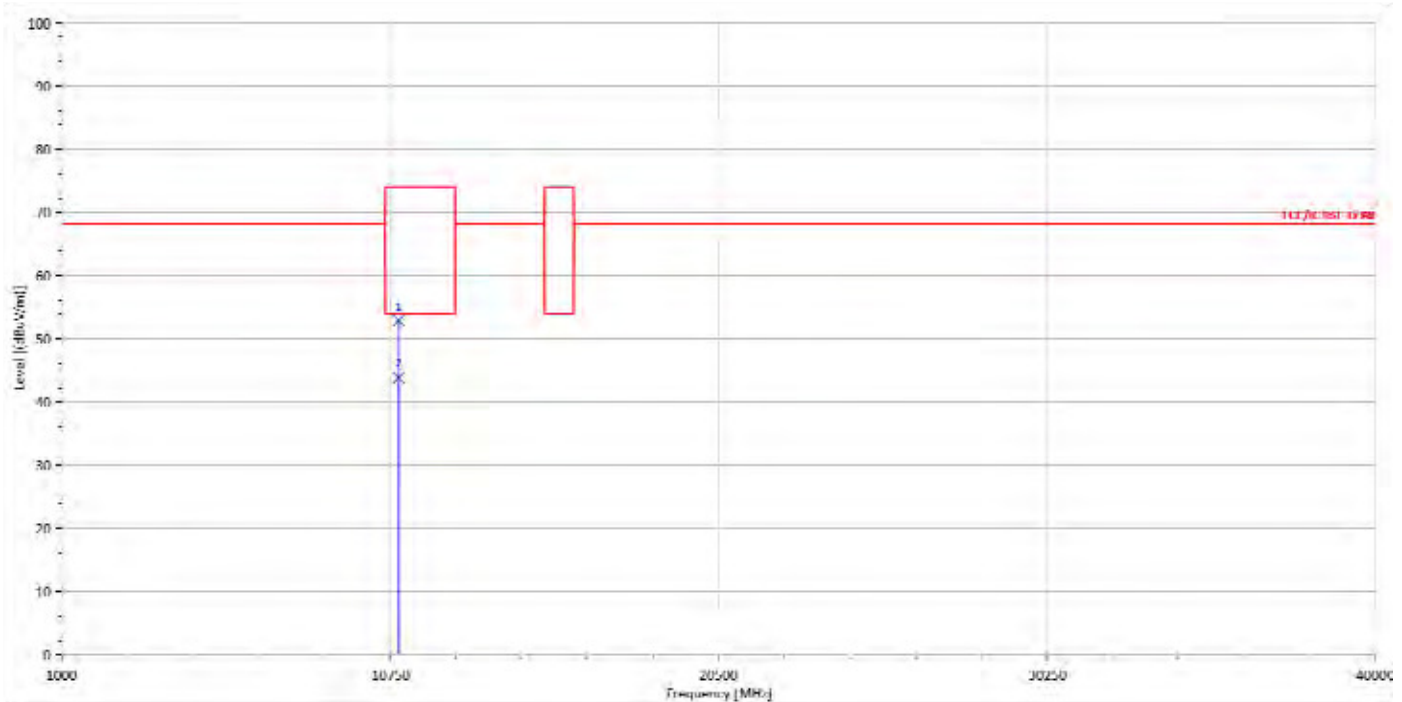
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5500 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11000.00	H	Peak	30.80	22.11	52.91	74	-21.09
11000.00	H	Average	21.62	22.11	43.73	54	-10.27

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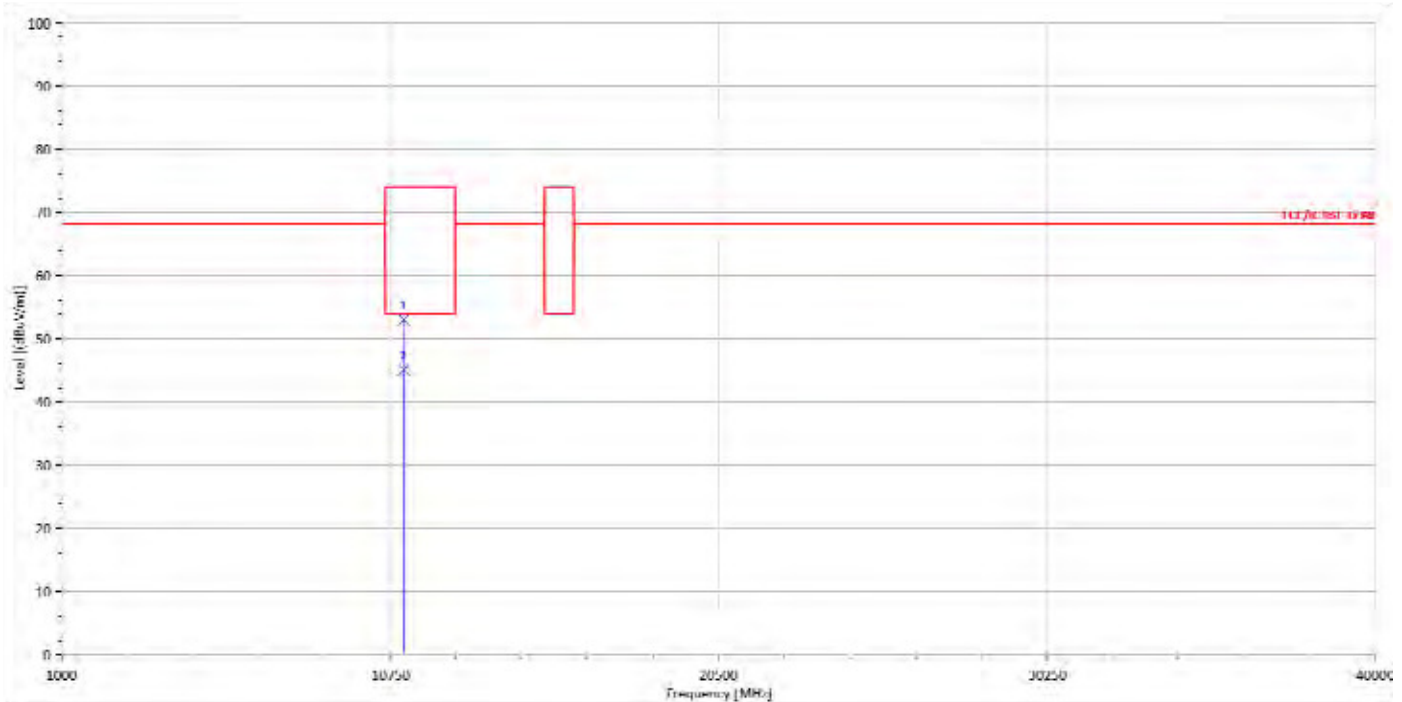
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5580 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
11160.00	H	Peak	31.00	22.04	53.03	74	-20.97
11160.00	H	Average	23.00	22.04	45.04	54	-8.96

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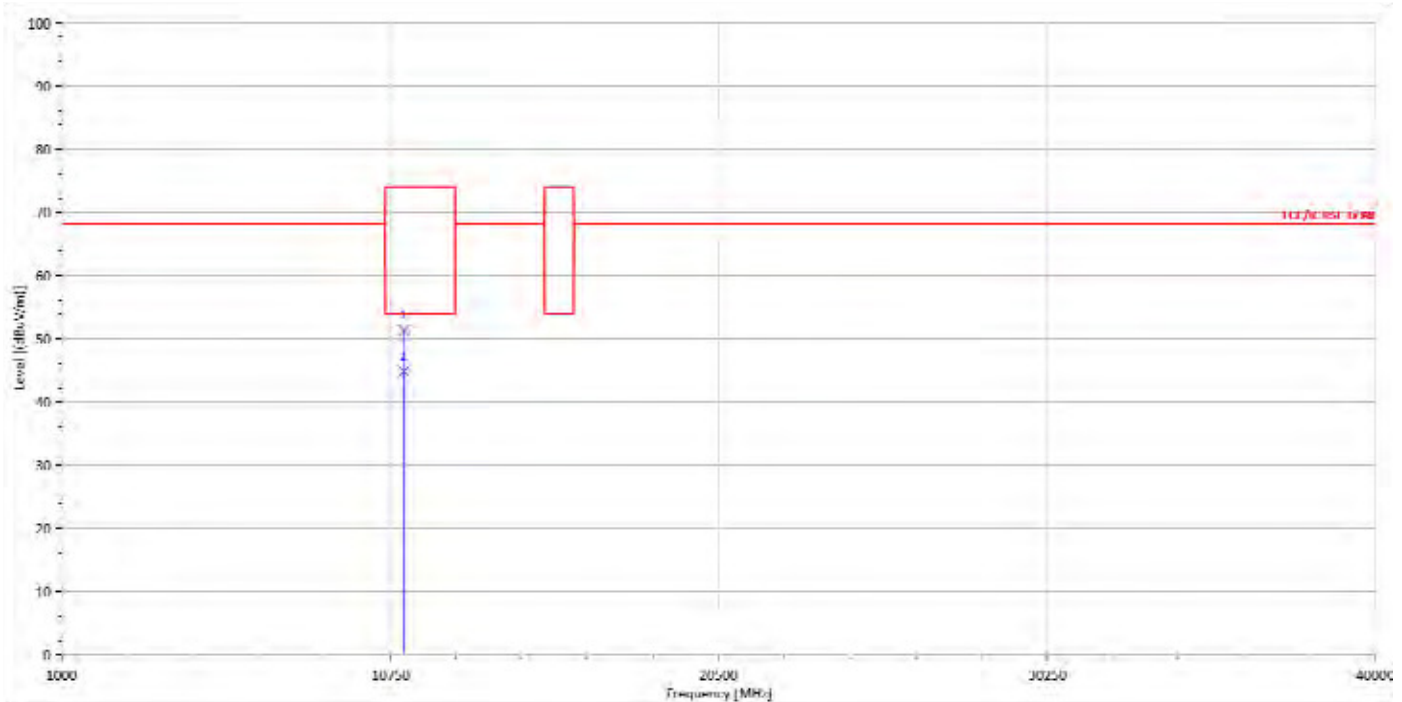
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 Fundamental Frequency : 5580 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11160.00	S	Peak	29.34	22.04	51.38	74	-22.62
11160.00	S	Average	22.76	22.04	44.80	54	-9.20

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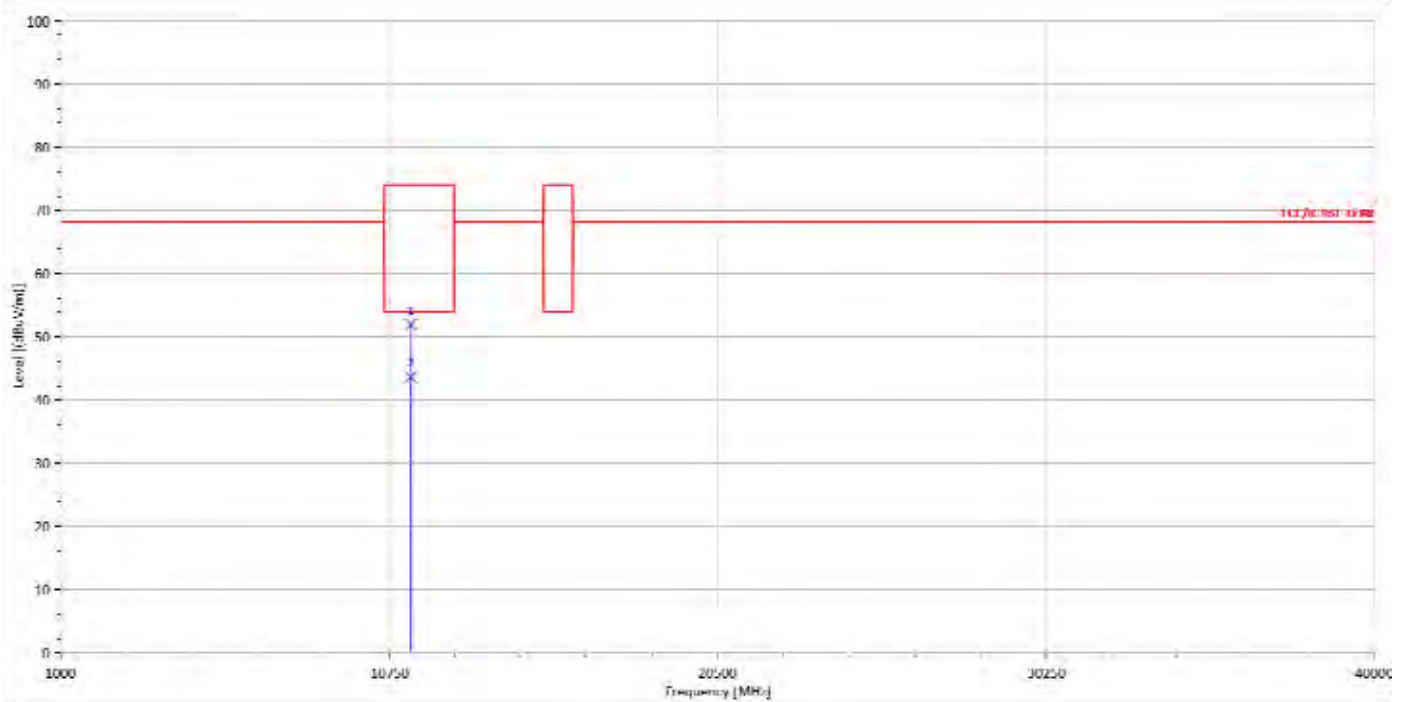
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5700 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
11400.00	H	Peak	30.76	21.22	51.97	74	-22.03
11400.00	H	Average	22.33	21.22	43.55	54	-10.45

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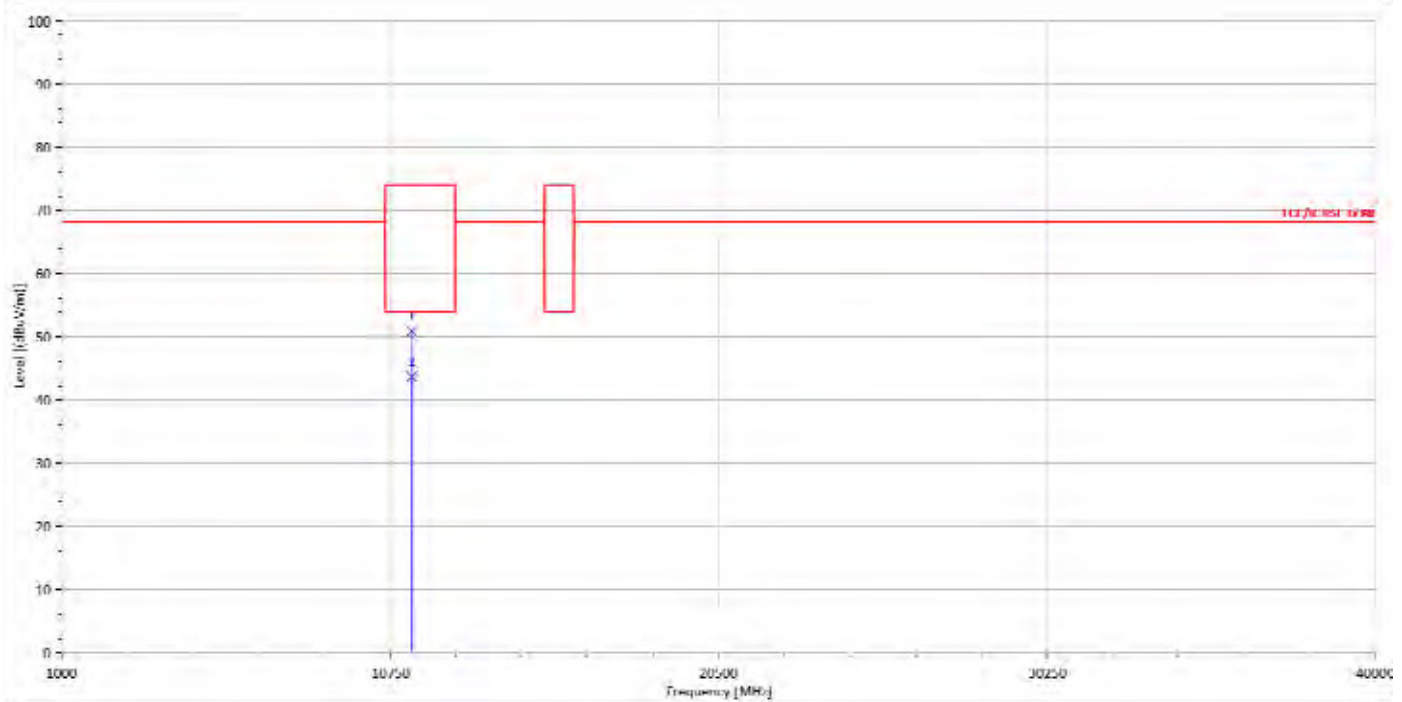
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5700 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11400.00	H	Peak	29.67	21.22	50.89	74	-23.11
11400.00	H	Average	22.42	21.22	43.64	54	-10.36

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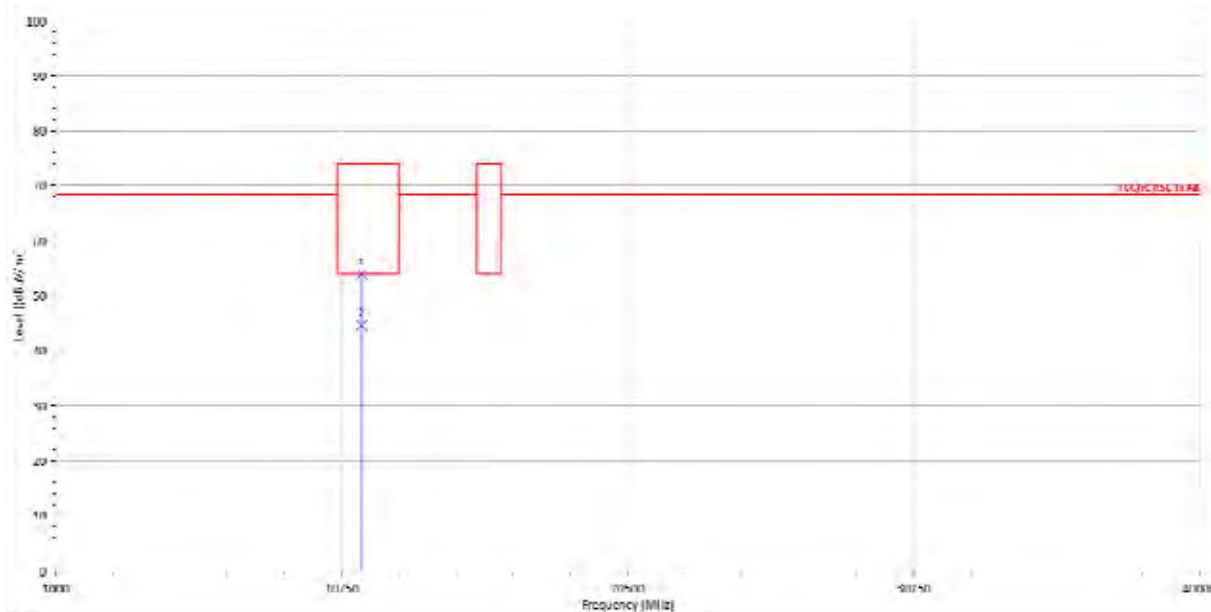
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20	Test Date :	2016/11/15
Fundamental Frequency :	5720 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	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
11440.00	H	Peak	32.56	21.39	53.95	74	-20.05
11440.00	H	Average	23.21	21.39	44.60	54	-9.40

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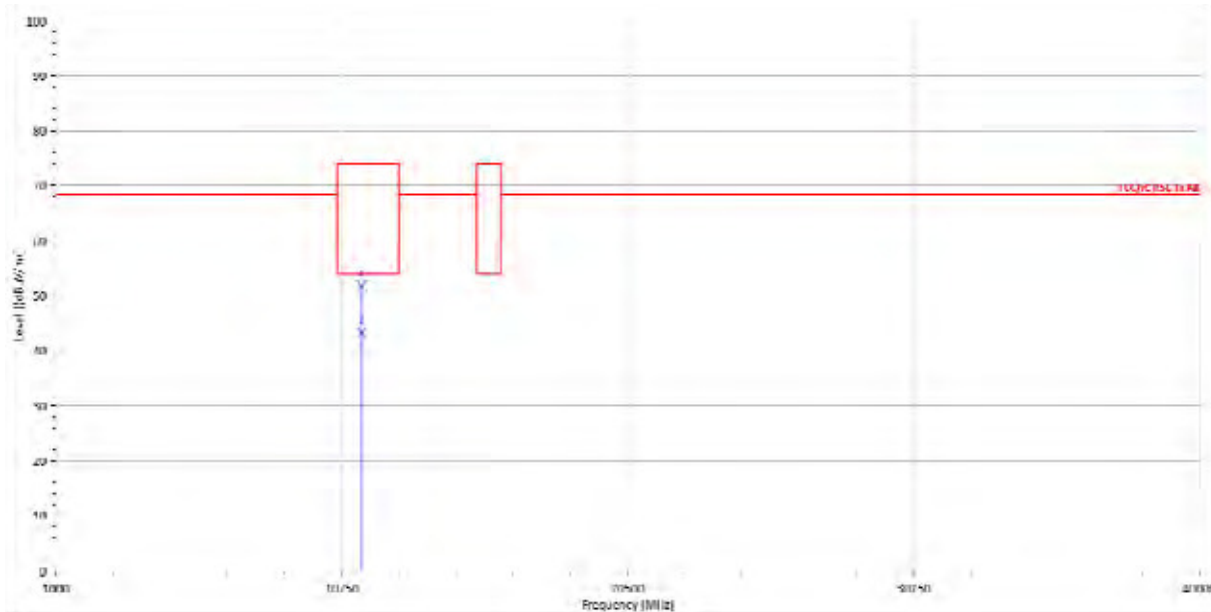
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Operation Mode :	802.11n20	Test Date :	2016/11/15
Fundamental Frequency :	5720 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11440.00	H	Peak	30.45	21.39	51.84	74	-22.16
11440.00	H	Average	21.83	21.39	43.22	54	-10.78

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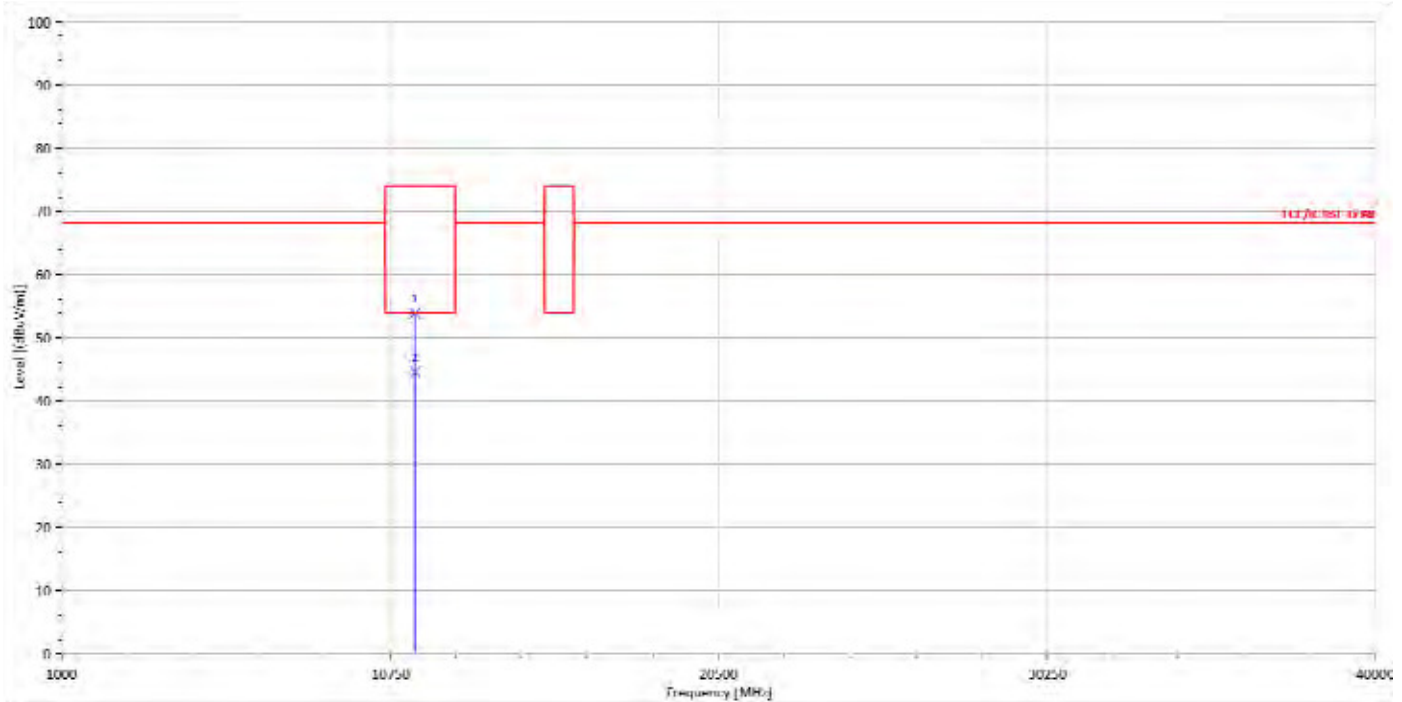
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20	Test Date :	2016/11/8
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
11490.00	H	Peak	33.26	20.70	53.96	74	-20.04
11490.00	H	Average	23.84	20.70	44.54	54	-9.46

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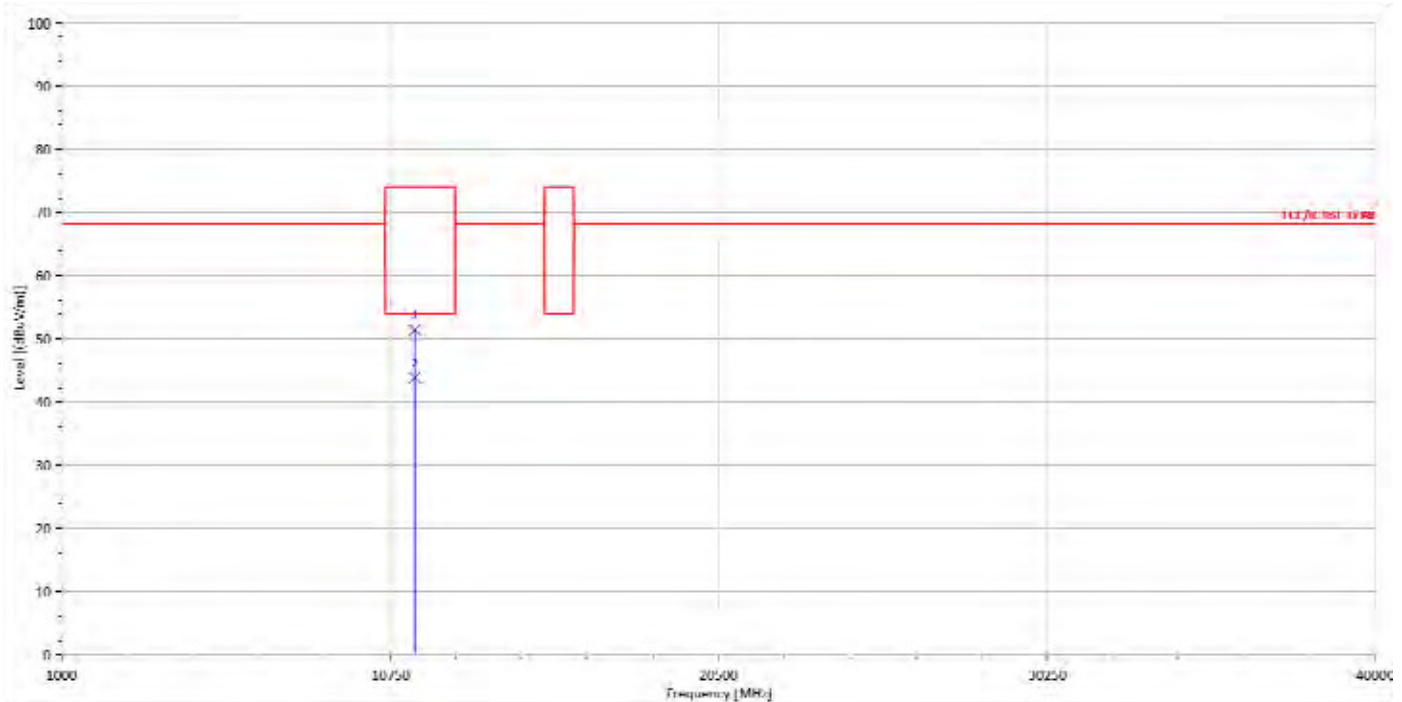
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5745 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11490.00	H	Peak	30.74	20.70	51.44	74	-22.56
11490.00	H	Average	23.09	20.70	43.79	54	-10.21

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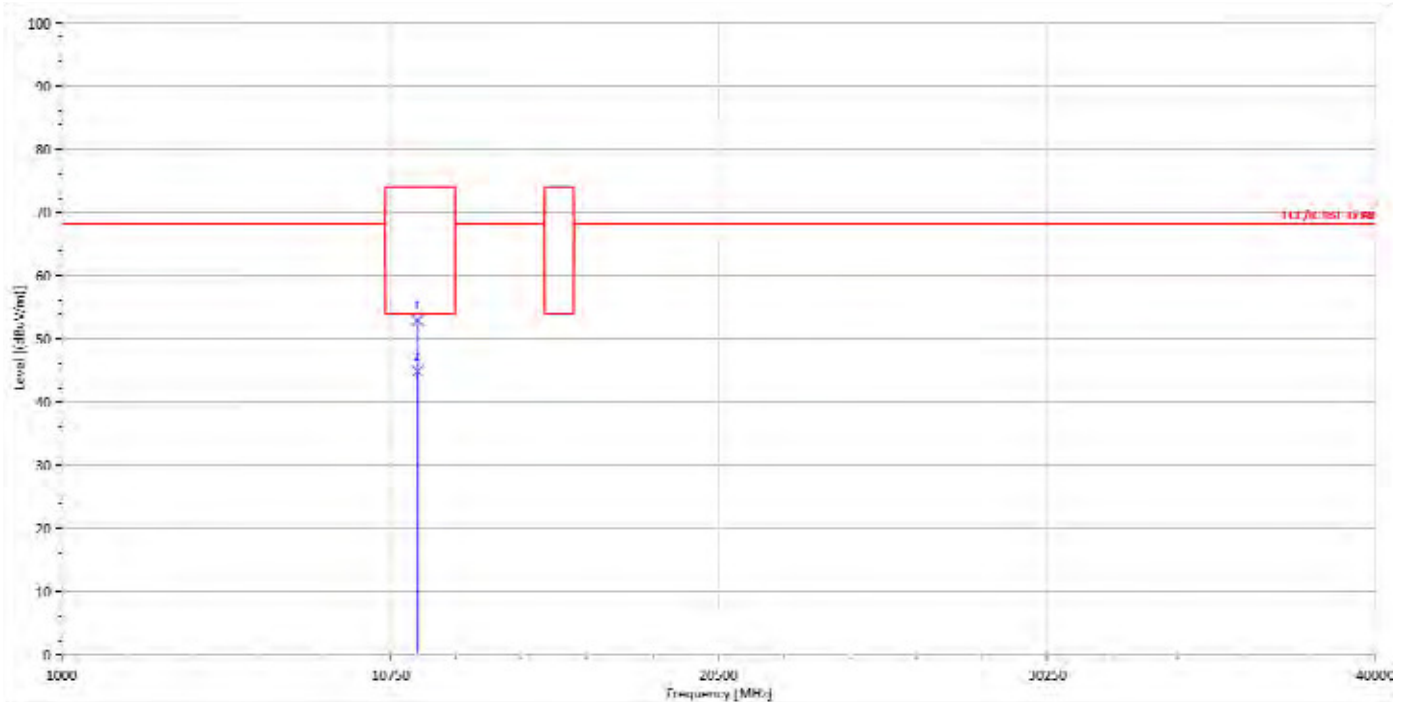
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5785 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
11570.00	H	Peak	31.48	21.44	52.92	74	-21.08
11570.00	H	Average	23.39	21.44	44.83	54	-9.17

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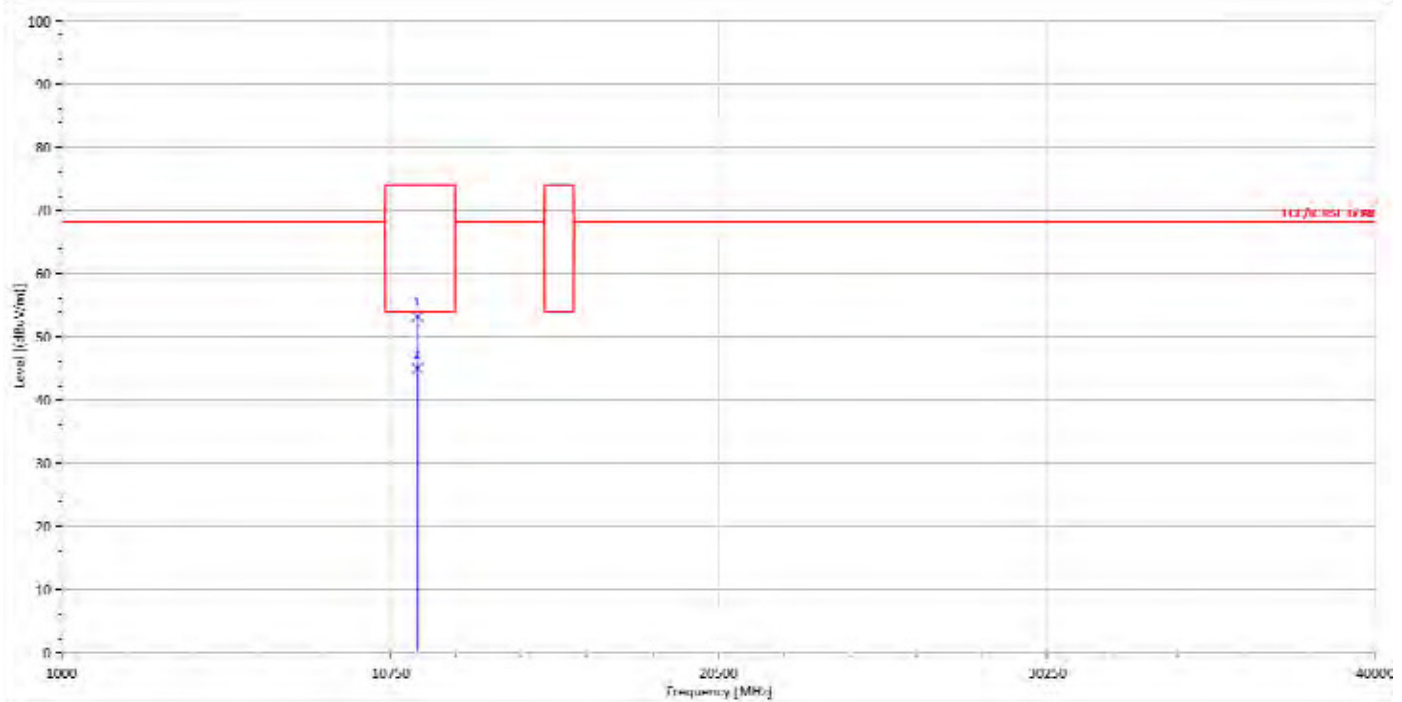
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5785 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11570.00	H	Peak	31.78	21.44	53.23	74	-20.77
11570.00	H	Average	23.49	21.44	44.93	54	-9.07

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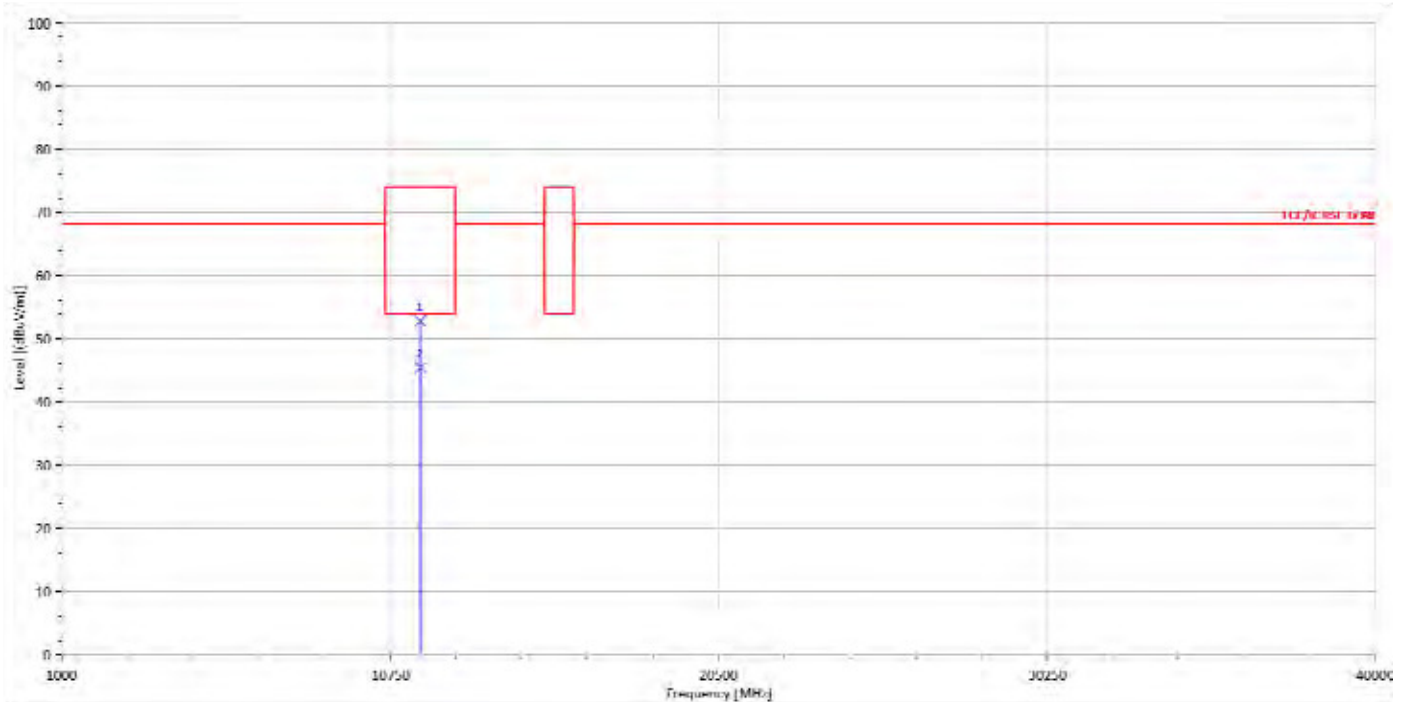
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5825 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
11650.00	H	Peak	30.80	22.02	52.82	74	-21.18
11650.00	H	Average	23.36	22.02	45.38	54	-8.62

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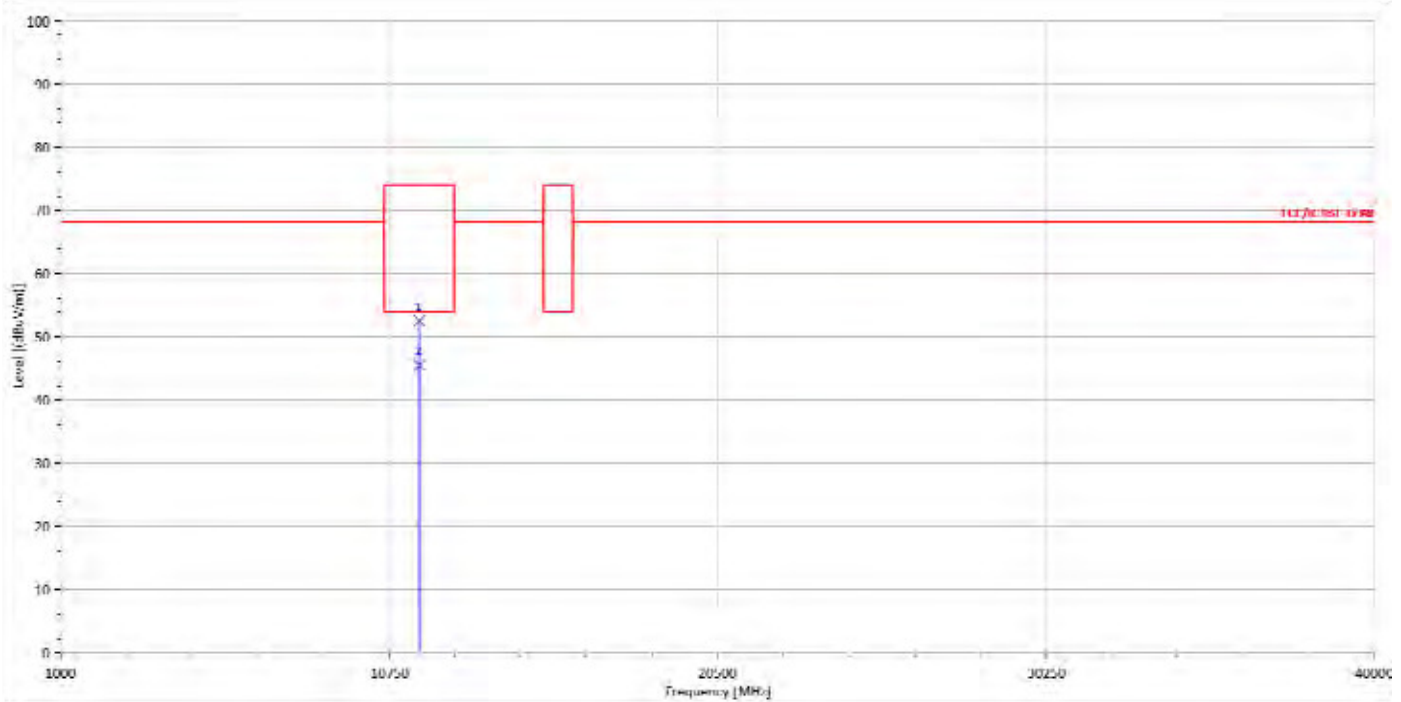
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Operation Mode : 802.11n20      Test Date : 2016/11/8  
 Fundamental Frequency : 5825 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11650.00	H	Peak	30.50	22.02	52.53	74	-21.47
11650.00	H	Average	23.43	22.02	45.45	54	-8.55

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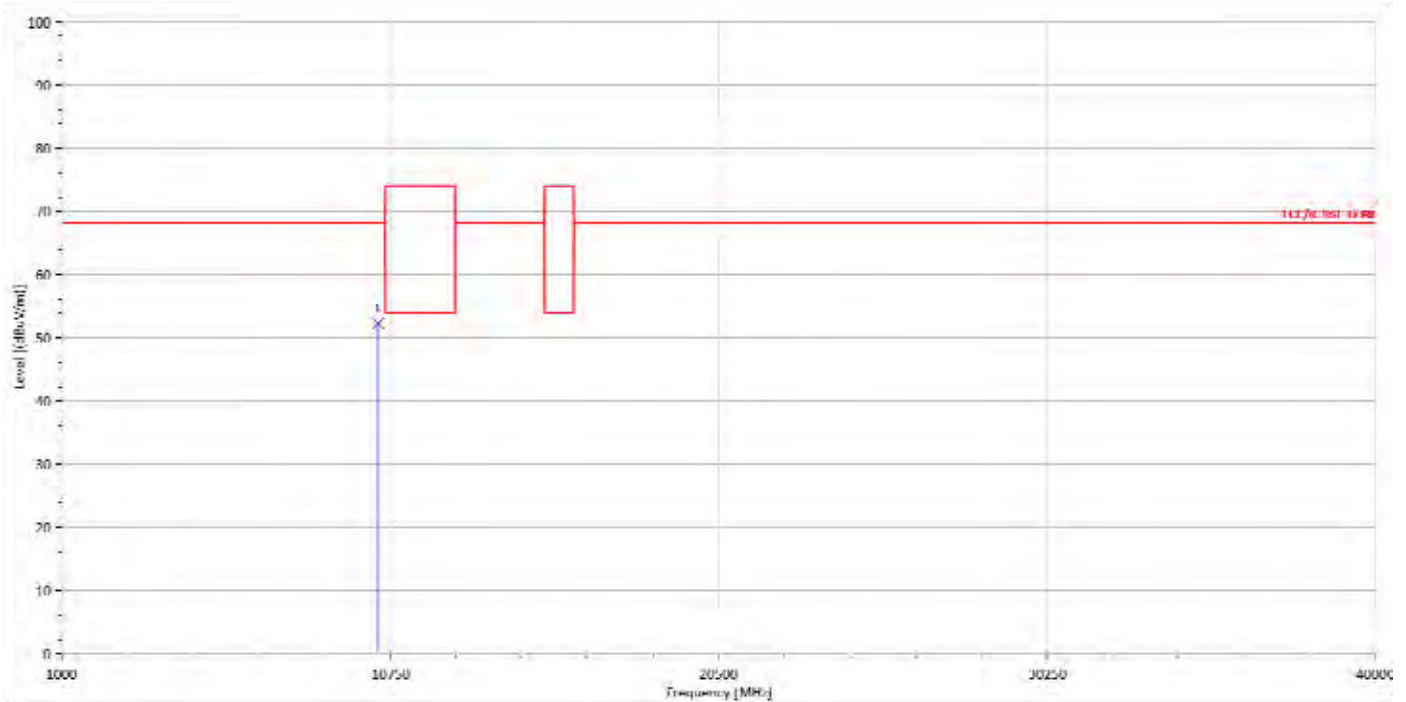
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40	Test Date :	2016/11/8
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
10380.00	H	Peak	31.35	20.95	52.30	68.3	-16.00

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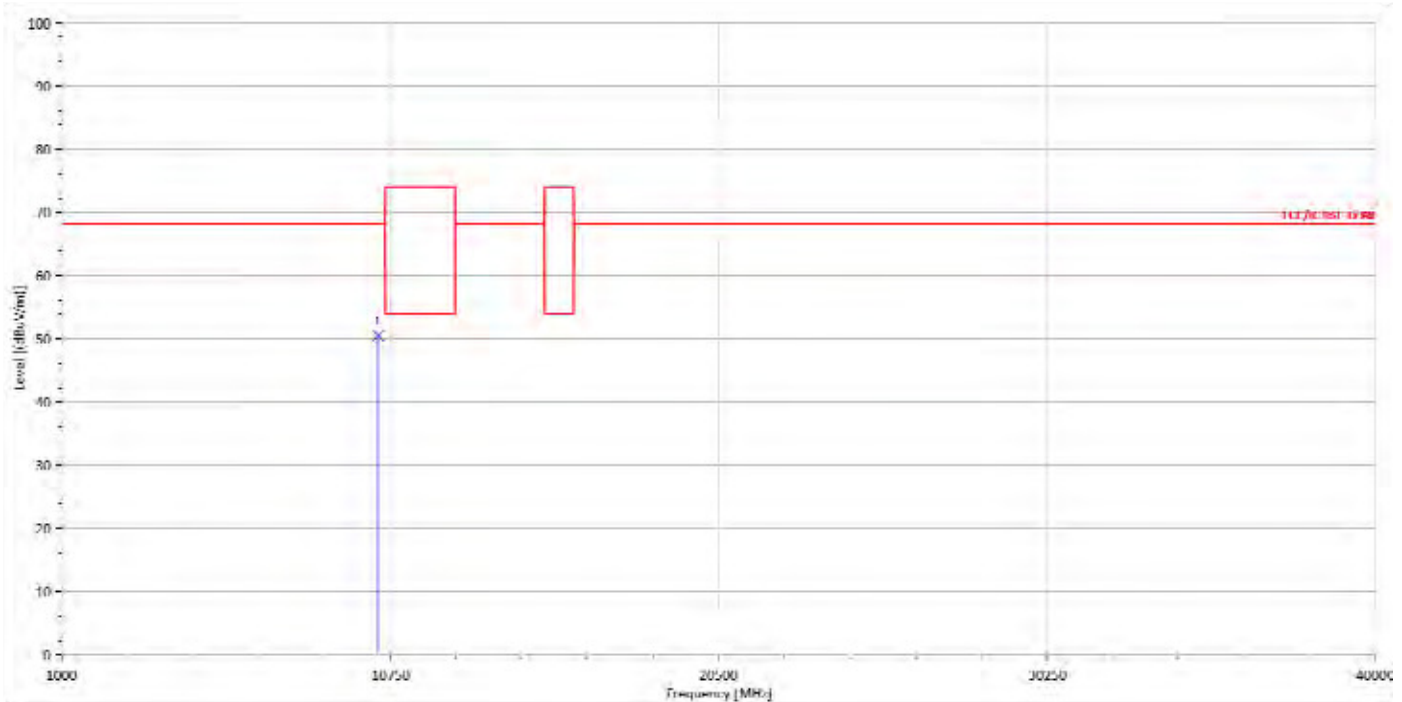
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Operation Mode : 802.11n40      Test Date : 2016/11/8  
 Fundamental Frequency : 5190 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
10380.00	H	Peak	29.56	20.95	50.51	68.3	-17.79

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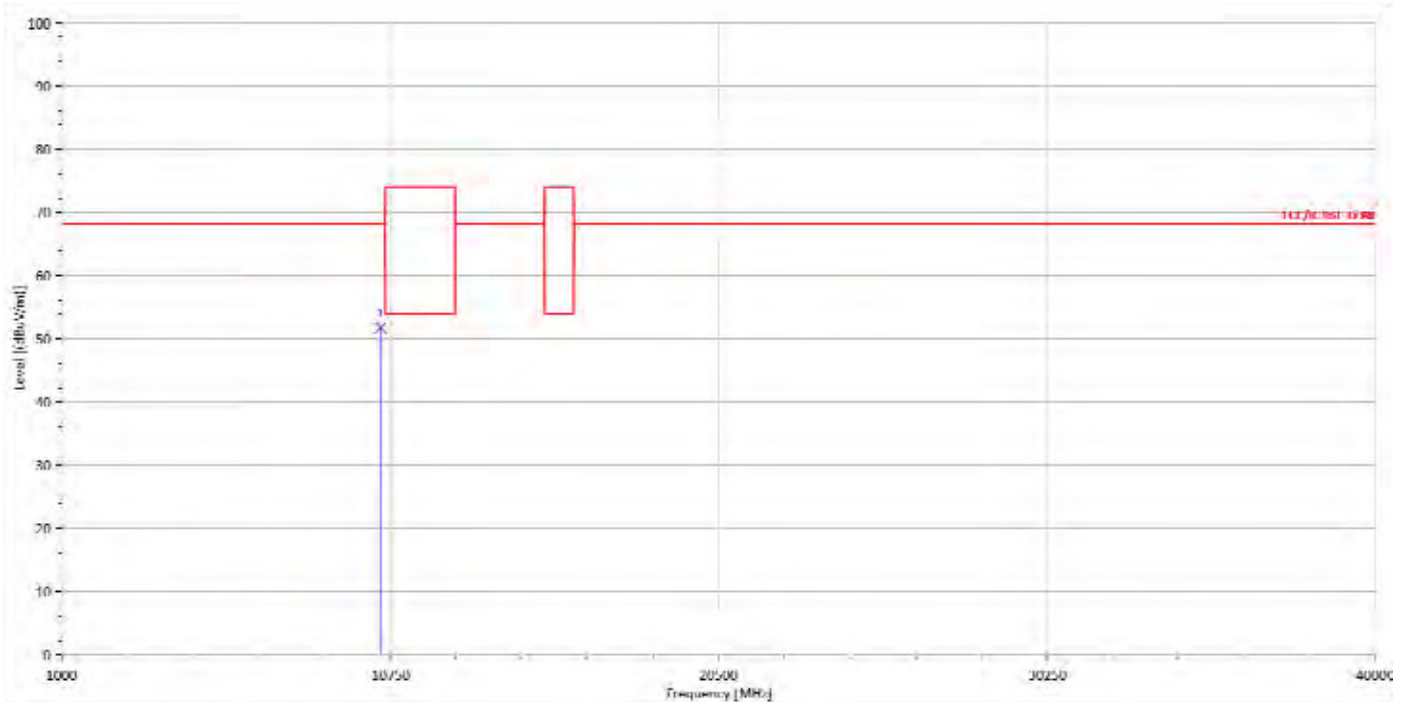
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Operation Mode : 802.11n40      Test Date : 2016/11/8  
 Fundamental Frequency : 5230 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
10460.00	H	Peak	30.79	20.95	51.74	68.3	-16.56

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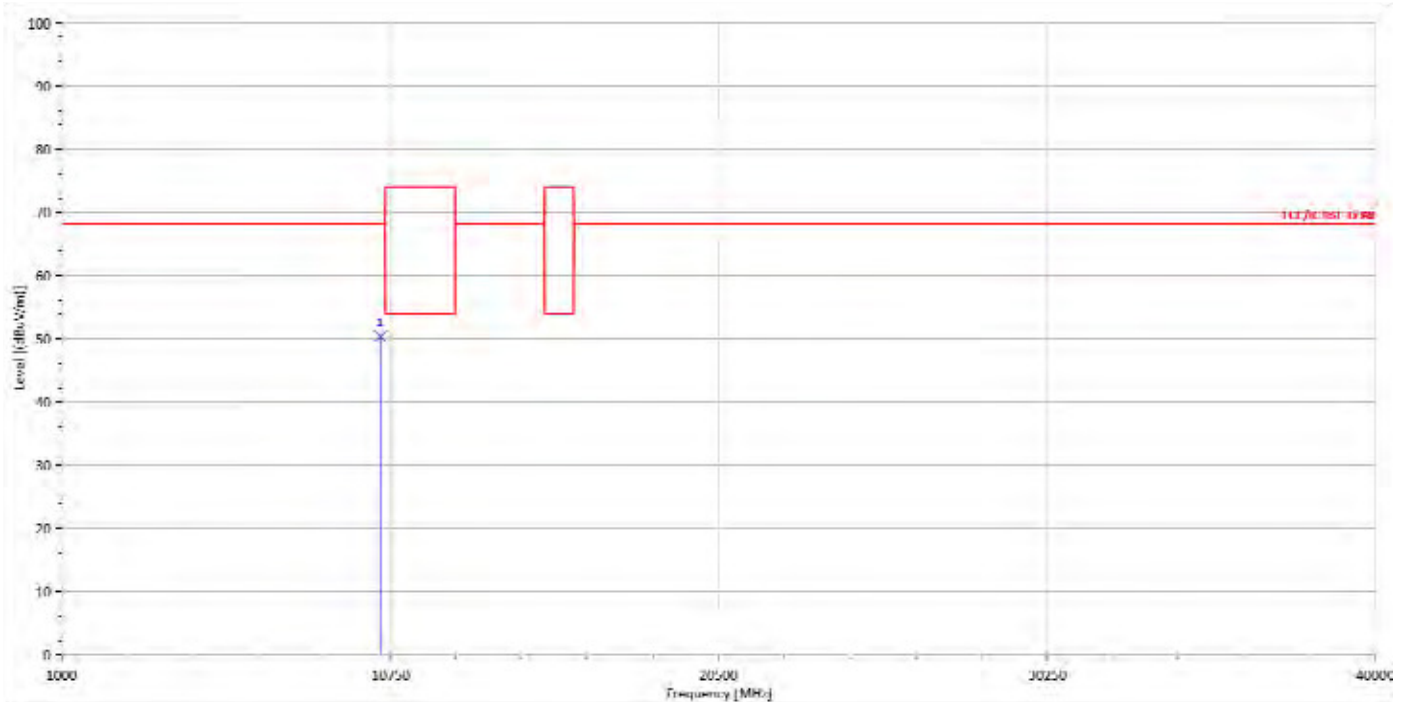
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 Fundamental Frequency : 5230 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
10460.00	H	Peak	29.43	20.95	50.38	68.3	-17.92

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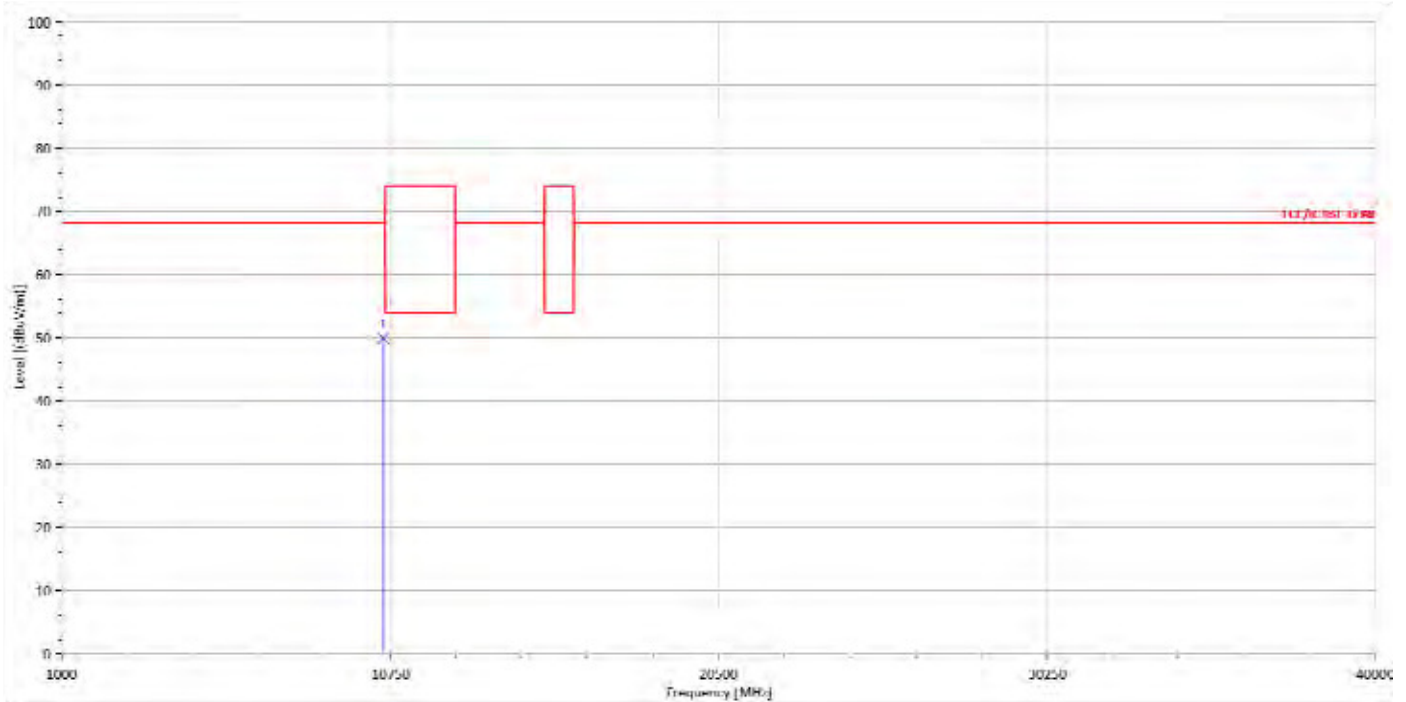
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40	Test Date :	2016/11/8
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
10540.00	H	Peak	29.86	20.06	49.93	68.3	-18.37

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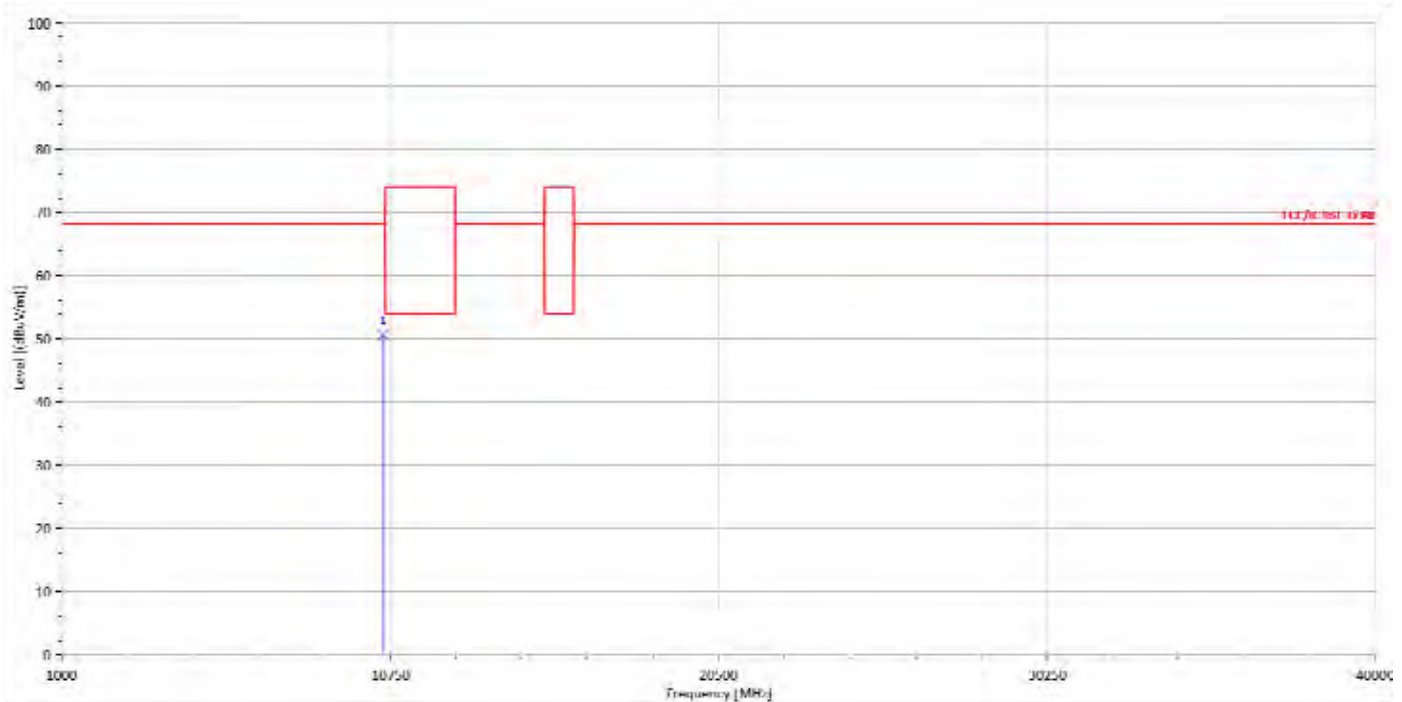
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Operation Mode : 802.11n40      Test Date : 2016/11/8  
 Fundamental Frequency : 5270 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
10540.00	H	Peak	30.56	20.06	50.62	68.3	-17.68

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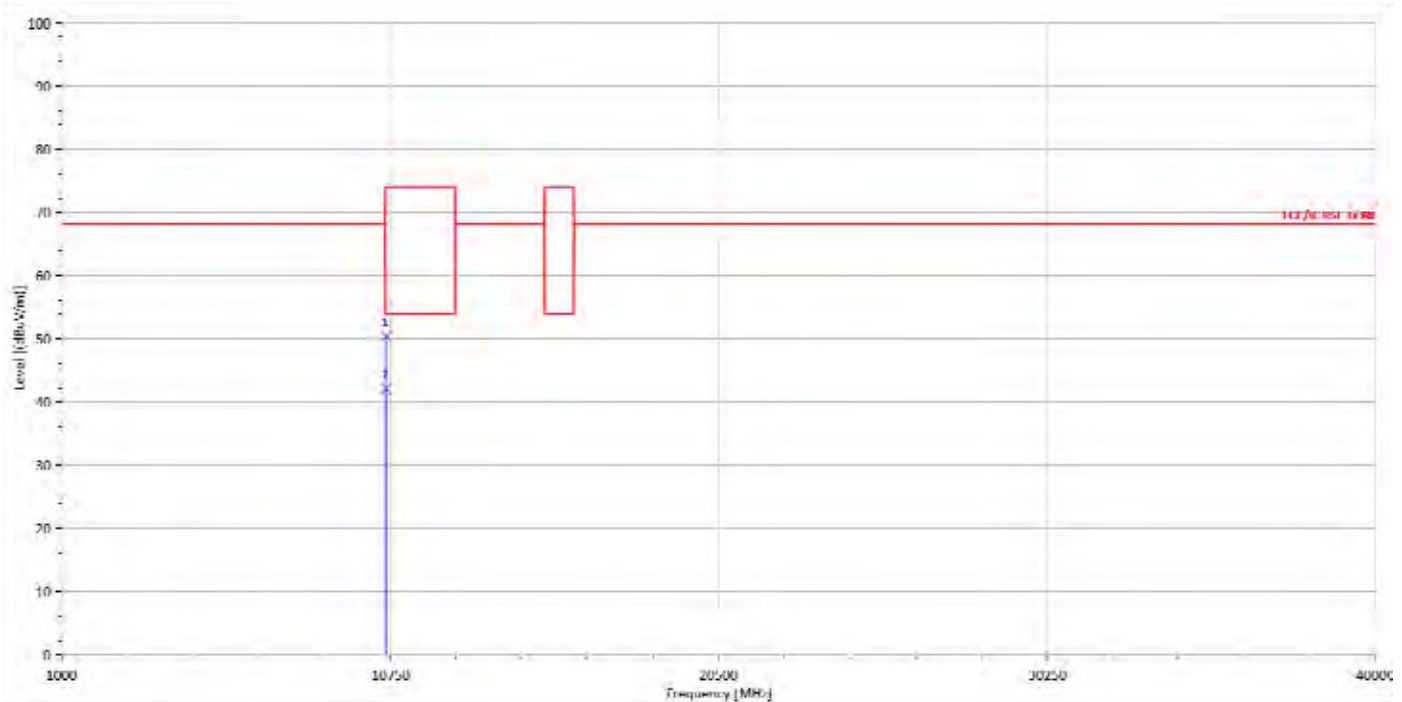
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Operation Mode : 802.11n40      Test Date : 2016/11/8  
 Fundamental Frequency : 5310 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
10620.00	S	Peak	30.08	20.29	50.37	74	-23.63
10620.00	S	Average	21.72	20.29	42.01	54	-11.99

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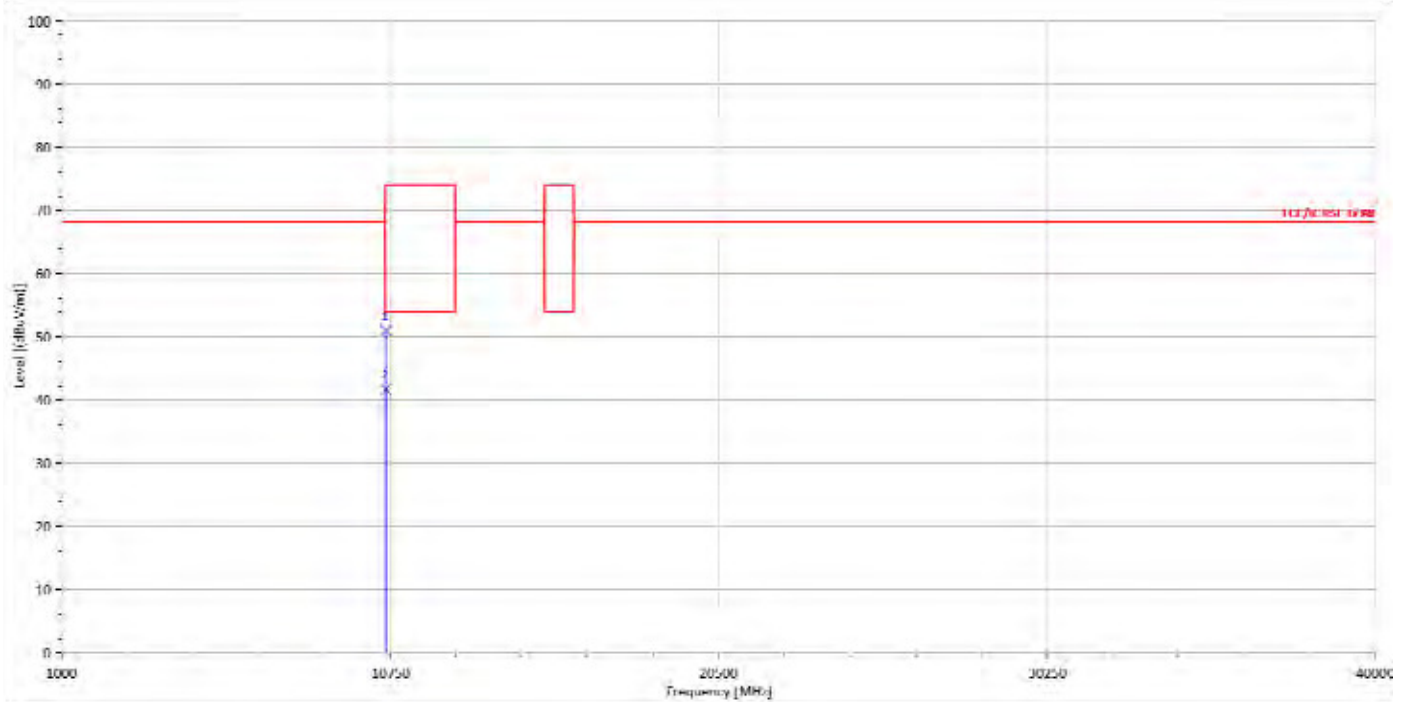
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Operation Mode : 802.11n40      Test Date : 2016/11/8  
 Fundamental Frequency : 5310 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
10620.00	H	Peak	30.69	20.29	50.98	74	-23.02
10620.00	H	Average	21.38	20.29	41.67	54	-12.33

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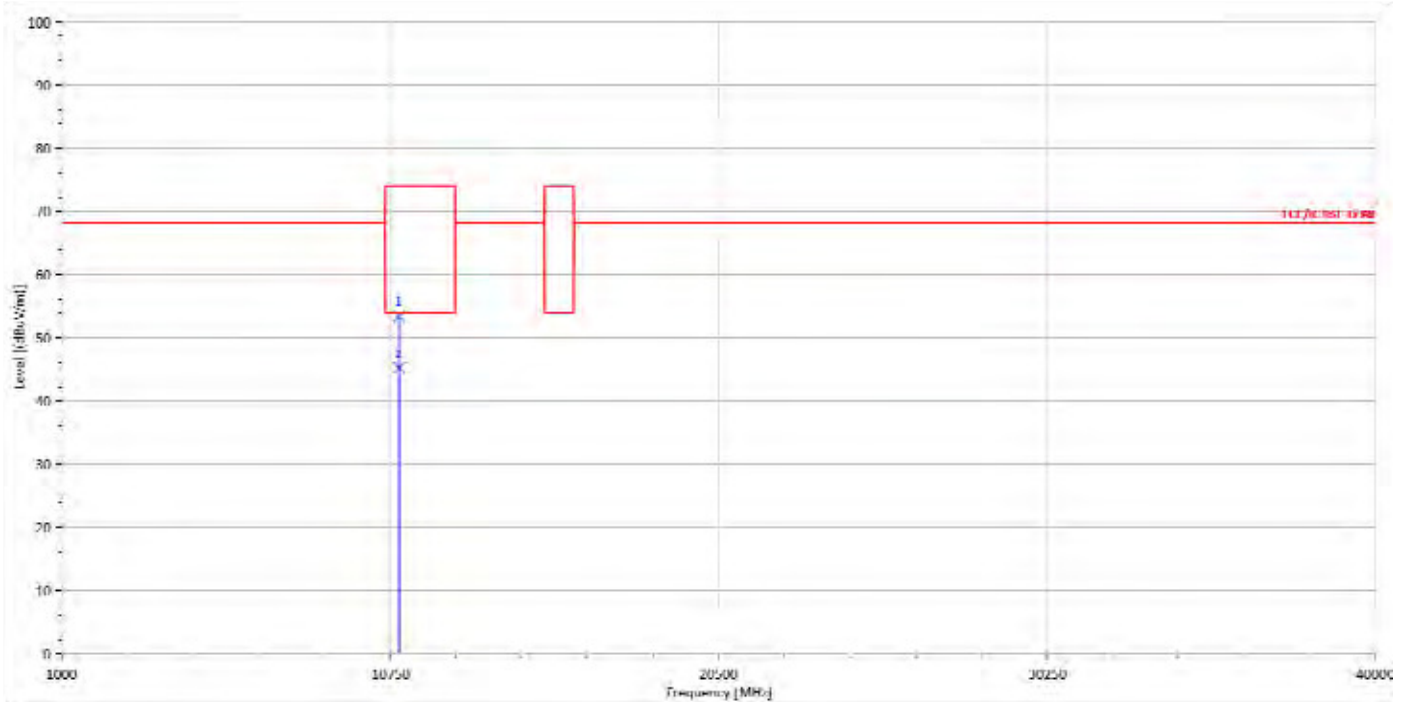
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40	Test Date :	2016/11/8
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
11020.00	H	Peak	30.50	22.90	53.40	74	-20.60
11020.00	H	Average	22.31	22.90	45.21	54	-8.79

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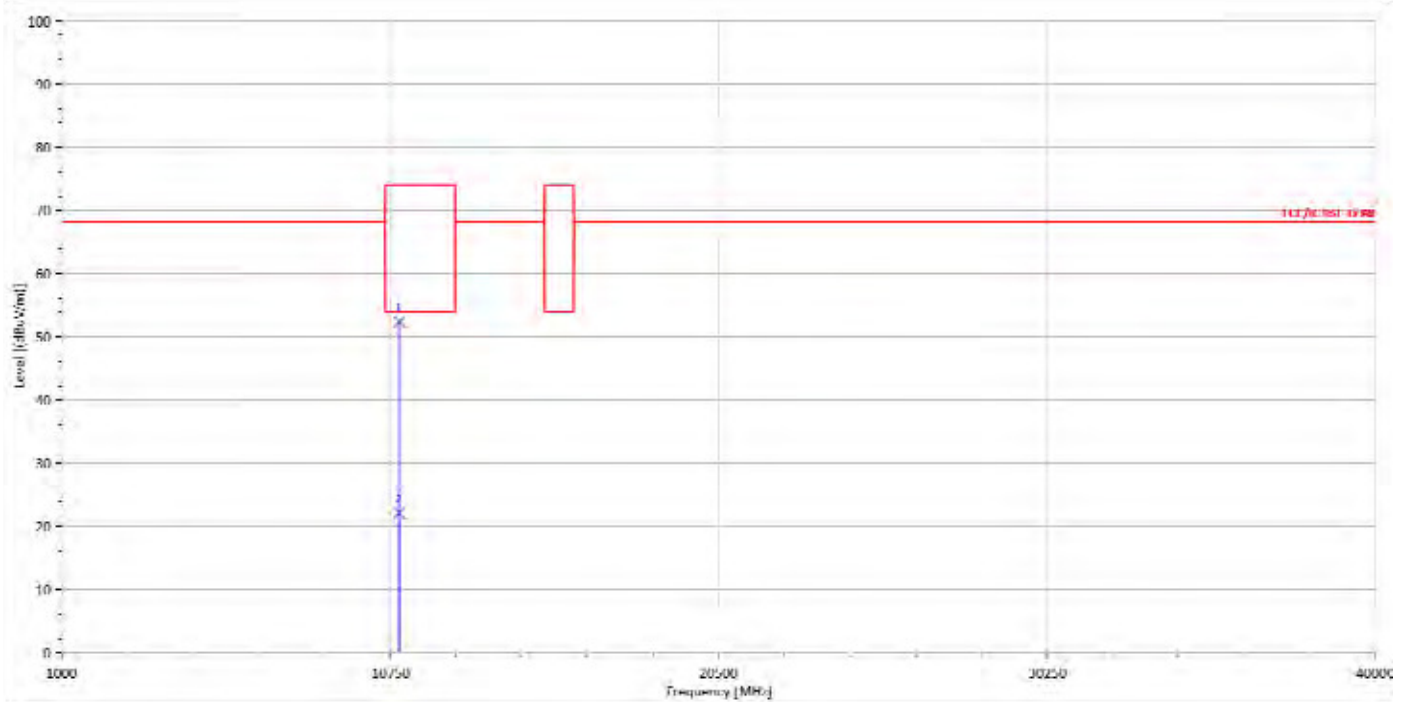
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Operation Mode : 802.11n40      Test Date : 2016/11/8  
 Fundamental Frequency : 5510 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11020.00	H	Peak	29.51	22.90	52.41	74	-21.59
11020.00	H	Average	-0.78	22.90	22.12	54	-31.88

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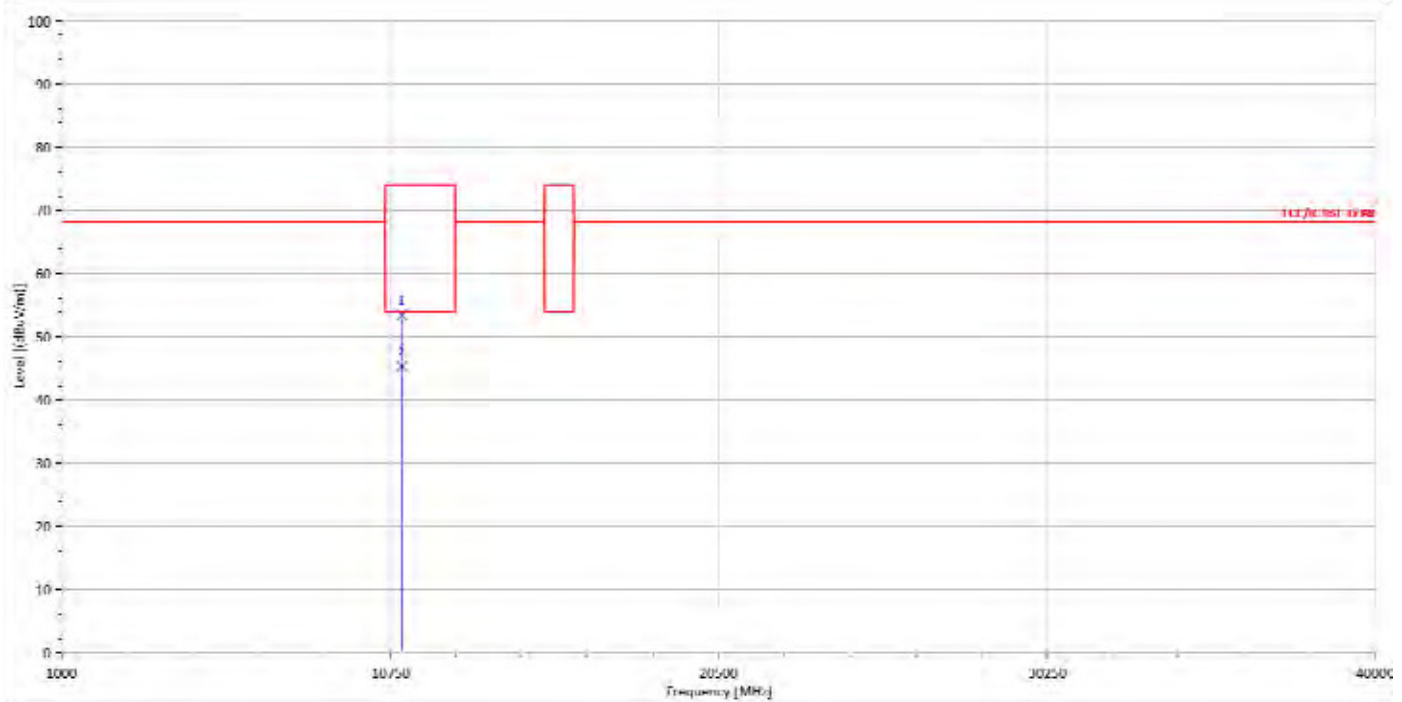
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Operation Mode : 802.11n40      Test Date : 2016/11/8  
 Fundamental Frequency : 5550 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
11100.00	H	Peak	30.29	23.16	53.46	74	-20.54
11100.00	H	Average	22.10	23.16	45.26	54	-8.74

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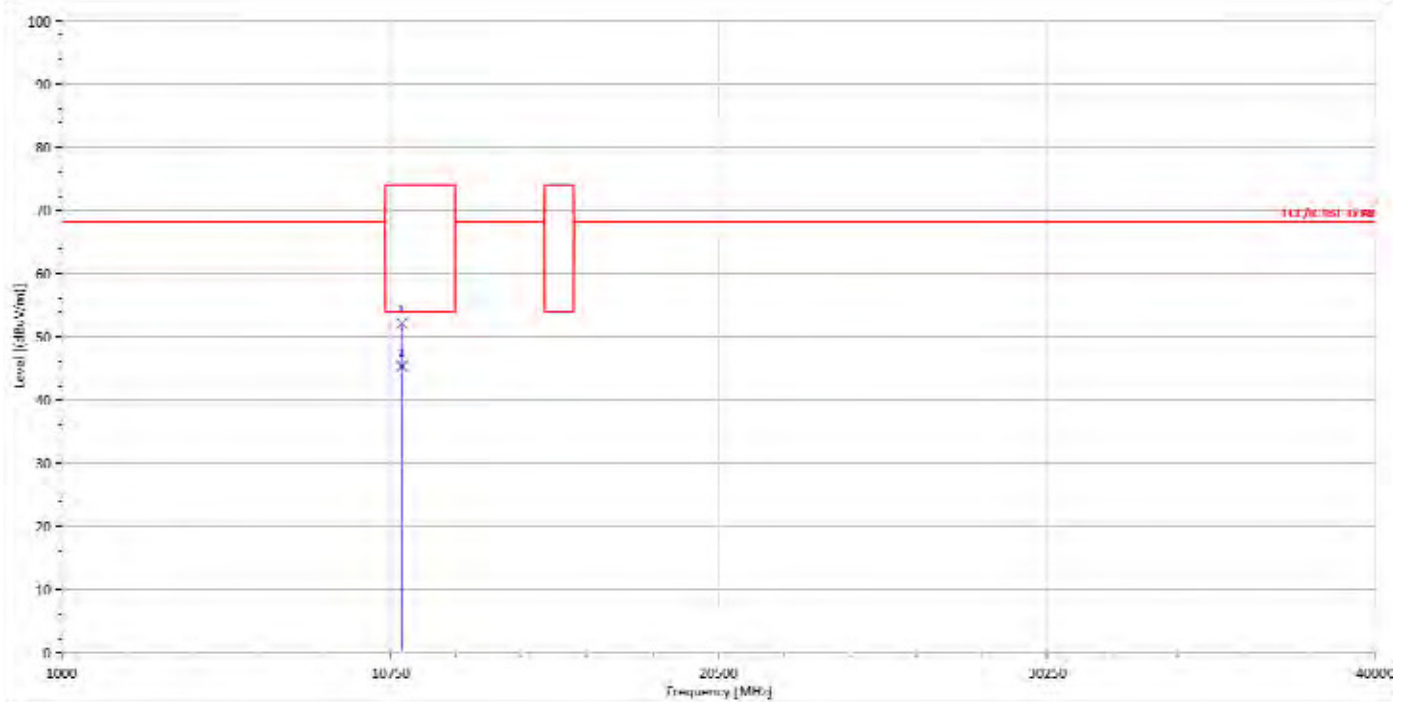
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Operation Mode : 802.11n40      Test Date : 2016/11/8  
 Fundamental Frequency : 5550 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11100.00	H	Peak	28.99	23.16	52.16	74	-21.84
11100.00	H	Average	22.08	23.16	45.24	54	-8.76

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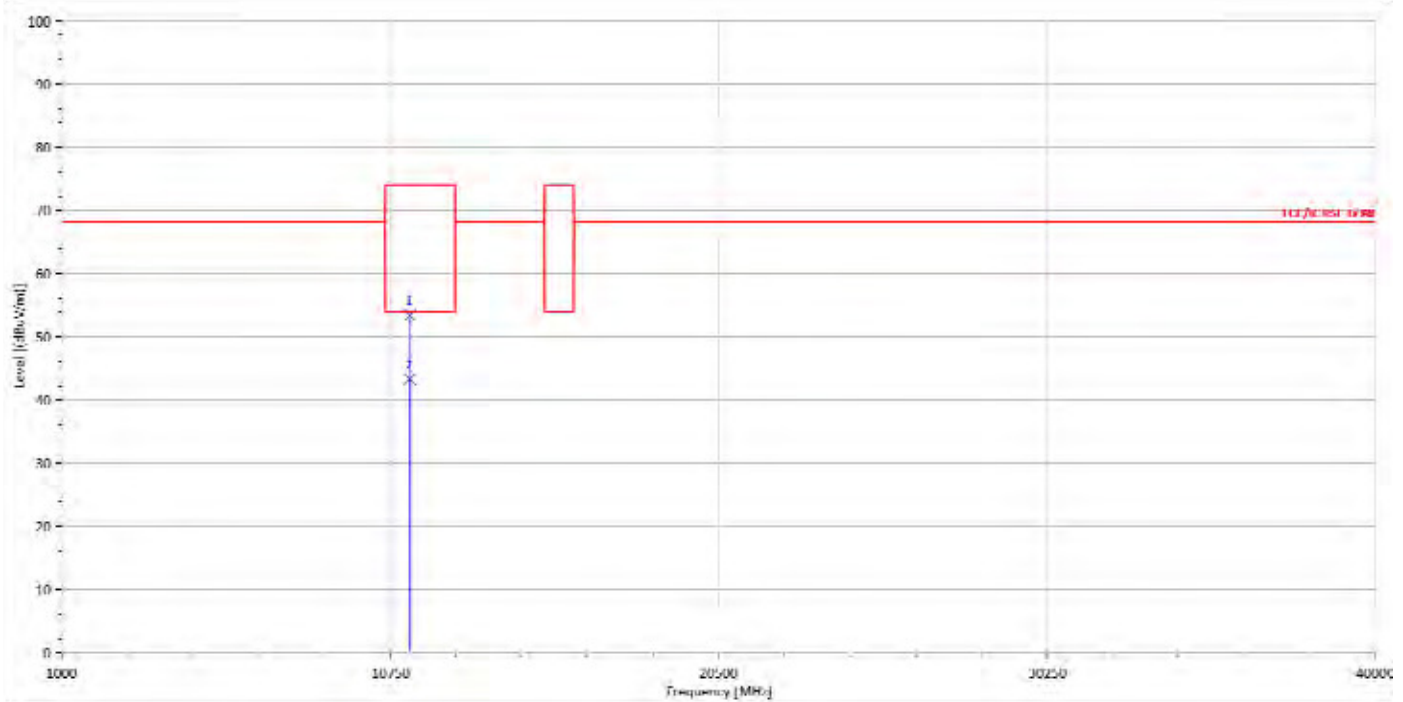
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Operation Mode : 802.11n40      Test Date : 2016/11/8  
 Fundamental Frequency : 5670 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
11340.00	H	Peak	32.47	20.97	53.43	74	-20.57
11340.00	H	Average	22.25	20.97	43.22	54	-10.78

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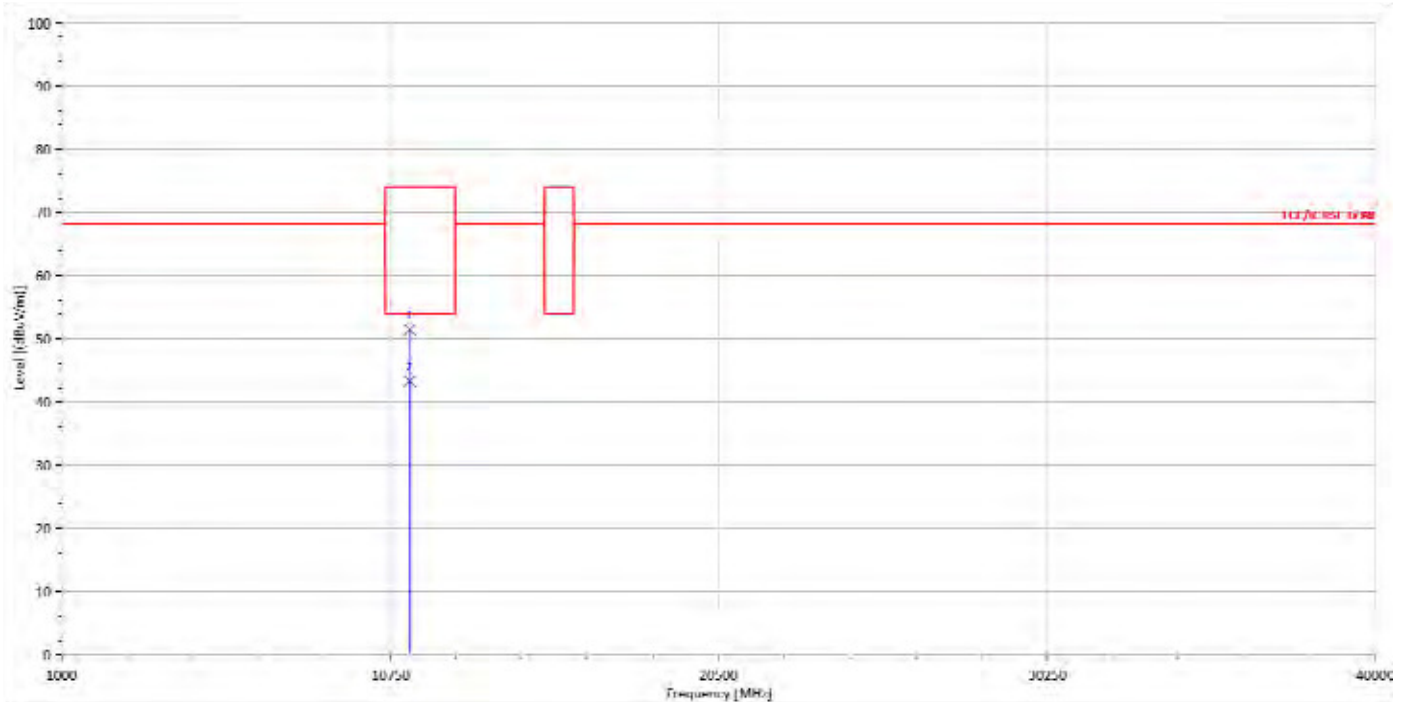
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 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11340.00	H	Peak	30.50	20.97	51.47	74	-22.53
11340.00	H	Average	22.25	20.97	43.22	54	-10.78

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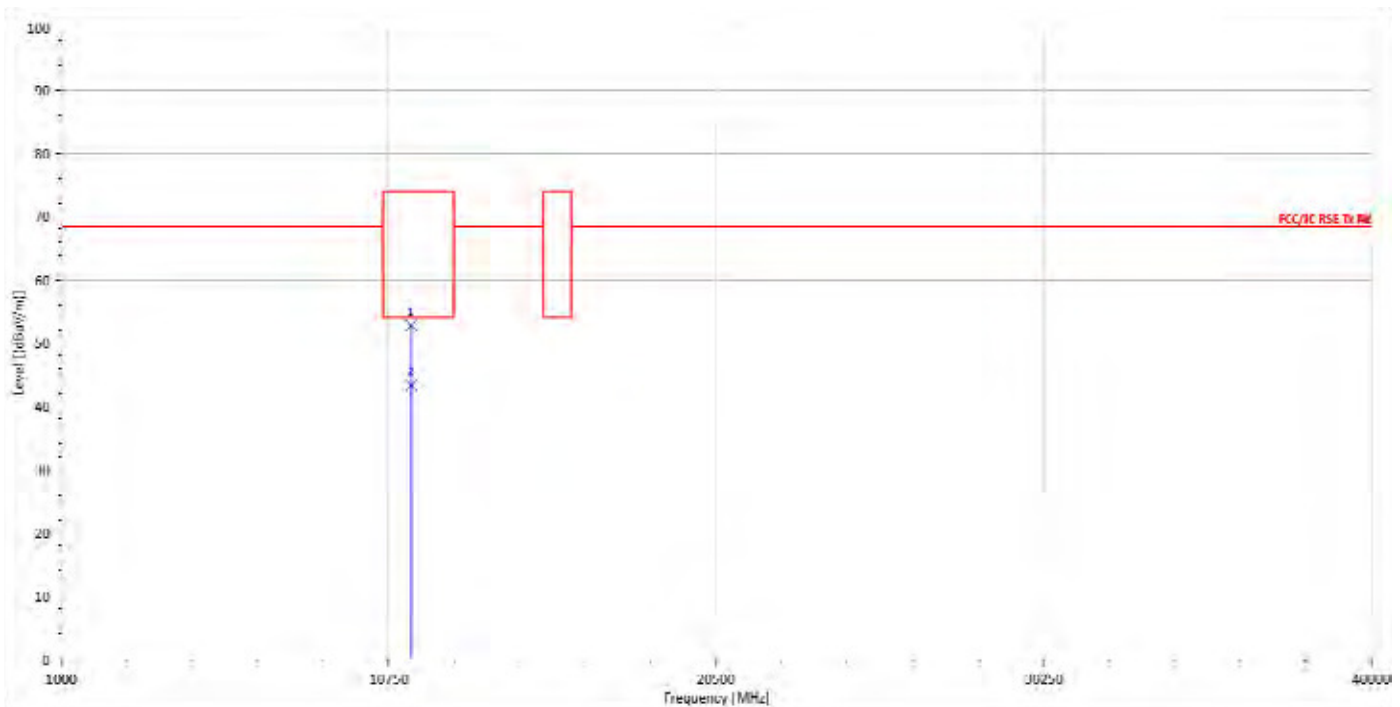
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40	Test Date :	2016/11/15
Fundamental Frequency :	5710 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	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
11420.00	H	Peak	31.64	21.09	52.73	74	-21.27
11420.00	H	Average	22.32	21.09	43.41	54	-10.59

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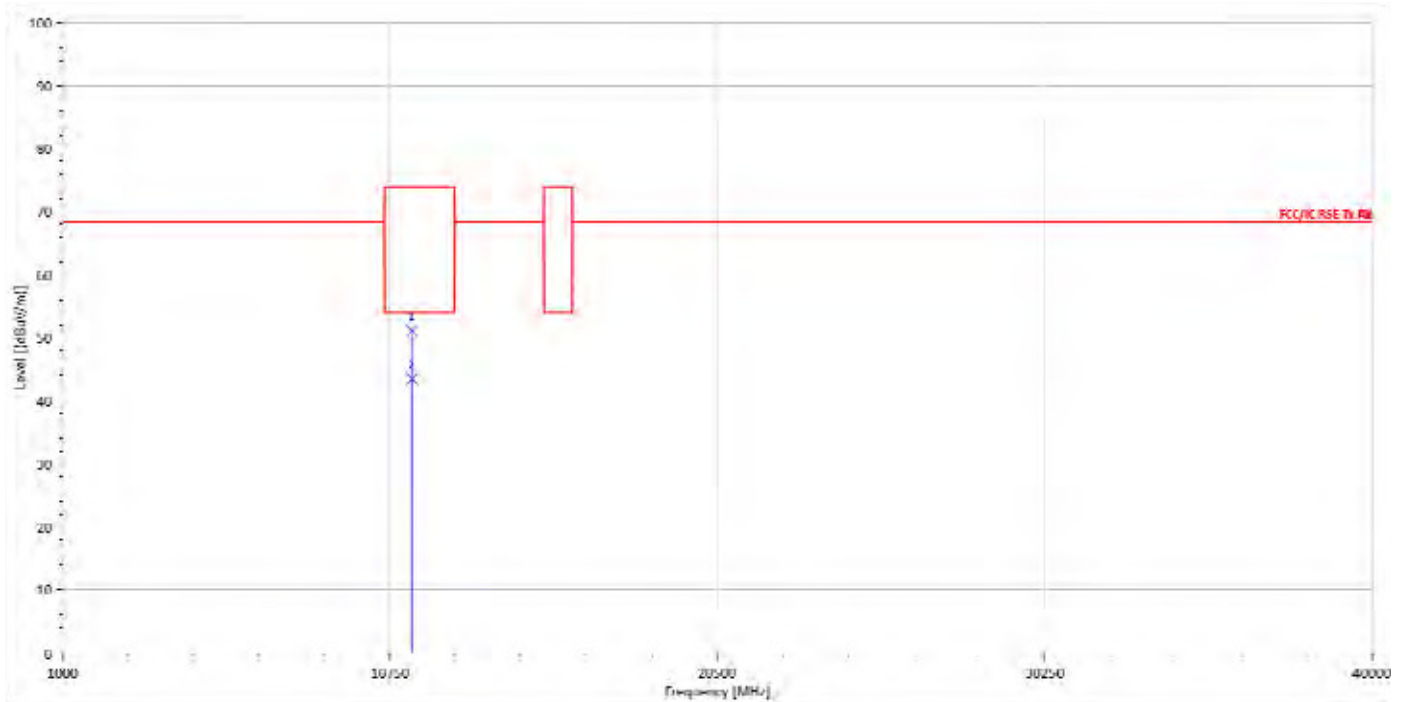
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Operation Mode :	802.11n40	Test Date :	2016/11/15
Fundamental Frequency :	5710 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11420.00	H	Peak	30.06	21.09	51.15	74	-22.85
11420.00	H	Average	22.32	21.09	43.41	54	-10.59

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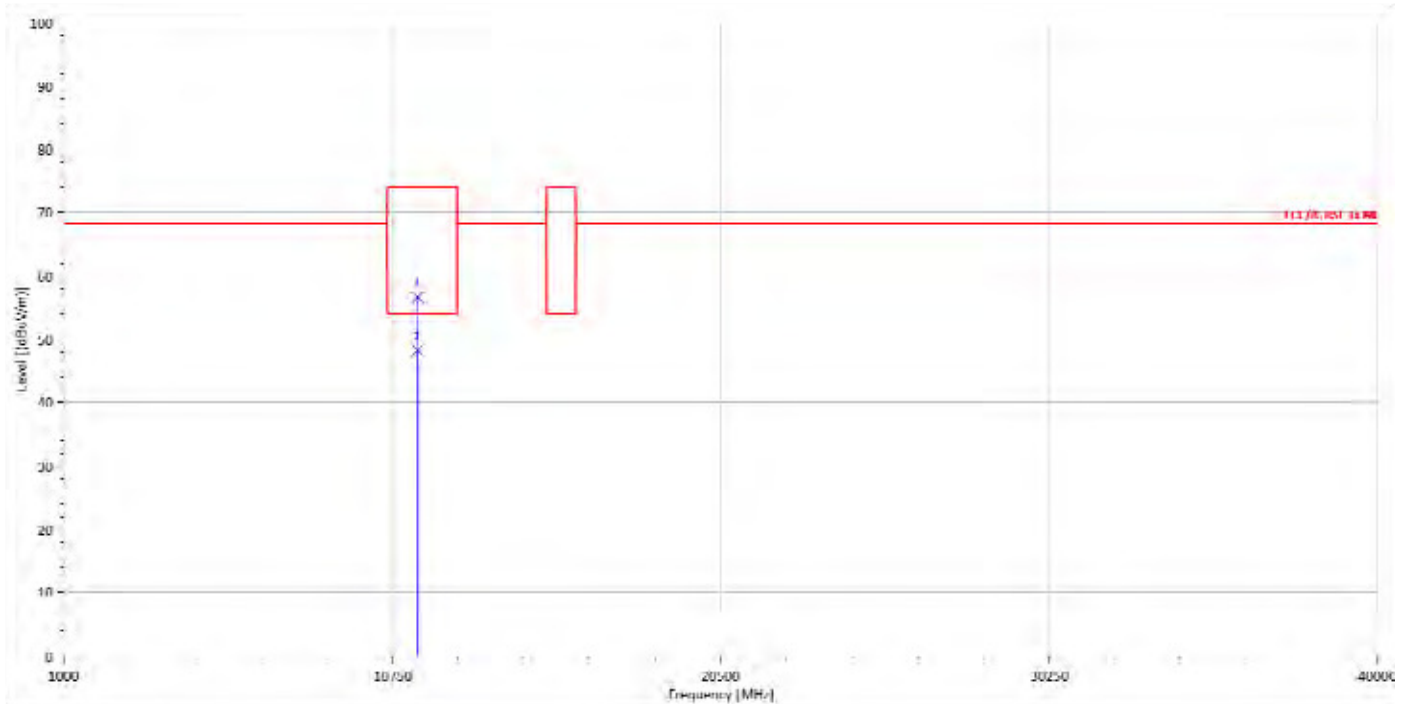
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40	Test Date :	2016/11/8
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
11510.00	H	Peak	34.46	22.17	56.62	74	-17.38
11510.00	H	Average	26.13	22.17	48.30	54	-5.70

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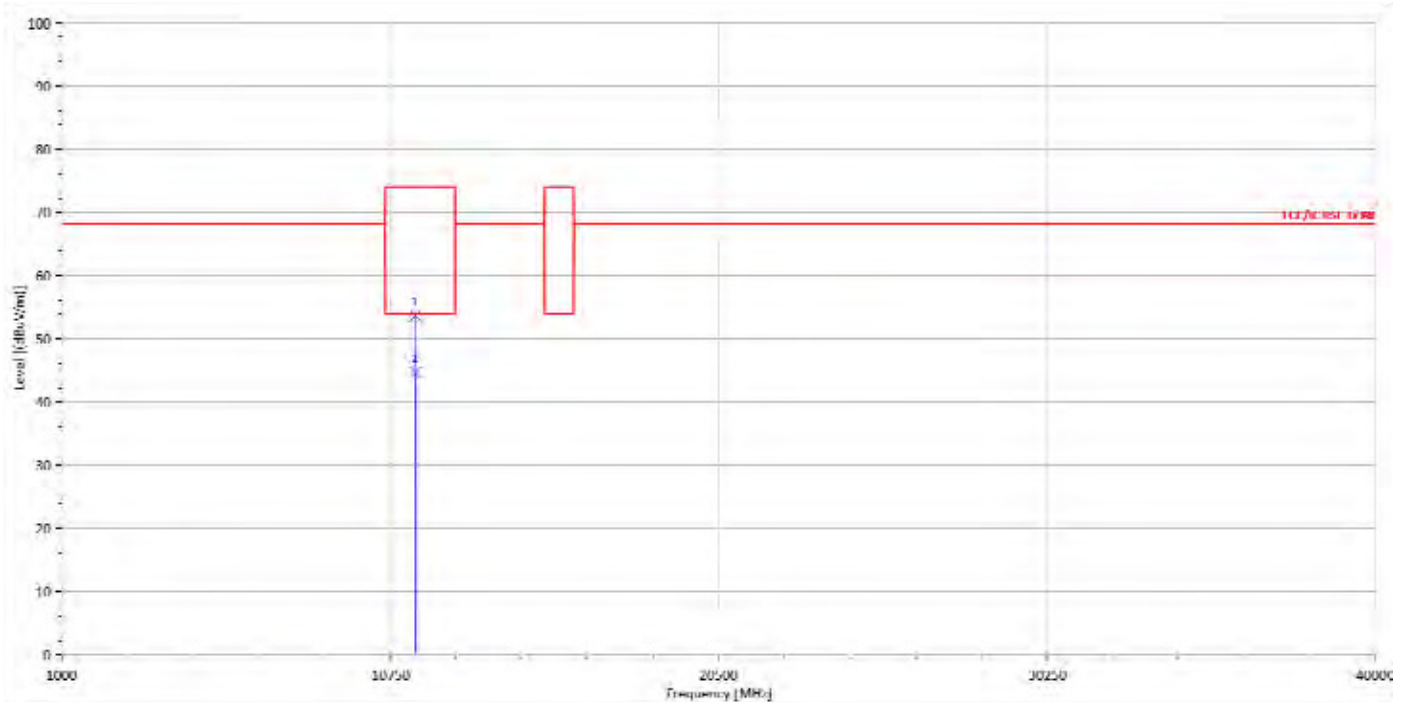
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Operation Mode : 802.11n40      Test Date : 2016/11/8  
 Fundamental Frequency : 5755 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11510.00	H	Peak	31.50	22.17	53.67	74	-20.33
11510.00	H	Average	22.47	22.17	44.64	54	-9.36

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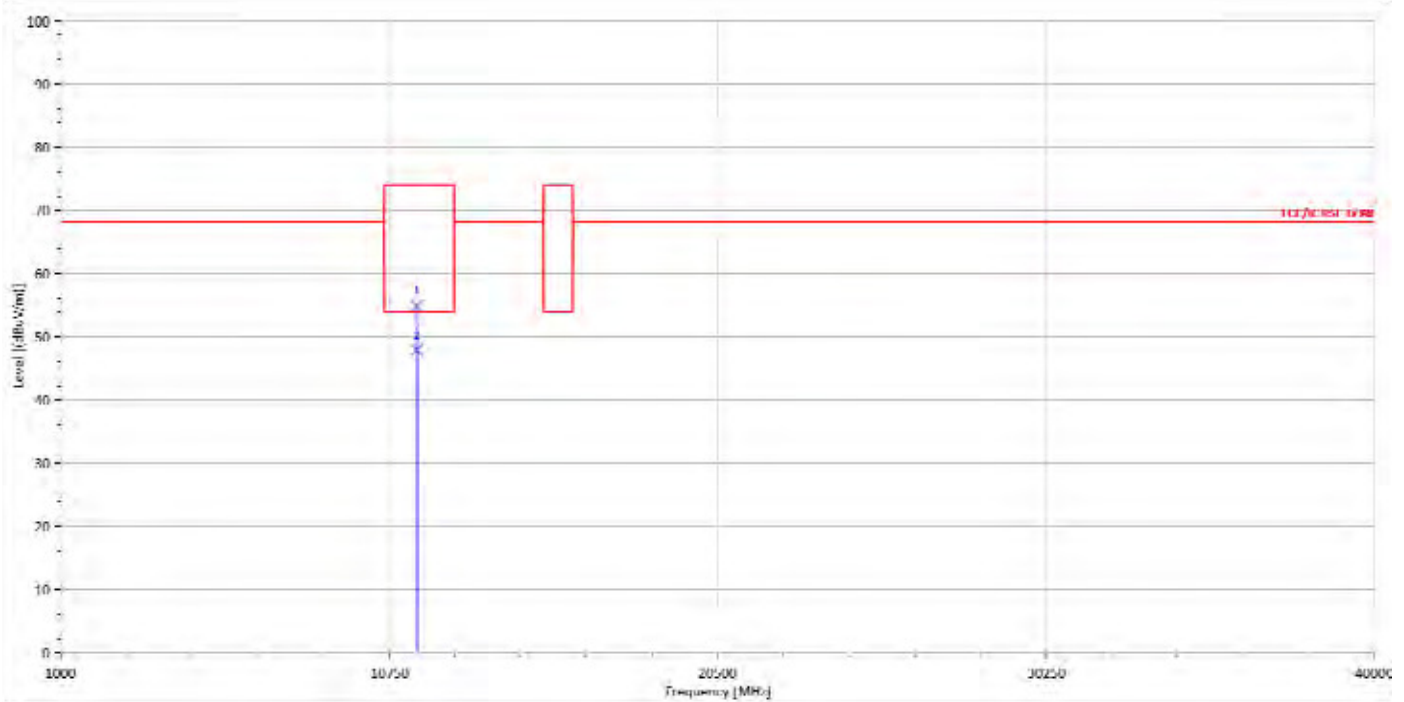
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Operation Mode : 802.11n40      Test Date : 2016/11/8  
 Fundamental Frequency : 5795 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
11590.00	H	Peak	33.11	21.84	54.96	74	-19.04
11590.00	H	Average	26.04	21.84	47.88	54	-6.12

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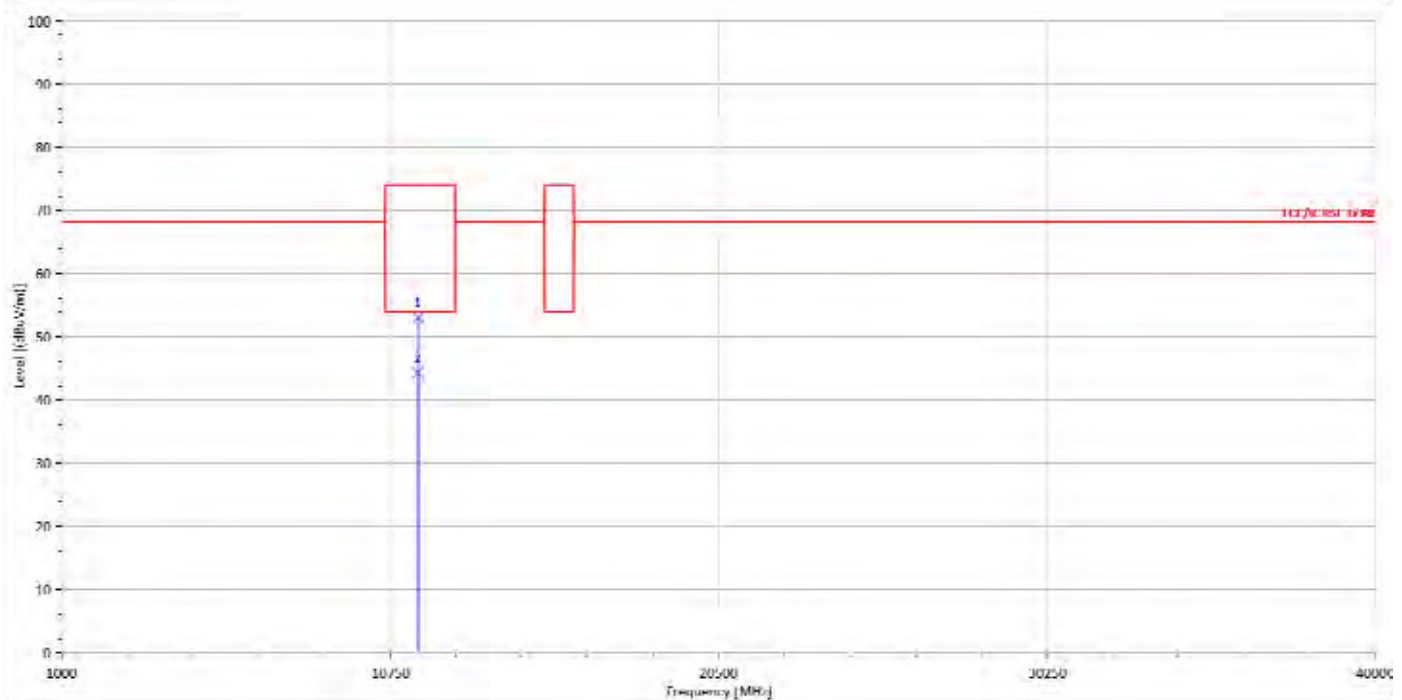
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Operation Mode : 802.11n40      Test Date : 2016/11/8  
 Fundamental Frequency : 5795 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11590.00	H	Peak	31.23	21.84	53.08	74	-20.92
11590.00	H	Average	22.39	21.84	44.23	54	-9.77

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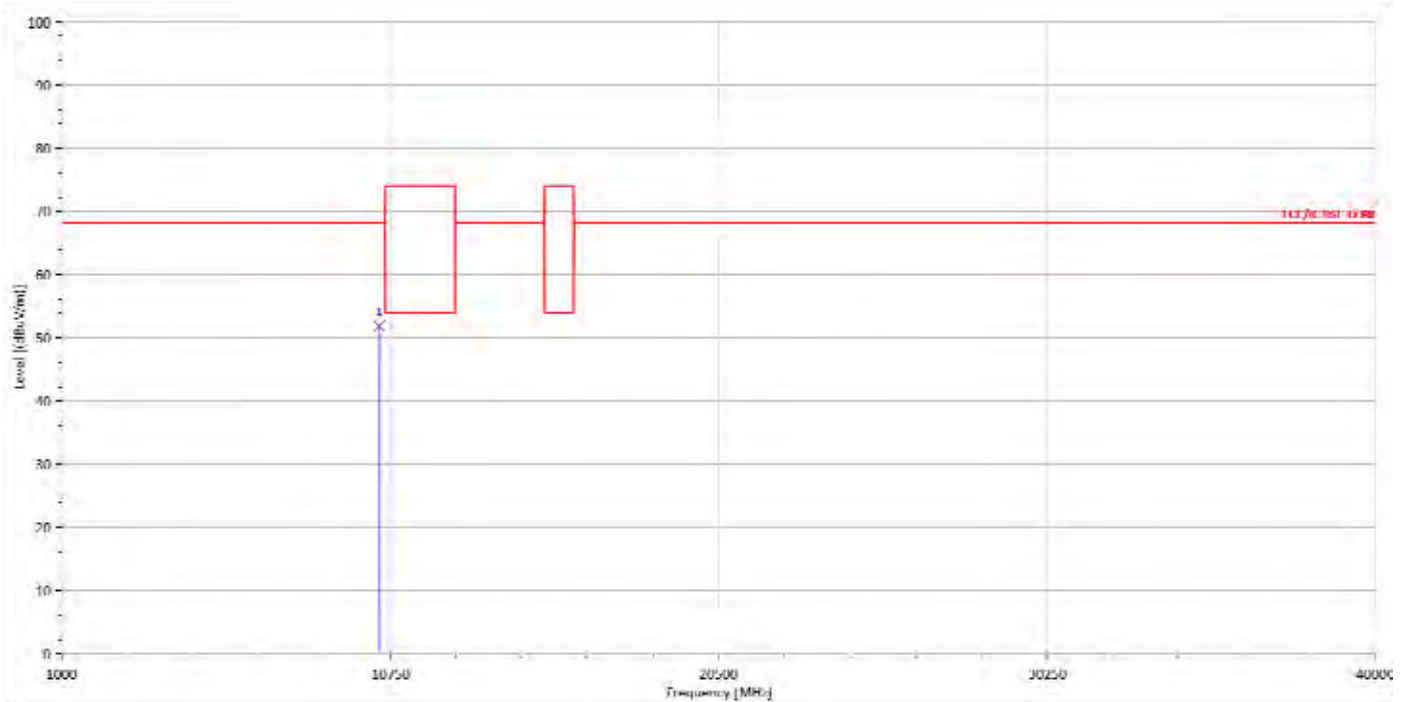
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80	Test Date :	2016/11/8
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
10420.00	H	Peak	31.21	20.67	51.87	68.3	-16.43

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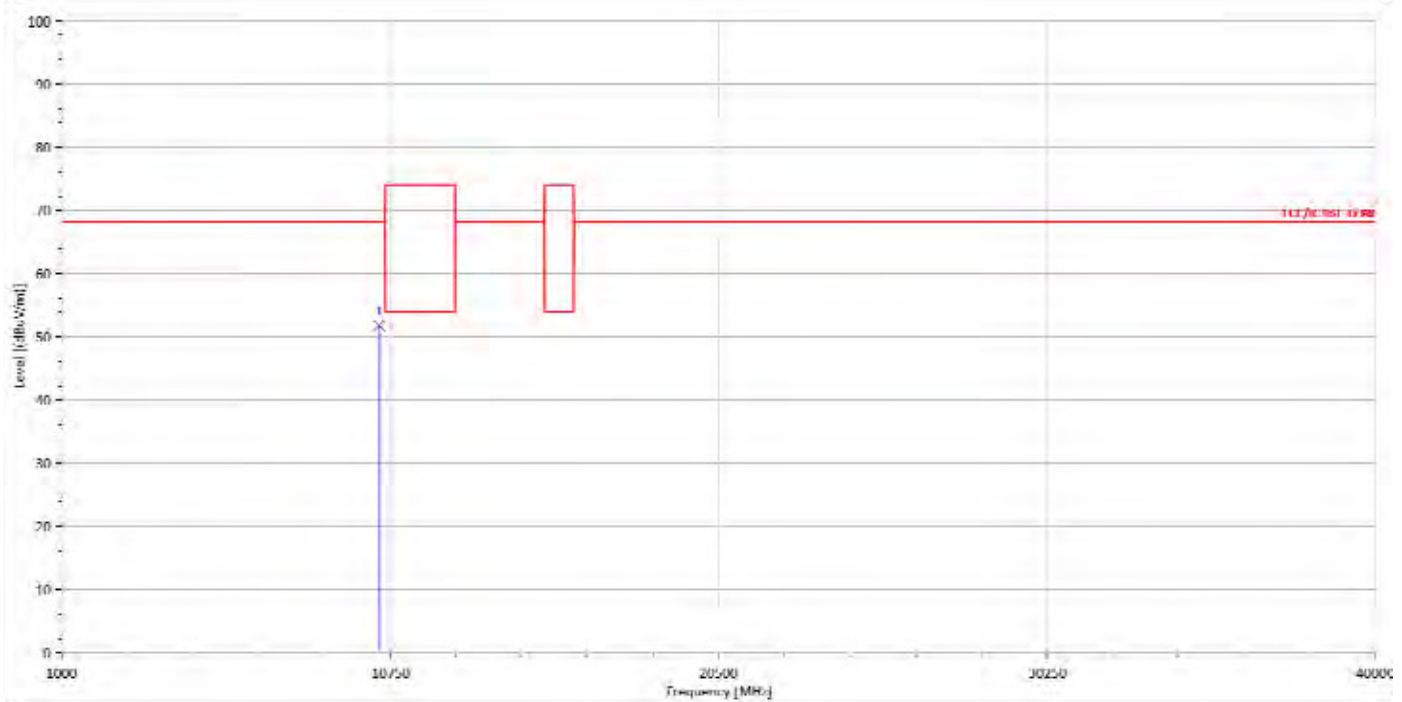
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Operation Mode : 802.11ac80 Test Date : 2016/11/8  
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
10420.00	H	Peak	31.13	20.67	51.79	68.3	-16.51

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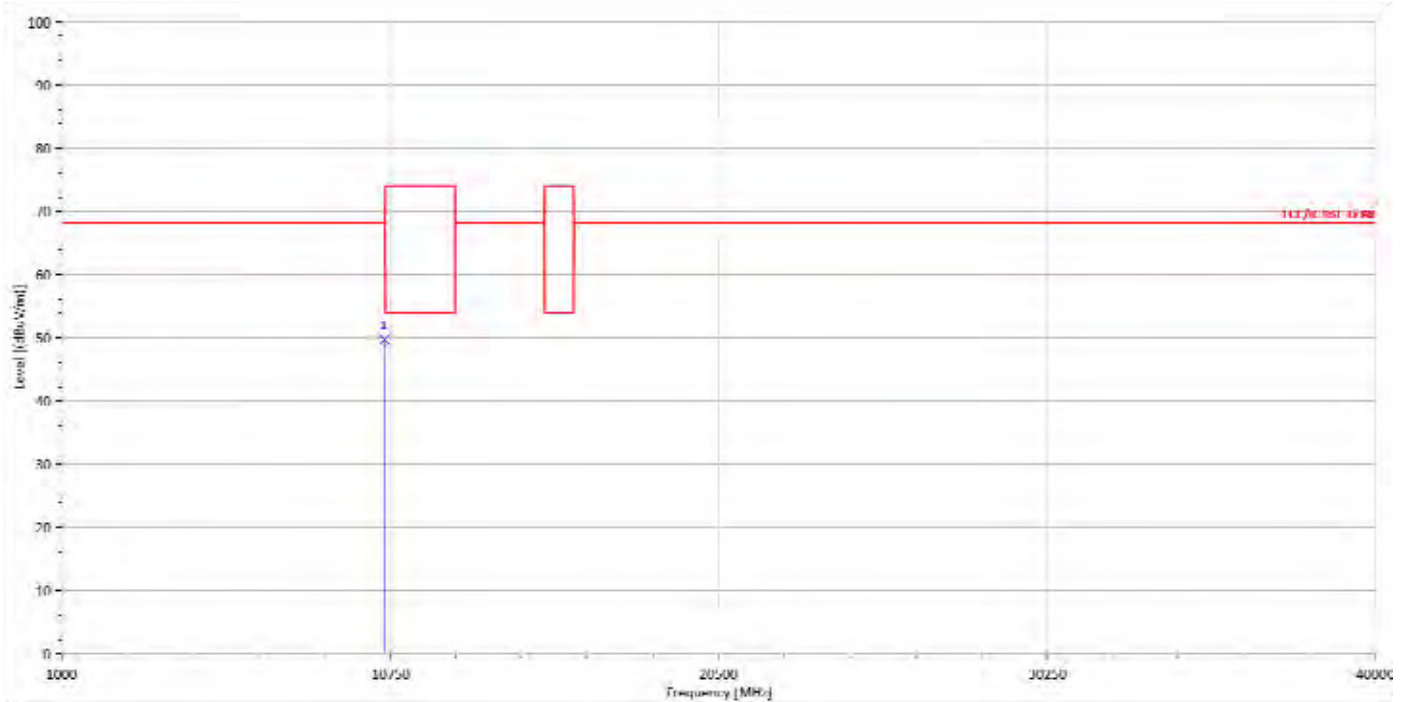
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80	Test Date :	2016/11/8
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	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
10580.00	H	Peak	29.59	20.12	49.71	68.3	-18.59

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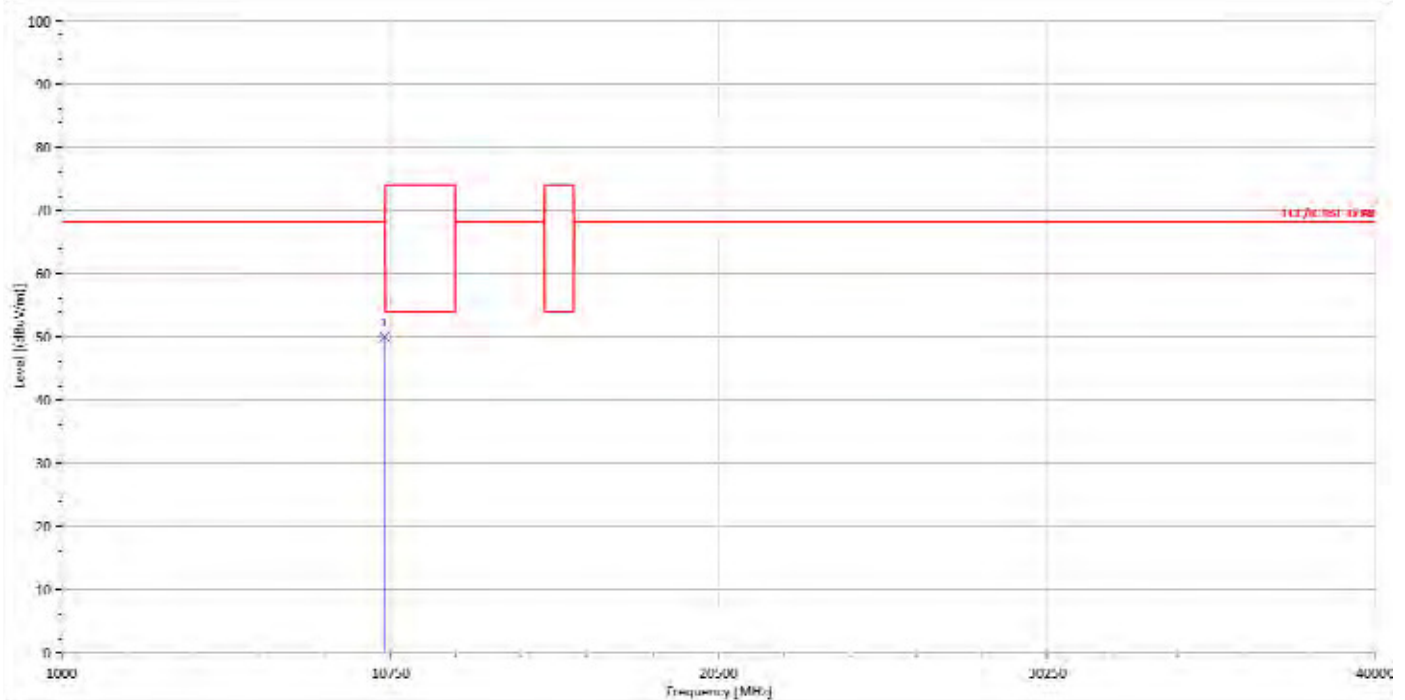
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Operation Mode : 802.11ac80 Test Date : 2016/11/8  
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
10580.00	H	Peak	29.87	20.12	50.00	68.3	-18.30

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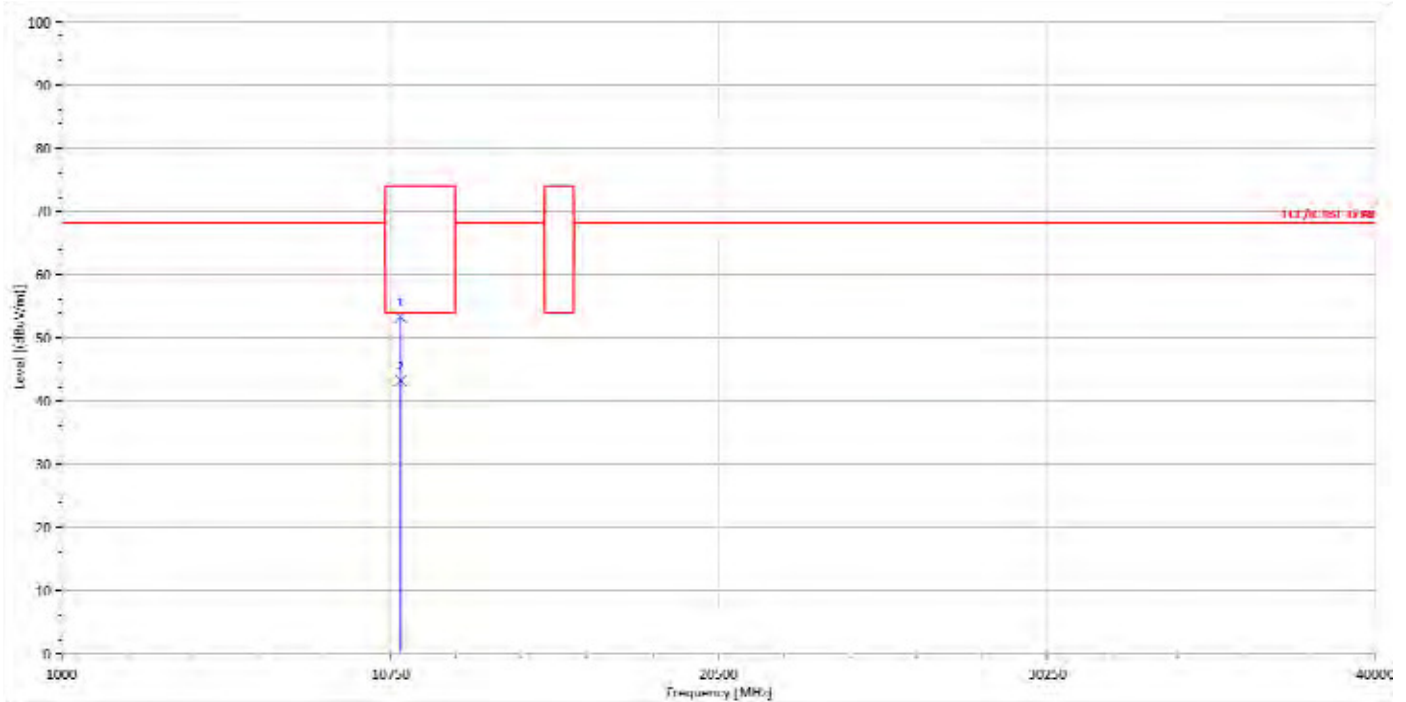
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80	Test Date :	2016/11/8
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
11060.00	H	Peak	31.52	21.83	53.36	74	-20.64
11060.00	H	Average	21.34	21.83	43.17	54	-10.83

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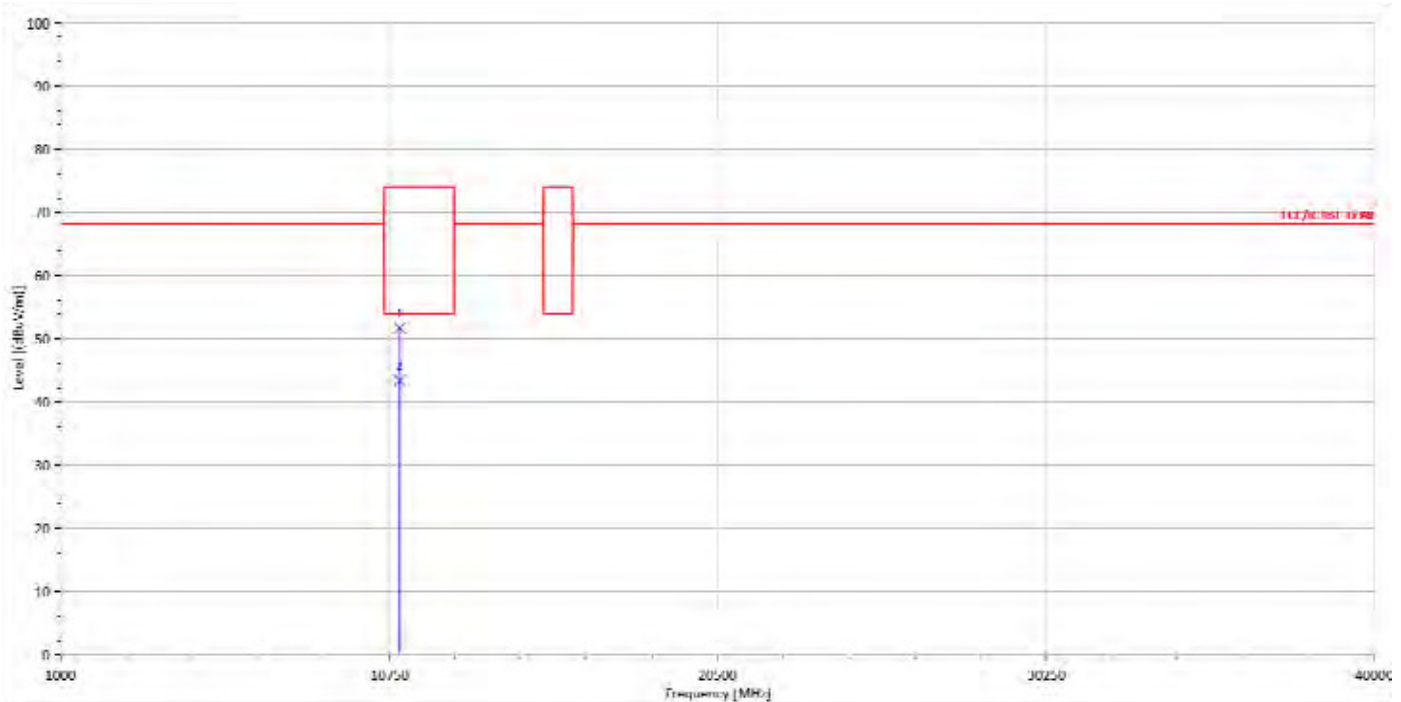
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Operation Mode : 802.11ac80      Test Date : 2016/11/8  
 Fundamental Frequency : 5530 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11060.00	H	Peak	29.89	21.83	51.72	74	-22.28
11060.00	H	Average	21.48	21.83	43.31	54	-10.69

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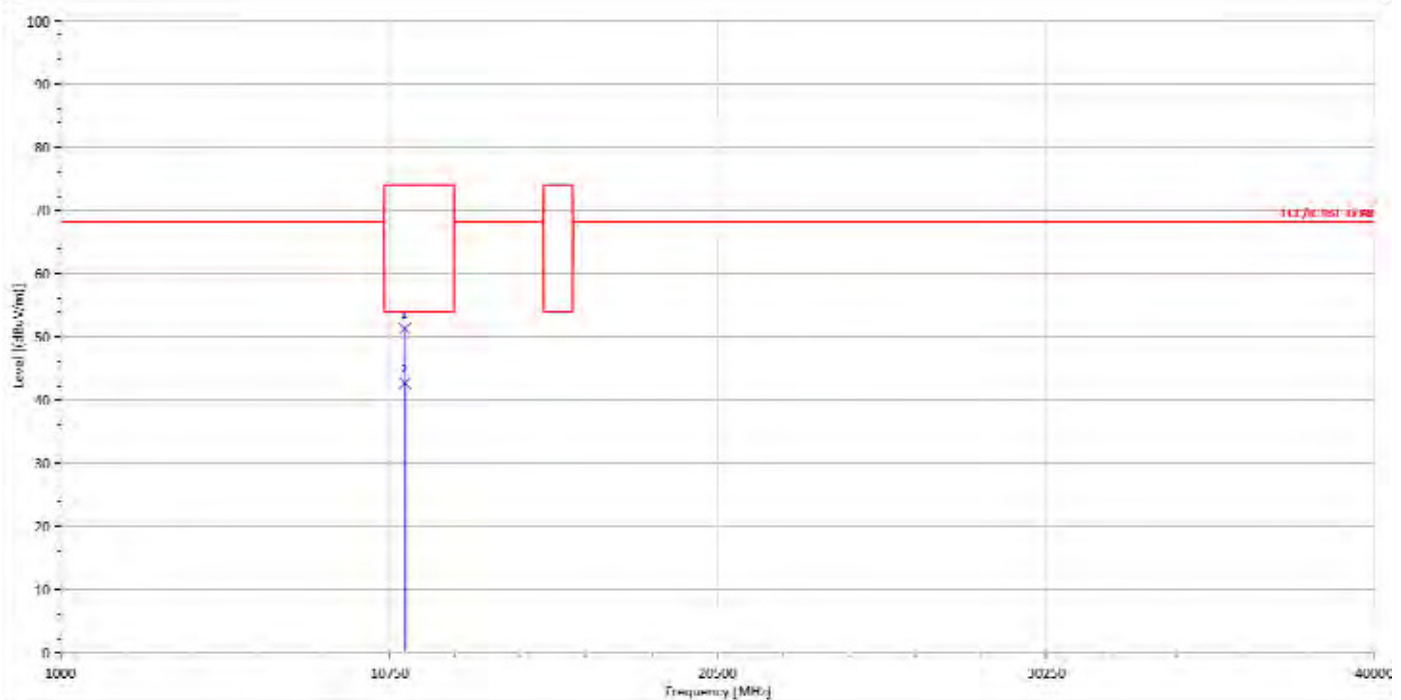
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Operation Mode : 802.11ac80 Test Date : 2016/11/8  
 Fundamental Frequency : 5610 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
11220.00	H	Peak	30.01	21.32	51.33	74	-22.67
11220.00	H	Average	21.24	21.32	42.56	54	-11.44

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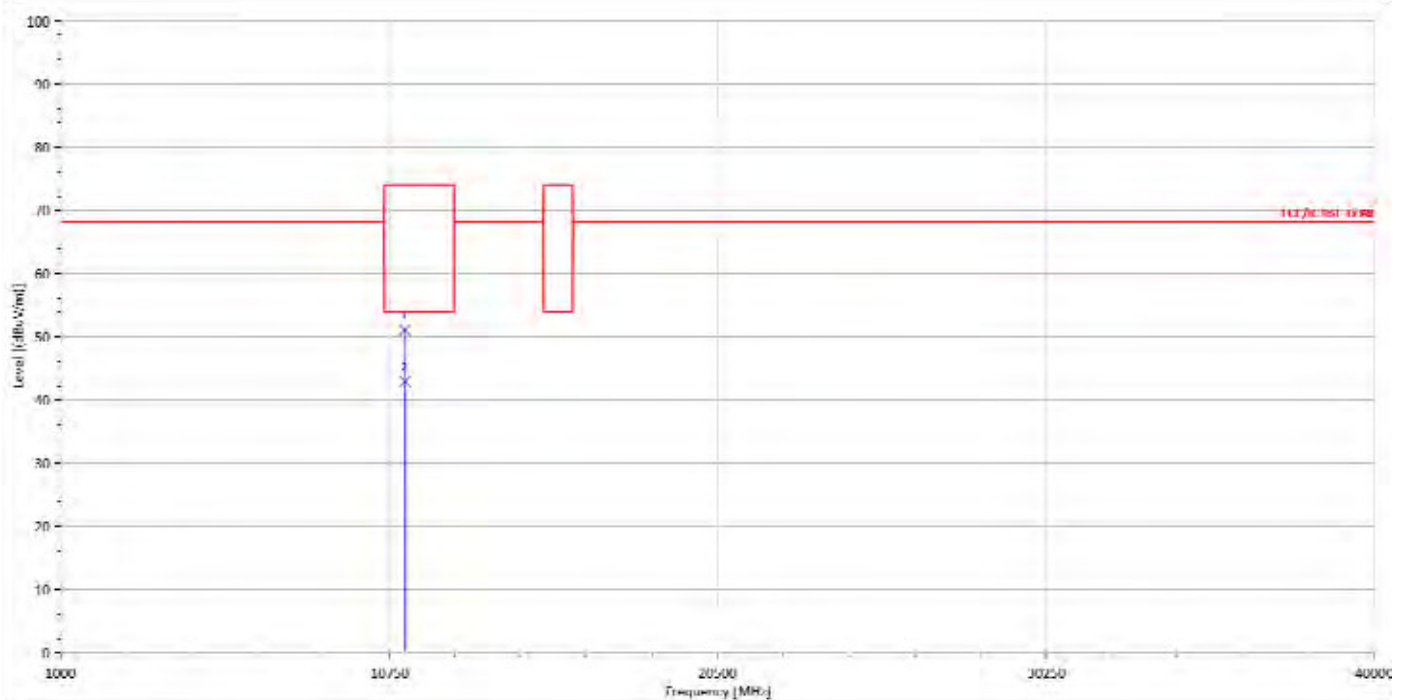
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Operation Mode : 802.11ac80 Test Date : 2016/11/8  
 Fundamental Frequency : 5610 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
11220.00	H	Peak	29.78	21.32	51.09	74	-22.91
11220.00	H	Average	21.52	21.32	42.84	54	-11.16

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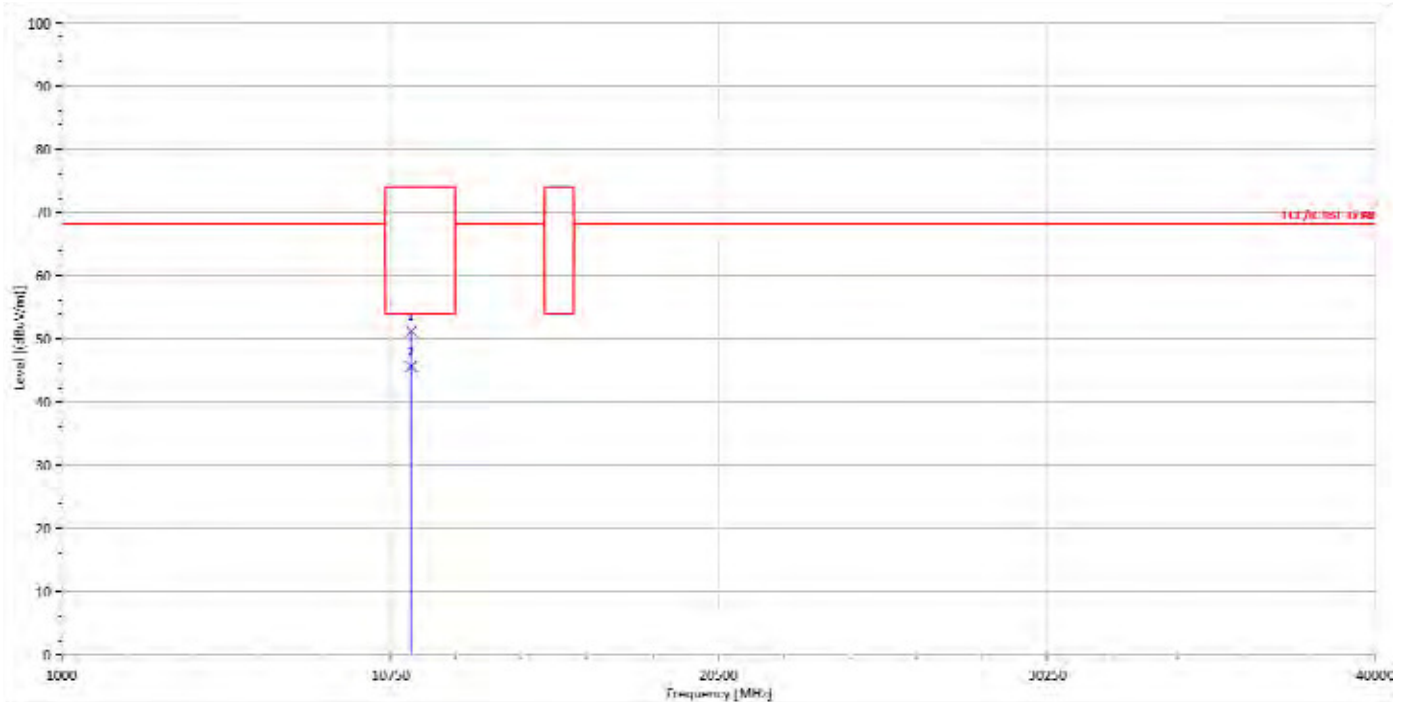
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Operation Mode : 802.11ac80 Test Date : 2016/11/8  
 Fundamental Frequency : 5690 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
11380.00	H	Peak	30.26	20.97	51.23	74	-22.77
11380.00	H	Average	24.63	20.97	45.60	54	-8.40

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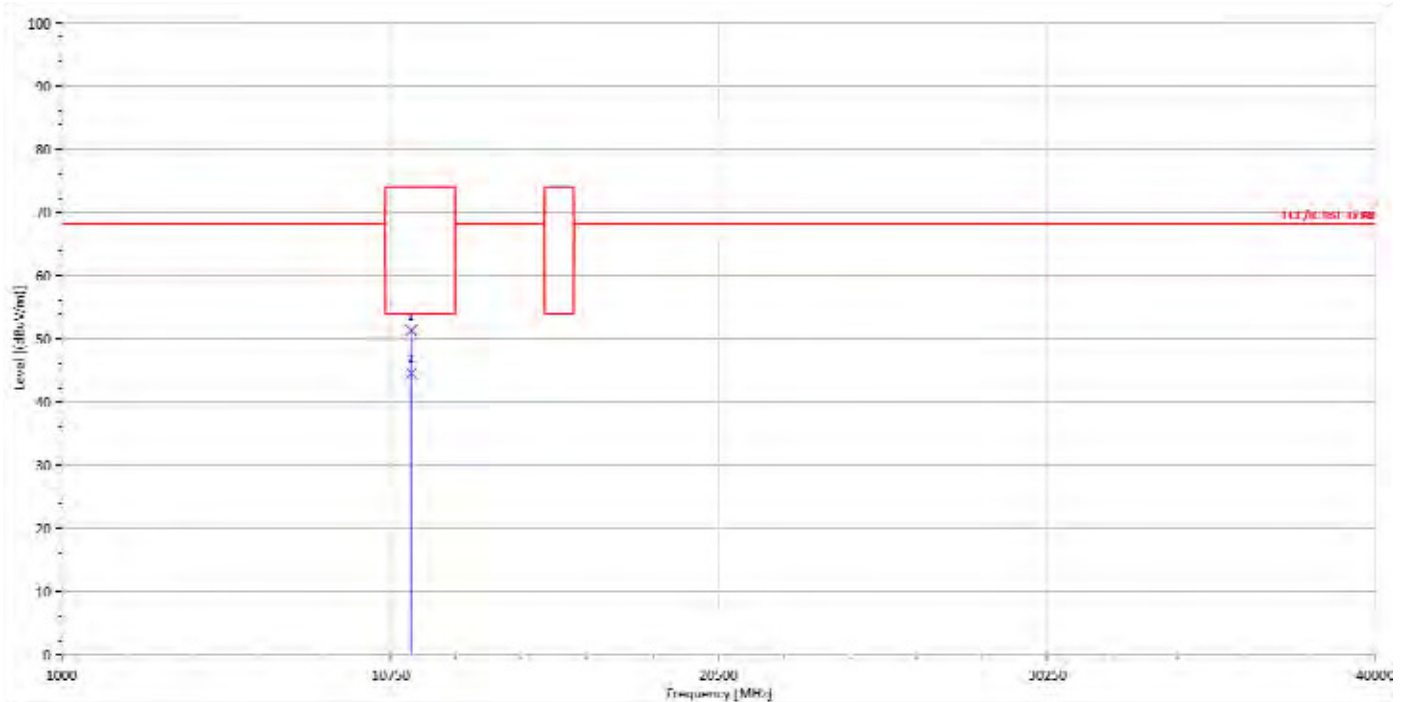
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Operation Mode : 802.11ac80      Test Date : 2016/11/8  
 Fundamental Frequency : 5690 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11380.00	H	Peak	30.35	20.97	51.32	74	-22.68
11380.00	H	Average	23.52	20.97	44.49	54	-9.51

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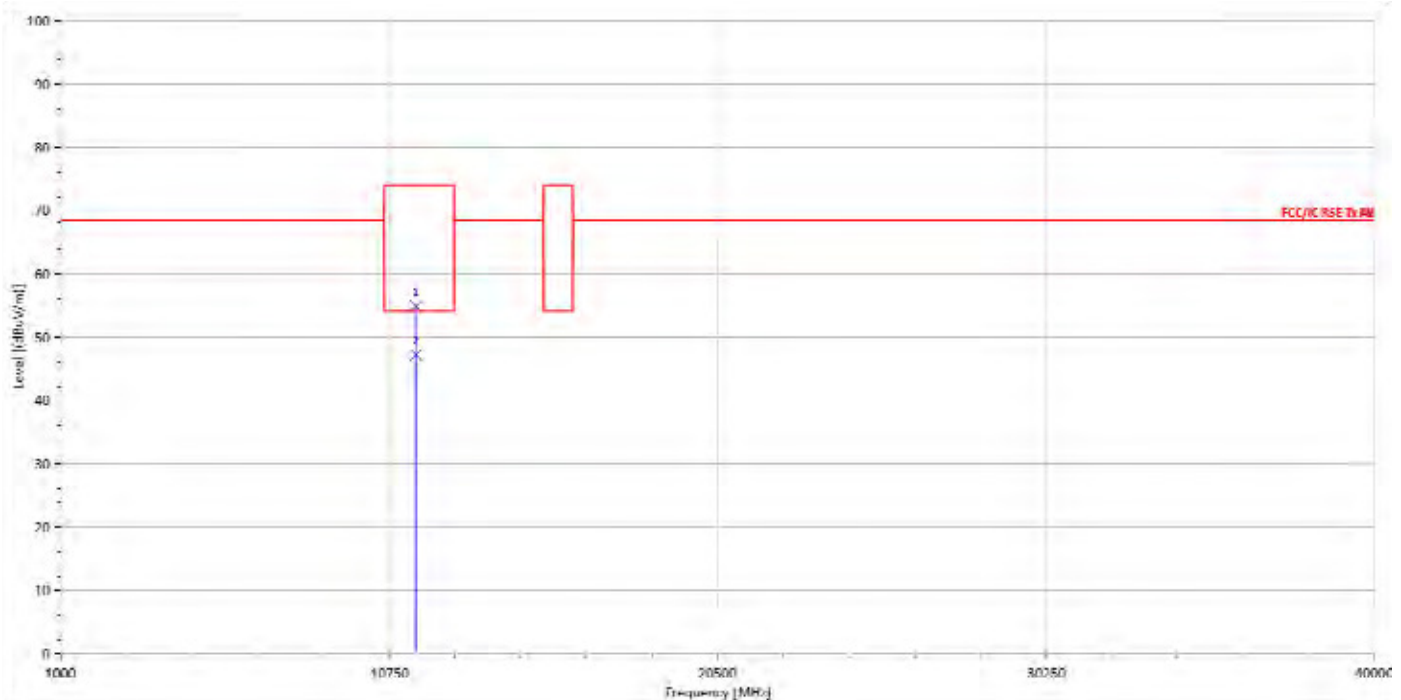
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80	Test Date :	2016/11/8
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
11550.00	H	Peak	33.41	21.41	54.82	74	-19.18
11550.00	H	Average	25.77	21.41	47.18	54	-6.82

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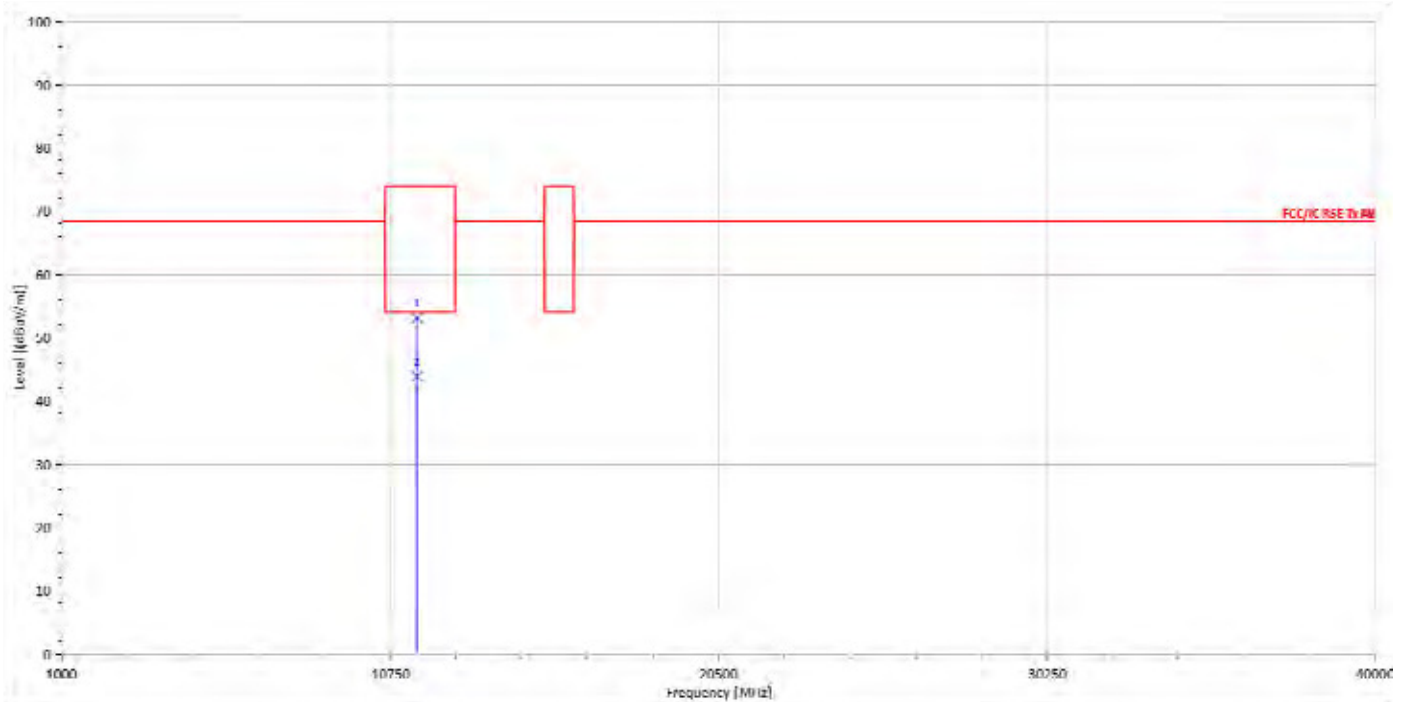
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Operation Mode :	802.11ac80	Test Date :	2016/11/8
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11550.00	H	Peak	31.68	21.41	53.10	74	-20.90
11550.00	H	Average	22.51	21.41	43.92	54	-10.08

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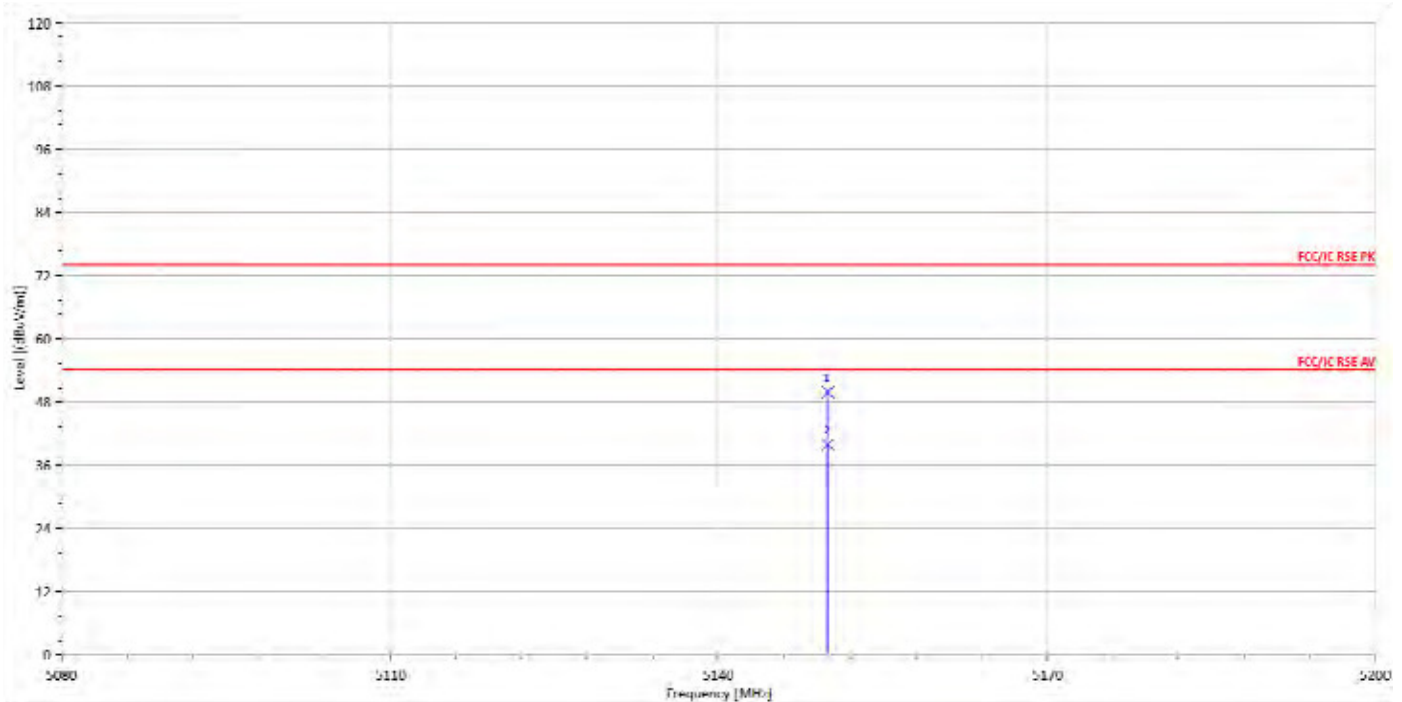
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### Band edge falling to restricted band

#### 802.11a mode

Operation Mode :	802.11a	Test Date :	2016/11/5
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5150.00	H	Peak	41.66	8.19	49.85	74	-24.15
5150.00	H	Average	31.69	8.19	39.88	54	-14.12

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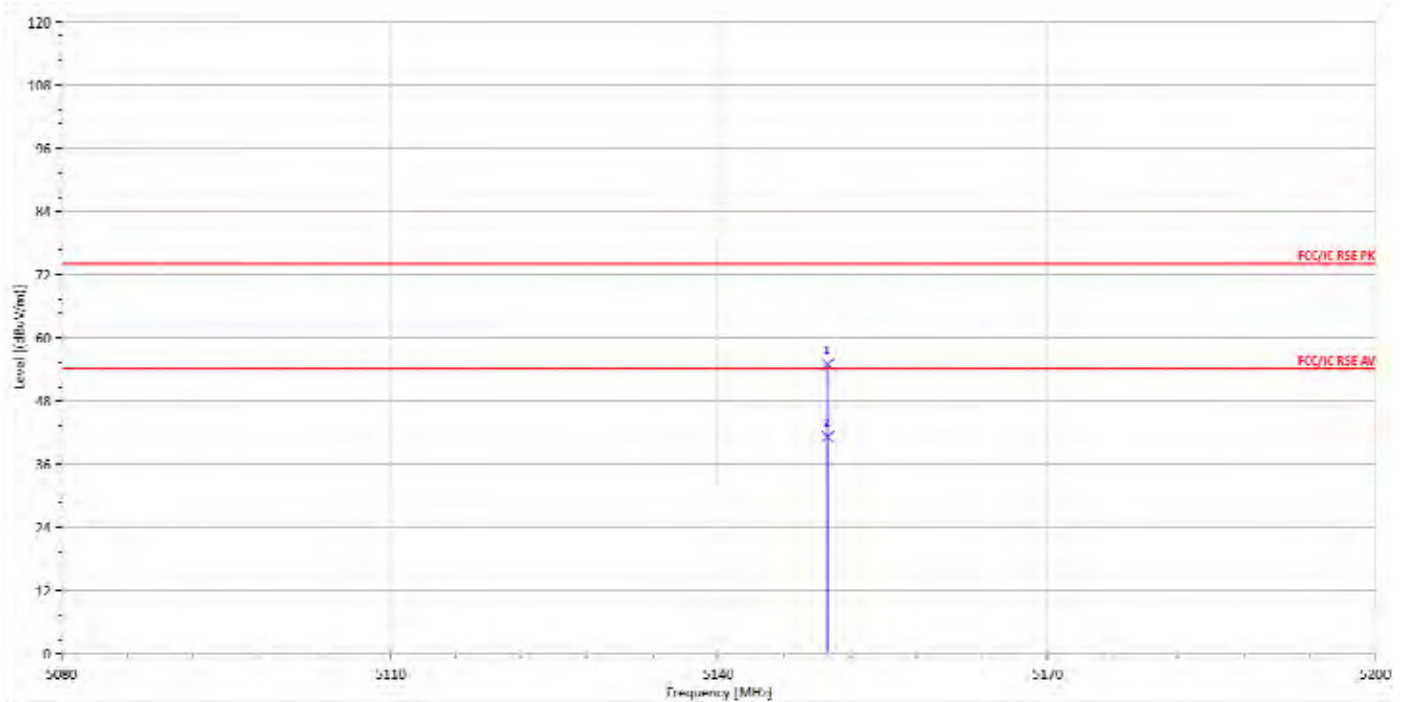
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Operation Mode :	802.11a	Test Date :	2016/11/5
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5150.00	E	Peak	46.69	8.19	54.88	74	-19.12
5150.00	E	Average	32.99	8.19	41.18	54	-12.82

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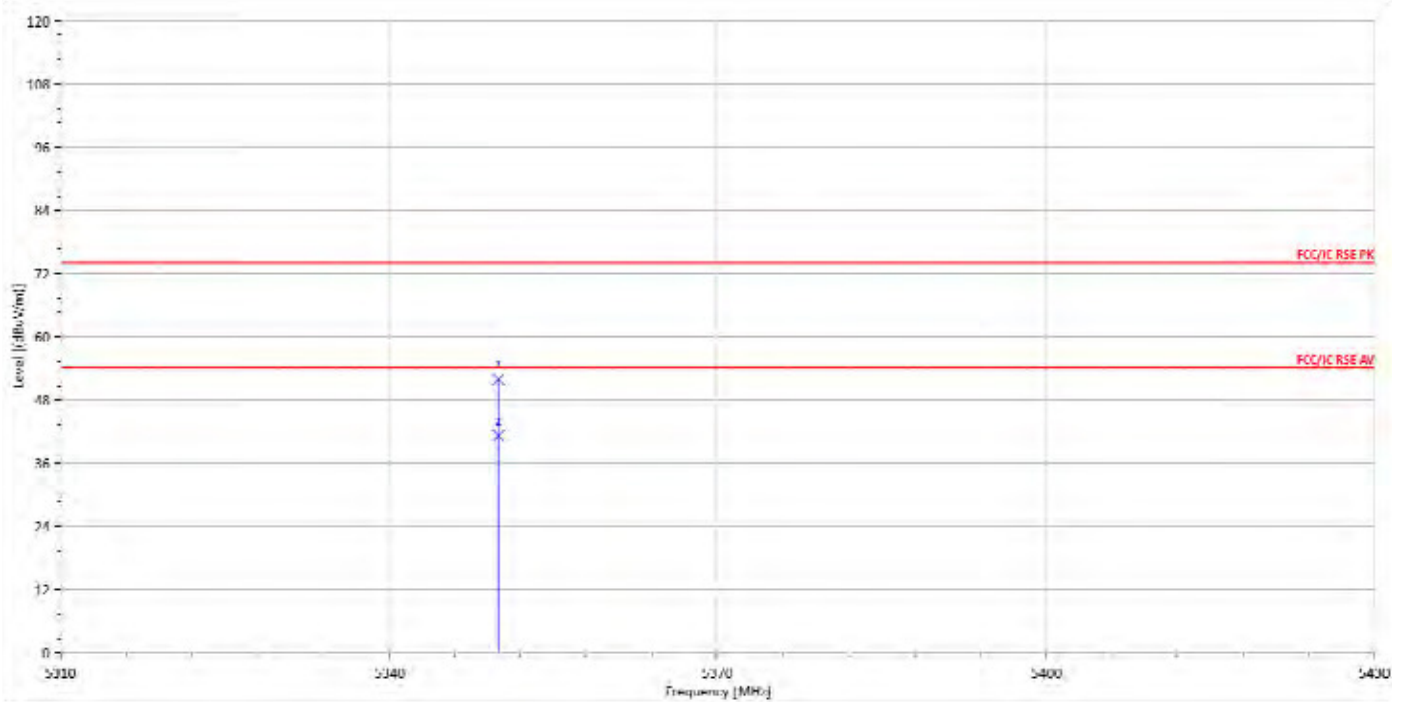
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Operation Mode :	802.11a	Test Date :	2016/11/5
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. 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
5350.00	E	Peak	42.88	8.96	51.84	74	-22.16
5350.00	E	Average	32.24	8.96	41.20	54	-12.80

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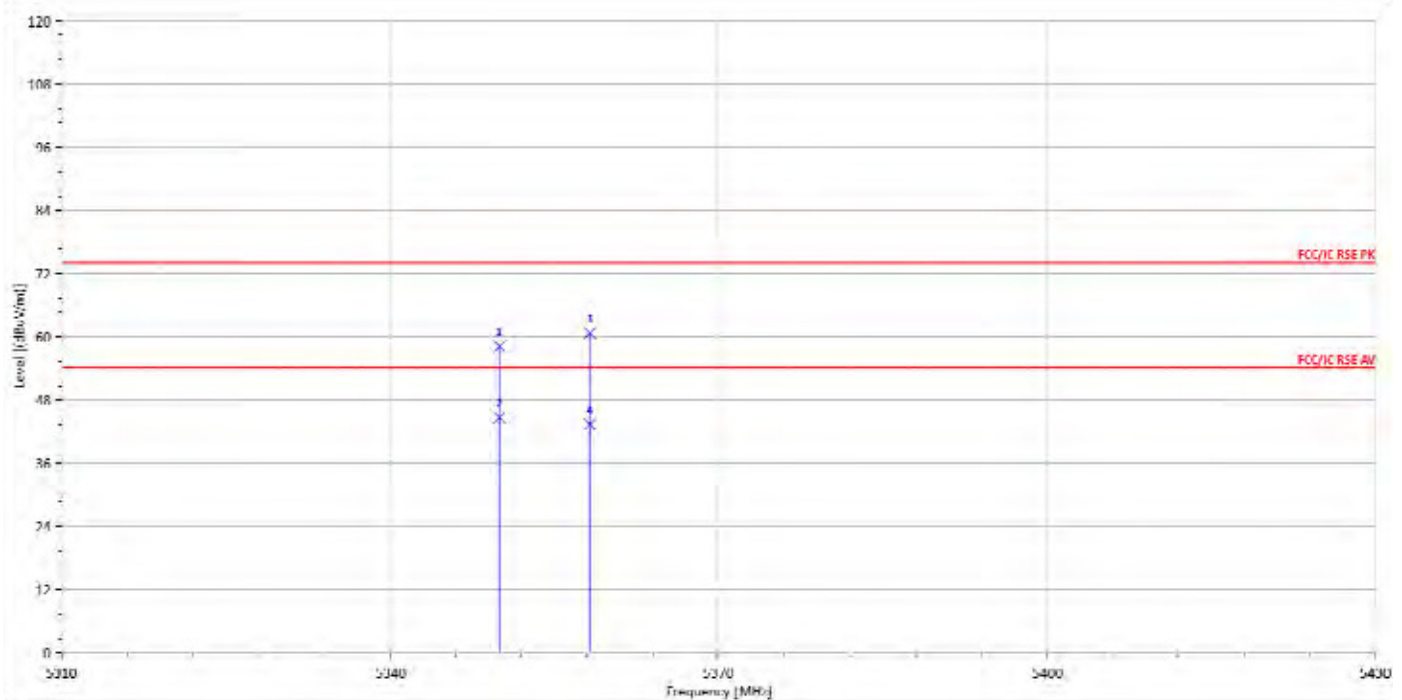
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Operation Mode :	802.11a	Test Date :	2016/11/5
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	49.22	8.96	58.19	74	-15.81
5350.00	E	Average	35.72	8.96	44.68	54	-9.32
5358.24	S	Peak	51.77	8.93	60.71	74	-13.29
5358.24	S	Average	34.44	8.93	43.37	54	-10.63

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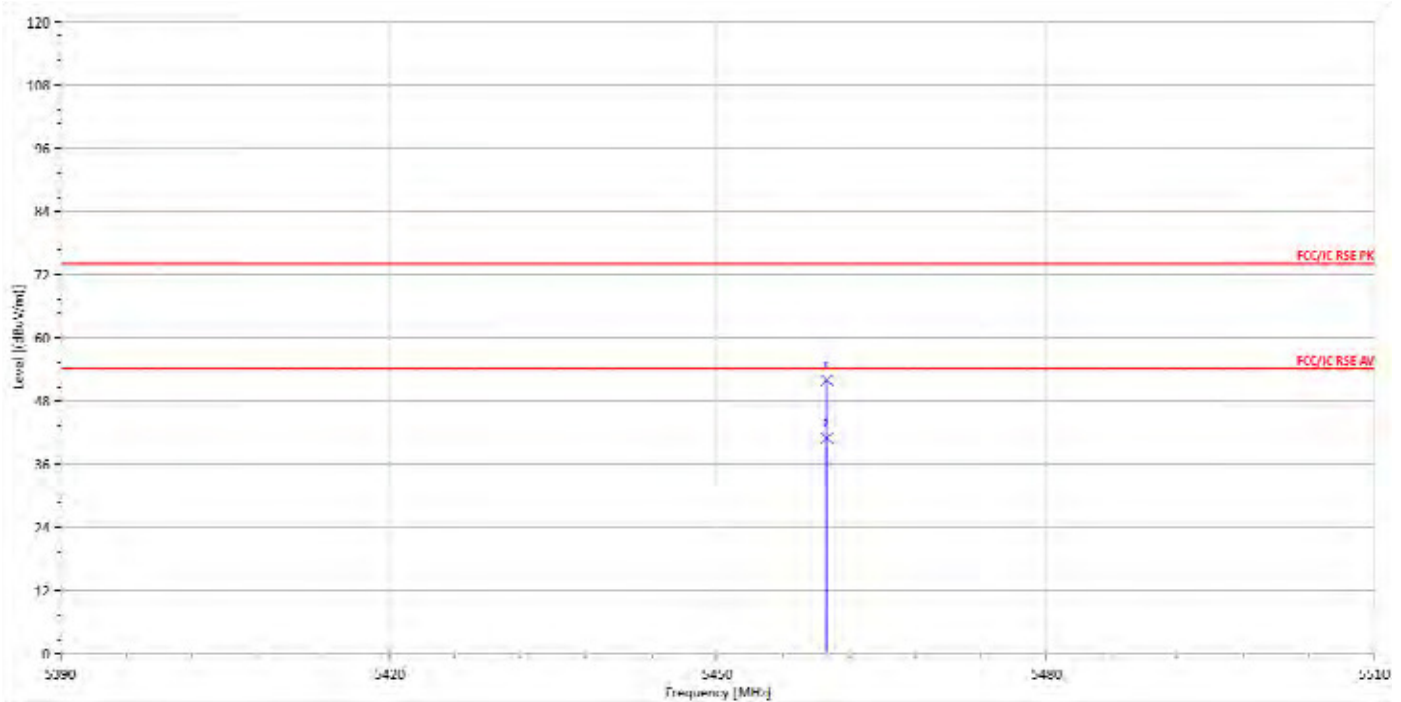
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Operation Mode :	802.11a	Test Date :	2016/11/5
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	E	Peak	42.99	8.88	51.87	74	-22.13
5460.00	E	Average	32.01	8.88	40.89	54	-13.11

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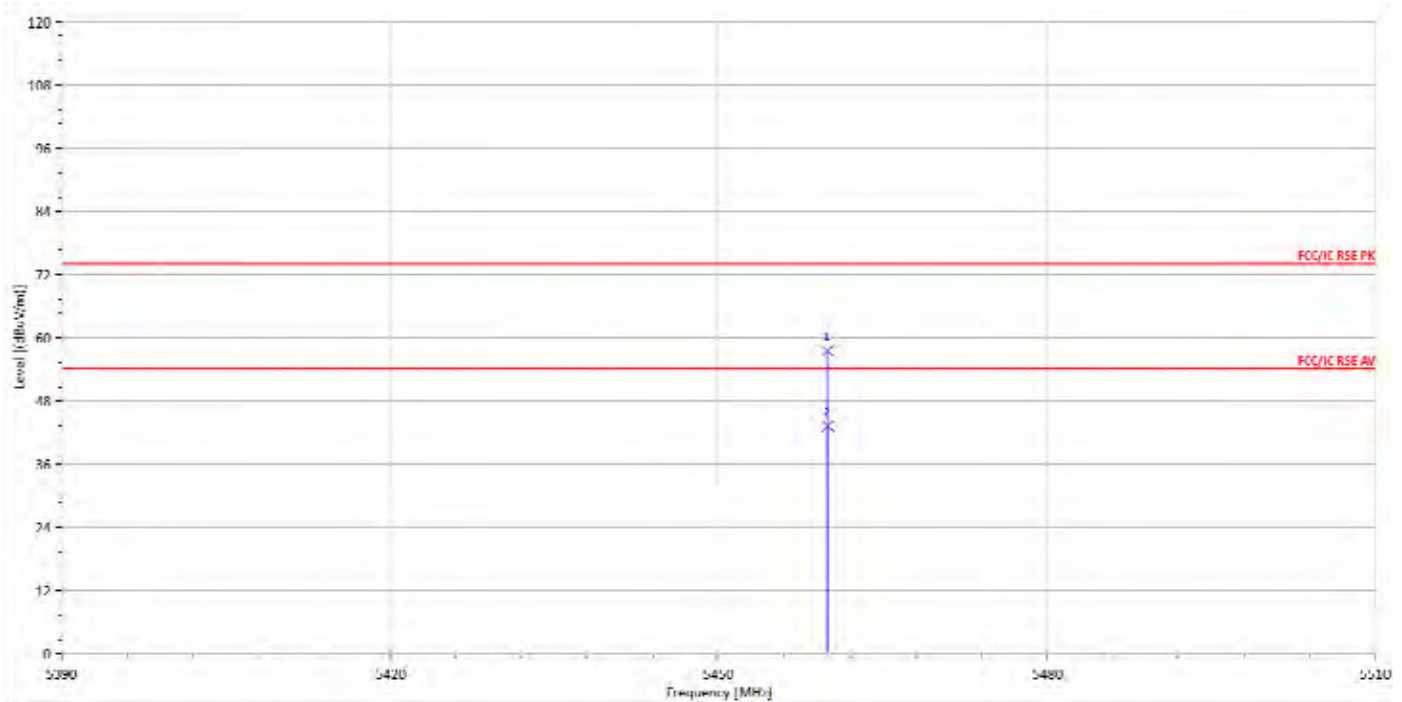
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Operation Mode :	802.11a	Test Date :	2016/11/5
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5460.00	E	Peak	48.59	8.88	57.48	74	-16.52
5460.00	E	Average	34.33	8.88	43.21	54	-10.79

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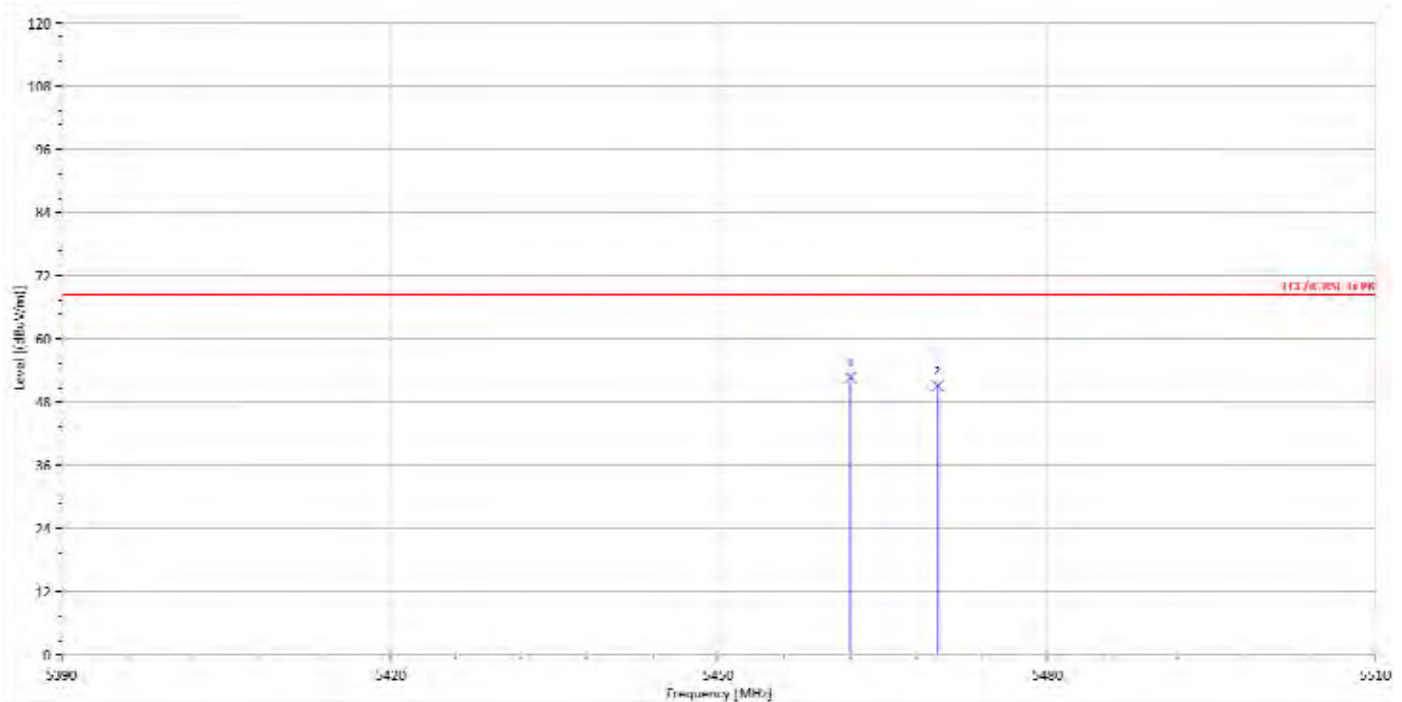
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Operation Mode :	802.11a	Test Date :	2016/11/5
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5462.00	S	Peak	43.71	8.86	52.57	68.3	-15.73
5470.00	E	Peak	42.21	8.79	51.00	68.3	-17.30

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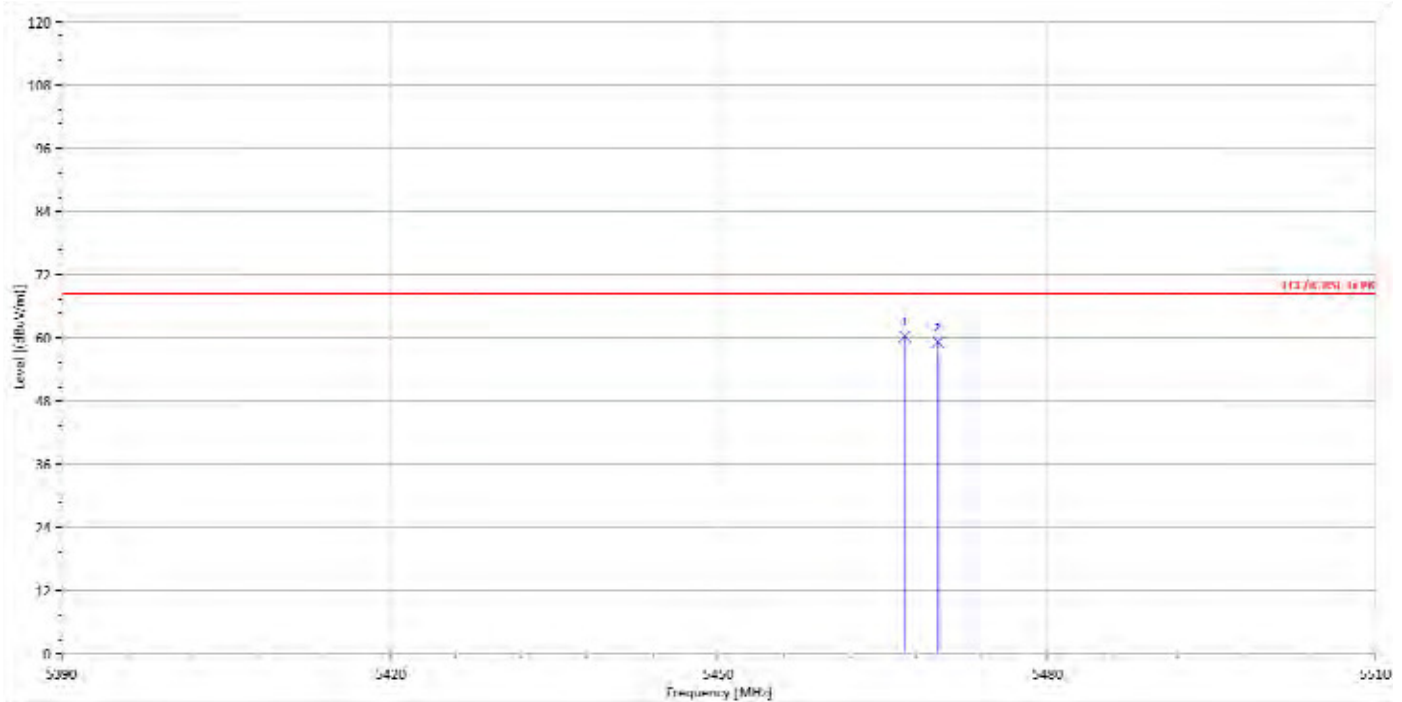
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Operation Mode :	802.11a	Test Date :	2016/11/5
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5467.04	S	Peak	51.50	8.82	60.31	68.3	-7.99
5470.00	E	Peak	50.39	8.79	59.18	68.3	-9.12

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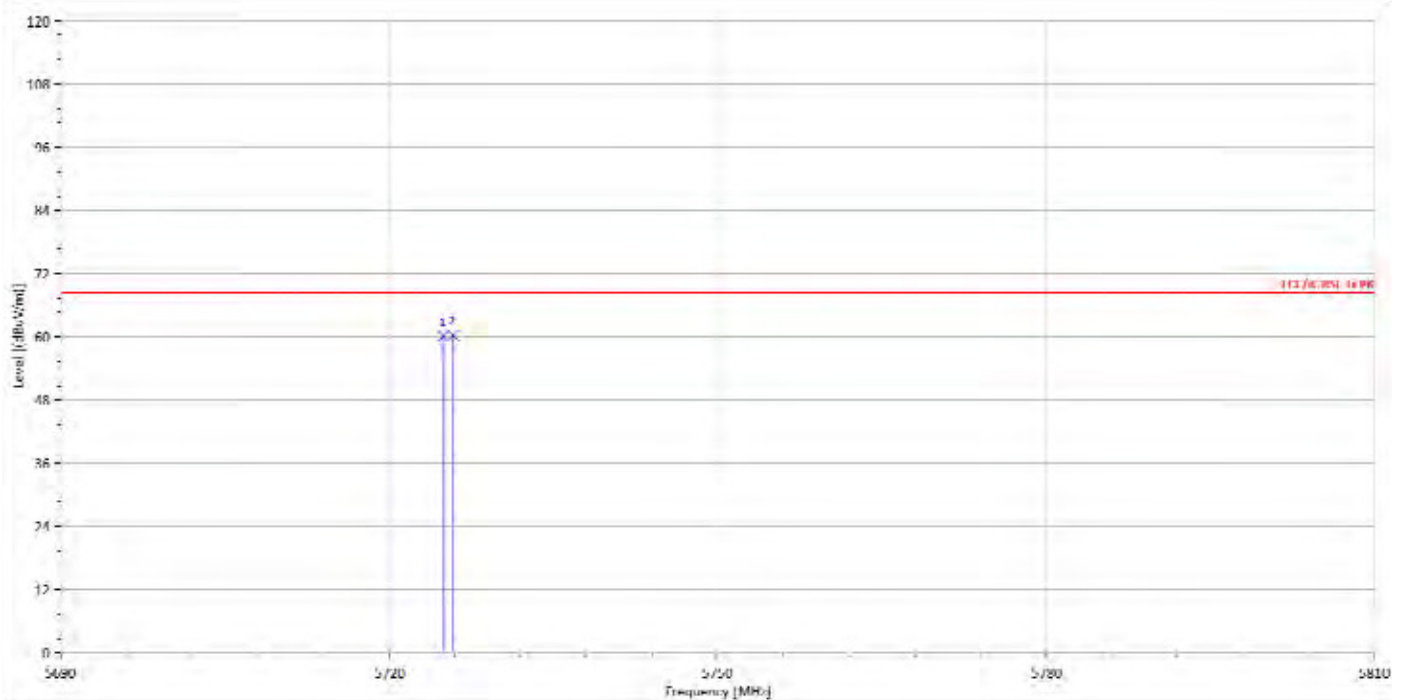
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Operation Mode :	802.11a	Test Date :	2016/11/5
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. 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
5725.00	E	Peak	50.86	9.30	60.16	68.3	-8.14
5725.88	S	Peak	50.94	9.30	60.25	68.3	-8.05

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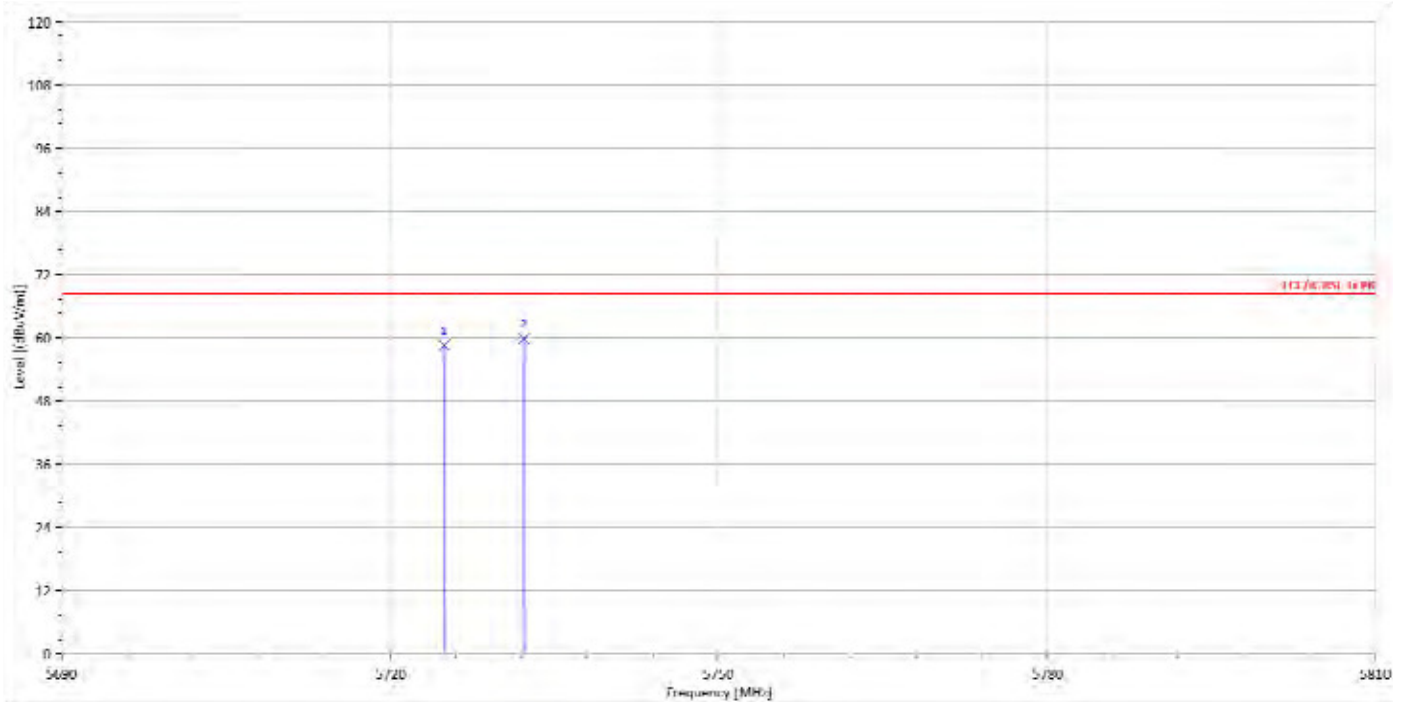
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Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5725.00	E	Peak	49.26	9.30	58.56	68.3	-9.74
5732.24	S	Peak	50.55	9.29	59.83	68.3	-8.47

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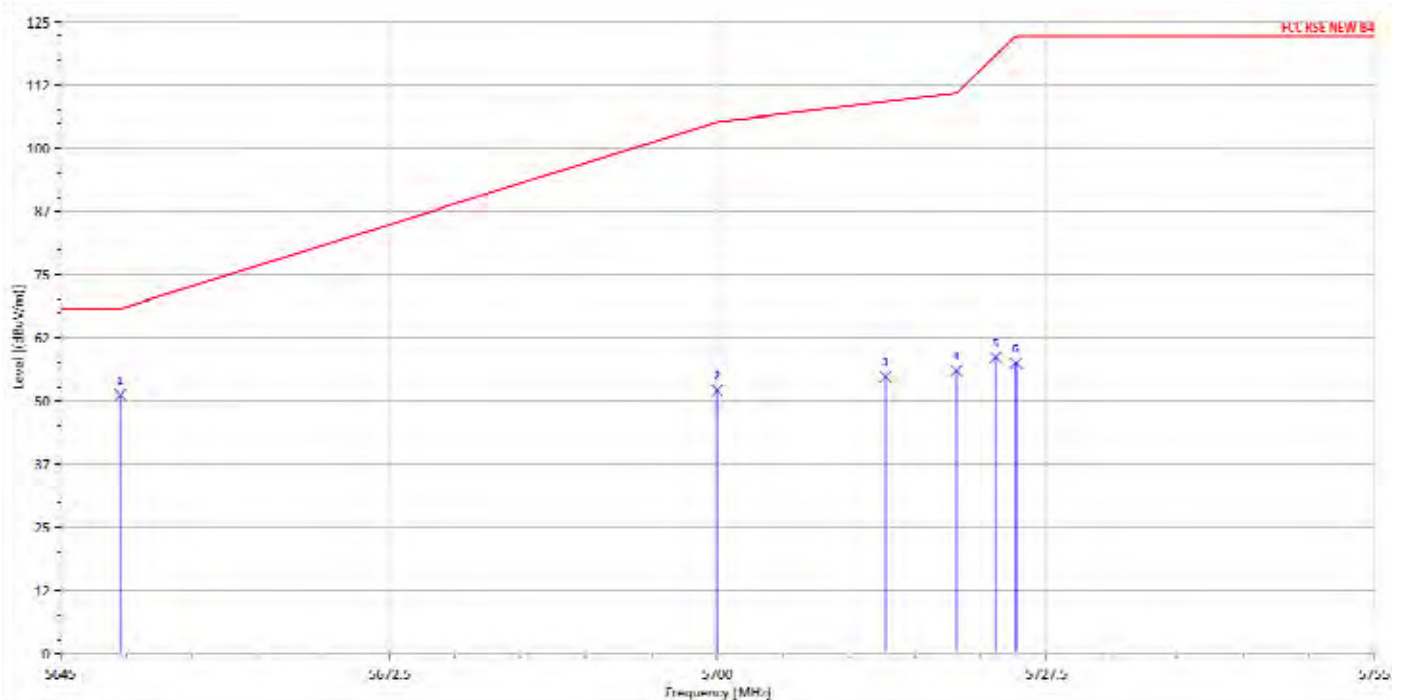
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Operation Mode : 802.11a      Test Date : 2016/11/5  
 Fundamental Frequency : 5745 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
5650.00	S	Peak	41.86	9.33	51.19	68.23	-17.04
5700.00	S	Peak	42.59	9.44	52.03	105.23	-53.20
5714.08	S	Peak	45.44	9.26	54.70	109.1724	-54.47
5720.00	S	Peak	46.67	9.28	55.95	110.83	-54.88
5723.32	S	Peak	49.29	9.29	58.58	118.3992	-59.82
5725.00	E	Peak	48.11	9.30	57.41	122.23	-64.82

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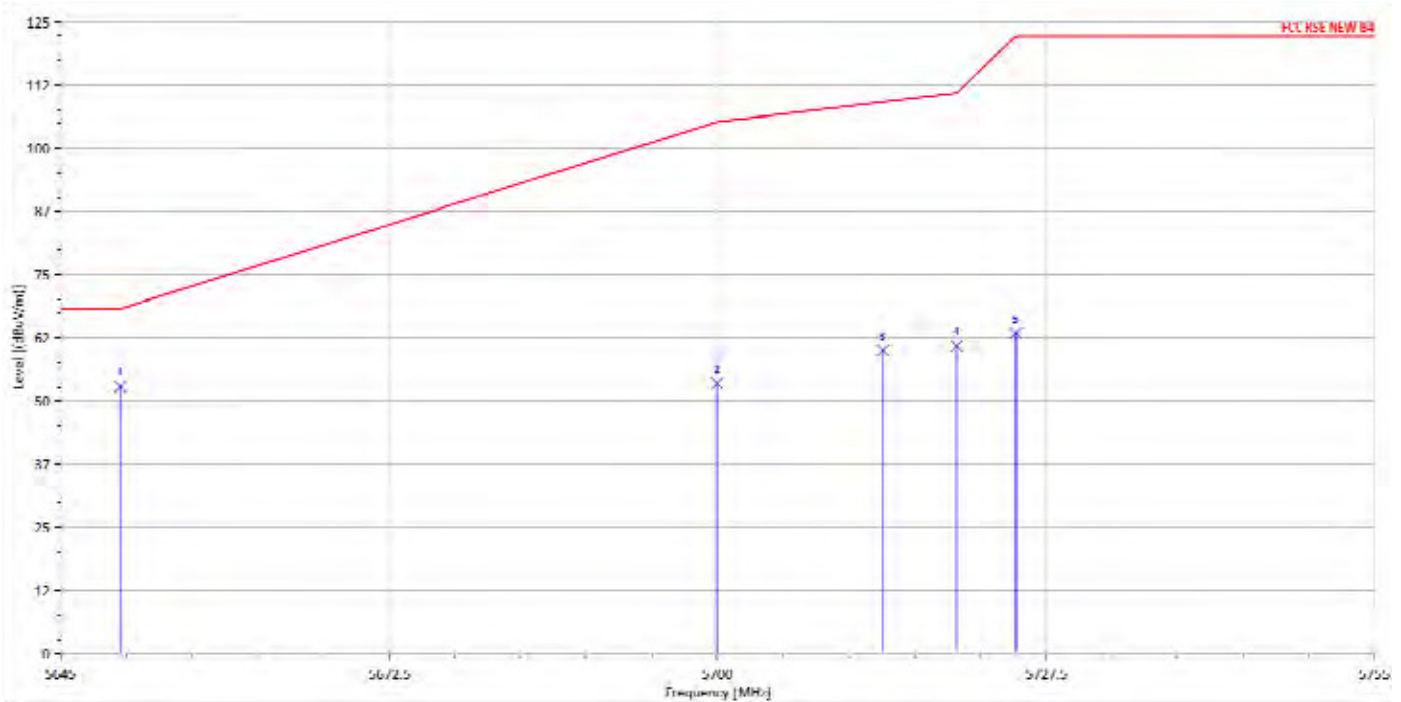
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 Operation Band : BE CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
5650.00	S	Peak	43.42	9.33	52.76	68.23	-15.47
5700.00	S	Peak	43.95	9.44	53.38	105.23	-51.85
5713.86	S	Peak	50.74	9.26	60.00	109.1108	-49.11
5720.00	S	Peak	51.59	9.28	60.87	110.83	-49.96
5725.00	E	Peak	54.12	9.30	63.42	122.23	-58.81

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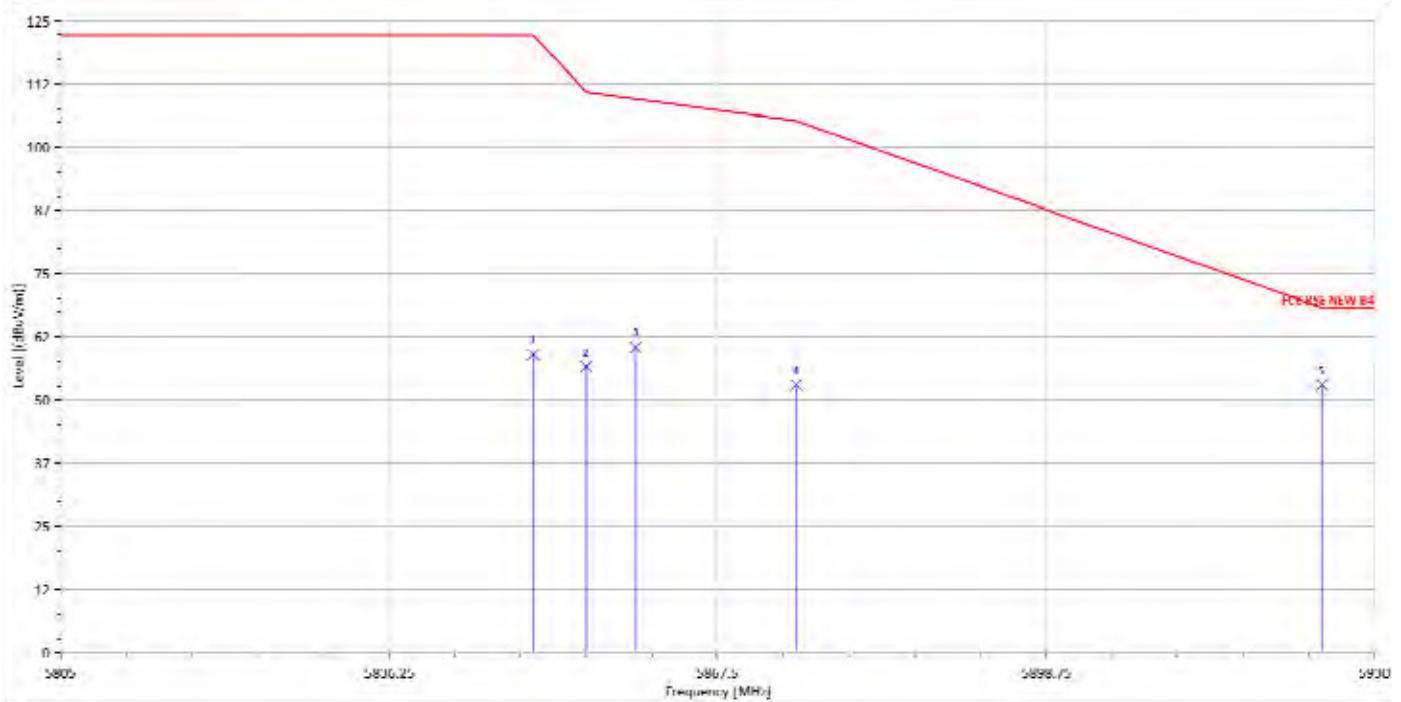
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Operation Mode : 802.11a      Test Date : 2016/11/5  
 Fundamental Frequency : 5825 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
5850.00	E	Peak	49.44	9.49	58.93	122.23	-63.30
5855.00	S	Peak	46.97	9.58	56.55	110.83	-54.28
5859.75	S	Peak	50.73	9.67	60.40	109.5	-49.10
5875.00	S	Peak	43.25	9.63	52.89	105.23	-52.34
5925.00	S	Peak	42.89	10.01	52.91	68.23	-15.32

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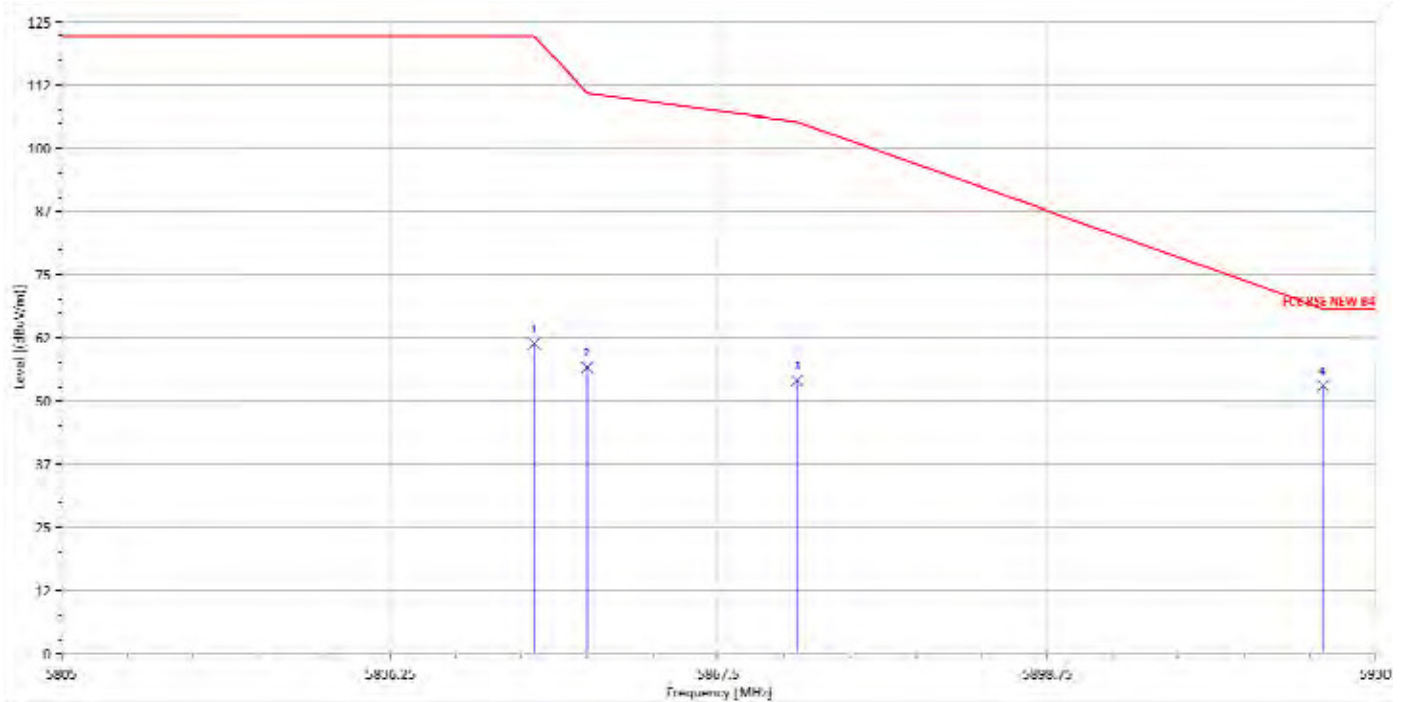
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Operation Mode :	802.11a	Test Date :	2016/11/5
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5850.00	E	Peak	51.85	9.49	61.34	122.23	-60.89
5855.00	S	Peak	46.99	9.58	56.57	110.83	-54.26
5875.00	S	Peak	44.31	9.63	53.94	105.23	-51.29
5925.00	S	Peak	42.92	10.01	52.94	68.23	-15.29

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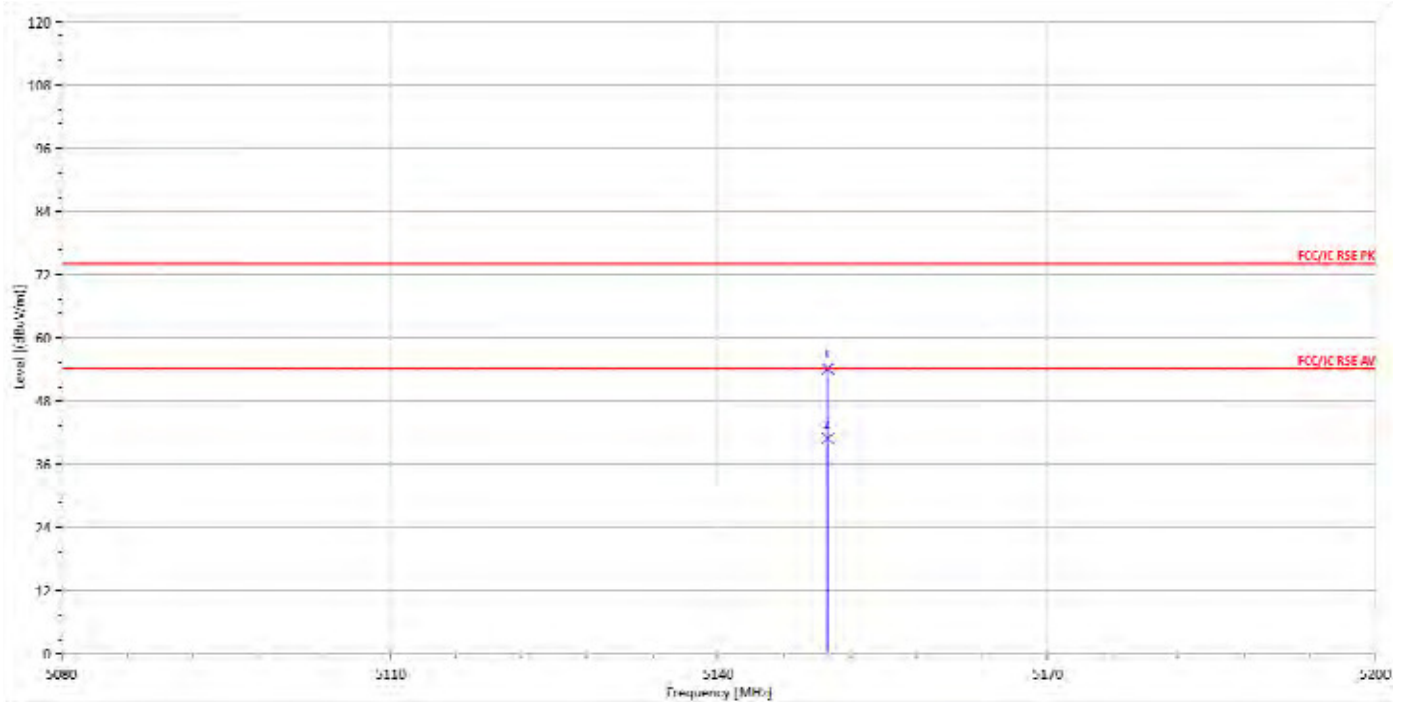
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### 802.11n20 HT mode

Operation Mode :	802.11n20	Test Date :	2016/11/5
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
5150.00	E	Peak	45.86	8.19	54.05	74	-19.95
5150.00	E	Average	32.66	8.19	40.85	54	-13.15

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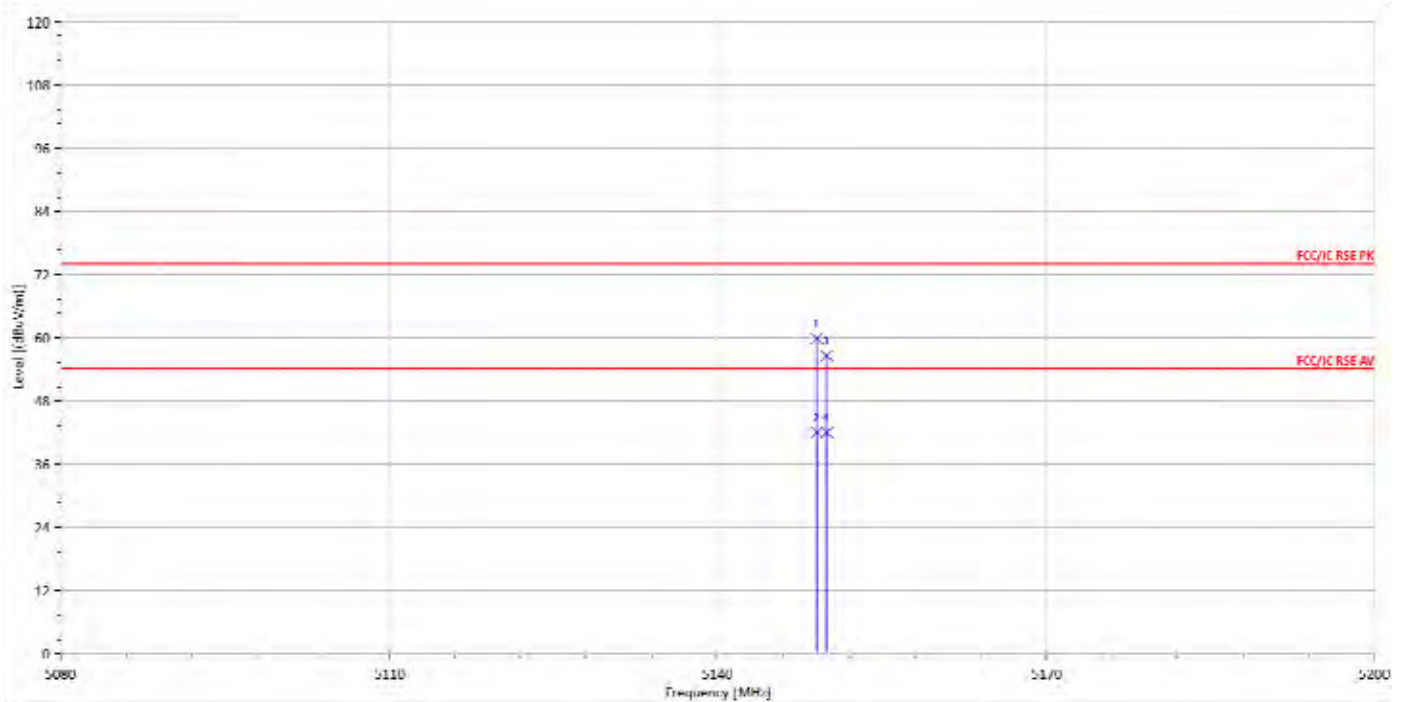
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Operation Mode : 802.11n20 Test Date : 2016/11/5  
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. 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
5149.12	S	Peak	51.68	8.19	59.87	74	-14.13
5149.12	S	Average	33.84	8.19	42.03	54	-11.97
5150.00	E	Peak	48.36	8.19	56.56	74	-17.44
5150.00	E	Average	33.84	8.19	42.03	54	-11.97

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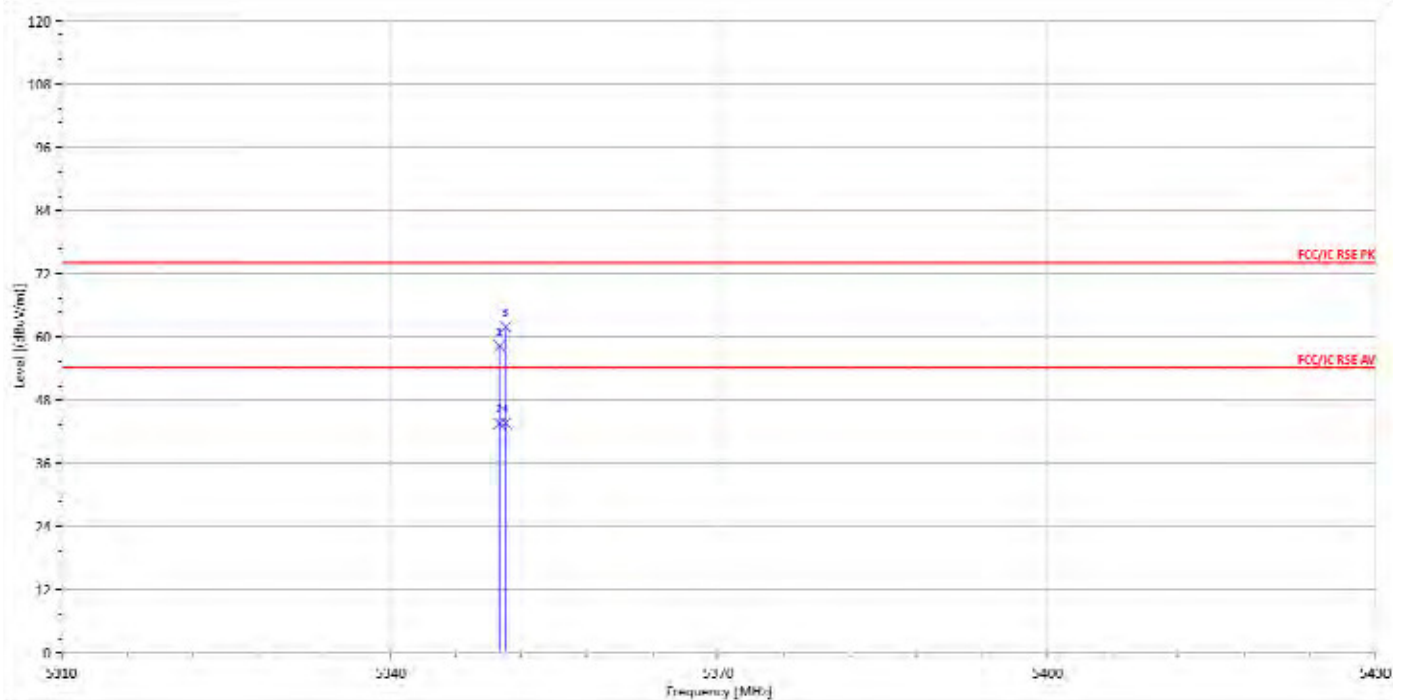
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Operation Mode :	802.11n20	Test Date :	2016/11/5
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. 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
5350.00	E	Peak	49.29	8.96	58.25	74	-15.75
5350.00	E	Average	34.57	8.96	43.53	54	-10.47
5350.56	S	Peak	52.93	8.97	61.90	74	-12.10
5350.56	S	Average	34.64	8.97	43.61	54	-10.39

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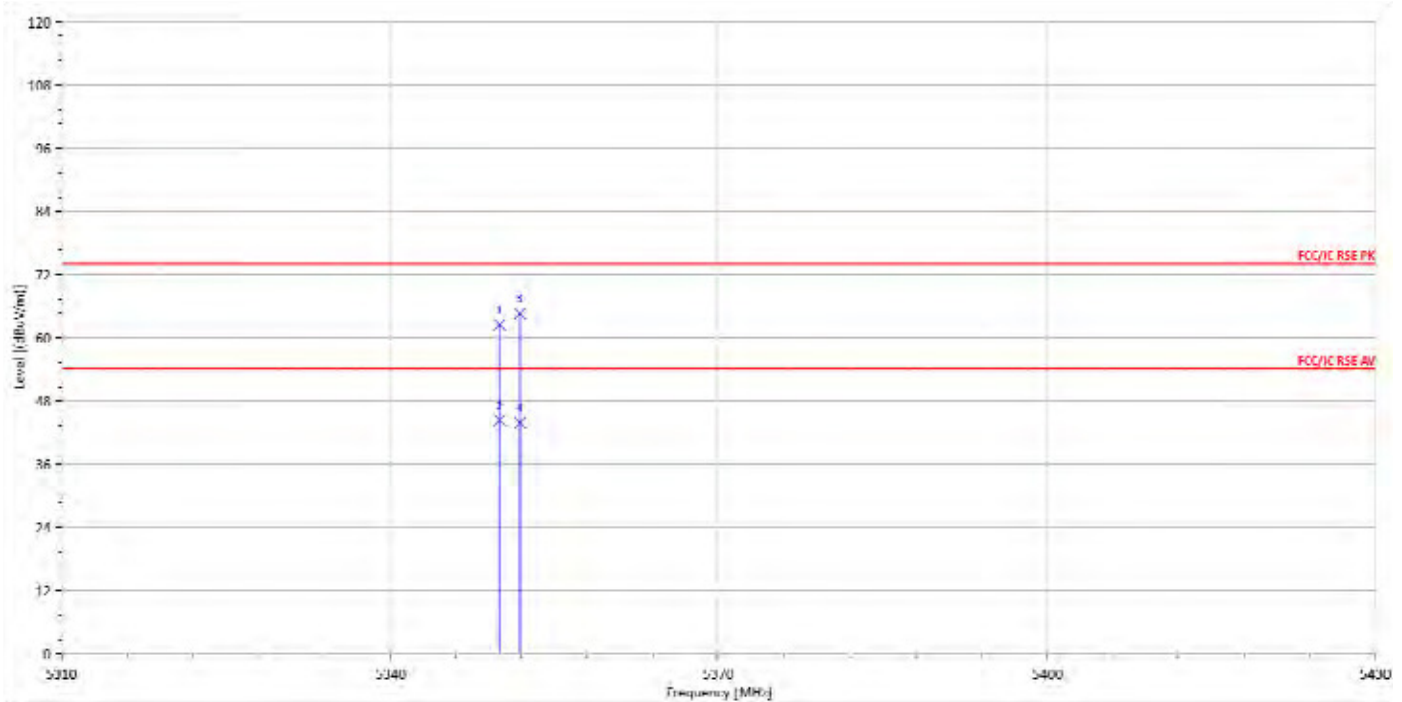
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Operation Mode :	802.11n20	Test Date :	2016/11/5
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5350.00	E	Peak	53.56	8.96	62.52	74	-11.48
5350.00	E	Average	35.39	8.96	44.35	54	-9.65
5351.88	S	Peak	55.66	8.99	64.66	74	-9.34
5351.88	S	Average	34.84	8.99	43.83	54	-10.17

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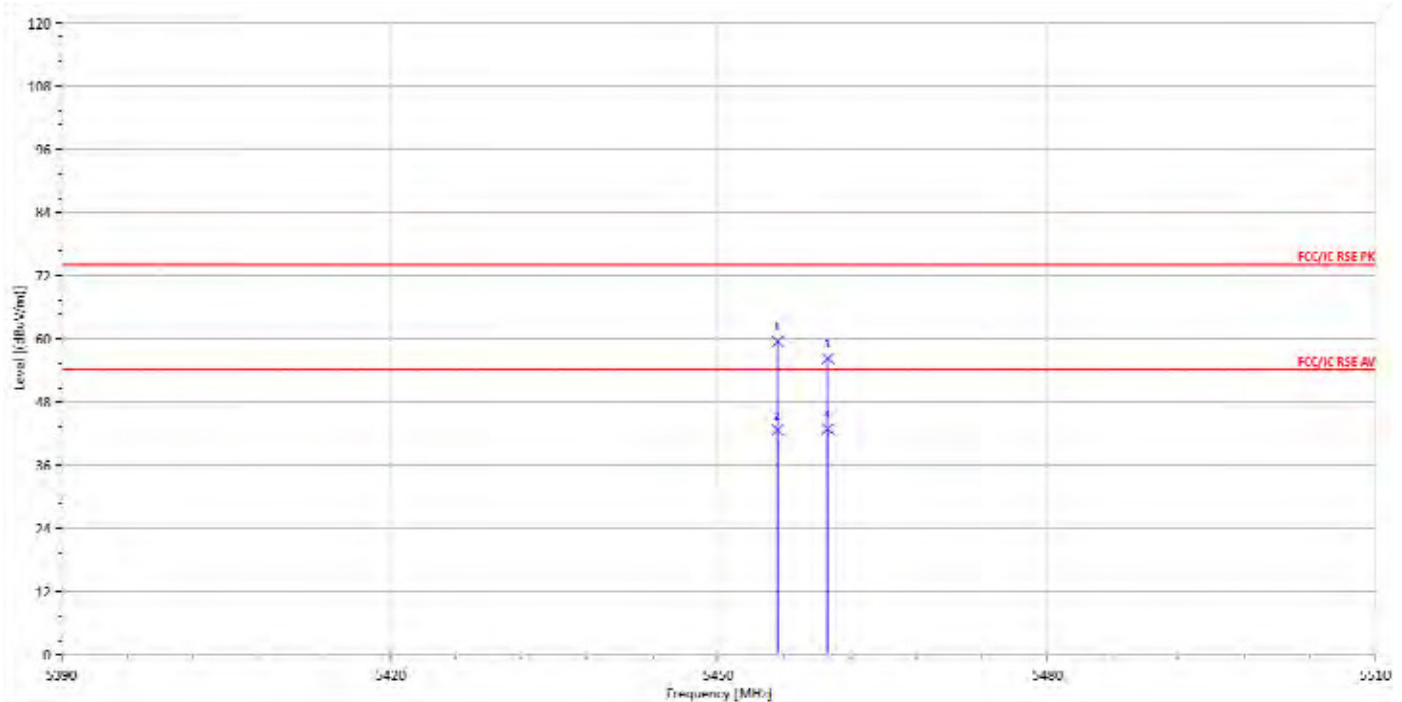
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Operation Mode : 802.11n20 Test Date : 2016/11/5  
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5455.40	S	Peak	50.56	8.93	59.49	74	-14.51
5455.40	S	Average	33.77	8.93	42.70	54	-11.30
5460.00	E	Peak	47.32	8.88	56.20	74	-17.80
5460.00	E	Average	33.98	8.88	42.86	54	-11.14

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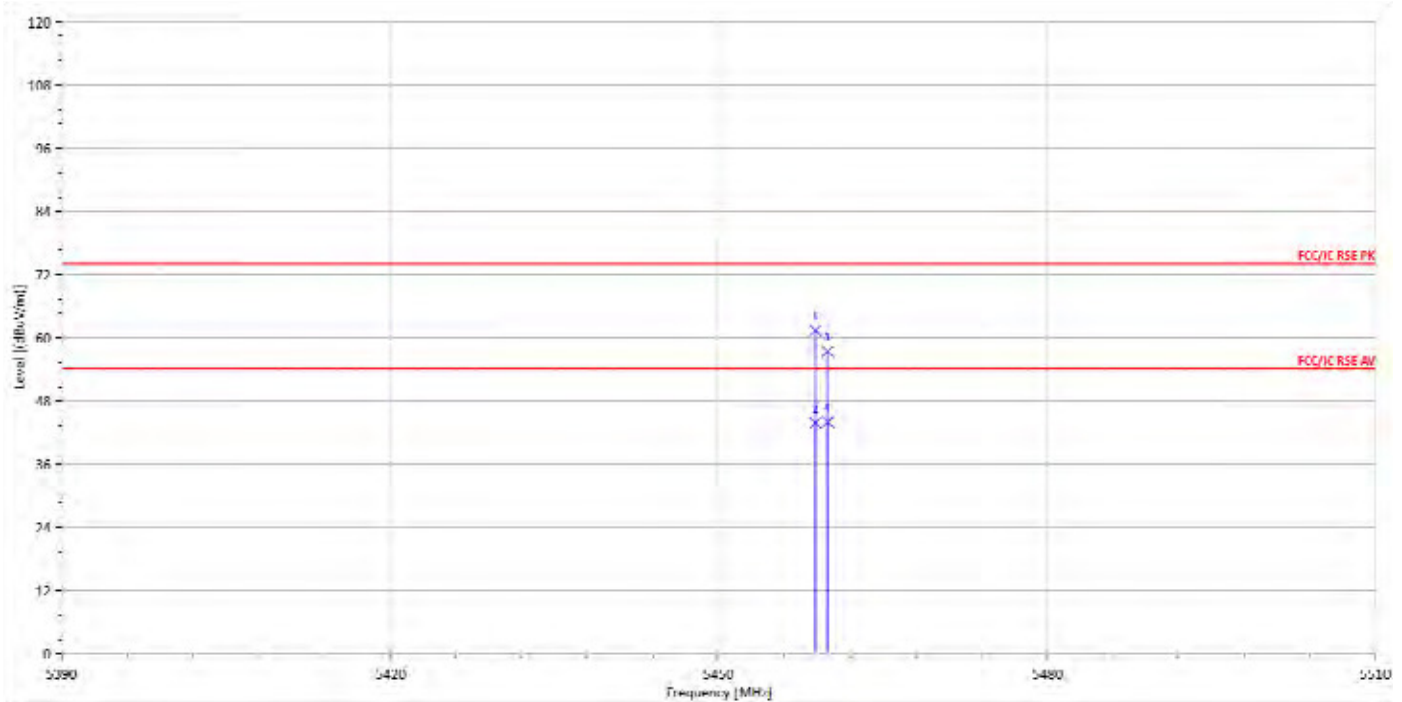
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Operation Mode :	802.11n20	Test Date :	2016/11/5
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5458.88	S	Peak	52.53	8.89	61.42	74	-12.58
5458.88	S	Average	34.93	8.89	43.82	54	-10.18
5460.00	E	Peak	48.52	8.88	57.40	74	-16.60
5460.00	E	Average	35.12	8.88	44.00	54	-10.00

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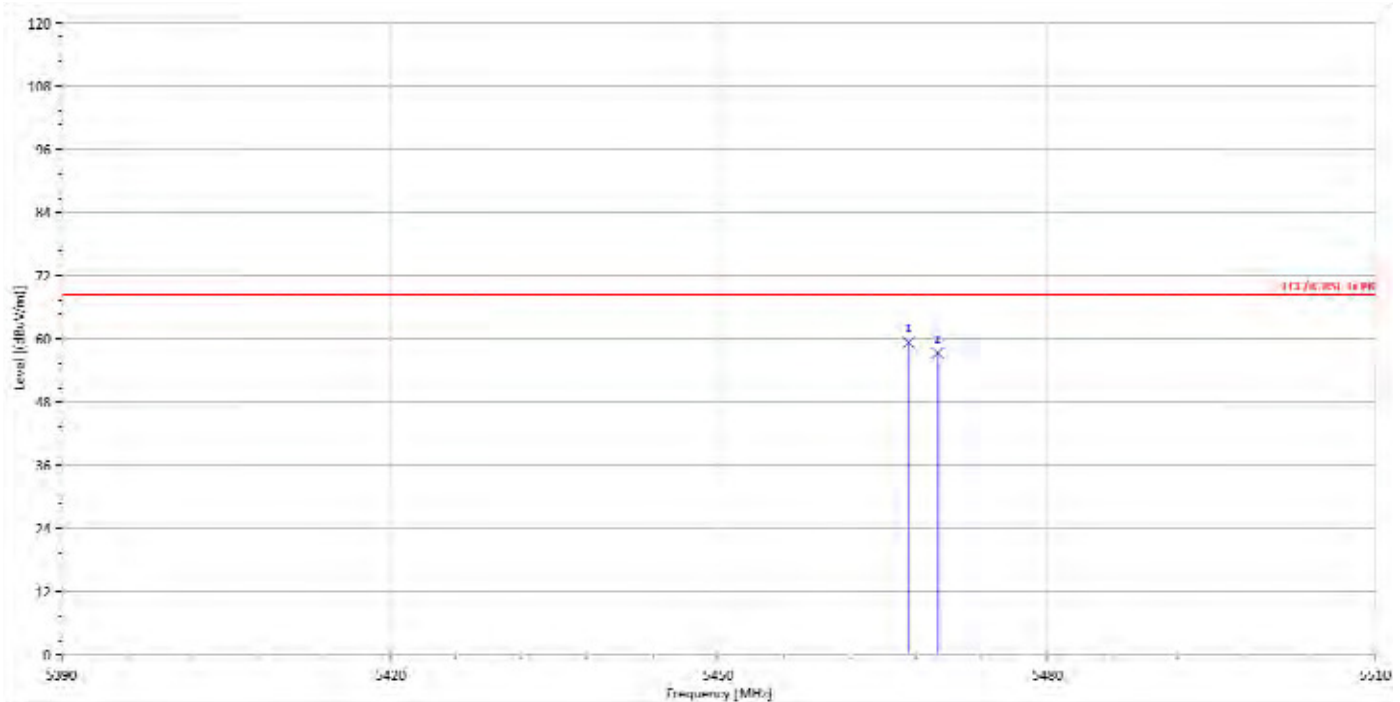
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Operation Mode :	802.11n20	Test Date :	2016/11/5
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5467.40	S	Peak	50.48	8.81	59.29	68.3	-9.01
5470.00	E	Peak	48.45	8.79	57.23	68.3	-11.07

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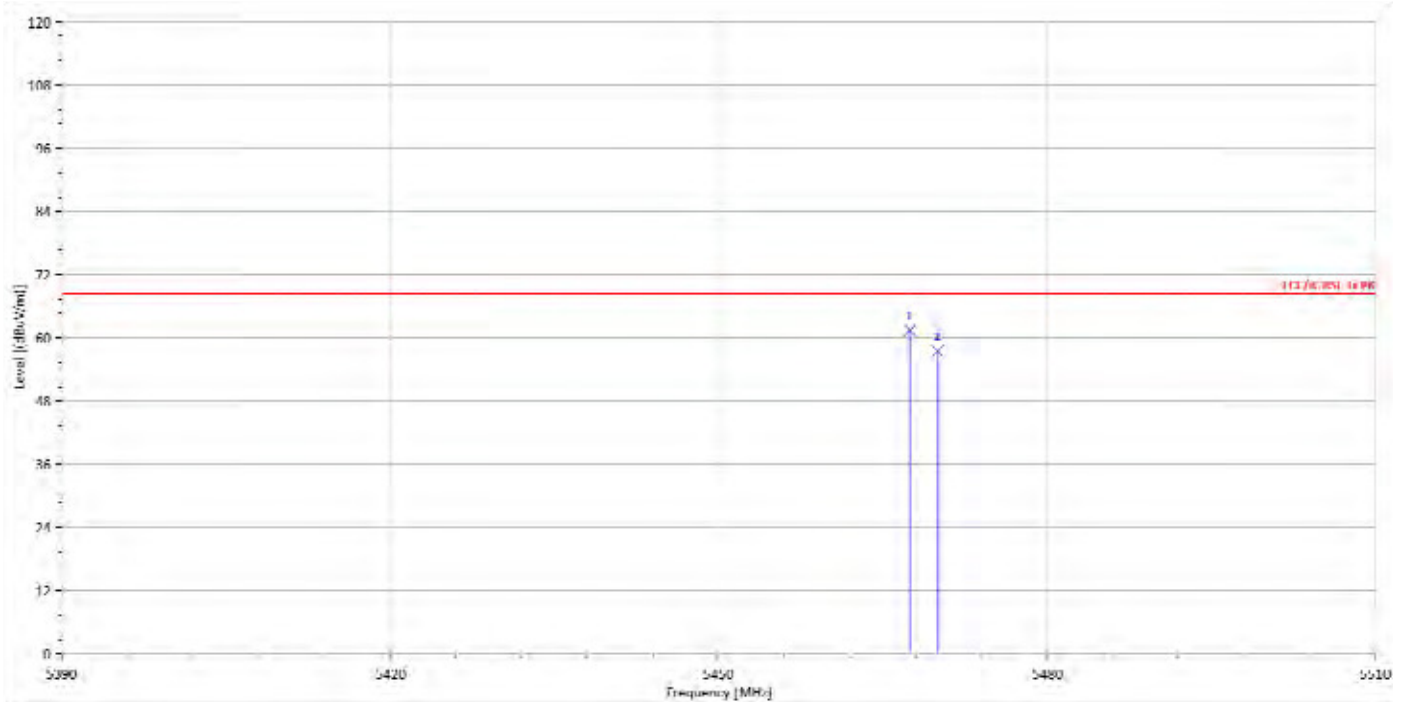
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Operation Mode :	802.11n20	Test Date :	2016/11/5
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5467.52	S	Peak	52.62	8.81	61.43	68.3	-6.87
5470.00	E	Peak	48.69	8.79	57.48	68.3	-10.82

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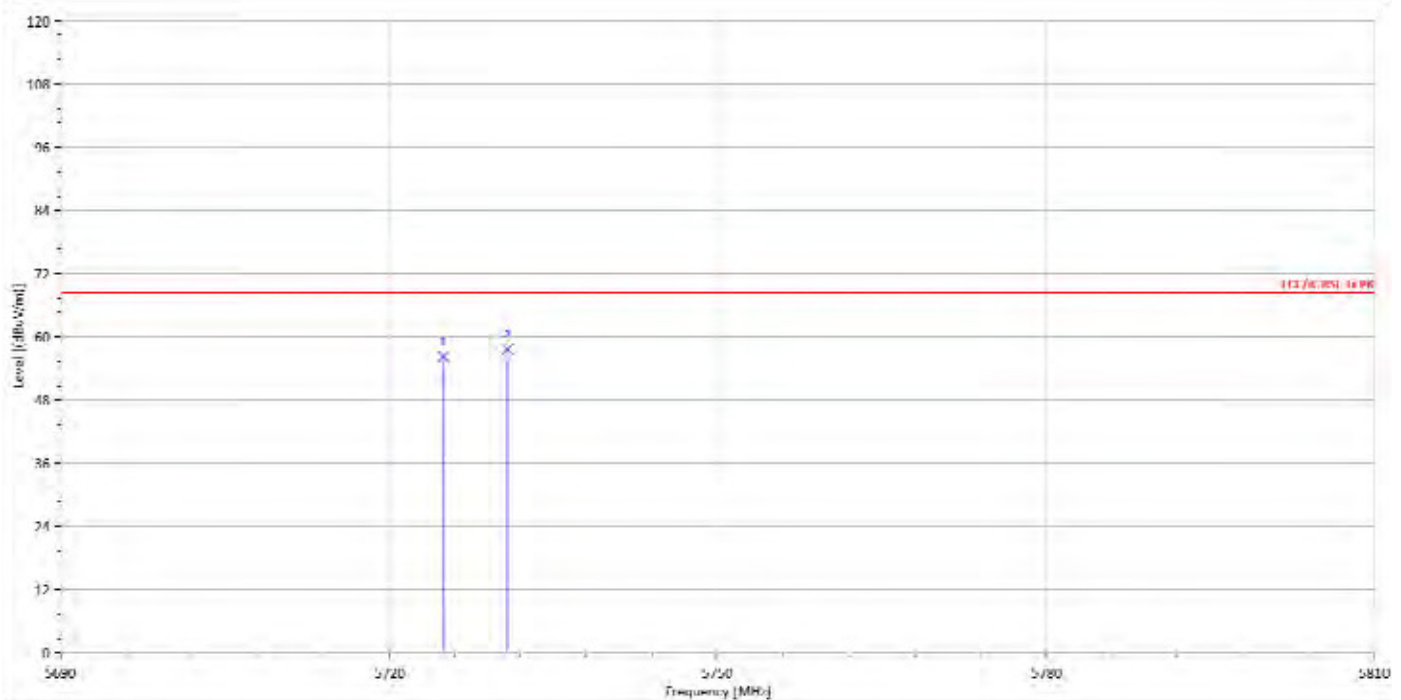
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Operation Mode : 802.11n20      Test Date : 2016/11/5  
 Fundamental Frequency : 5700 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



Freq. 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
5725.00	E	Peak	46.88	9.30	56.18	68.3	-12.12
5730.80	S	Peak	48.33	9.29	57.63	68.3	-10.67

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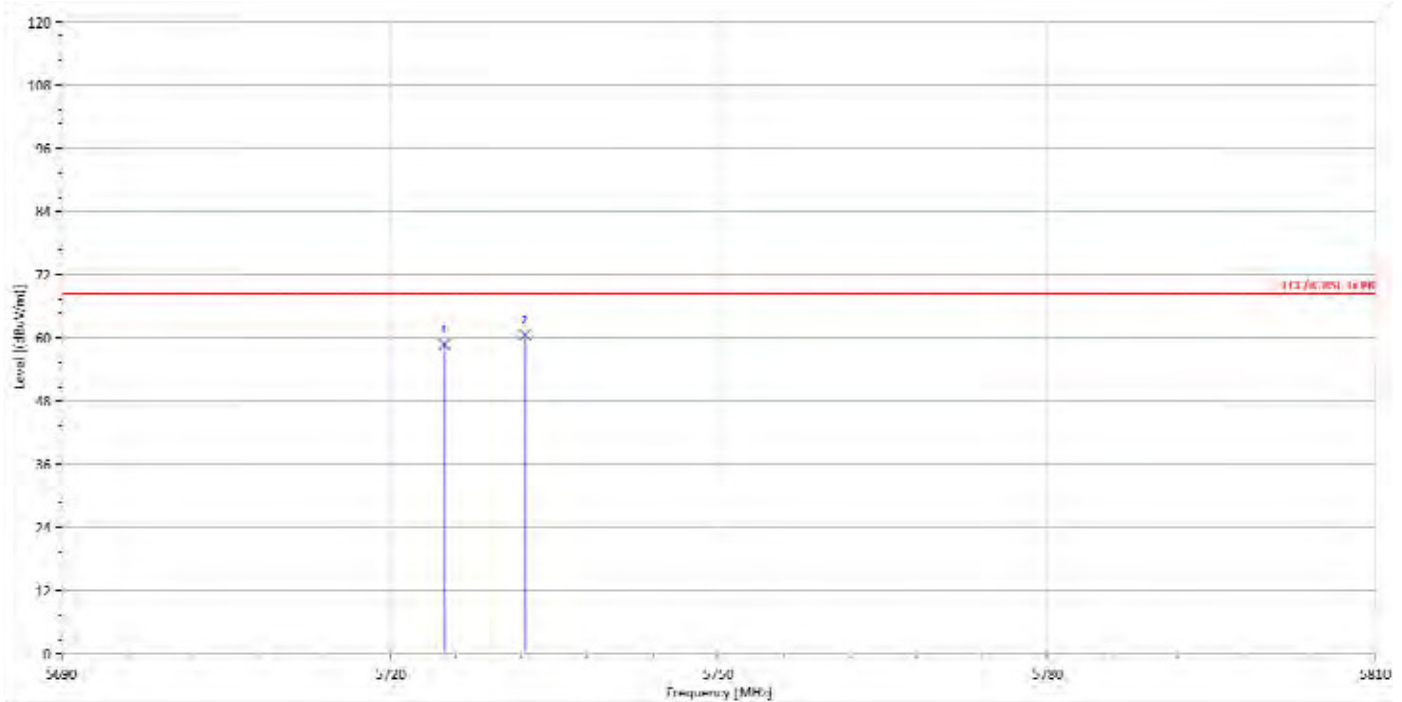
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Operation Mode :	802.11n20	Test Date :	2016/11/5
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5725.00	E	Peak	49.41	9.30	58.71	68.3	-9.59
5732.36	S	Peak	51.27	9.29	60.56	68.3	-7.74

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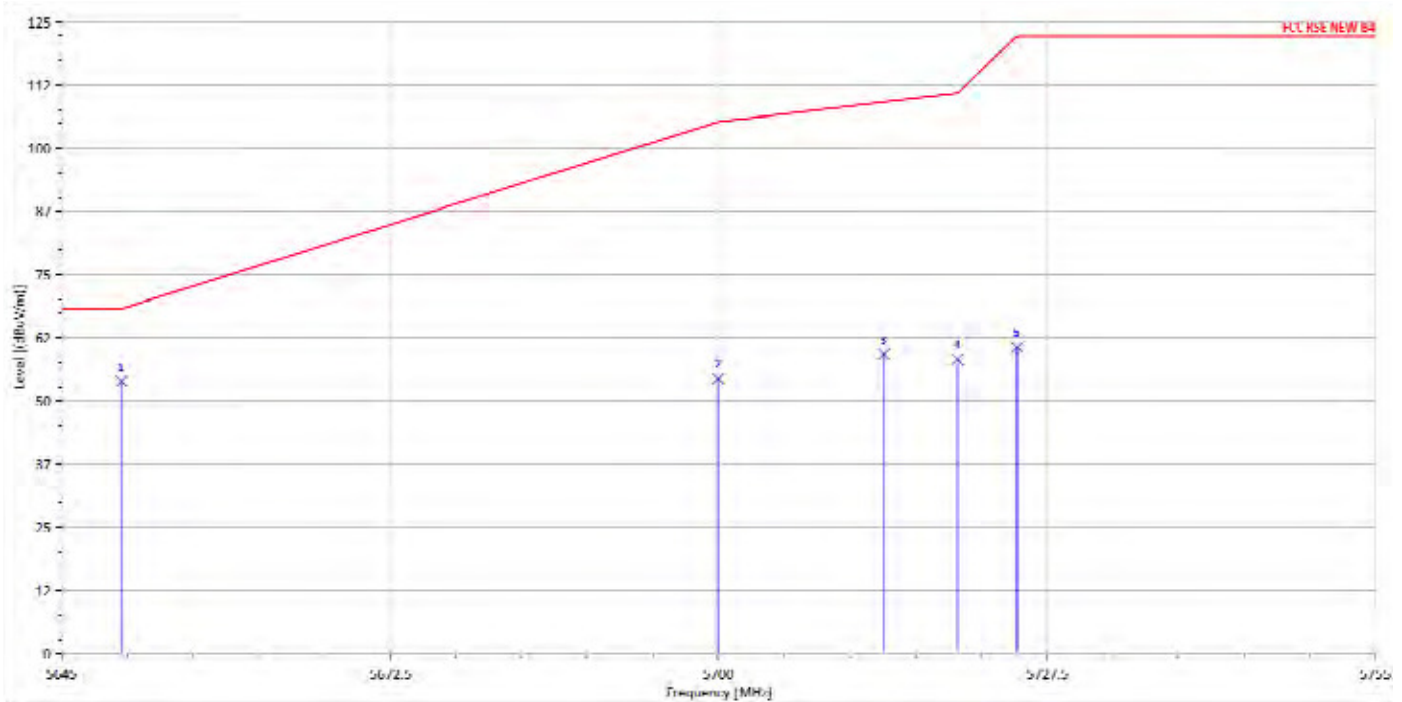
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Operation Mode : 802.11n20 Test Date : 2016/11/5  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5650.00	S	Peak	44.48	9.33	53.82	68.23	-14.41
5700.00	S	Peak	44.85	9.44	54.28	105.23	-50.95
5713.86	S	Peak	49.99	9.26	59.24	109.1108	-49.87
5720.00	S	Peak	48.92	9.28	58.20	110.83	-52.63
5725.00	E	Peak	51.29	9.30	60.59	122.23	-61.64

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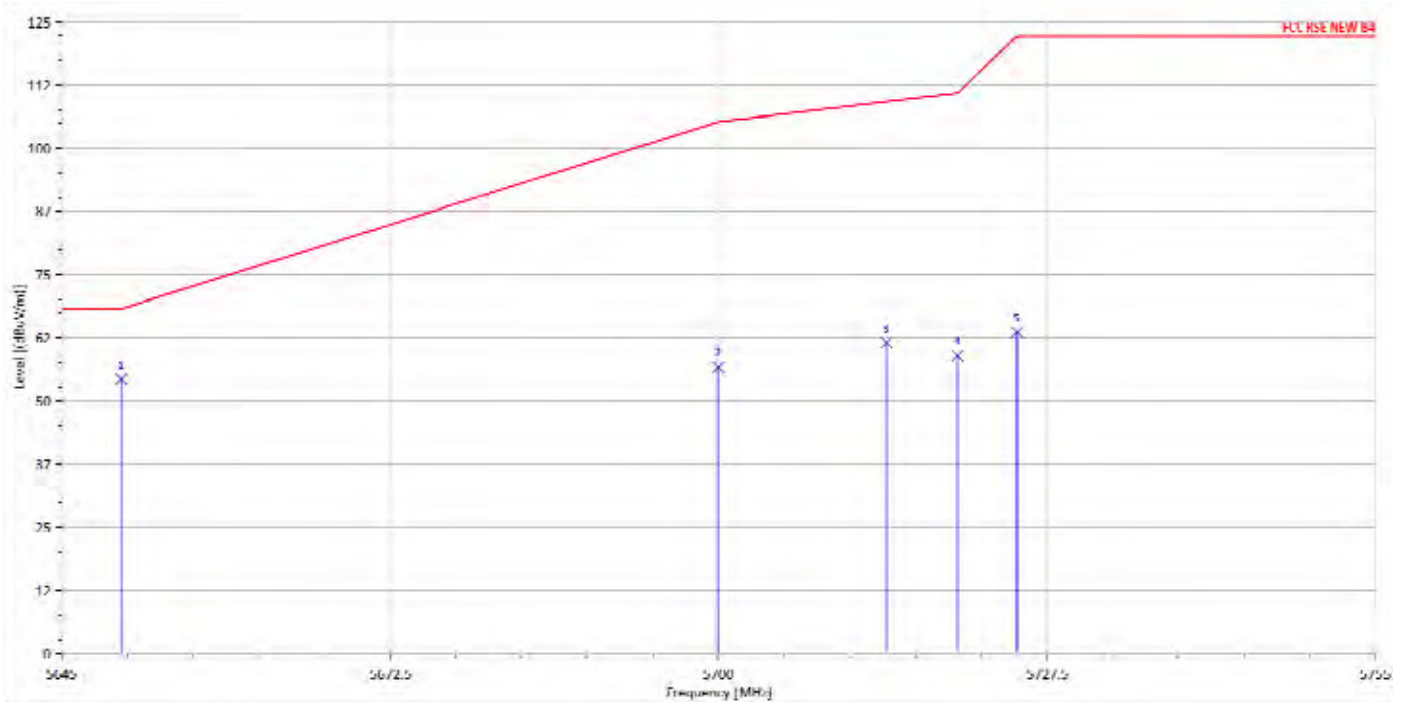
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Operation Mode : 802.11n20 Test Date : 2016/11/5  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5650.00	S	Peak	44.92	9.33	54.26	68.23	-13.97
5700.00	S	Peak	47.16	9.44	56.60	105.23	-48.63
5714.08	S	Peak	52.25	9.26	61.50	109.1724	-47.67
5720.00	S	Peak	49.64	9.28	58.92	110.83	-51.91
5725.00	E	Peak	54.31	9.30	63.61	122.23	-58.62

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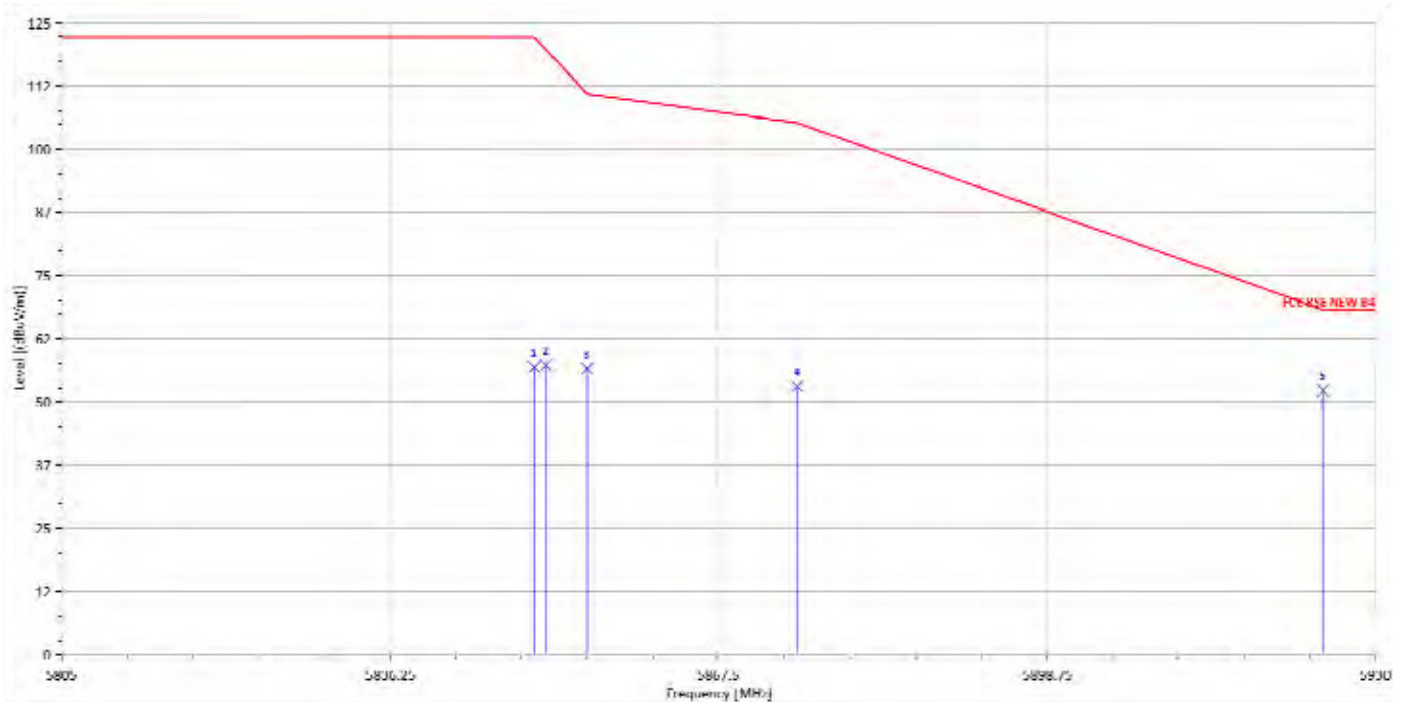
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Operation Mode : 802.11n20 Test Date : 2016/11/5  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH High Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5850.00	E	Peak	47.34	9.49	56.82	122.23	-65.41
5851.13	S	Peak	47.69	9.51	57.20	119.665	-62.46
5855.00	S	Peak	46.92	9.58	56.51	110.83	-54.32
5875.00	S	Peak	43.37	9.63	53.00	105.23	-52.23
5925.00	S	Peak	42.22	10.01	52.23	68.23	-16.00

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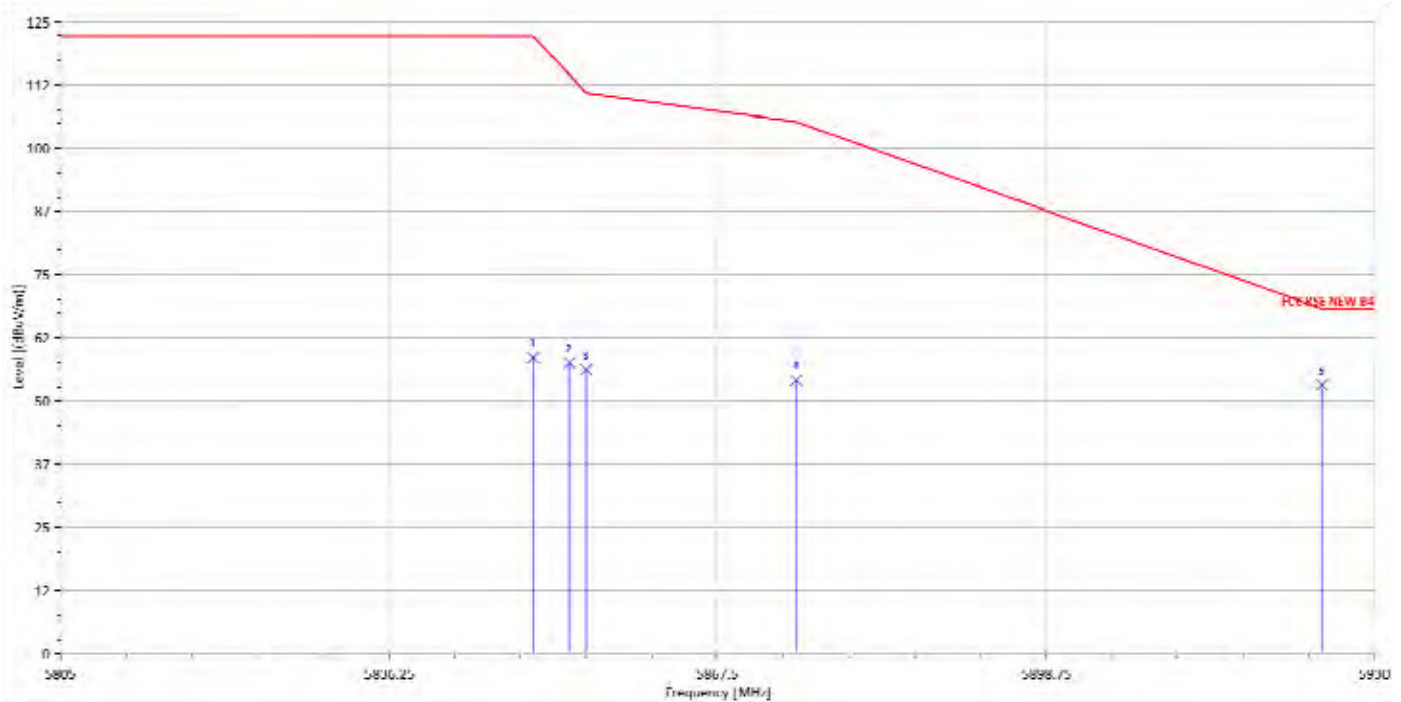
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Operation Mode : 802.11n20      Test Date : 2016/11/5  
 Fundamental Frequency : 5825 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
5850.00	E	Peak	49.01	9.49	58.50	122.23	-63.73
5853.38	S	Peak	47.94	9.55	57.49	114.535	-57.04
5855.00	S	Peak	46.52	9.58	56.10	110.83	-54.73
5875.00	S	Peak	44.33	9.63	53.97	105.23	-51.26
5925.00	S	Peak	43.07	10.01	53.09	68.23	-15.14

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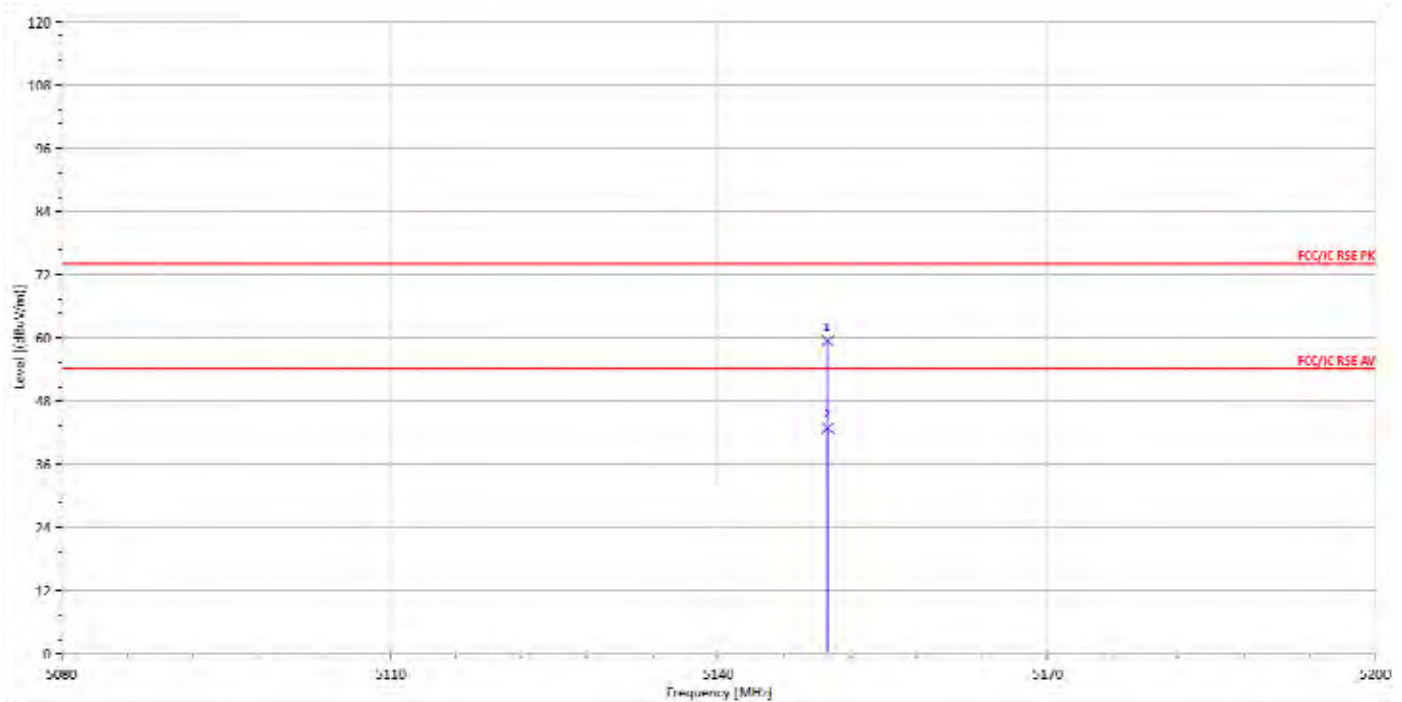
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### 802.11n40 HT mode

Operation Mode :	802.11n40	Test Date :	2016/11/5
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5150.00	E	Peak	51.20	8.19	59.39	74	-14.61
5150.00	E	Average	34.65	8.19	42.84	54	-11.16

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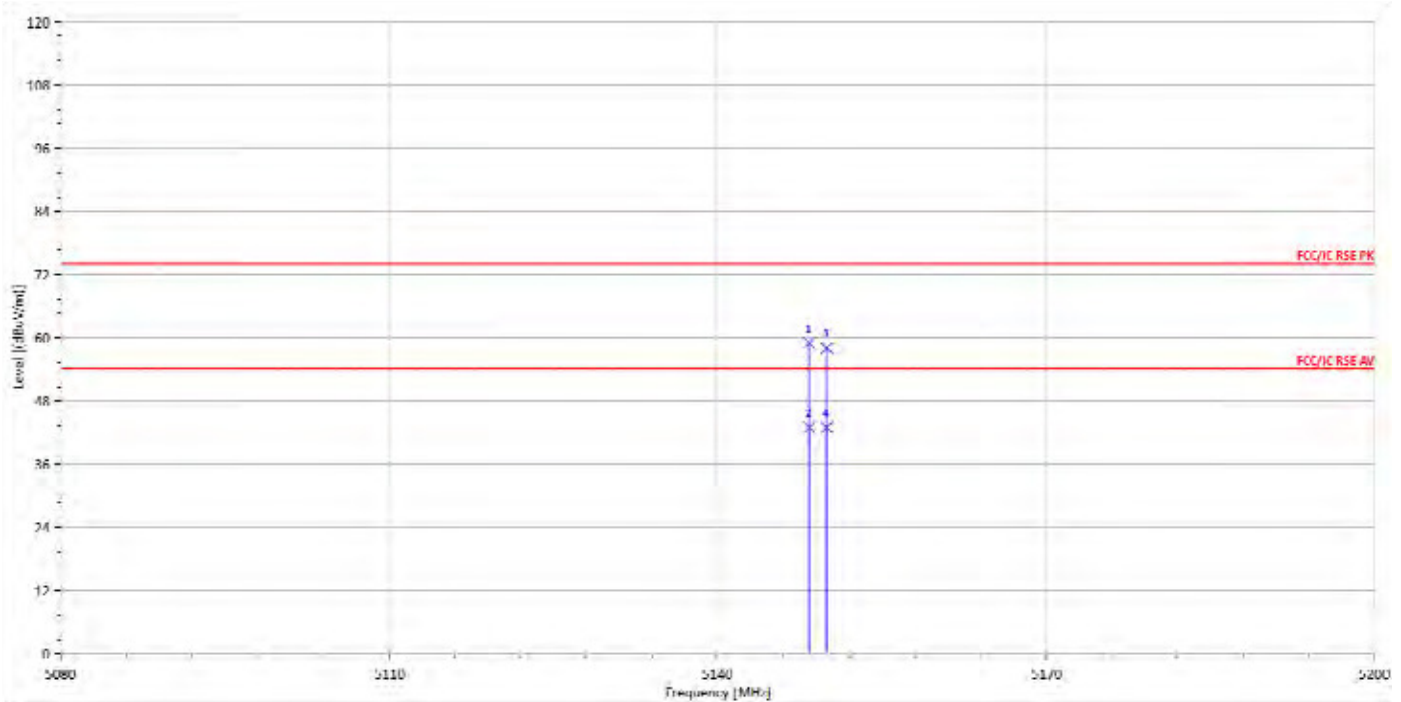
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Operation Mode : 802.11n40 Test Date : 2016/11/5  
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5148.40	S	Peak	50.78	8.18	58.96	74	-15.04
5148.40	S	Average	34.77	8.18	42.95	54	-11.05
5150.00	E	Peak	49.86	8.19	58.05	74	-15.95
5150.00	E	Average	34.77	8.19	42.96	54	-11.04

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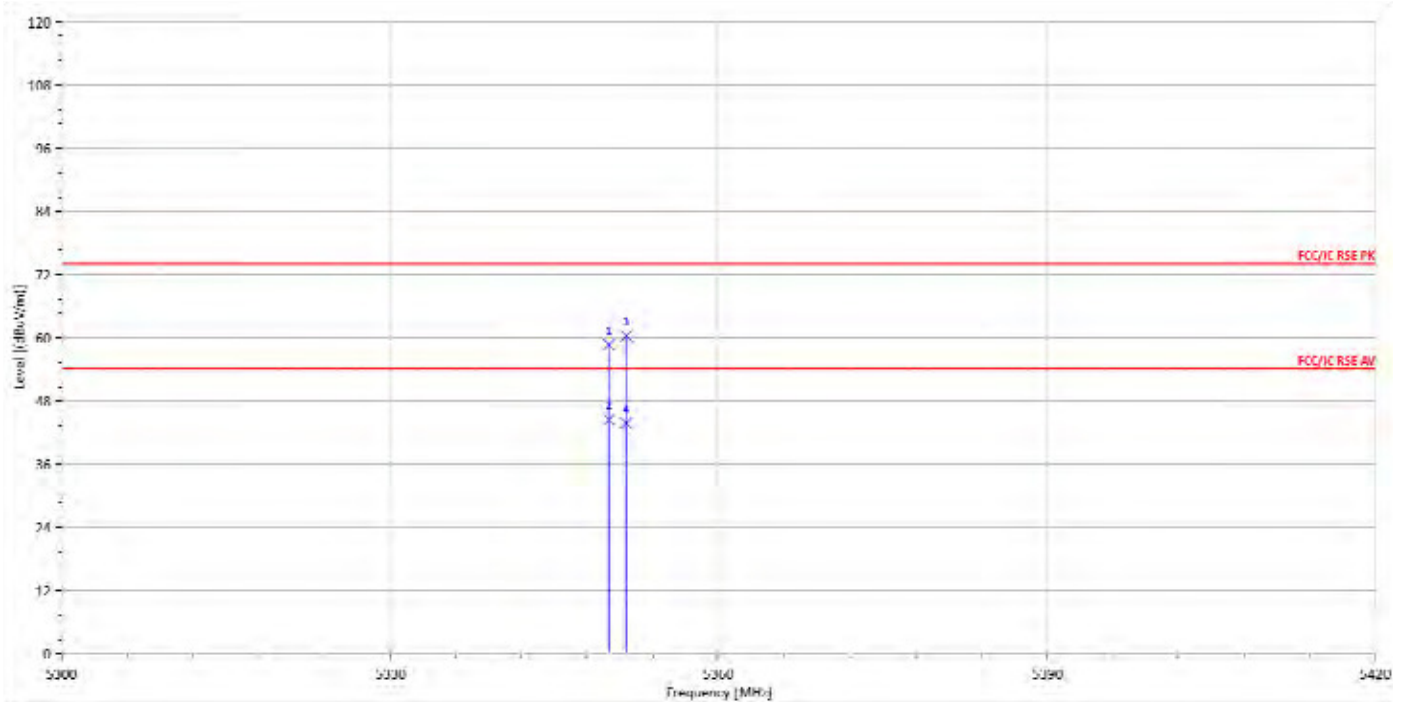
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Operation Mode :	802.11n40	Test Date :	2016/11/5
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	49.72	8.96	58.68	74	-15.32
5350.00	E	Average	35.46	8.96	44.42	54	-9.58
5351.60	S	Peak	51.36	8.99	60.35	74	-13.65
5351.60	S	Average	34.80	8.99	43.79	54	-10.21

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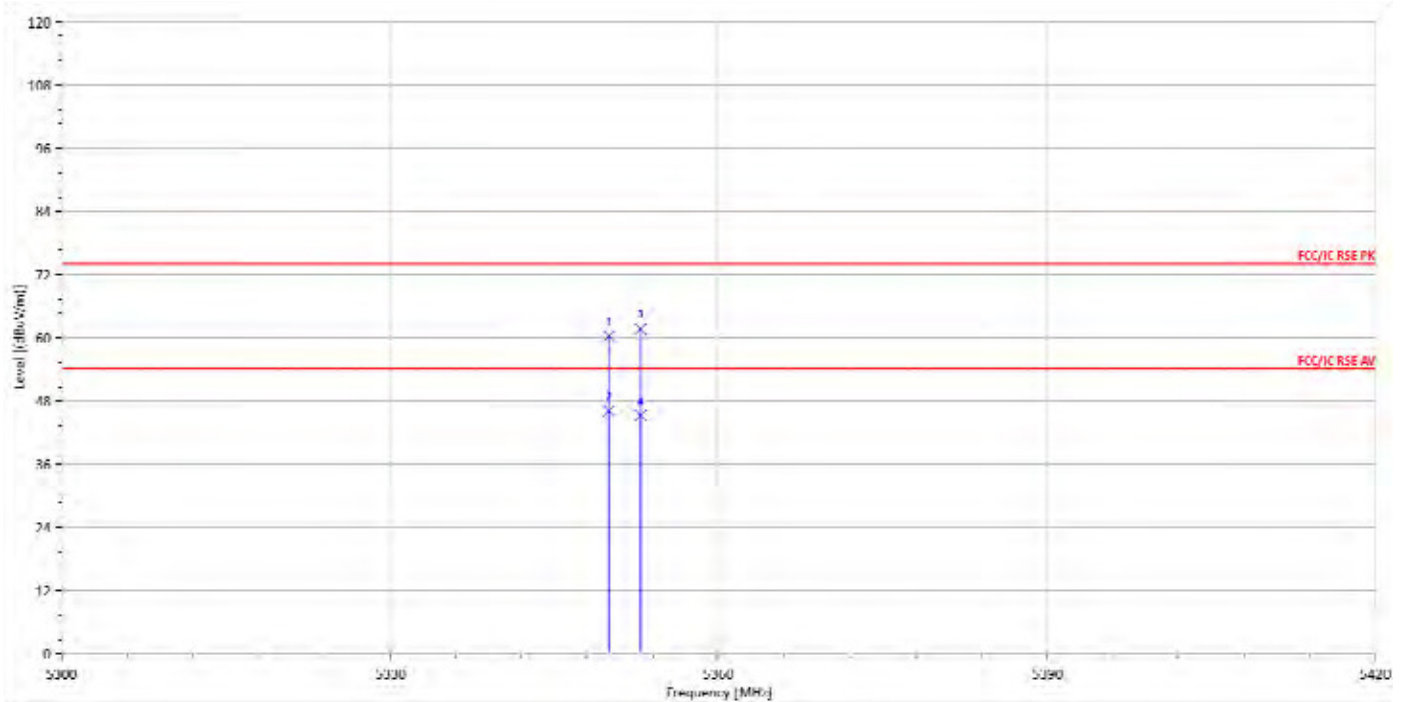
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Operation Mode :	802.11n40	Test Date :	2016/11/5
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	51.38	8.96	60.34	74	-13.66
5350.00	E	Average	37.19	8.96	46.15	54	-7.85
5352.92	S	Peak	52.72	8.99	61.71	74	-12.29
5352.92	S	Average	36.28	8.99	45.27	54	-8.73

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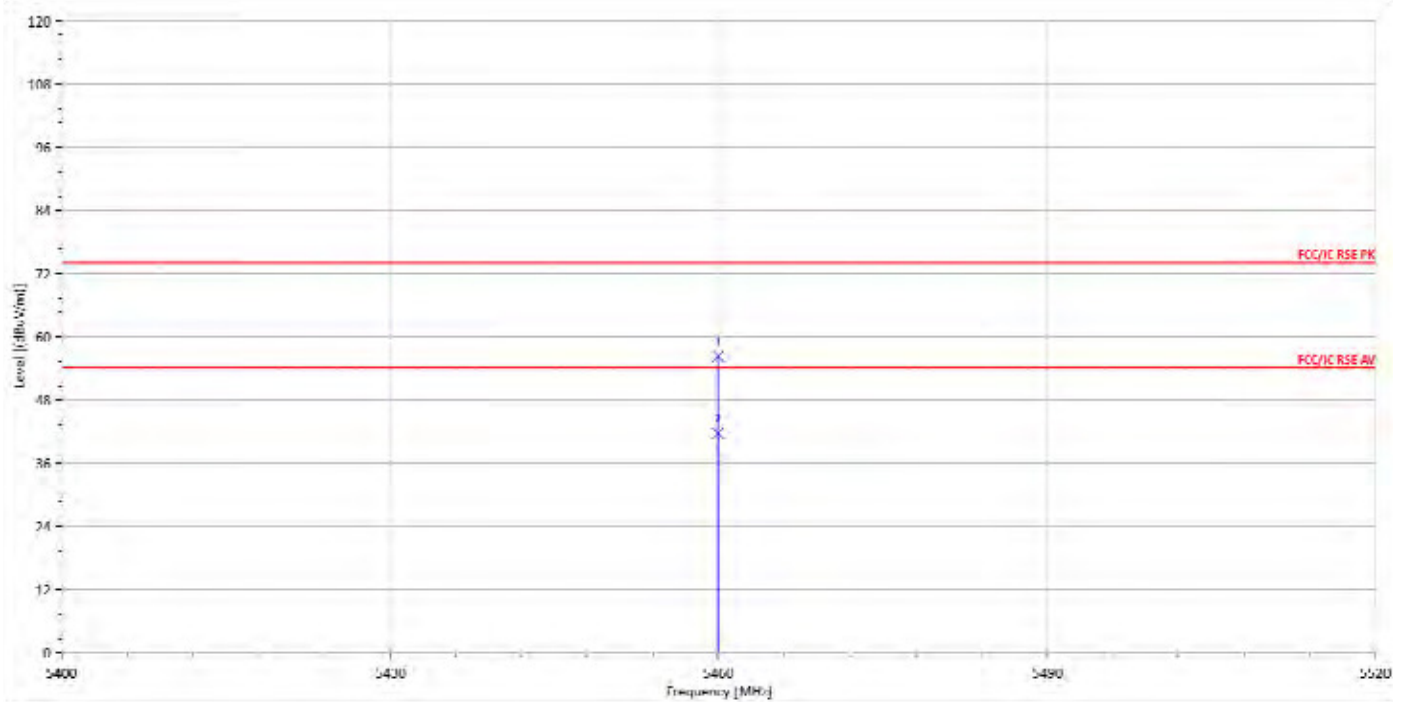
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Operation Mode : 802.11n40      Test Date : 2016/11/5  
 Fundamental Frequency : 5510 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
5460.00	E	Peak	47.38	8.88	56.26	74	-17.74
5460.00	E	Average	32.78	8.88	41.66	54	-12.34

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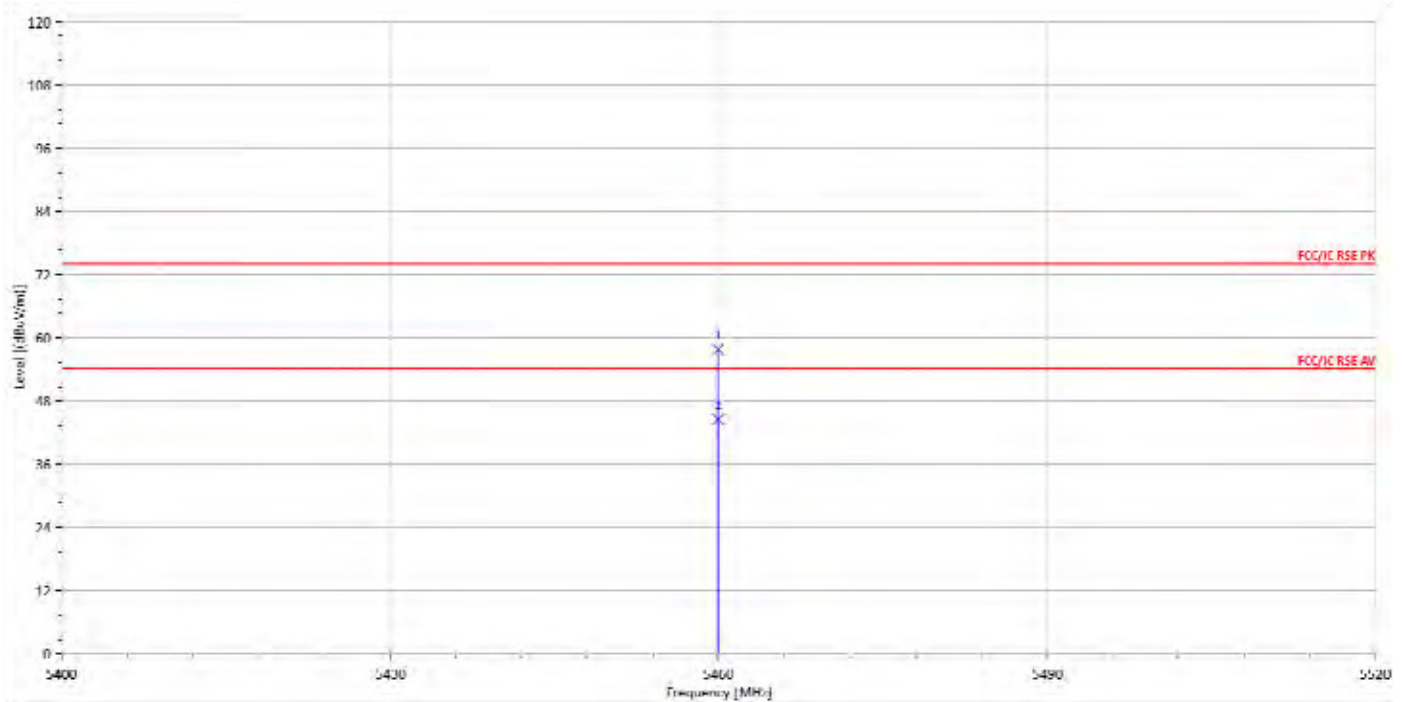
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Operation Mode :	802.11n40	Test Date :	2016/11/5
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5460.00	E	Peak	48.90	8.88	57.79	74	-16.21
5460.00	E	Average	35.67	8.88	44.55	54	-9.45

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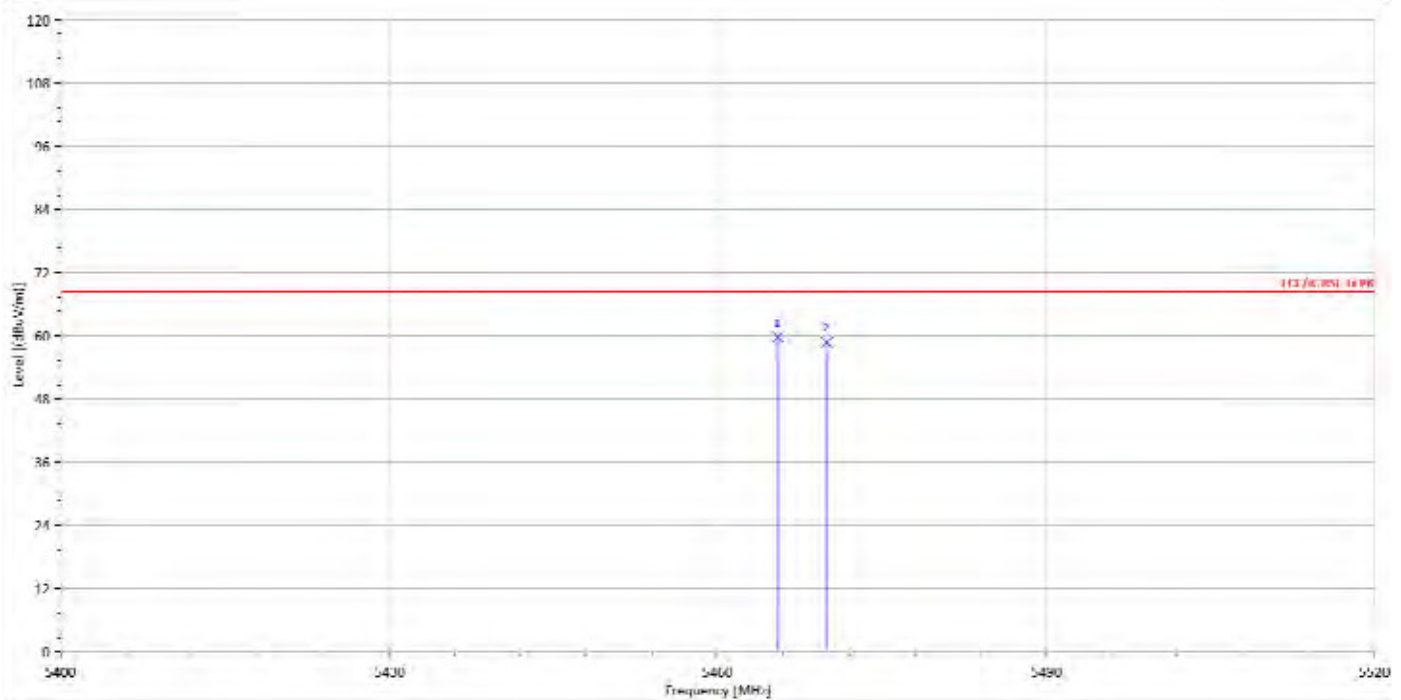
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Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5465.52	S	Peak	50.90	8.83	59.73	68.3	-8.57
5470.00	E	Peak	49.94	8.79	58.73	68.3	-9.57

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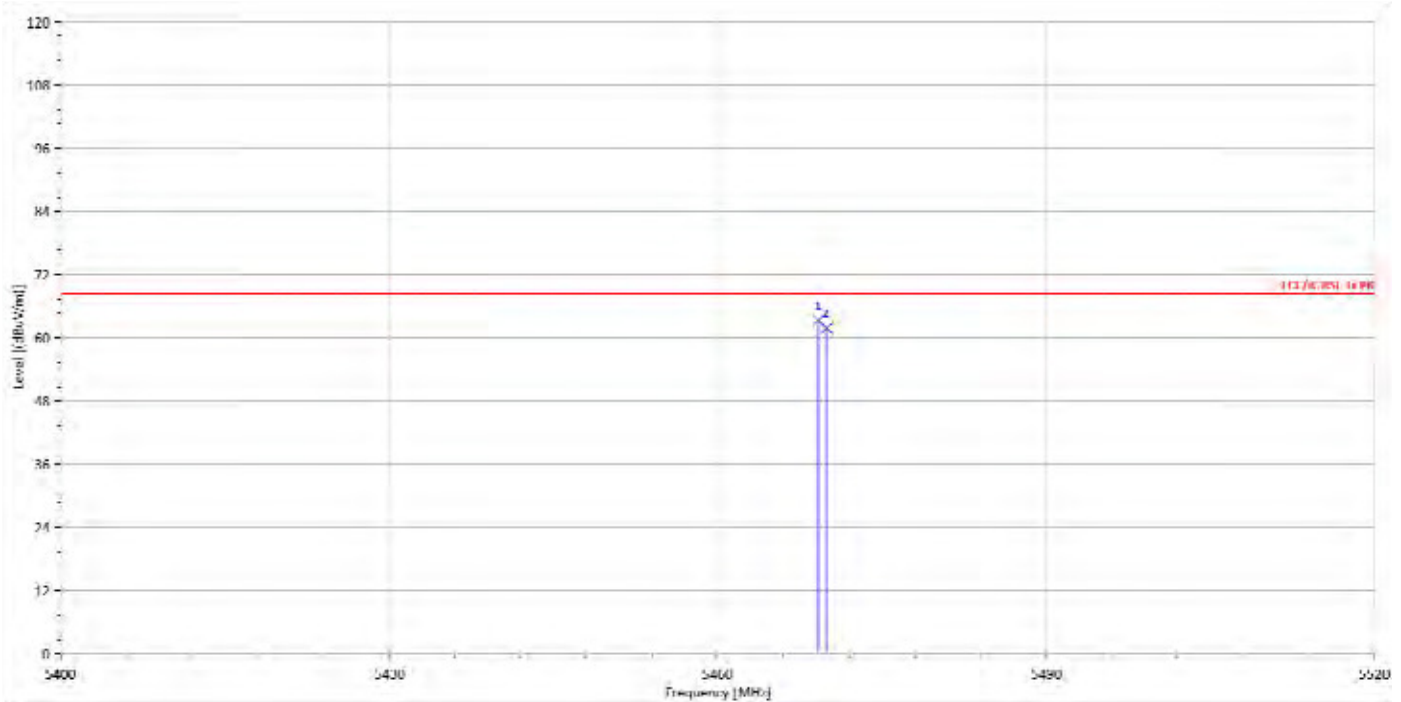
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Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5469.24	S	Peak	54.56	8.80	63.35	68.3	-4.95
5470.00	E	Peak	53.07	8.79	61.86	68.3	-6.44

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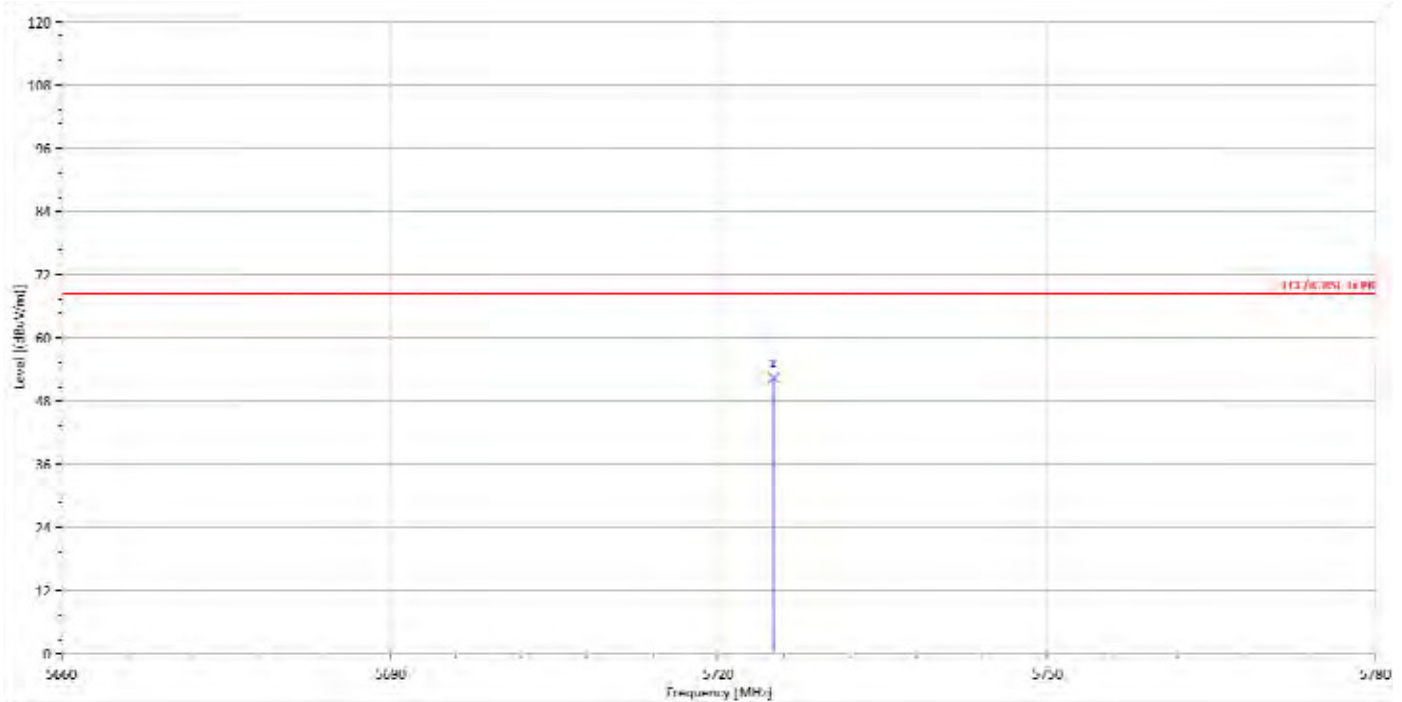
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Operation Mode :	802.11n40	Test Date :	2016/11/5
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5725.00	E	Peak	43.02	9.30	52.32	68.3	-15.98

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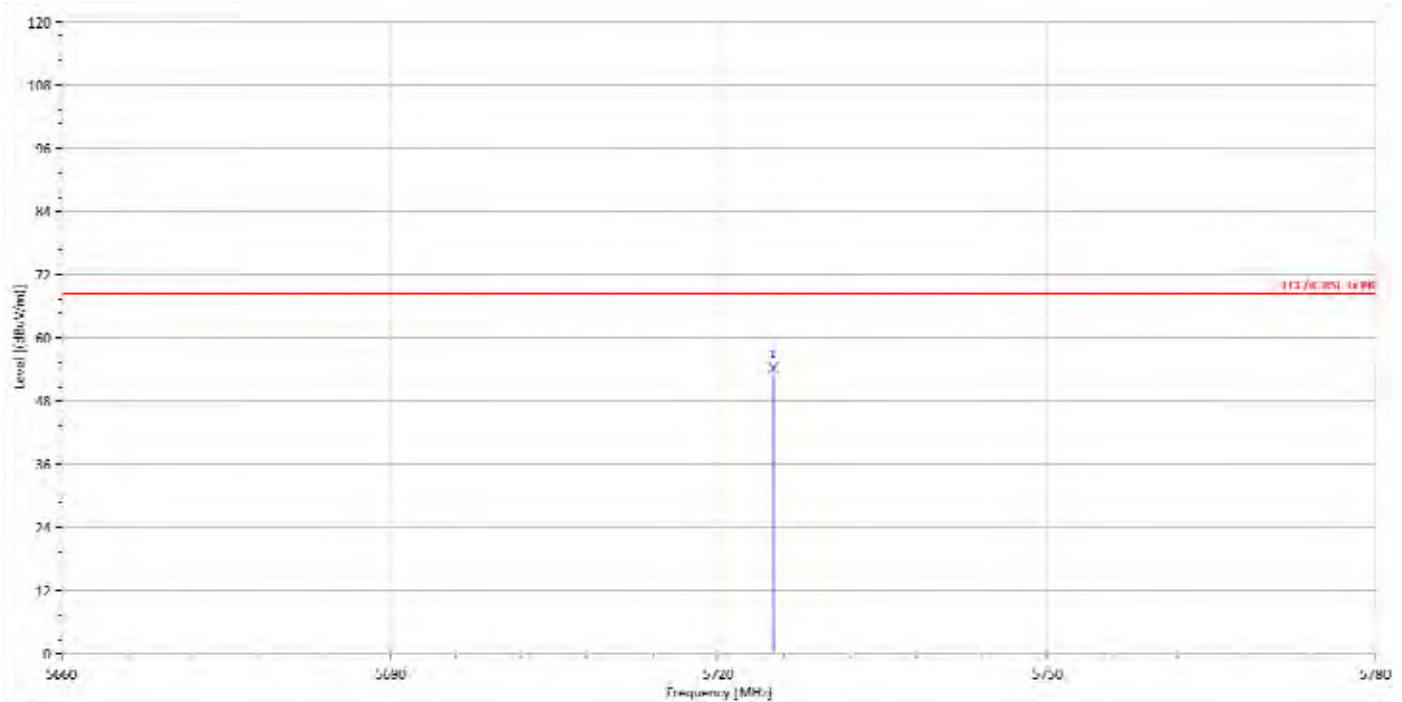
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Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5725.00	E	Peak	44.93	9.30	54.23	68.3	-14.07

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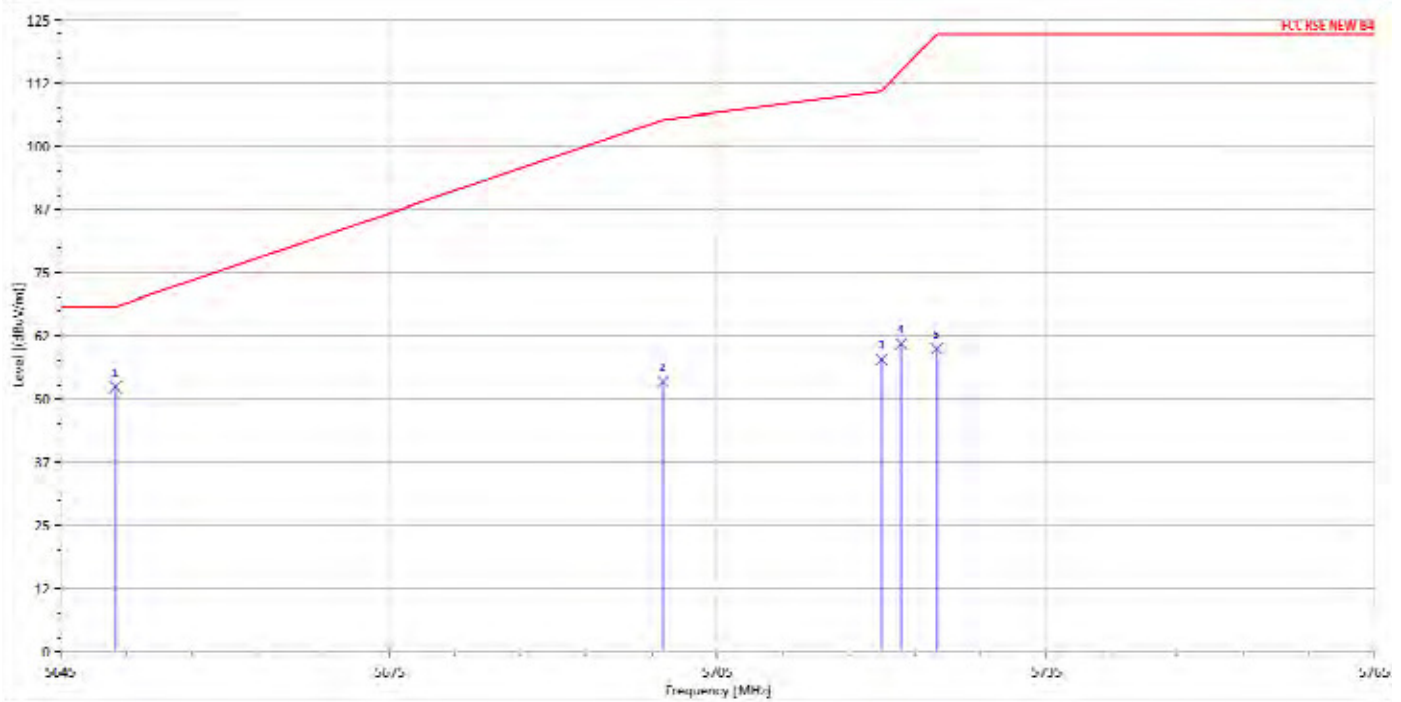
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Operation Mode :	802.11n40	Test Date :	2016/11/5
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5650.00	S	Peak	42.99	9.33	52.32	68.23	-15.91
5700.00	S	Peak	43.88	9.44	53.32	105.23	-51.91
5720.00	S	Peak	48.46	9.28	57.74	110.83	-53.09
5721.80	S	Peak	51.63	9.29	60.92	114.9336	-54.01
5725.00	E	Peak	50.58	9.30	59.88	122.23	-62.35

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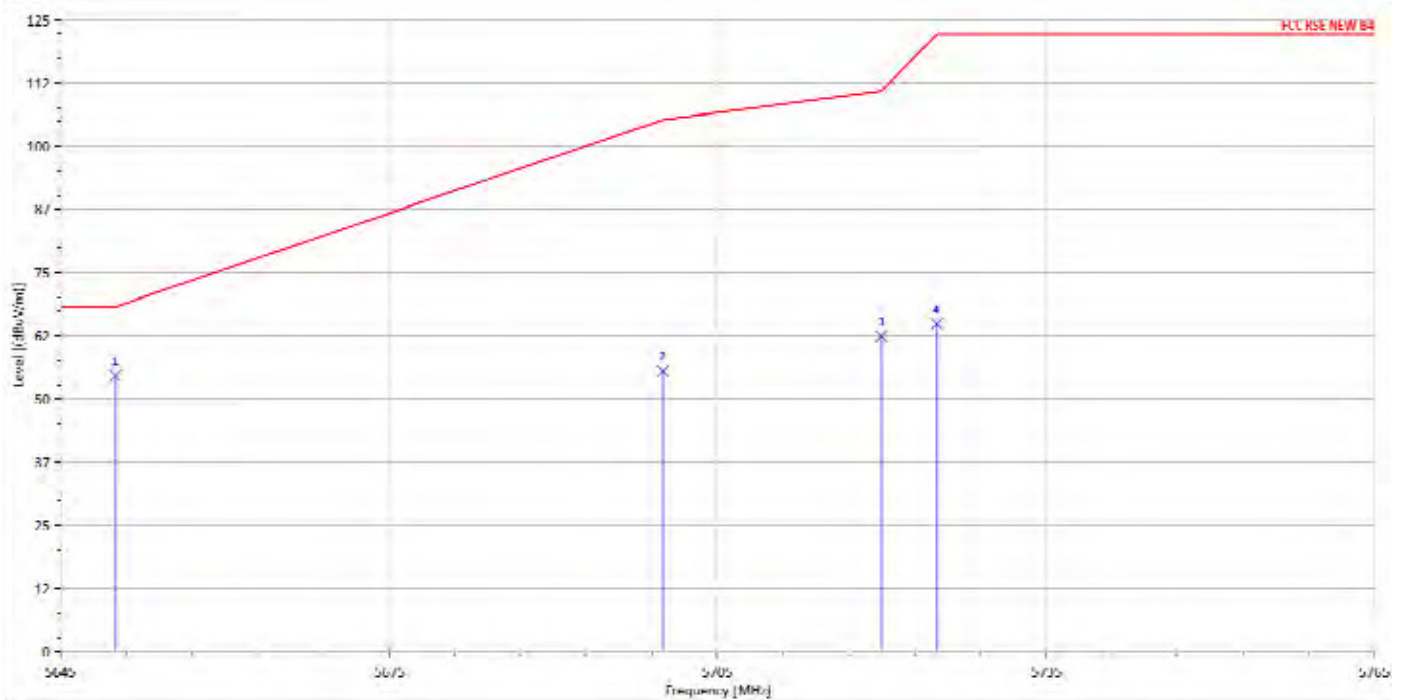
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Operation Mode : 802.11n40      Test Date : 2016/11/5  
 Fundamental Frequency : 5755 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
5650.00	S	Peak	45.18	9.33	54.52	68.23	-13.71
5700.00	S	Peak	45.98	9.44	55.42	105.23	-49.81
5720.00	S	Peak	53.16	9.28	62.44	110.83	-48.39
5725.00	E	Peak	55.57	9.30	64.87	122.23	-57.36

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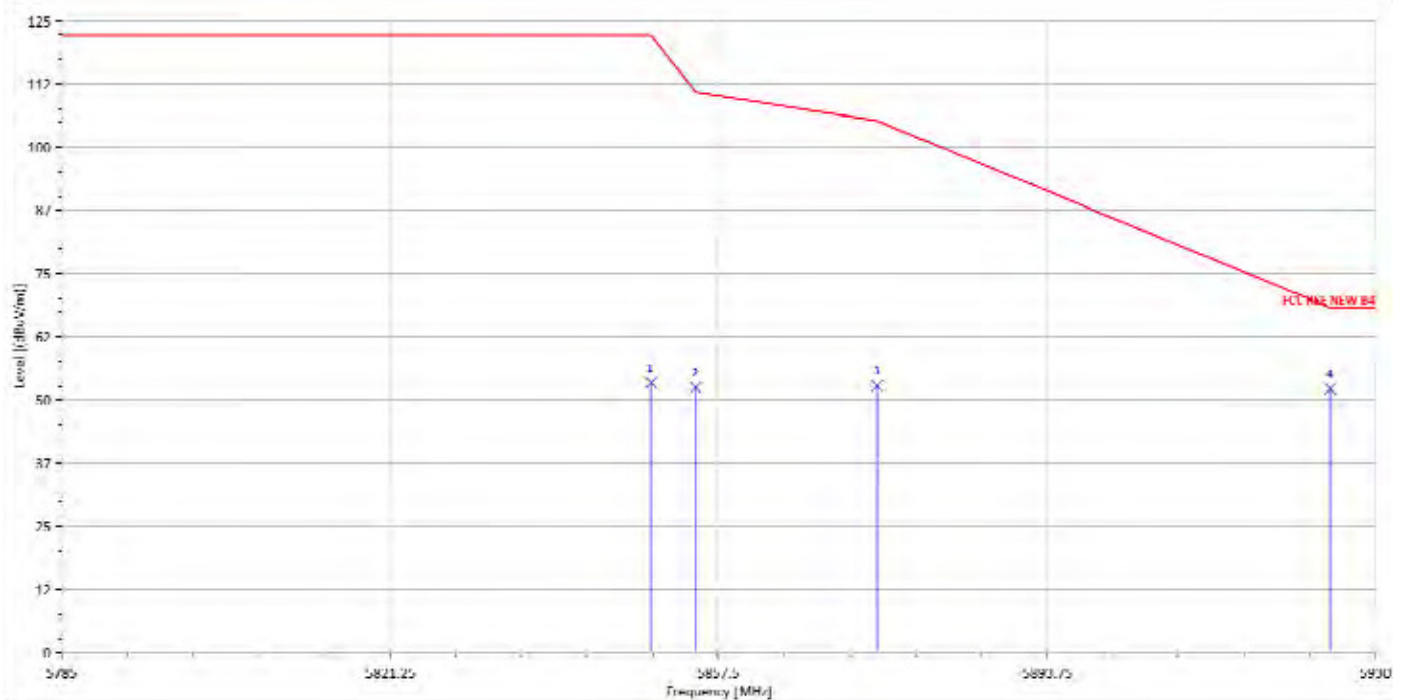
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Operation Mode : 802.11n40      Test Date : 2016/11/5  
 Fundamental Frequency : 5795 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
5850.00	E	Peak	43.85	9.49	53.34	122.23	-68.89
5855.00	S	Peak	42.86	9.58	52.44	110.83	-58.39
5875.00	S	Peak	43.14	9.63	52.77	105.23	-52.46
5925.00	S	Peak	42.17	10.01	52.19	68.23	-16.04

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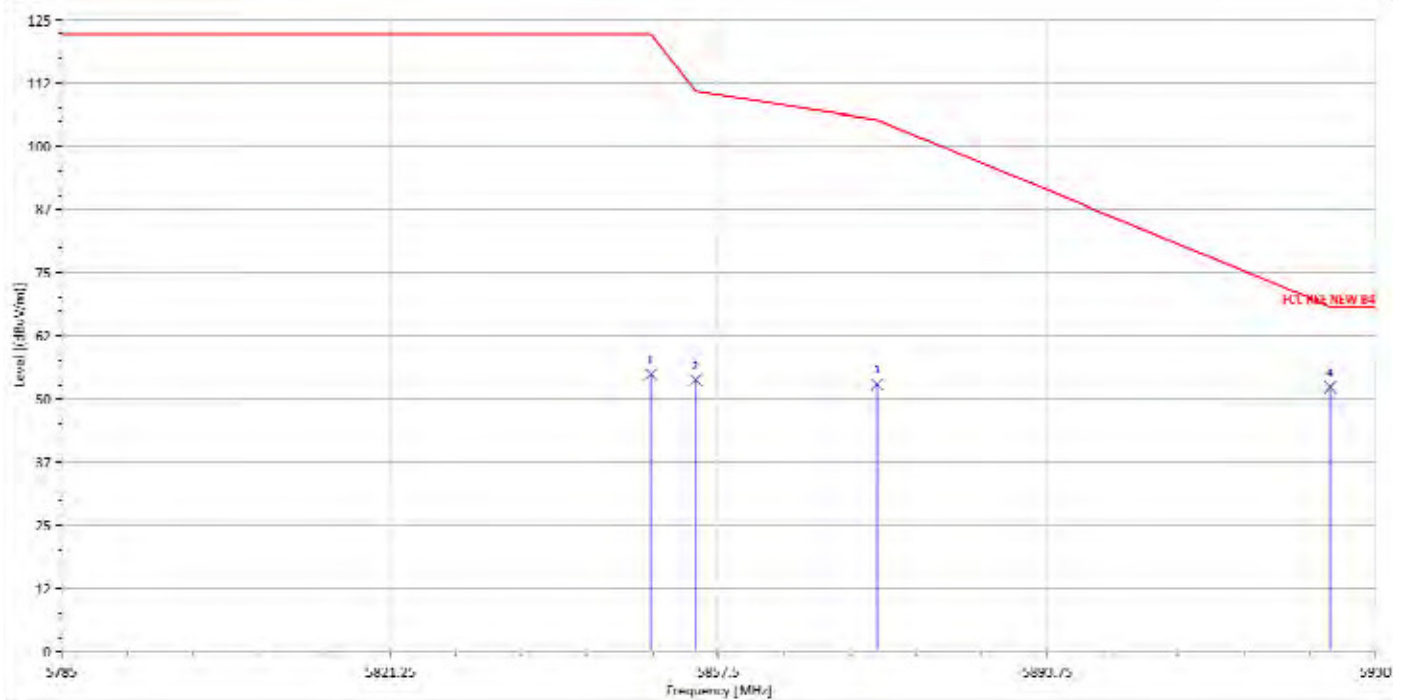
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 Operation Band : BE CH High      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
5850.00	E	Peak	45.33	9.49	54.82	122.23	-67.41
5855.00	S	Peak	44.09	9.58	53.67	110.83	-57.16
5875.00	S	Peak	43.18	9.63	52.82	105.23	-52.41
5925.00	S	Peak	42.27	10.01	52.28	68.23	-15.95

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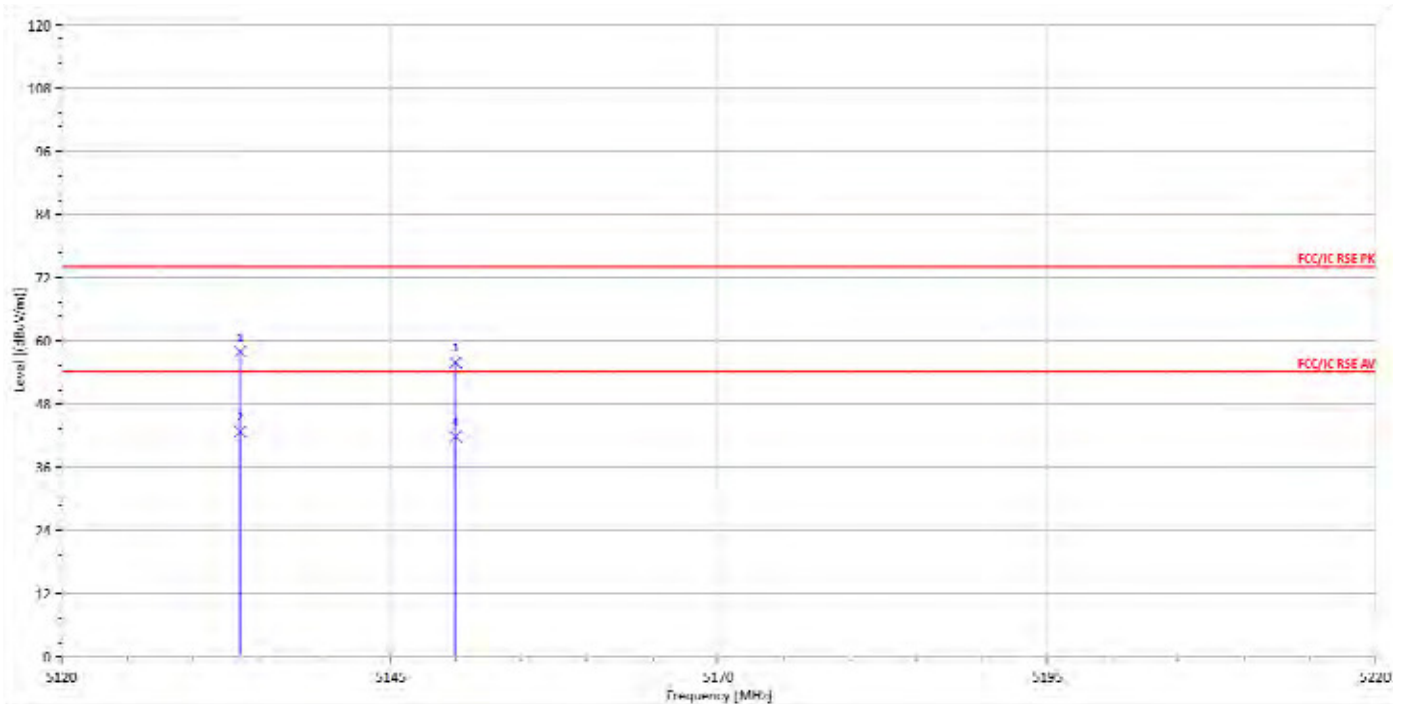
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### 802.11ac80 VHT mode

Operation Mode :	802.11ac80	Test Date :	2016/11/7
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
5133.60	S	Peak	49.82	8.09	57.91	74	-16.09
5133.60	S	Average	34.66	8.09	42.75	54	-11.25
5150.00	E	Peak	47.63	8.19	55.82	74	-18.18
5150.00	E	Average	33.61	8.19	41.80	54	-12.20

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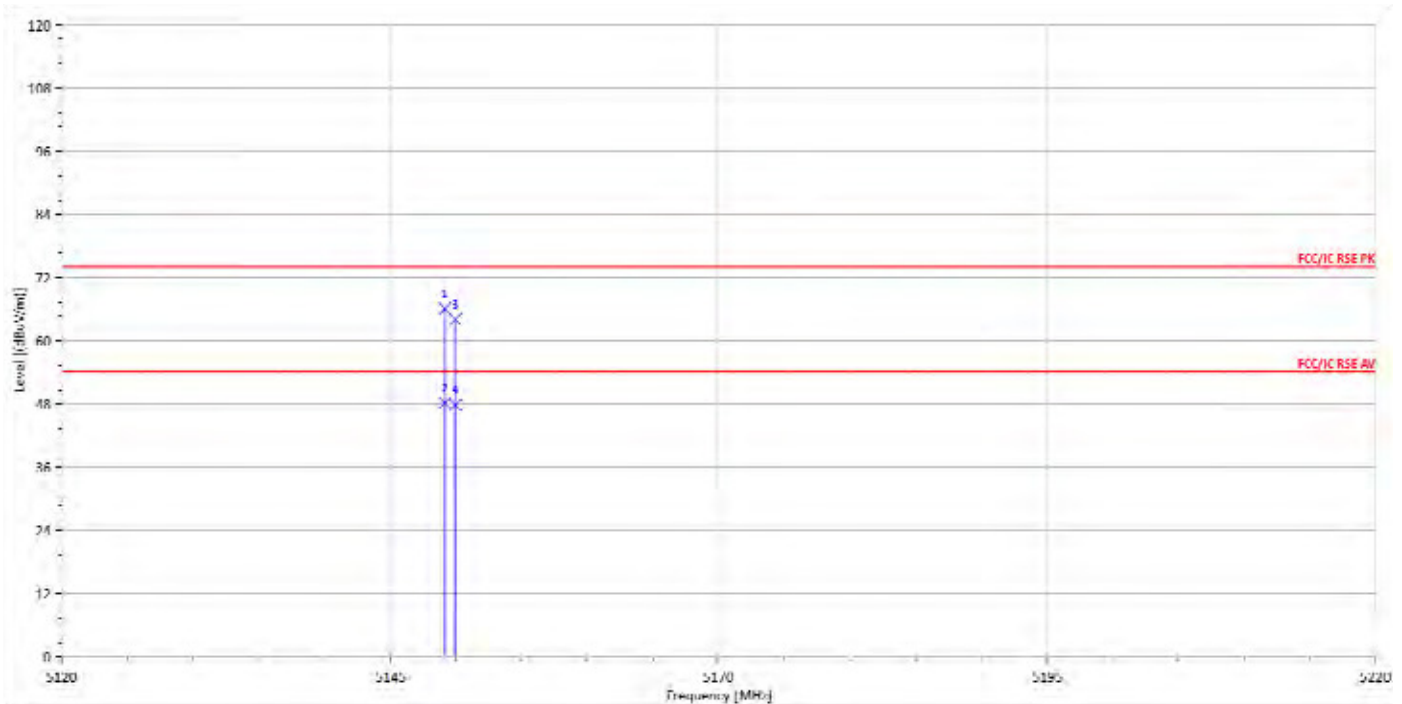
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Operation Mode :	802.11ac80	Test Date :	2016/11/7
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. 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
5149.20	S	Peak	57.98	8.19	66.16	74	-7.84
5149.20	S	Average	40.02	8.19	48.21	54	-5.79
5150.00	E	Peak	55.91	8.19	64.10	74	-9.90
5150.00	E	Average	39.69	8.19	47.88	54	-6.12

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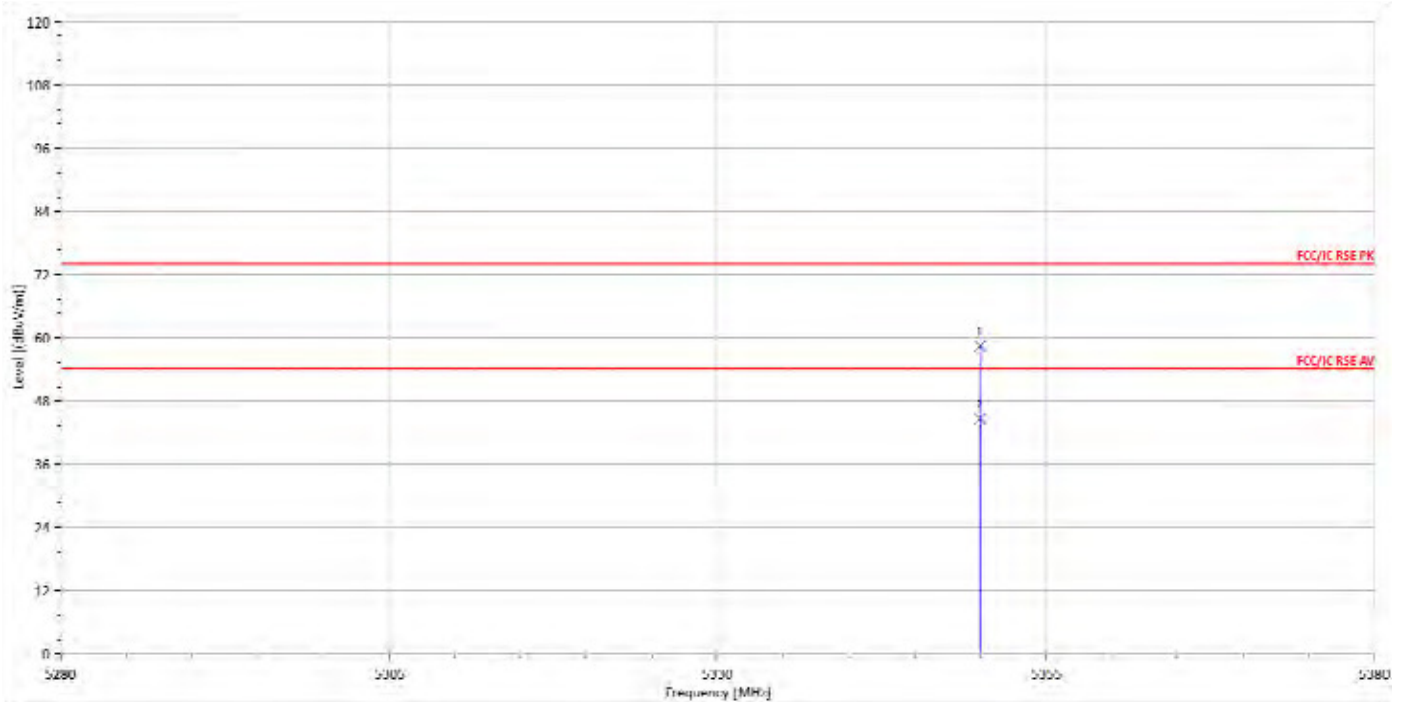
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Operation Mode : 802.11ac80 Test Date : 2016/11/7  
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH High Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. 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
5350.00	E	Peak	49.47	8.96	58.44	74	-15.56
5350.00	E	Average	35.66	8.96	44.62	54	-9.38

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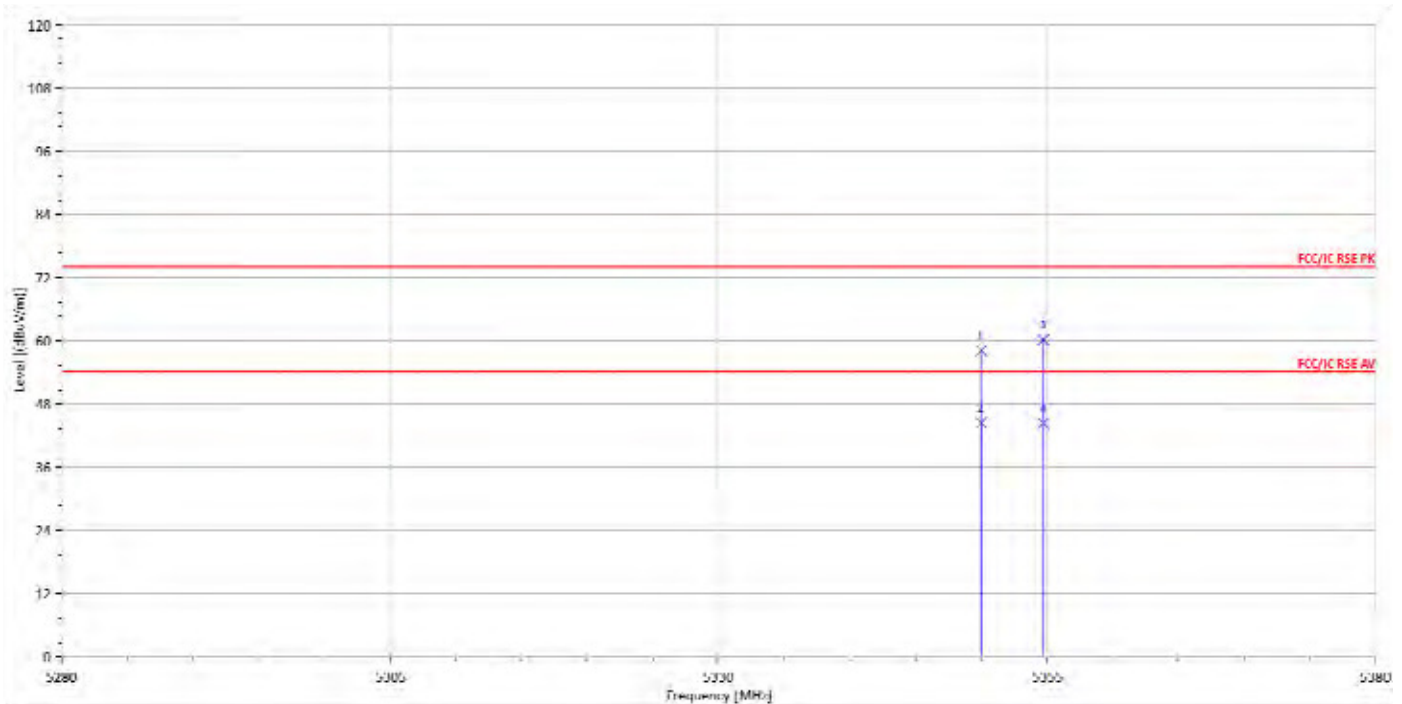
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Operation Mode :	802.11ac80	Test Date :	2016/11/7
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	49.15	8.96	58.11	74	-15.89
5350.00	E	Average	35.47	8.96	44.43	54	-9.57
5354.70	S	Peak	51.22	8.97	60.19	74	-13.81
5354.70	S	Average	35.39	8.97	44.36	54	-9.64

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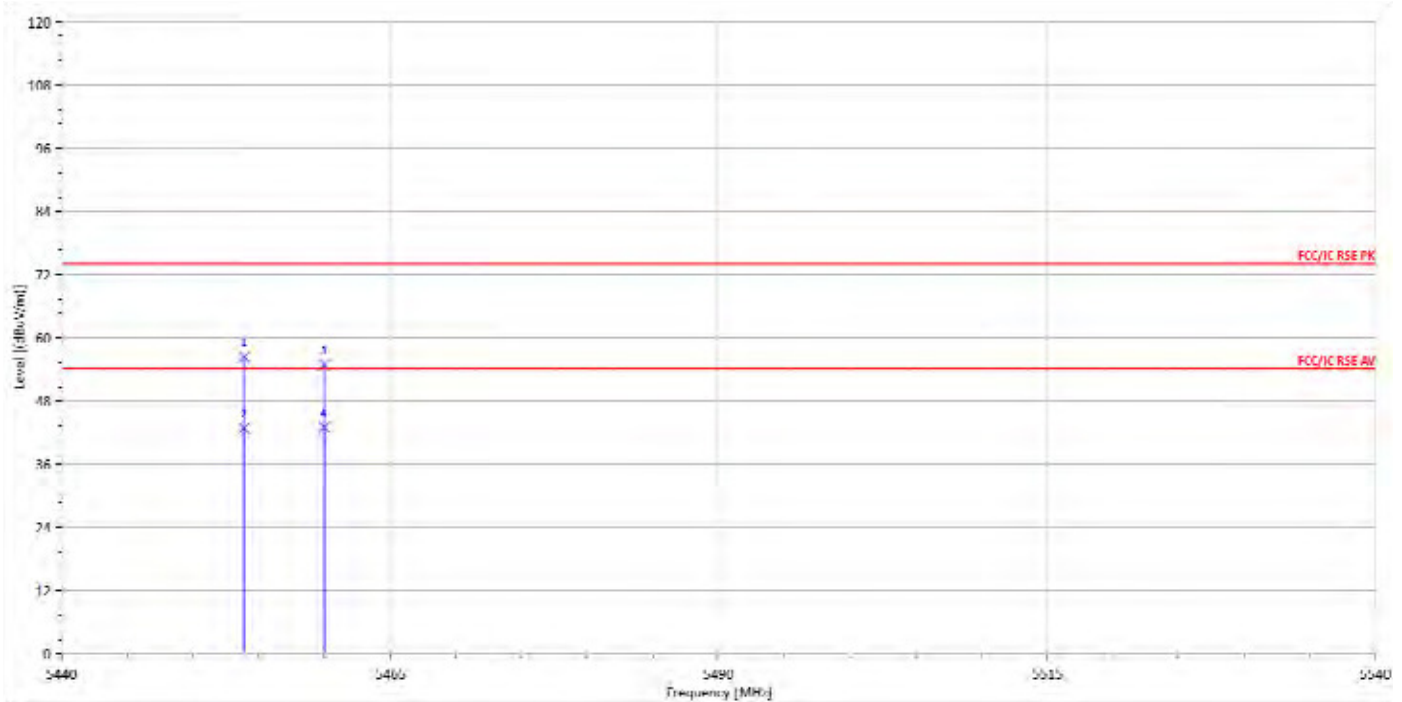
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Operation Mode : 802.11ac80 Test Date : 2016/11/7  
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. 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
5453.90	S	Peak	47.39	8.94	56.33	74	-17.67
5453.90	S	Average	33.92	8.94	42.86	54	-11.14
5460.00	E	Peak	45.96	8.88	54.85	74	-19.15
5460.00	E	Average	34.09	8.88	42.97	54	-11.03

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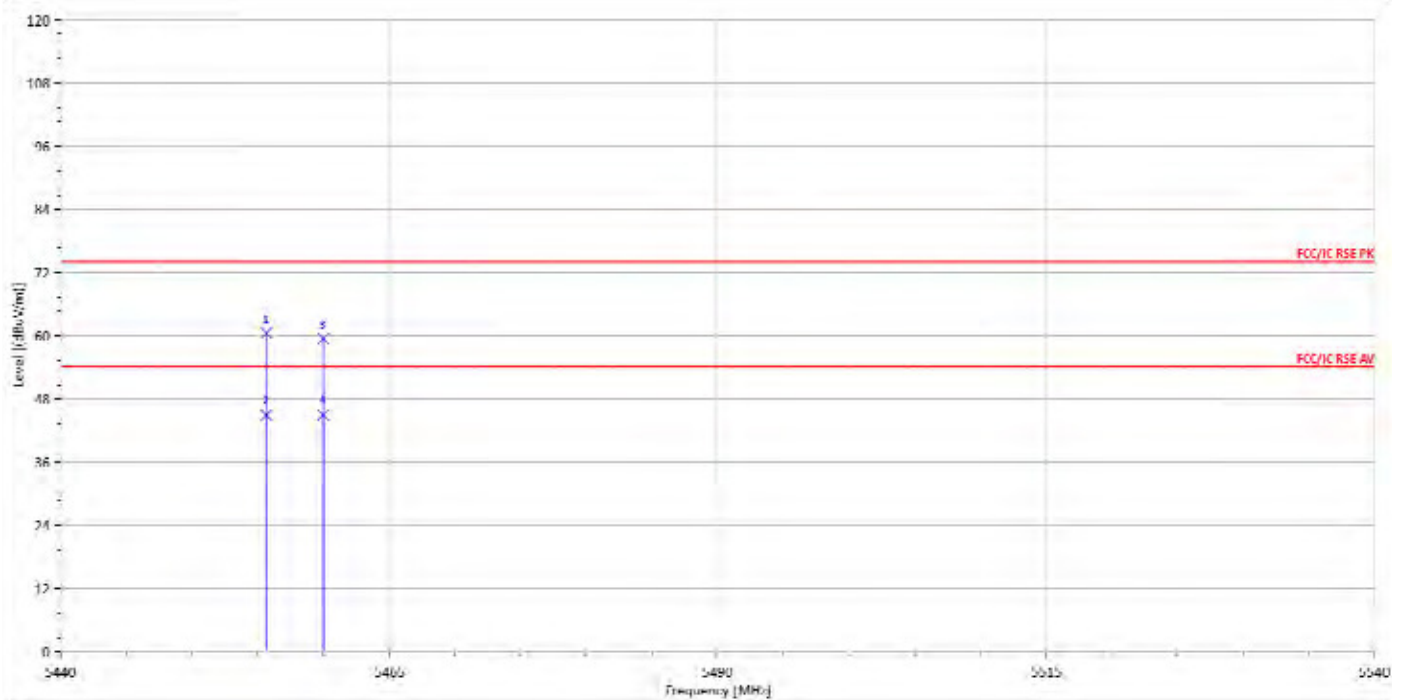
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Operation Mode : 802.11ac80 Test Date : 2016/11/7  
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. 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
5455.70	S	Peak	51.59	8.92	60.52	74	-13.48
5455.70	S	Average	36.03	8.92	44.95	54	-9.05
5460.00	E	Peak	50.56	8.88	59.44	74	-14.56
5460.00	E	Average	36.13	8.88	45.01	54	-8.99

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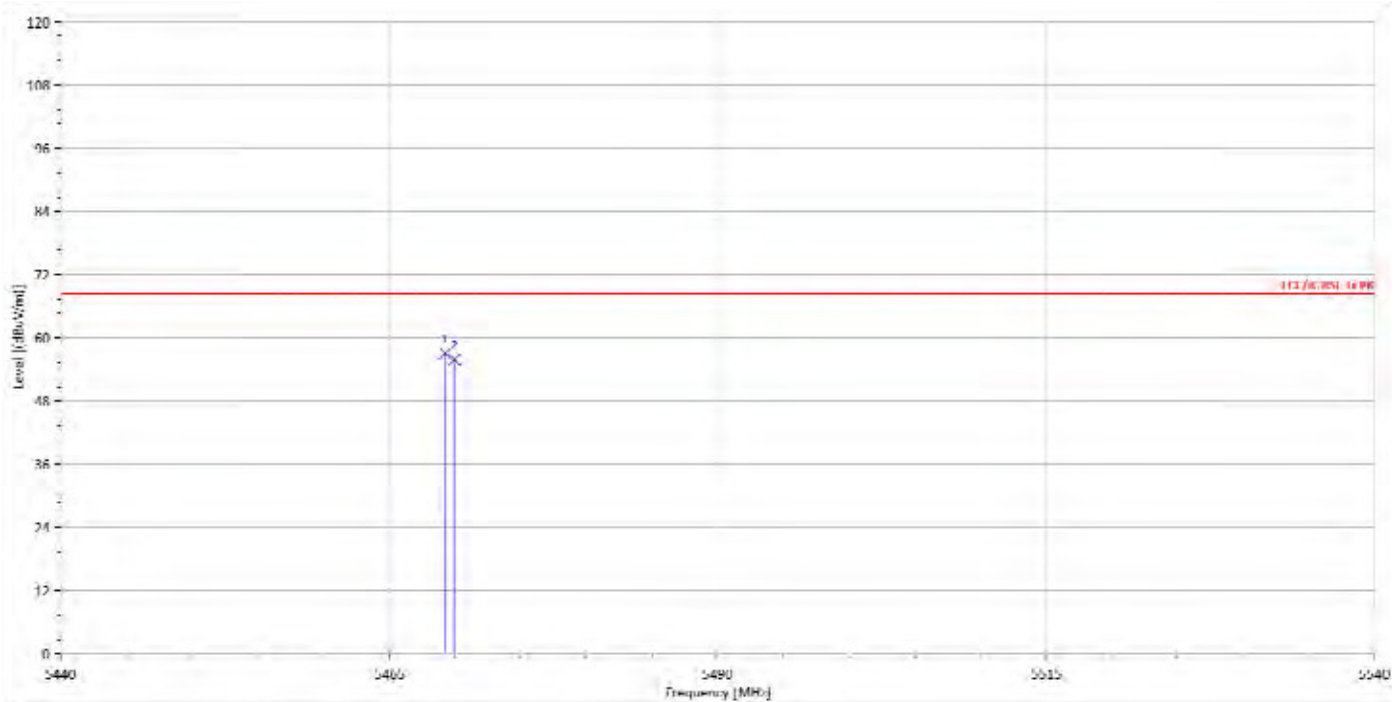
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Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. 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
5469.30	S	Peak	48.20	8.79	57.00	68.3	-11.30
5470.00	E	Peak	47.02	8.79	55.80	68.3	-12.50

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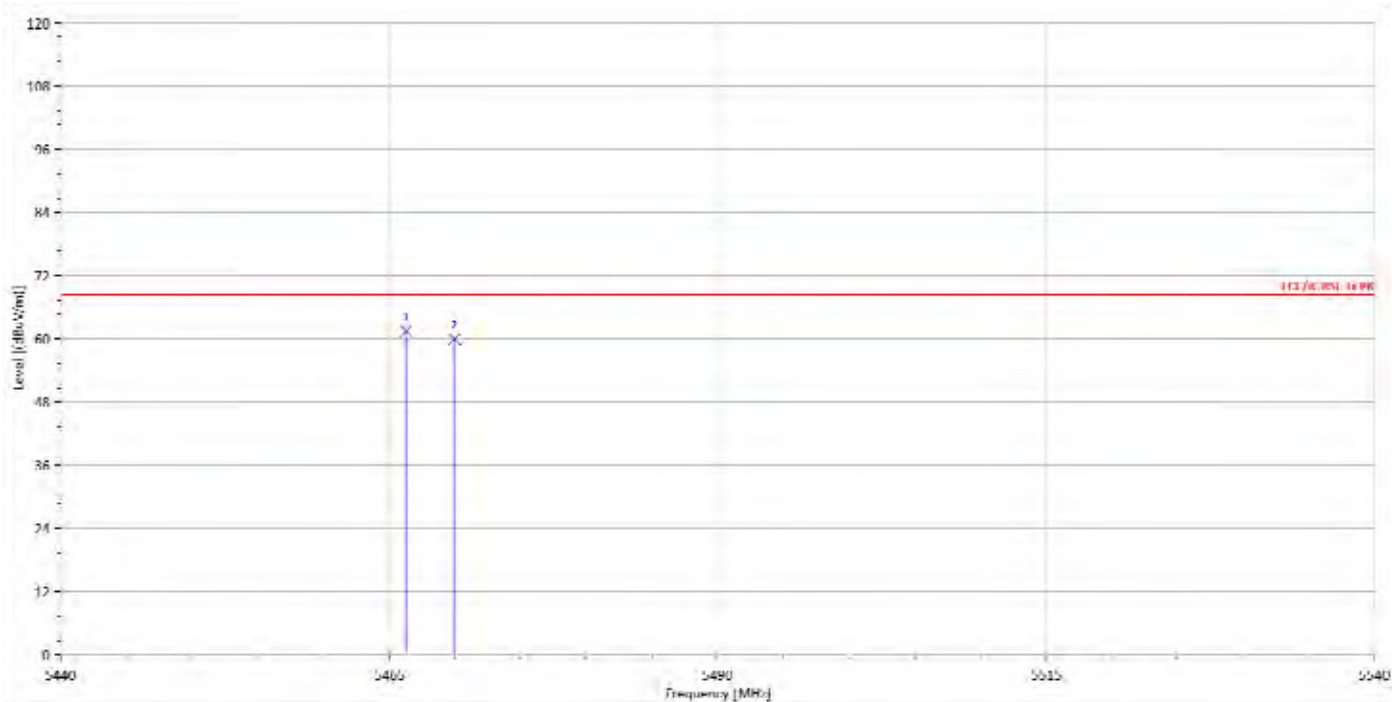
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Operation Mode :	802.11ac80	Test Date :	2016/11/7
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. 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
5466.30	S	Peak	52.64	8.82	61.47	68.3	-6.83
5470.00	E	Peak	51.16	8.79	59.94	68.3	-8.36

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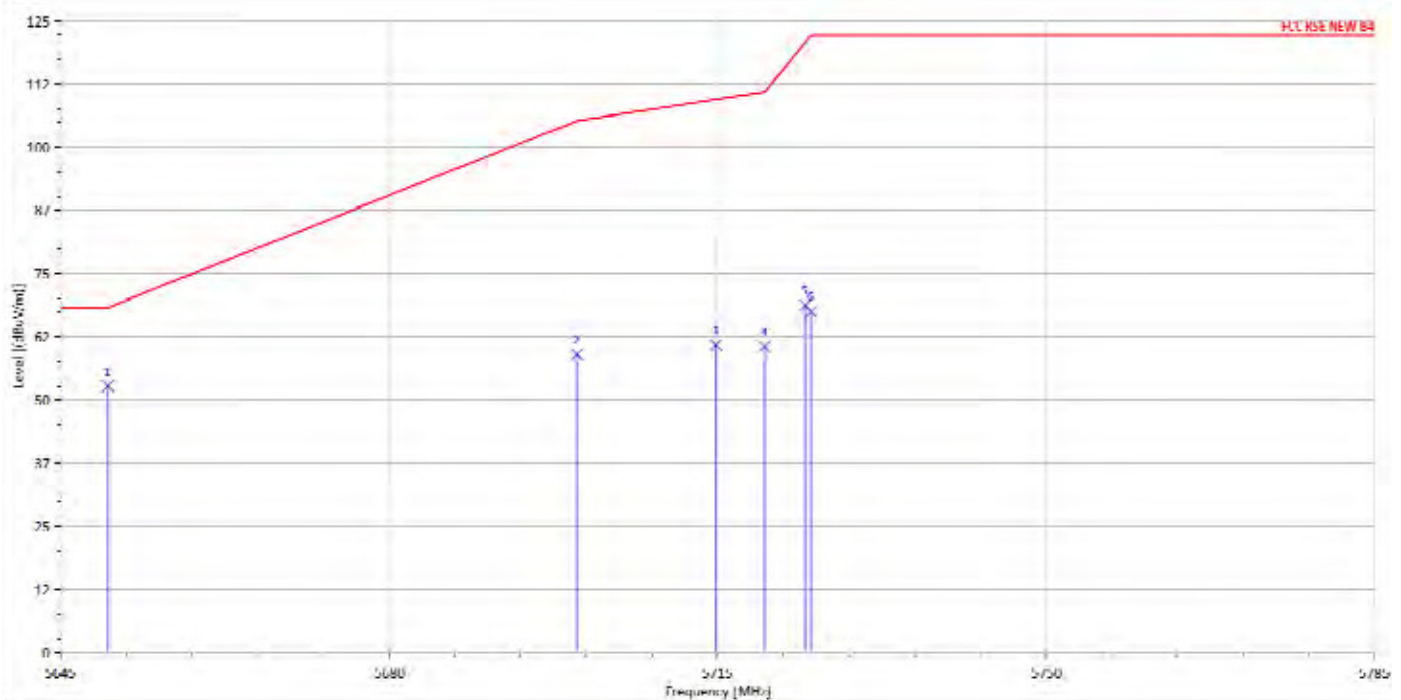
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Operation Mode : 802.11ac80 Test Date : 2016/11/7  
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. 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
5650.00	S	Peak	43.36	9.33	52.69	68.23	-15.54
5700.00	S	Peak	49.55	9.44	58.99	105.23	-46.24
5714.86	S	Peak	51.57	9.26	60.83	109.3908	-48.56
5720.00	S	Peak	51.30	9.28	60.58	110.83	-50.25
5724.38	S	Peak	59.46	9.30	68.76	120.8161	-52.06
5725.00	E	Peak	58.21	9.30	67.51	122.23	-54.72

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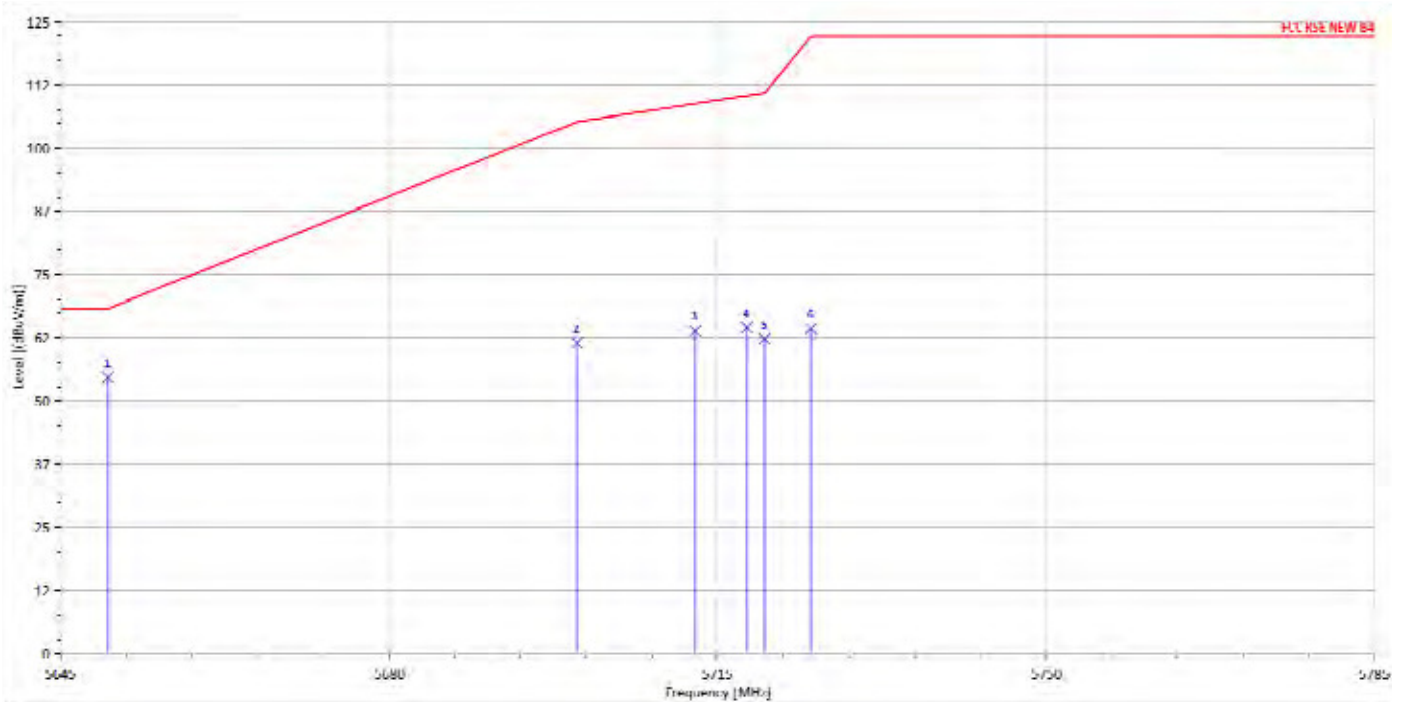
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Operation Mode : 802.11ac80 Test Date : 2016/11/7  
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. 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
5650.00	S	Peak	45.26	9.33	54.59	68.23	-13.64
5700.00	S	Peak	52.02	9.44	61.45	105.23	-43.78
5712.62	S	Peak	54.59	9.25	63.84	108.7636	-44.92
5718.08	S	Peak	55.30	9.27	64.57	110.2924	-45.72
5720.00	S	Peak	52.99	9.28	62.27	110.83	-48.56
5725.00	E	Peak	55.05	9.30	64.35	122.23	-57.88

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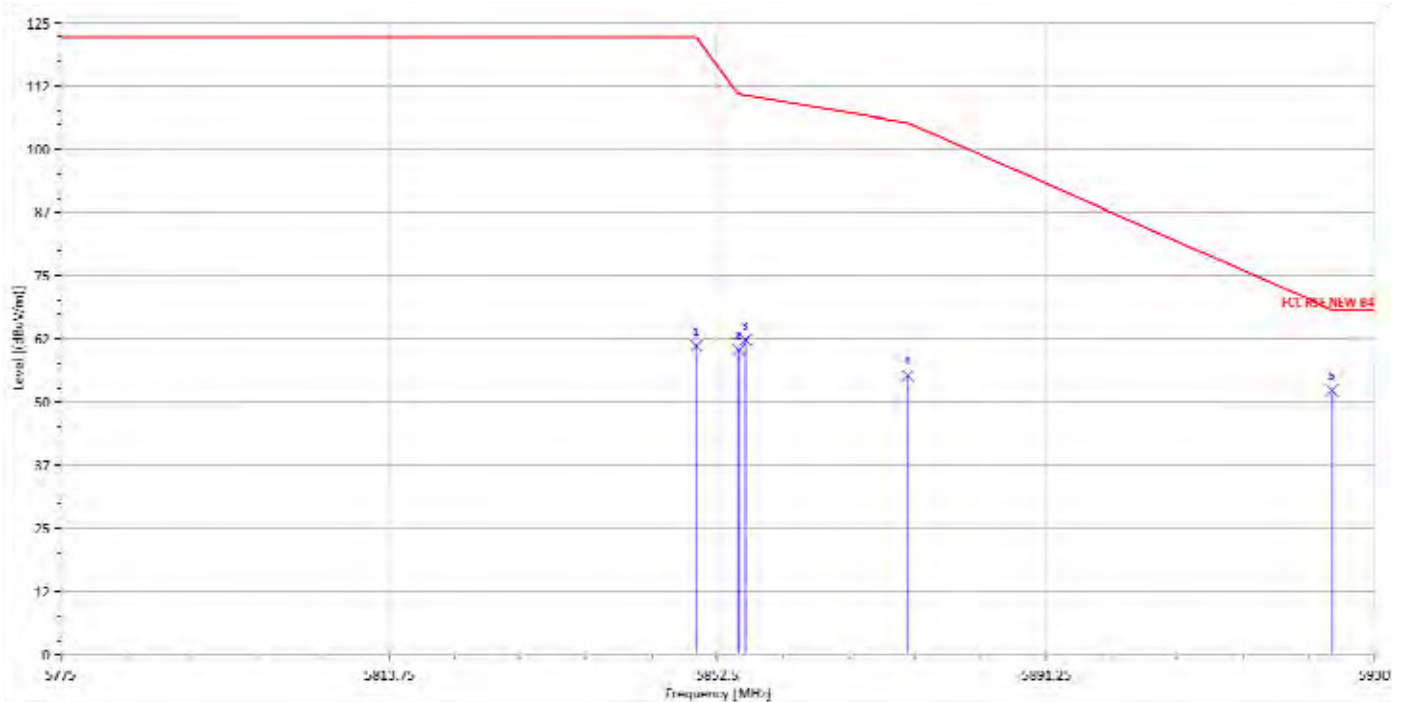
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Operation Mode : 802.11ac80 Test Date : 2016/11/7  
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH High Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5850.00	E	Peak	51.62	9.49	61.11	122.23	-61.12
5855.00	S	Peak	50.76	9.58	60.34	110.83	-50.49
5855.76	S	Peak	52.69	9.59	62.28	110.6186	-48.33
5875.00	S	Peak	45.51	9.63	55.14	105.23	-50.09
5925.00	S	Peak	42.20	10.01	52.21	68.23	-16.02

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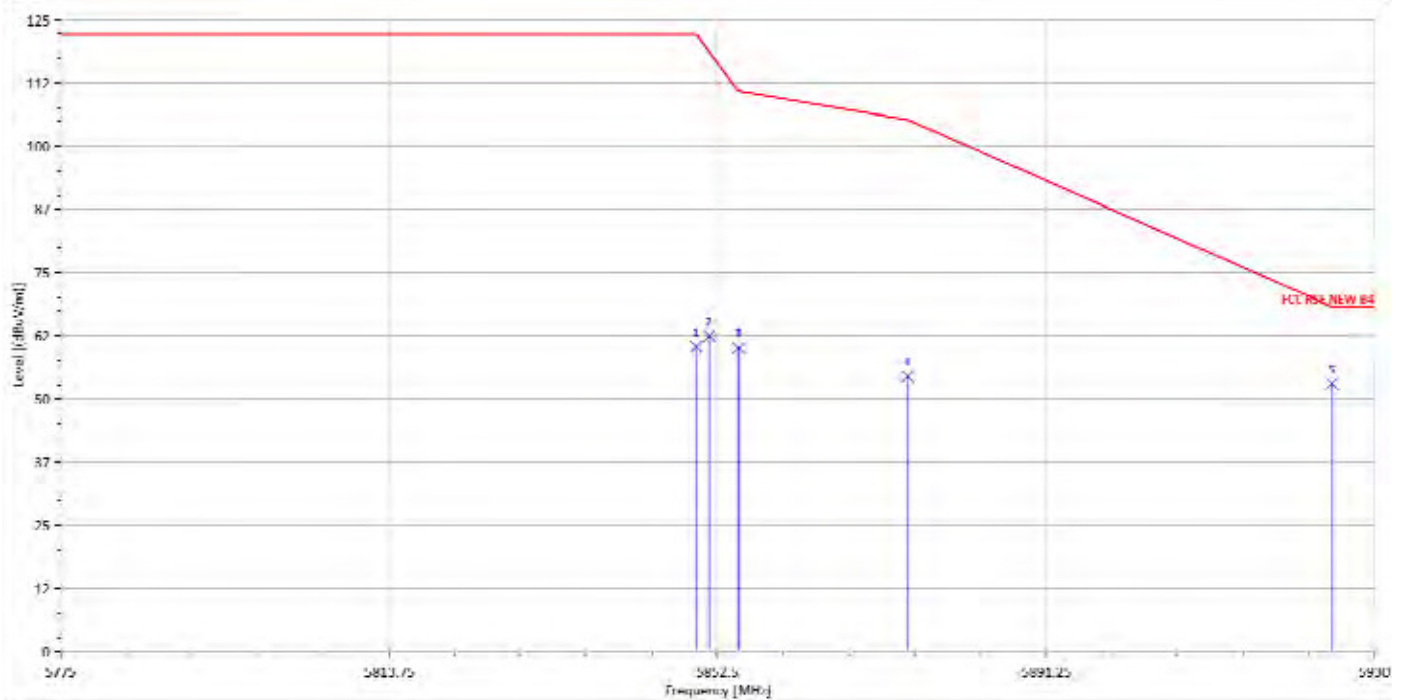
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Operation Mode : 802.11ac80 Test Date : 2016/11/7  
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH High Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. 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
5850.00	E	Peak	50.85	9.49	60.34	122.23	-61.89
5851.57	S	Peak	52.95	9.52	62.47	118.6508	-56.19
5855.00	S	Peak	50.47	9.58	60.05	110.83	-50.78
5875.00	S	Peak	44.76	9.63	54.40	105.23	-50.83
5925.00	S	Peak	42.89	10.01	52.91	68.23	-15.32

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## 12. TRANSMISSION IN THE ABSENCE OF DATA

### 12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

### 12.2 Result

No non-compliance noted:

Refer to the theory of operation.

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### 13. FREQUENCY STABILITY

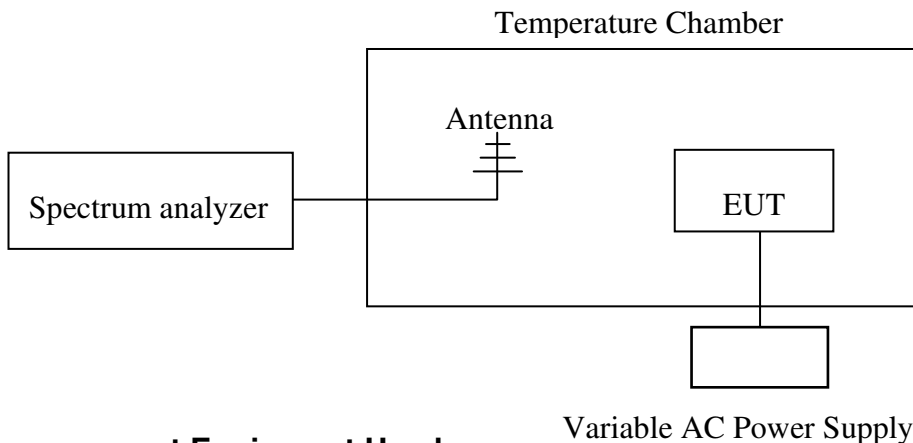
#### 13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user’s manual.

#### 13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

#### 13.3 Test SET-UP



#### 13.4 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/16/2016	06/15/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

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### 13.5 Measurement Result

Test Date 2016.11.07  
Test By Henry

	36	5180	5,179.98485	0.00000292
	44	5220	5,219.97909	0.00000401
	48	5240	5,239.97962	0.00000389
	52	5260	5,259.97984	0.00000383
	60	5300	5,299.97995	0.00000378
8.74V	64	5320	5,319.98051	0.00000366
	100	5500	5,499.97998	0.00000364
	116	5580	5,579.97986	0.00000361
	140	5700	5,699.97959	0.00000358
	144	5720	5,719.98179	0.00000318
	149	5745	5,744.97956	0.00000356
	157	5785	5,784.97900	0.00000363
	165	5825	5,824.97910	0.00000359

0

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36	5180	5,179.98529	0.00000284
44	5220	5,219.97966	0.00000390
48	5240	5,239.98011	0.00000380
52	5260	5,259.98040	0.00000373
60	5300	5,299.98055	0.00000367

25

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Test By Henry

38	5190	5,189.98166	0.00000353
46	5230	5,229.98173	0.00000349
54	5270	5,269.98140	0.00000353
62	5310	5,309.98122	0.00000354
102	5510	5,509.98060	0.00000352
110	5550	5,549.98526	0.00000266
134	5670	5,669.98332	0.00000294
142	5710	5,709.98156	0.00000323

0

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38	5190	5,189.98194	0.00000348
46	5230	5,229.98194	0.00000345
54	5270	5,269.98187	0.00000344
62	5310	5,309.98178	0.00000343
102	5510	5,509.98111	0.00000343

25

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Test Date 2016.11.07  
Test By Henry

8.74V	42	5210	5,209.98372	0.00000312
	58	5290	5,289.98316	0.00000318
	106	5530	5,529.98210	0.00000324
	122	5610	5,609.98218	0.00000318
	138	5690	5,689.98189	0.00000318

0

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## 14. ANTENNA REQUIREMENT

### 14.1 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.

### 14.2 Antenna Connected Construction

A PIFA antenna design is used.

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

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

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