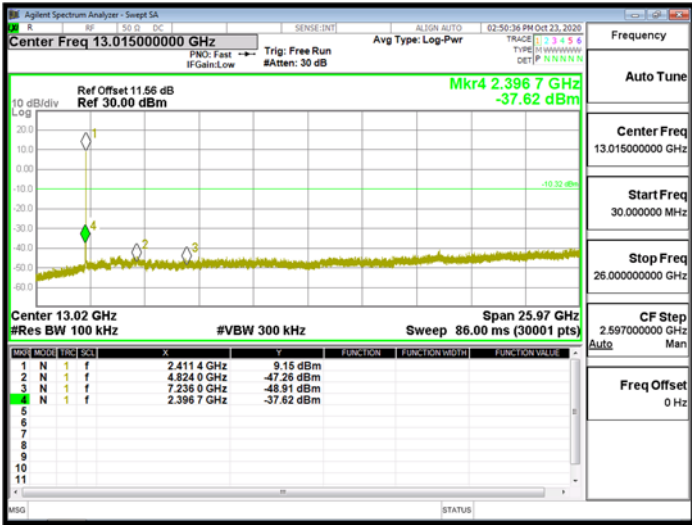
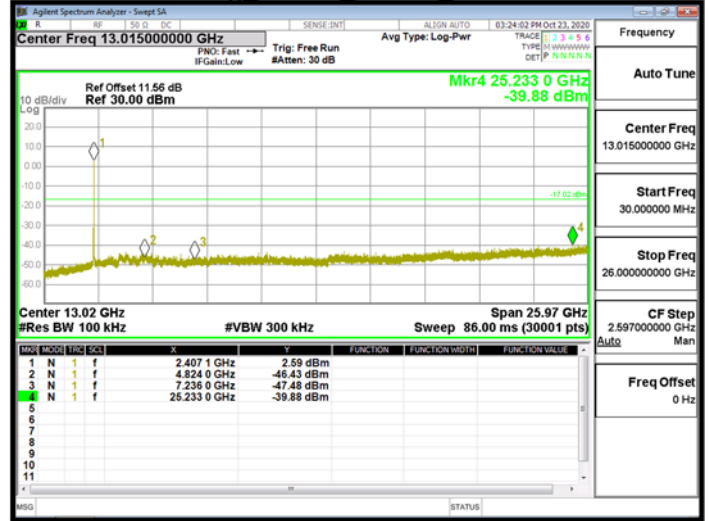


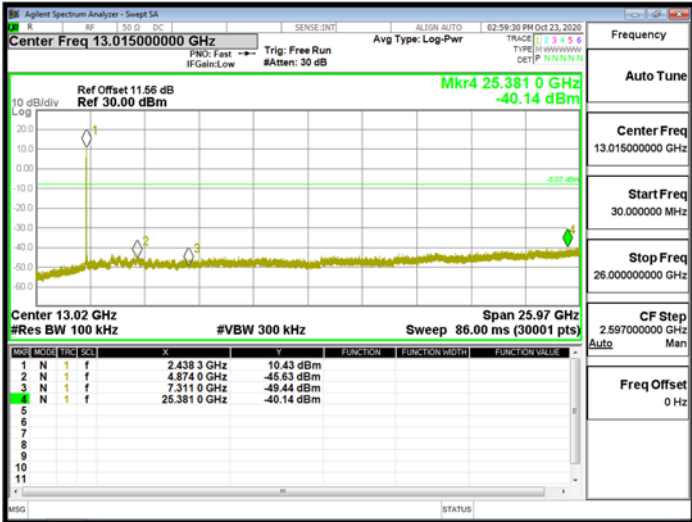
802.11b\_20MHz\_Chain1\_2412MHz



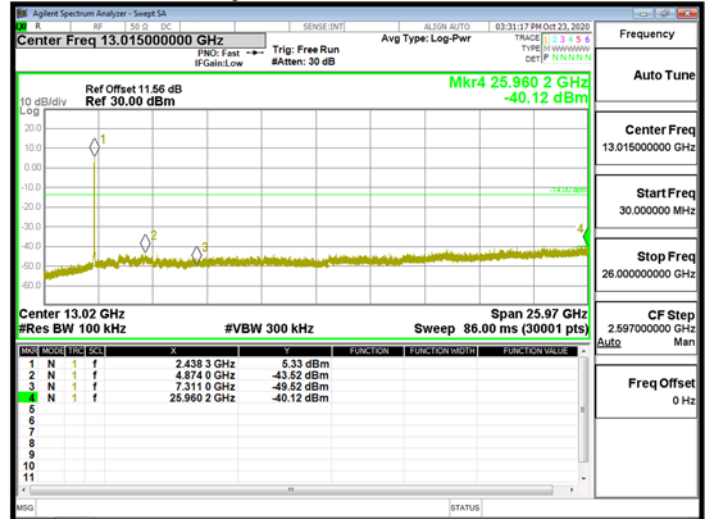
802.11g\_20MHz\_Chain1\_2412MHz



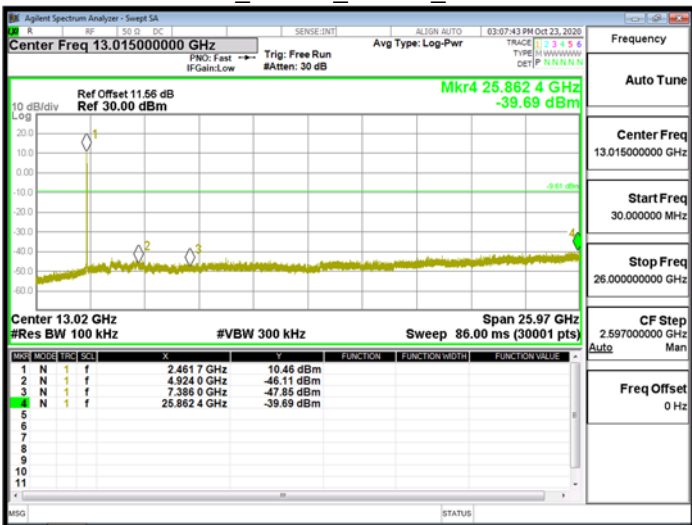
802.11b\_20MHz\_Chain1\_2437MHz



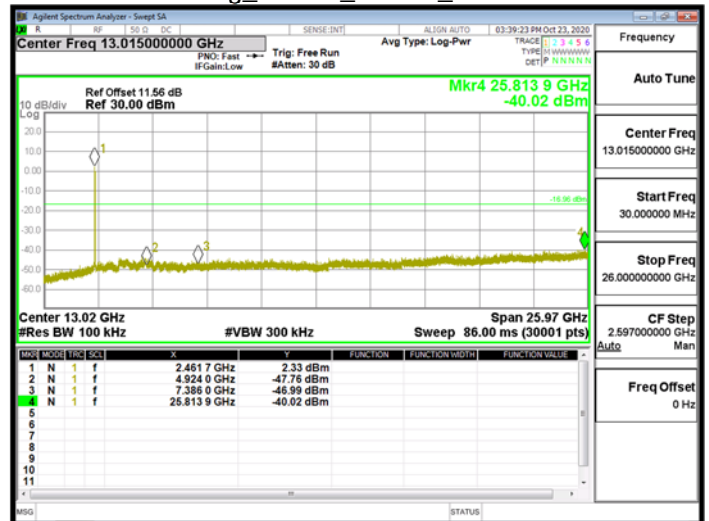
802.11g\_20MHz\_Chain1\_2437MHz



802.11b\_20MHz\_Chain1\_2462MHz



802.11g\_20MHz\_Chain1\_2462MHz

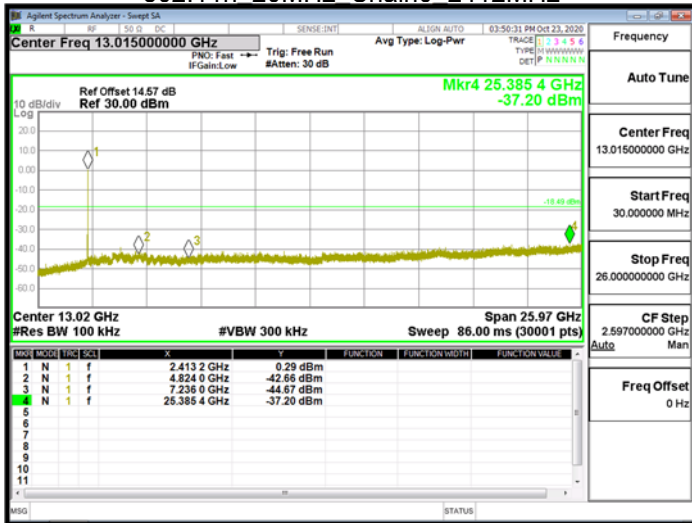


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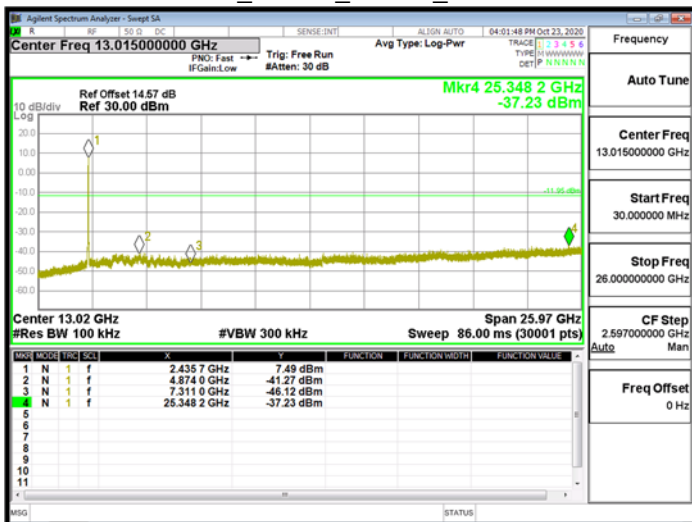
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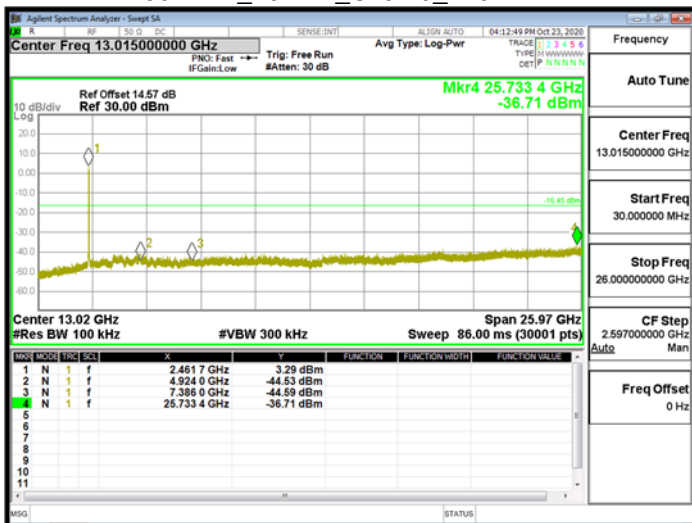
### 802.11n 20MHz Chain0 2412MHz



### 802.11n\_20MHz\_Chain0\_2437MHz



### 802.11n\_20MHz\_Chain0\_2462MHz



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## 11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 11.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below. And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

**Note:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBµV/m) = 20 log Emission level (µV/m)

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## 11.2 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/20/2019	12/19/2020
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2020	01/12/2021
Loop Antenna	ETS.LINDGREN	6502	148045	10/19/2020	10/18/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/10/2019	12/09/2020
Pre-Amplifier	EMC Instruments	EMC051825	980152	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A09469	01/02/2020	01/01/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	01/02/2020	01/01/2021
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	01/02/2020	01/01/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	01/02/2020	01/01/2021

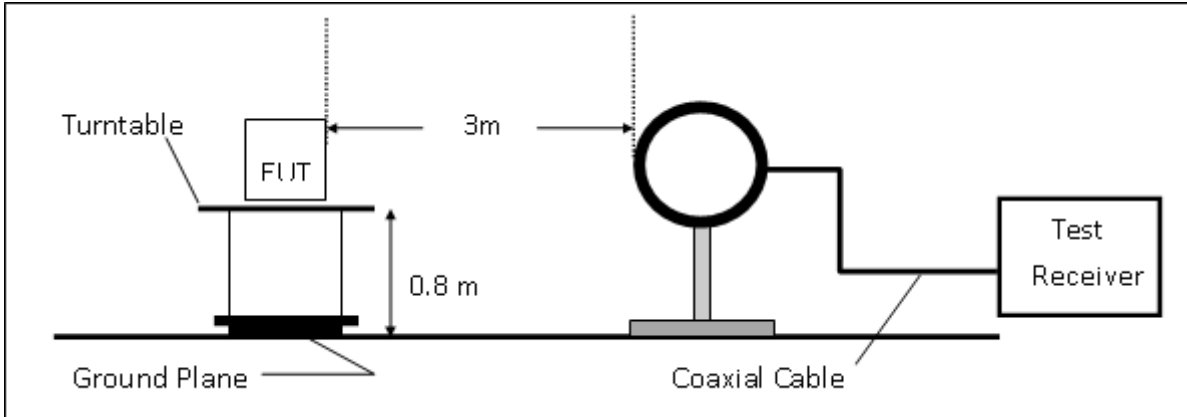
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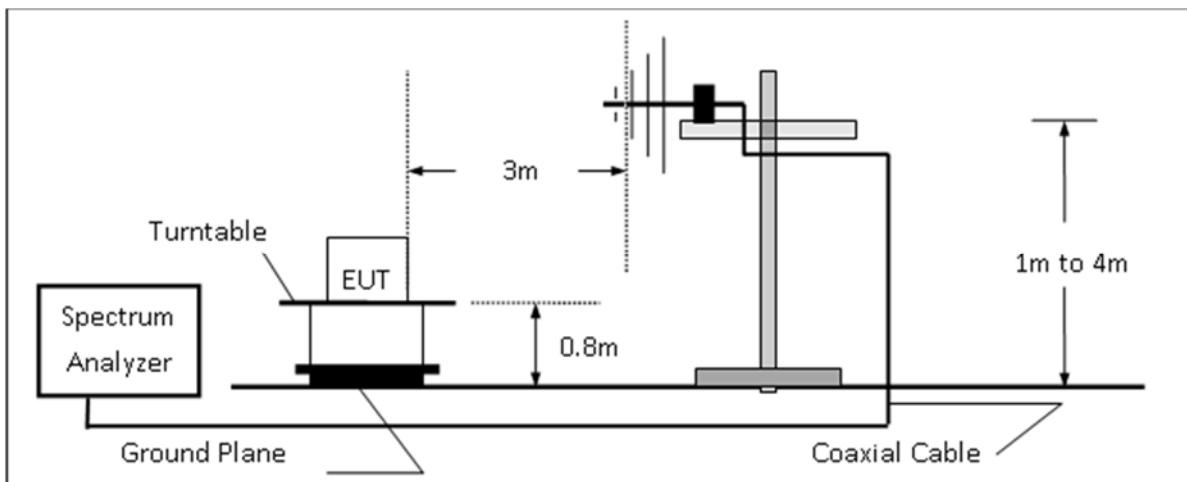
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### 11.3 Test SET-UP

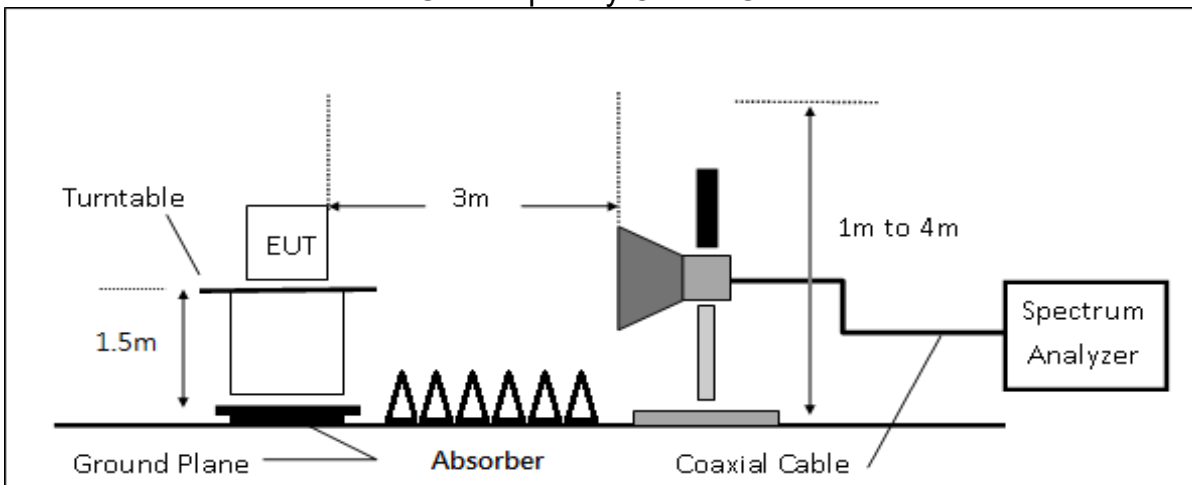
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
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. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel 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

The limit of the emission level is expressed in dBuV/m, which converts  $20 \cdot \log(uV/m)$

*Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)*

*Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)*

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## 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) & RSS-GEN §6.13.2 was not reported.

## 11.7 Measurement Result

**Note:**

1. *Refer to next page spectrum analyzer data chart and tabular data sheets.*
2. *Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands*

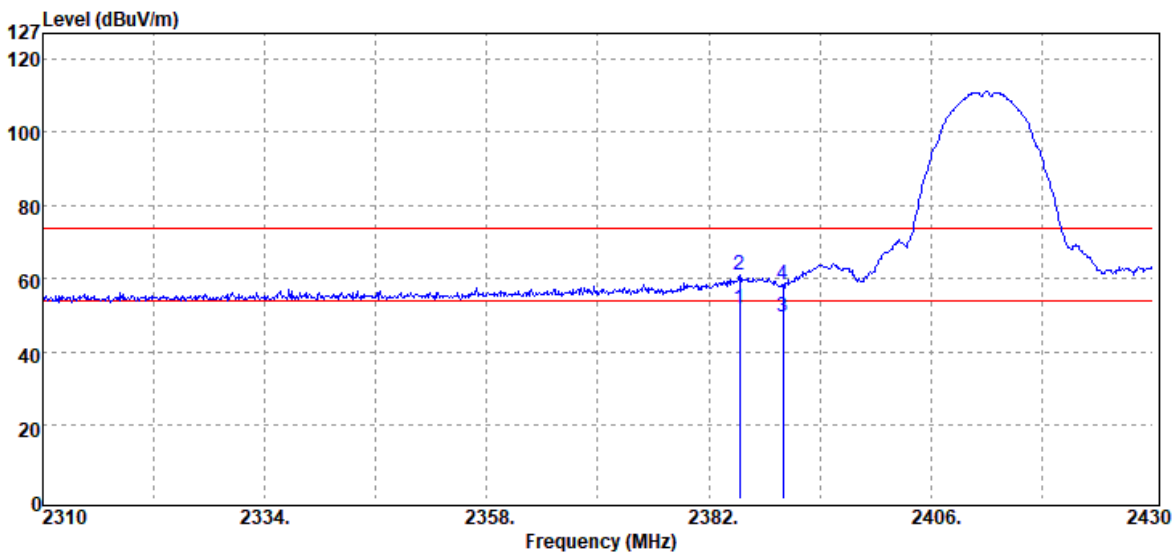
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### 11.7.1 Radiated Band Edge Measurement Result

Report Number	:ER/2020/90108	Test Site	:SAC I Chamber
Operation Mode	:802.11b	Test Date	:2020-10-15
Test Frequency	:2412 MHz	Temp./Humi.	:22.1/63
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2385.36	Average	44.55	7.48	52.03	54.00	-1.97
2385.36	Peak	53.49	7.48	60.97	74.00	-13.03
2390.00	Average	42.41	7.46	49.87	54.00	-4.13
2390.00	Peak	50.99	7.46	58.45	74.00	-15.55

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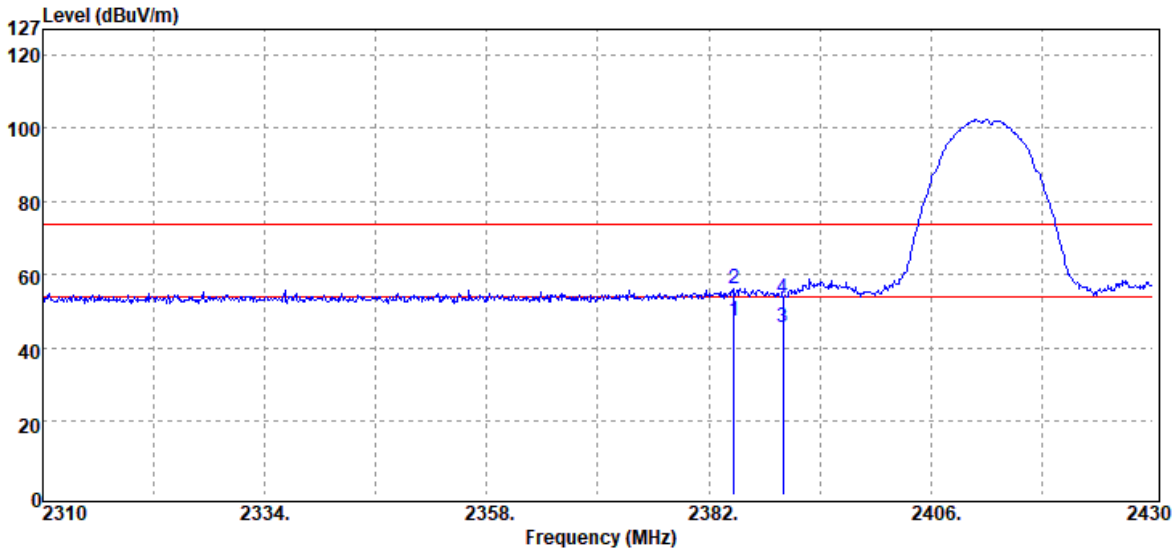
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2384.76	Average	39.94	7.48	47.42	54.00	-6.58
2384.76	Peak	48.93	7.48	56.41	74.00	-17.59
2390.00	Average	38.11	7.46	45.57	54.00	-8.43
2390.00	Peak	46.26	7.46	53.72	74.00	-20.28

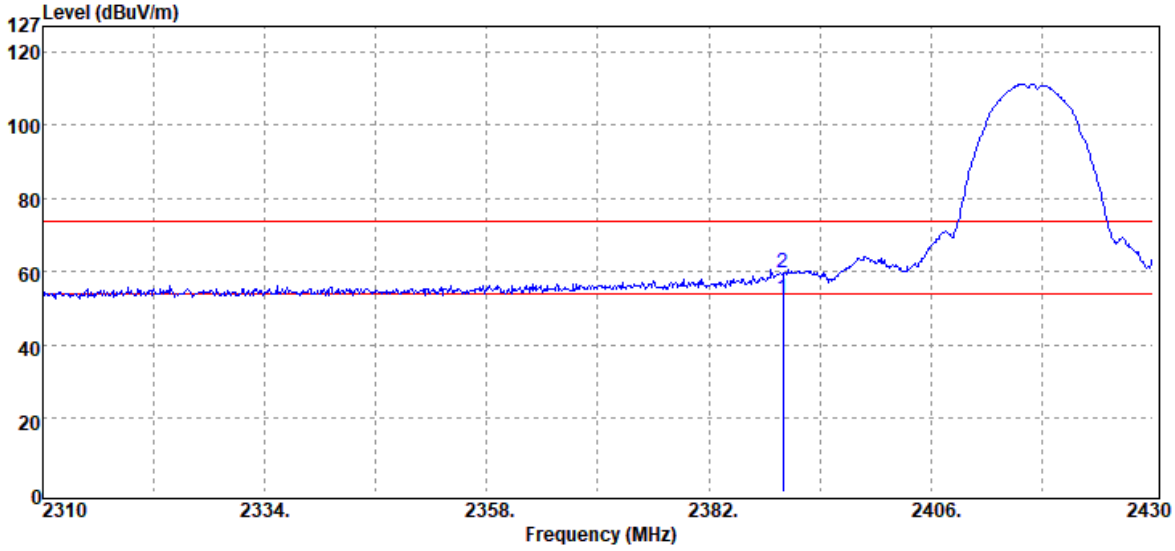
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2417 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-14  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.00	Average	45.27	7.46	52.73	54.00	-1.27
2390.00	Peak	52.43	7.46	59.89	74.00	-14.11

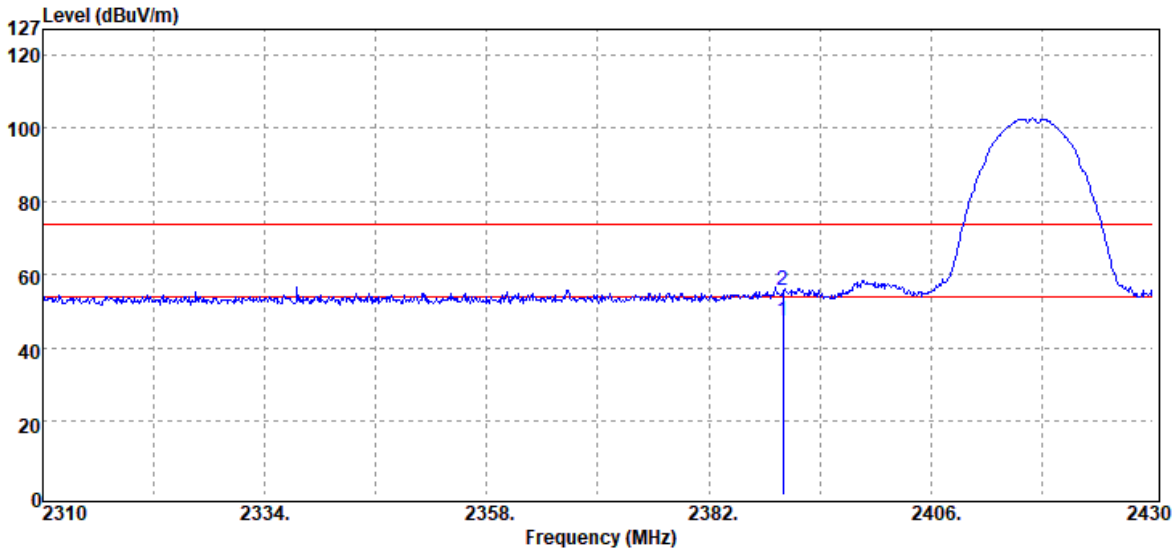
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2417 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.00	Average	39.81	7.46	47.27	54.00	-6.73
2390.00	Peak	48.43	7.46	55.89	74.00	-18.11

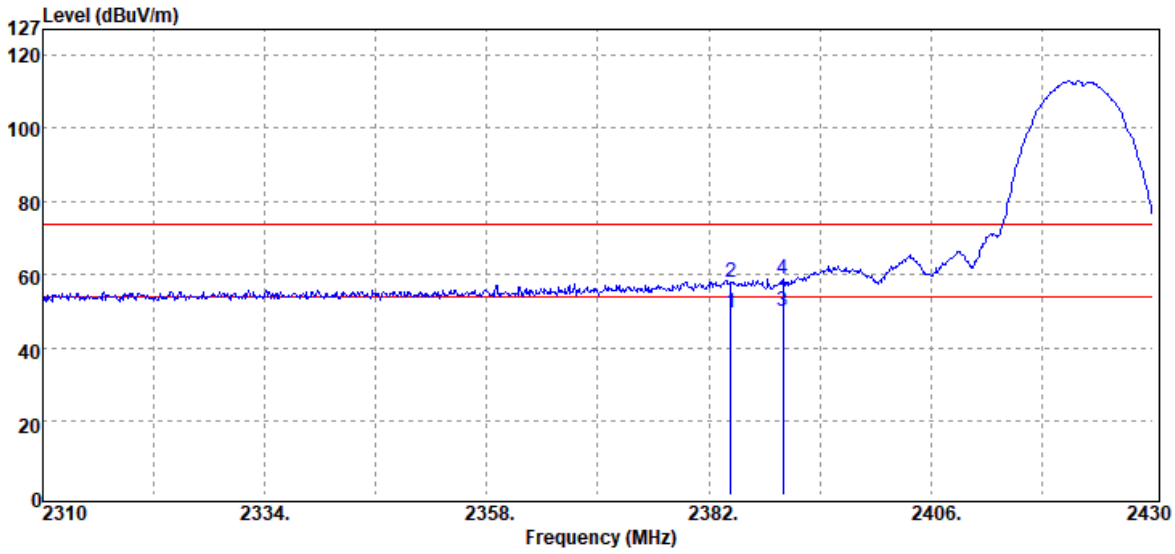
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-14  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2384.36	Average	42.28	7.48	49.76	54.00	-4.24
2384.36	Peak	50.32	7.48	57.80	74.00	-16.20
2390.00	Average	42.48	7.46	49.94	54.00	-4.06
2390.00	Peak	51.57	7.46	59.03	74.00	-14.97

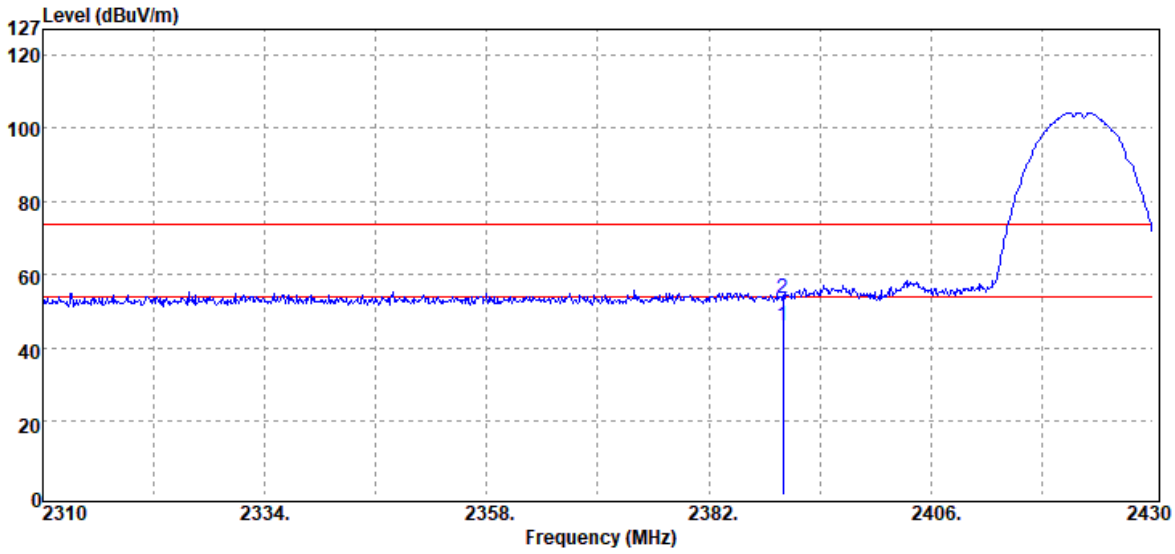
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.00	Average	38.63	7.46	46.09	54.00	-7.91
2390.00	Peak	46.03	7.46	53.49	74.00	-20.51

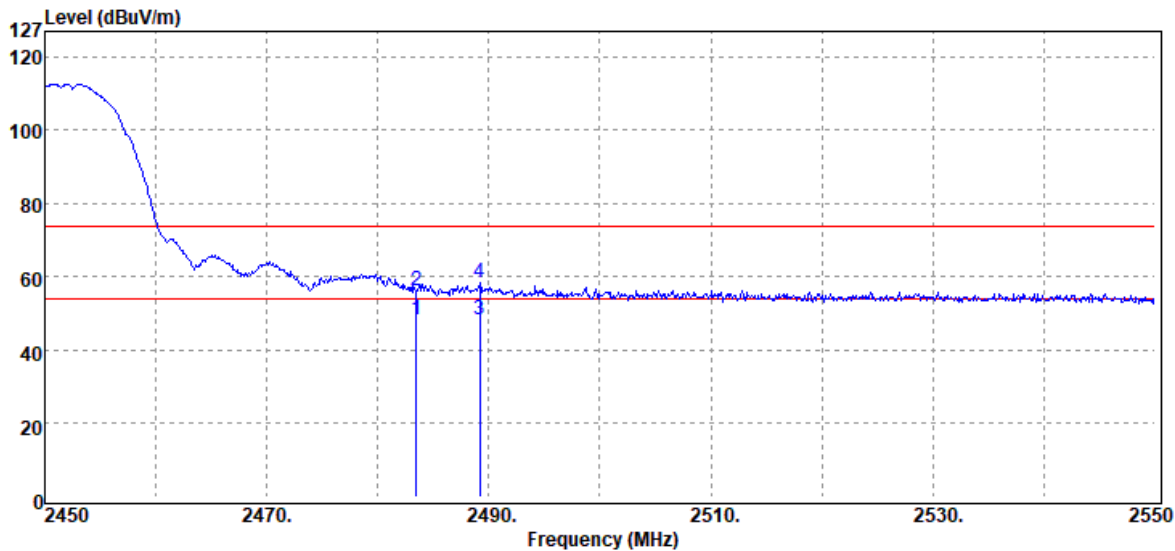
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2452 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-14  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	40.86	7.46	48.32	54.00	-5.68
2483.50	Peak	48.84	7.46	56.30	74.00	-17.70
2489.20	Average	40.90	7.47	48.37	54.00	-5.63
2489.20	Peak	50.91	7.47	58.38	74.00	-15.62

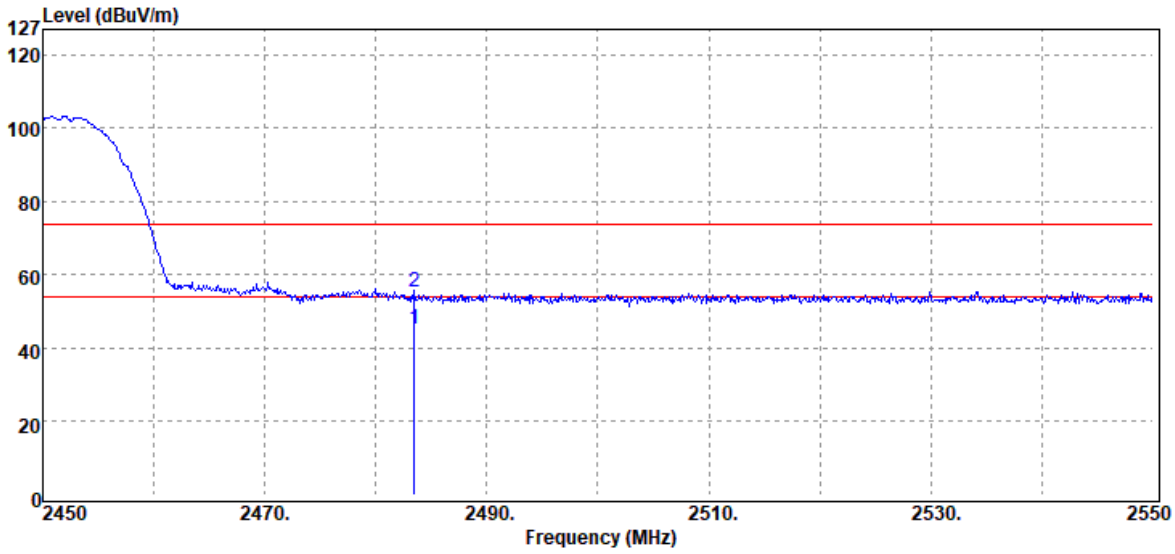
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2452 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	37.67	7.46	45.13	54.00	-8.87
2483.50	Peak	48.12	7.46	55.58	74.00	-18.42

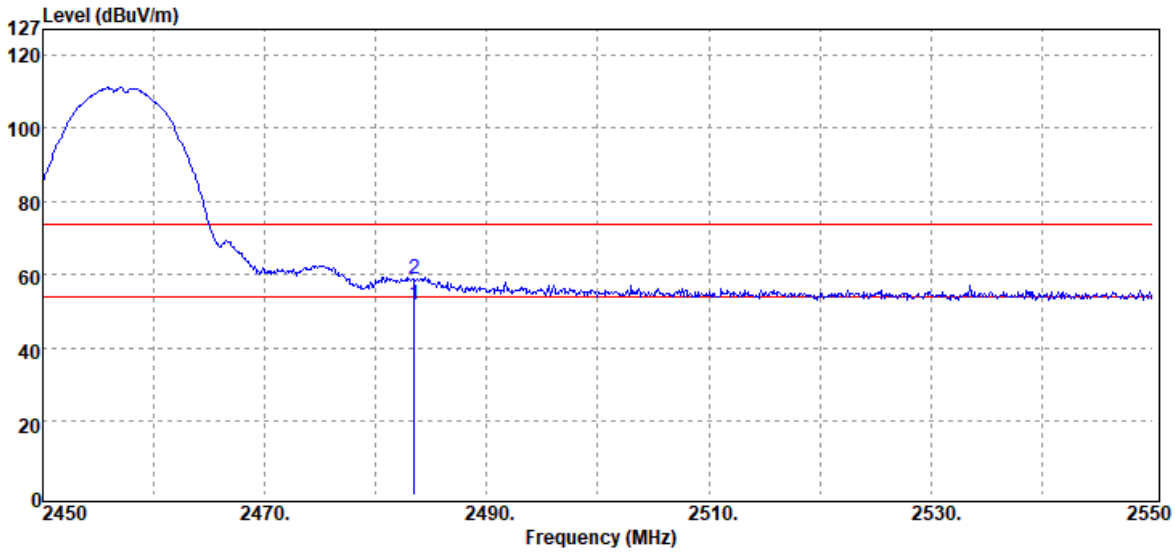
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2457 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	44.38	7.46	51.84	54.00	-2.16
2483.50	Peak	51.60	7.46	59.06	74.00	-14.94

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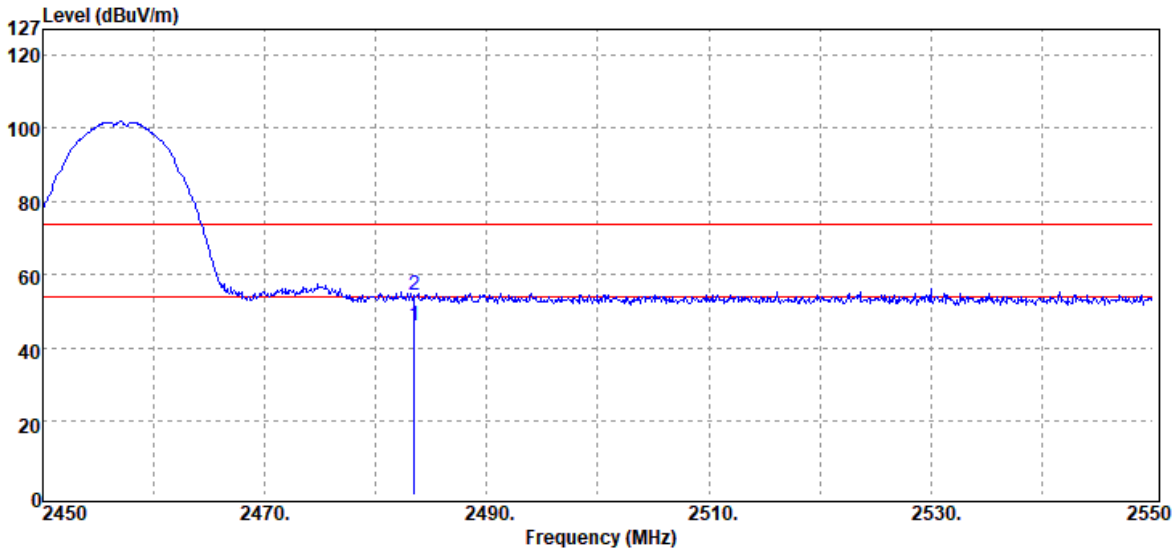
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2457 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level d $\mu$ V	Factor dB	Actual FS d $\mu$ V/m	Limit @3m d $\mu$ V/m	Margin dB
2483.50	Average	38.61	7.46	46.07	54.00	-7.93
2483.50	Peak	46.83	7.46	54.29	74.00	-19.71

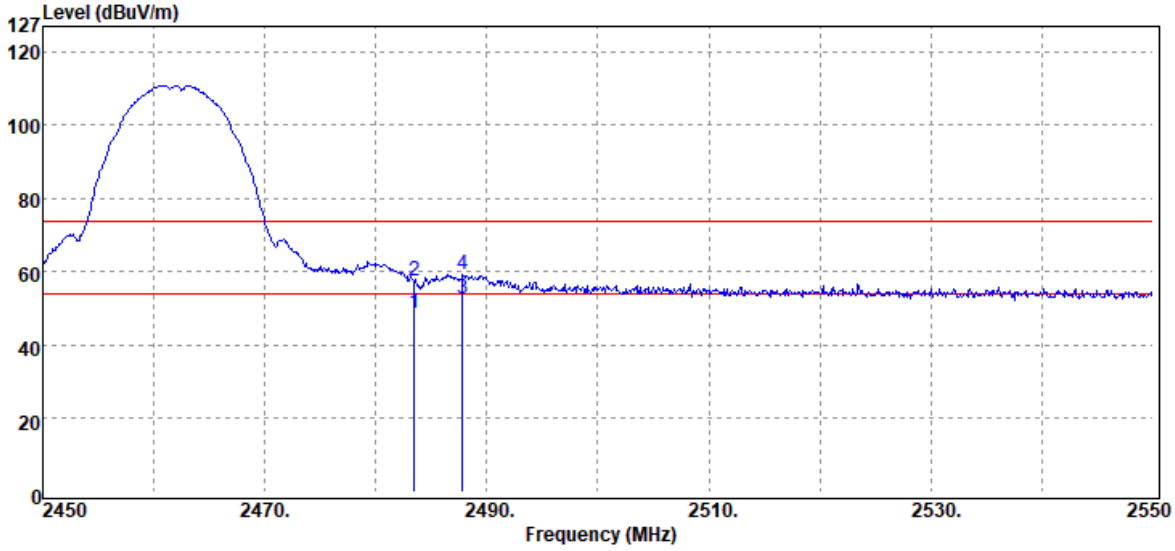
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-14  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.50	Average	41.51	7.46	48.97	54.00	-5.03
2483.50	Peak	49.96	7.46	57.42	74.00	-16.58
2487.80	Average	45.29	7.46	52.75	54.00	-1.25
2487.80	Peak	52.06	7.46	59.52	74.00	-14.48

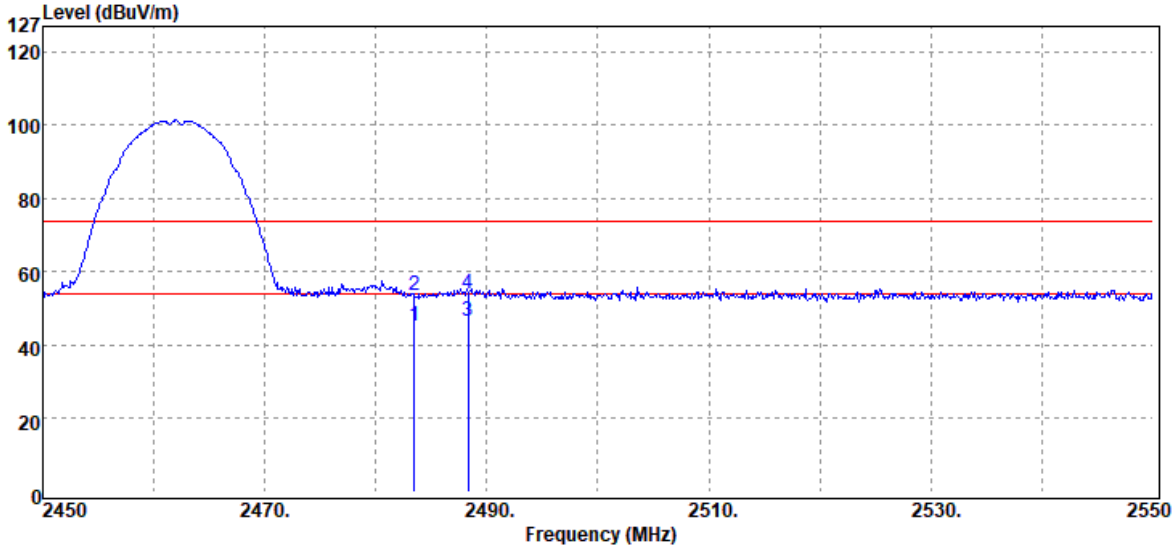
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	37.67	7.46	45.13	54.00	-8.87
2483.50	Peak	46.35	7.46	53.81	74.00	-20.19
2488.30	Average	38.91	7.46	46.37	54.00	-7.63
2488.30	Peak	46.73	7.46	54.19	74.00	-19.81

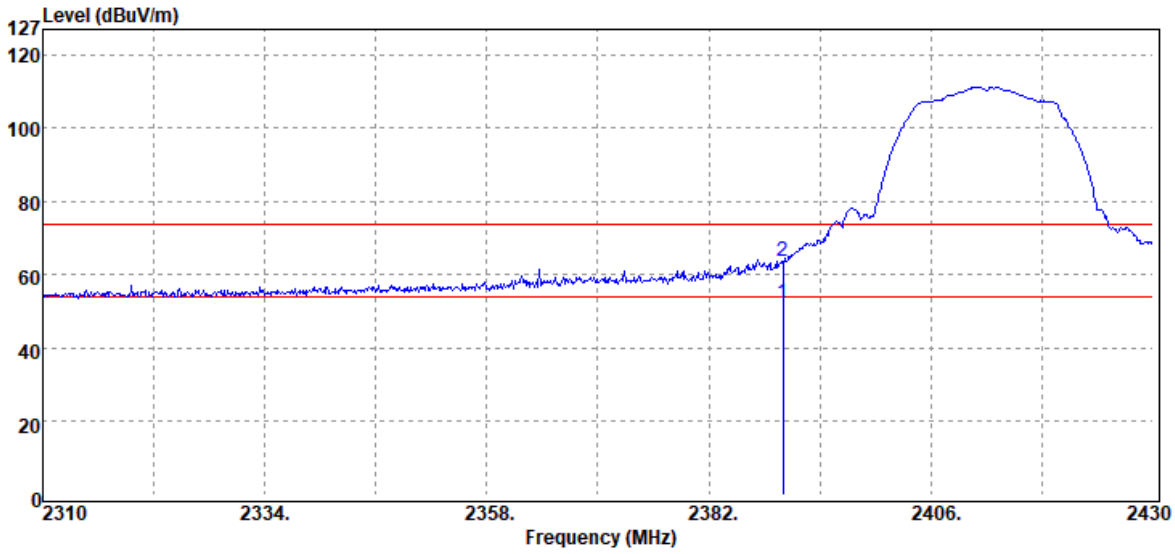
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-14  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.00	Average	45.03	7.46	52.49	54.00	-1.51
2390.00	Peak	56.29	7.46	63.75	74.00	-10.25

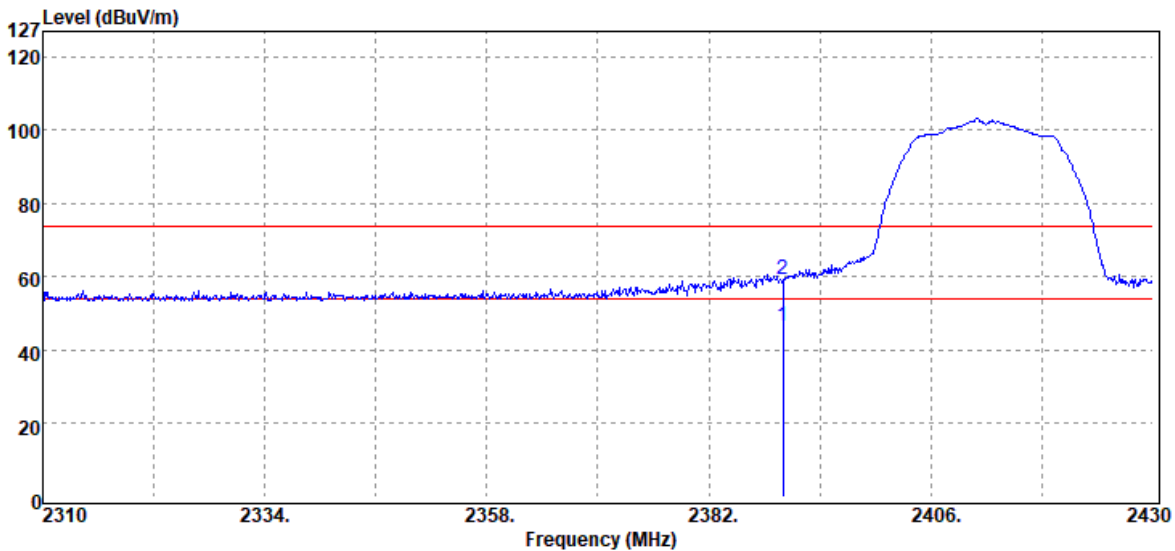
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.00	Average	39.14	7.46	46.60	54.00	-7.40
2390.00	Peak	51.84	7.46	59.30	74.00	-14.70

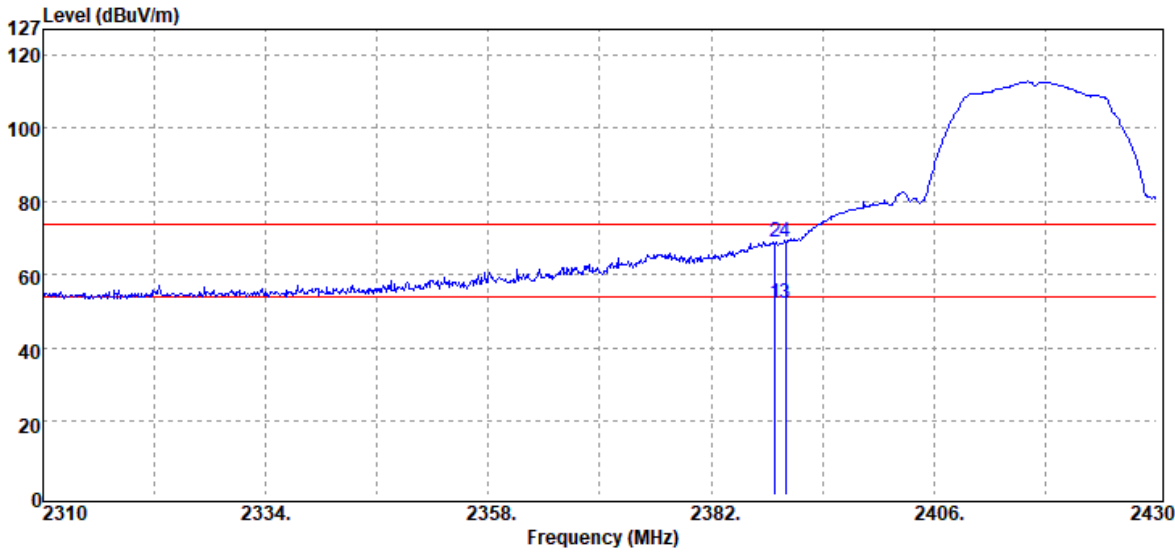
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2417 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-14  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2388.92	Average	44.98	7.46	52.44	54.00	-1.56
2388.92	Peak	61.58	7.46	69.04	74.00	-4.96
2390.00	Average	44.63	7.46	52.09	54.00	-1.91
2390.00	Peak	61.33	7.46	68.79	74.00	-5.21

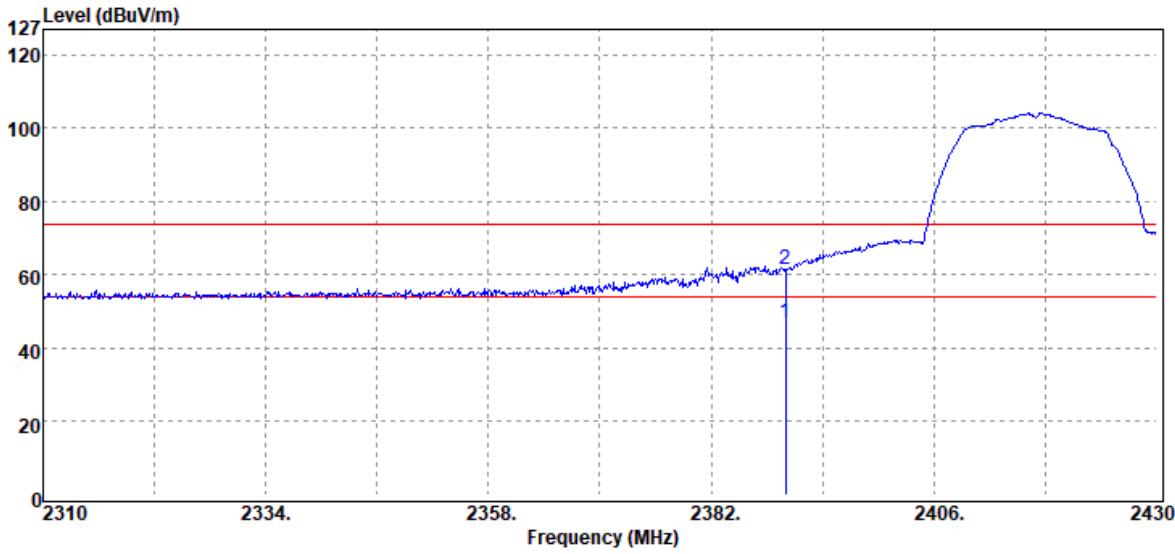
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2417 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.00	Average	39.63	7.46	47.09	54.00	-6.91
2390.00	Peak	54.17	7.46	61.63	74.00	-12.37

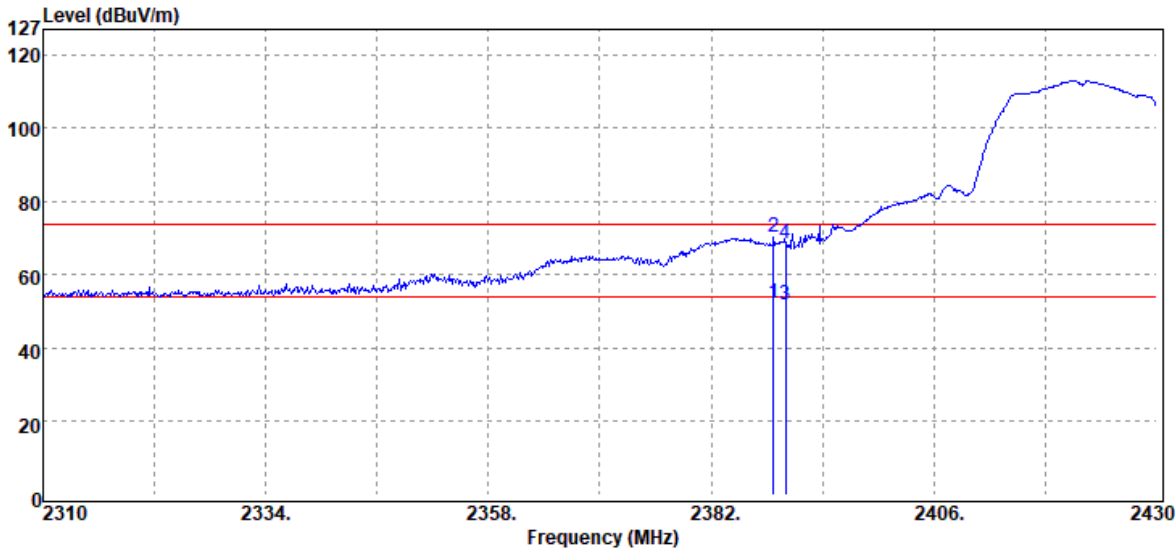
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-14  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2388.72	Average	44.81	7.46	52.27	54.00	-1.73
2388.72	Peak	62.67	7.46	70.13	74.00	-3.87
2390.00	Average	44.51	7.46	51.97	54.00	-2.03
2390.00	Peak	61.06	7.46	68.52	74.00	-5.48

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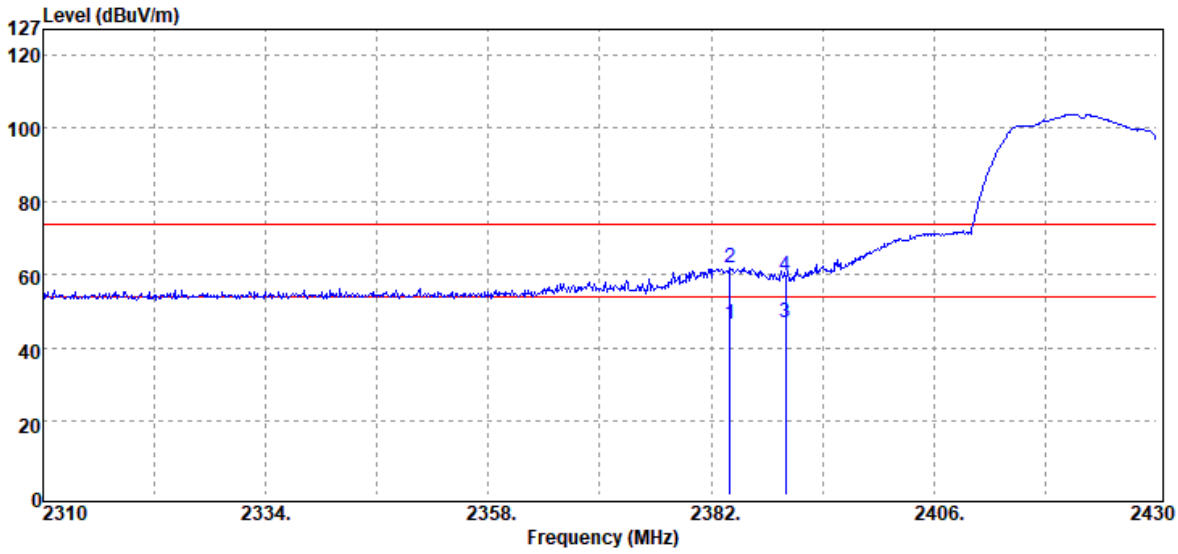
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2384.04	Average	39.18	7.49	46.67	54.00	-7.33
2384.04	Peak	54.45	7.49	61.94	74.00	-12.06
2390.00	Average	39.52	7.46	46.98	54.00	-7.02
2390.00	Peak	52.20	7.46	59.66	74.00	-14.34

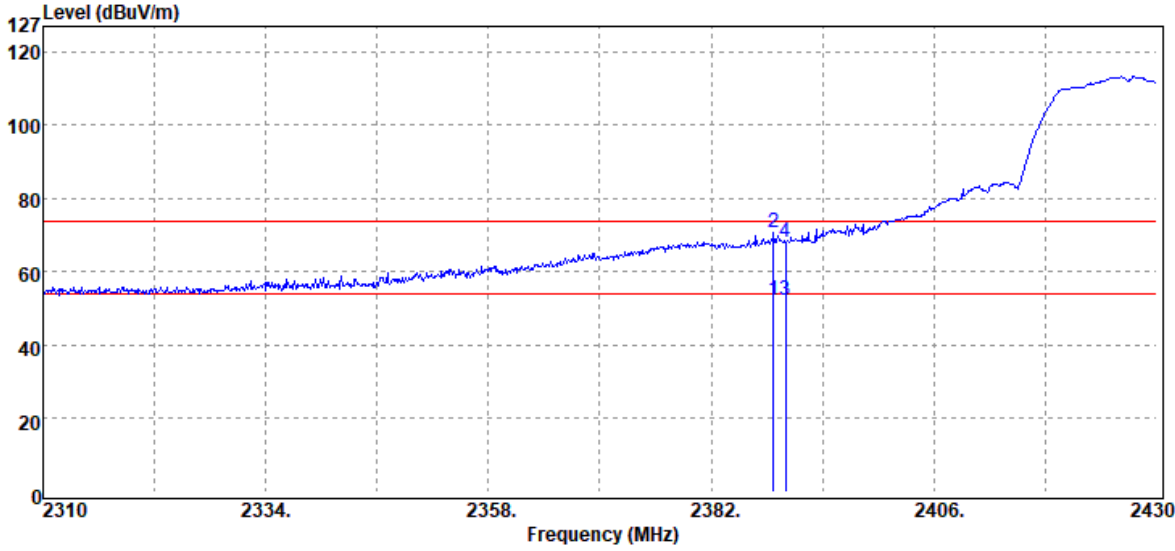
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2427 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-14  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2388.72	Average	44.87	7.46	52.33	54.00	-1.67
2388.72	Peak	63.17	7.46	70.63	74.00	-3.37
2390.00	Average	44.96	7.46	52.42	54.00	-1.58
2390.00	Peak	60.66	7.46	68.12	74.00	-5.88

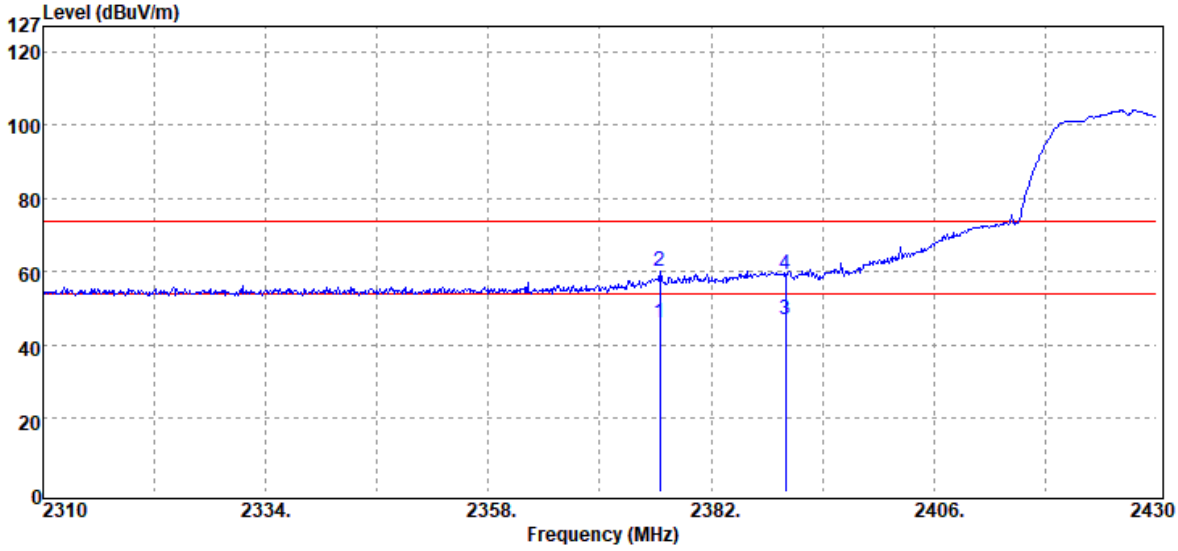
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2427 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2376.48	Average	38.51	7.50	46.01	54.00	-7.99
2376.48	Peak	52.74	7.50	60.24	74.00	-13.76
2390.00	Average	39.45	7.46	46.91	54.00	-7.09
2390.00	Peak	51.92	7.46	59.38	74.00	-14.62

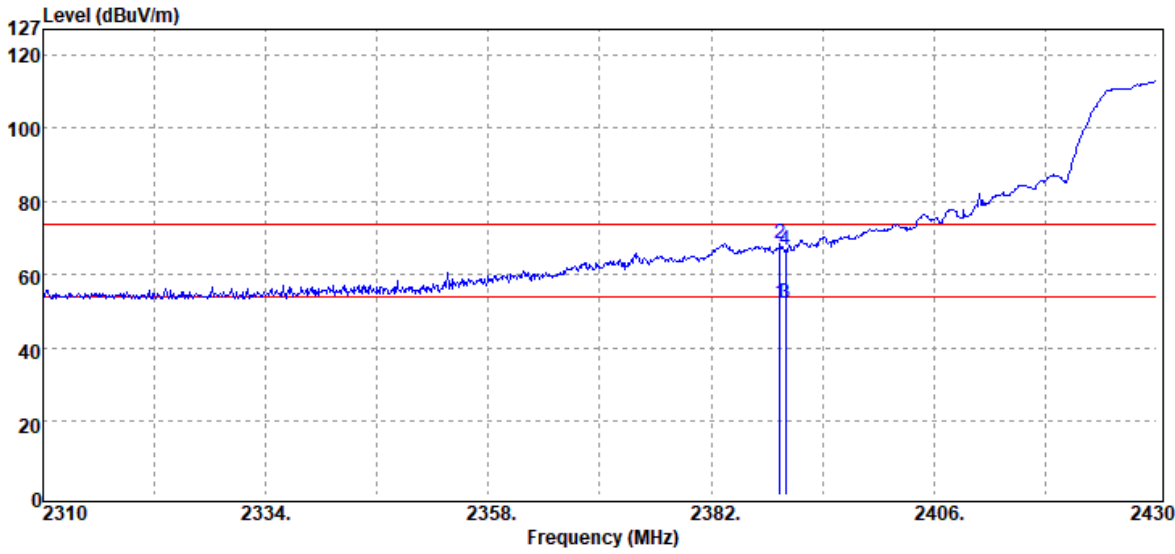
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2432 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-14  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.44	Average	44.92	7.46	52.38	54.00	-1.62
2389.44	Peak	60.90	7.46	68.36	74.00	-5.64
2390.00	Average	44.83	7.46	52.29	54.00	-1.71
2390.00	Peak	59.41	7.46	66.87	74.00	-7.13

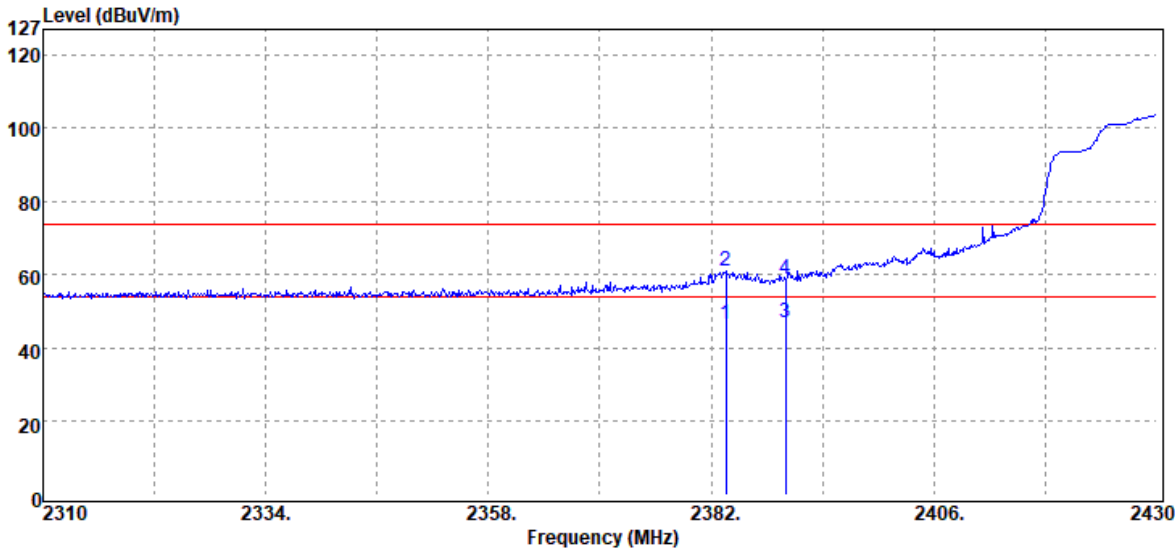
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2432 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2383.56	Average	39.24	7.48	46.72	54.00	-7.28
2383.56	Peak	53.40	7.48	60.88	74.00	-13.12
2390.00	Average	39.56	7.46	47.02	54.00	-6.98
2390.00	Peak	51.30	7.46	58.76	74.00	-15.24

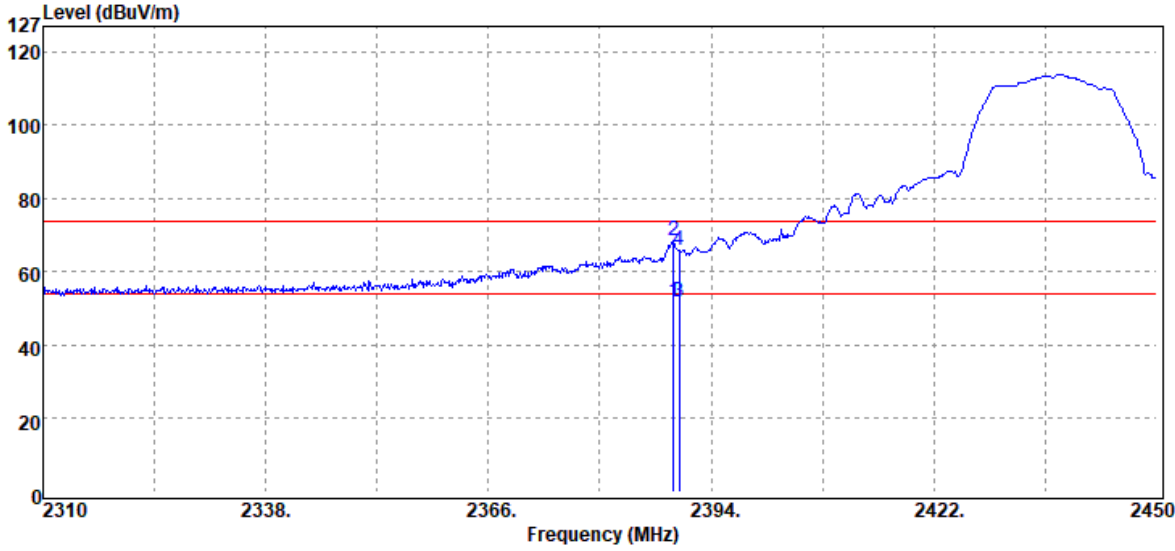
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Bandedge CH Mid  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-14  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.24	Average	44.20	7.45	51.65	54.00	-2.35
2389.24	Peak	60.99	7.45	68.44	74.00	-5.56
2390.00	Average	44.53	7.46	51.99	54.00	-2.01
2390.00	Peak	58.54	7.46	66.00	74.00	-8.00

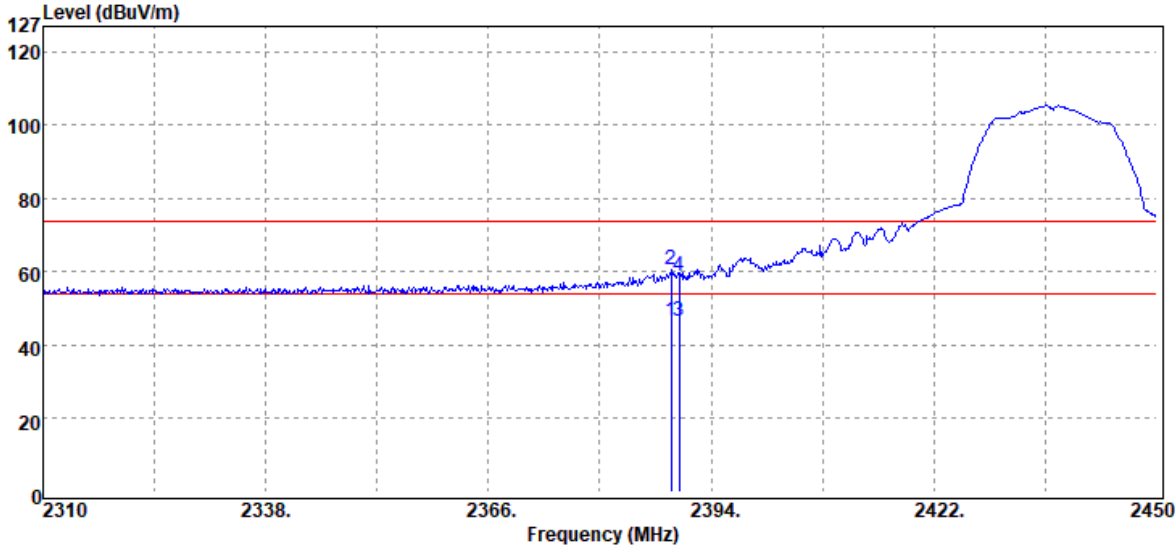
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Bandedge CH Mid  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2388.96	Average	39.22	7.46	46.68	54.00	-7.32
2388.96	Peak	53.03	7.46	60.49	74.00	-13.51
2390.00	Average	39.34	7.46	46.80	54.00	-7.20
2390.00	Peak	51.44	7.46	58.90	74.00	-15.10

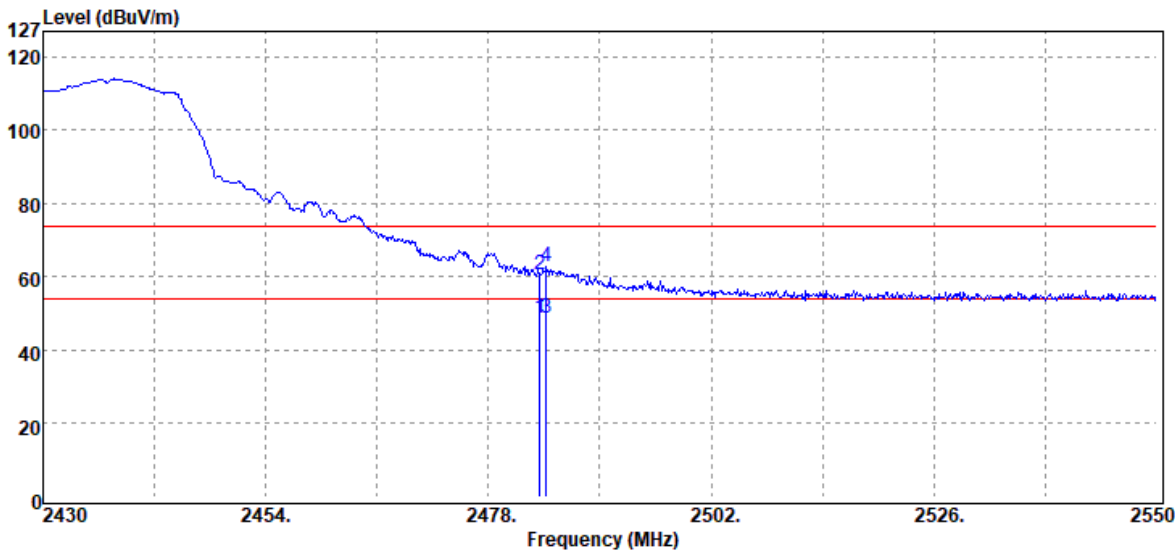
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Bandedge CH Mid  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-14  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	41.35	7.46	48.81	54.00	-5.19
2483.50	Peak	53.37	7.46	60.83	74.00	-13.17
2484.24	Average	41.15	7.46	48.61	54.00	-5.39
2484.24	Peak	55.27	7.46	62.73	74.00	-11.27

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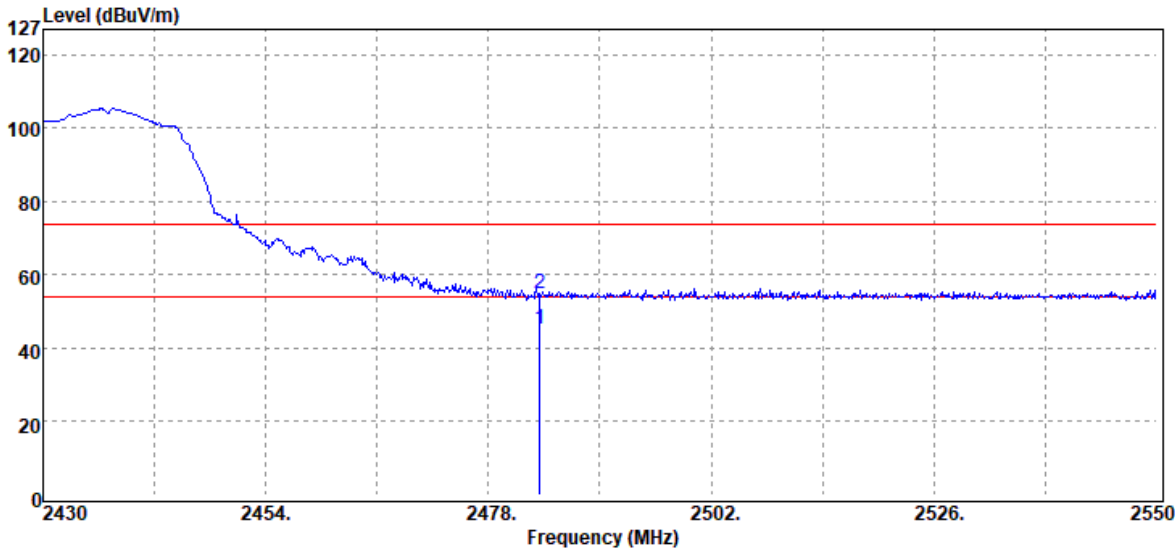
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Bandedge CH Mid  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	37.93	7.46	45.39	54.00	-8.61
2483.50	Peak	47.36	7.46	54.82	74.00	-19.18

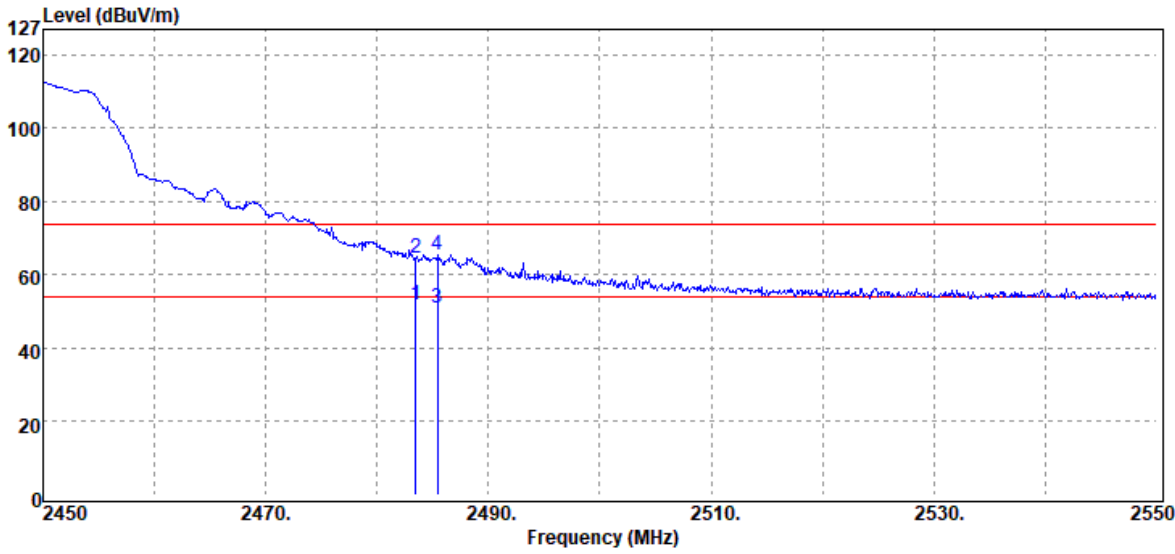
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2447 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-14  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	44.28	7.46	51.74	54.00	-2.26
2483.50	Peak	57.35	7.46	64.81	74.00	-9.19
2485.40	Average	43.61	7.46	51.07	54.00	-2.93
2485.40	Peak	57.95	7.46	65.41	74.00	-8.59

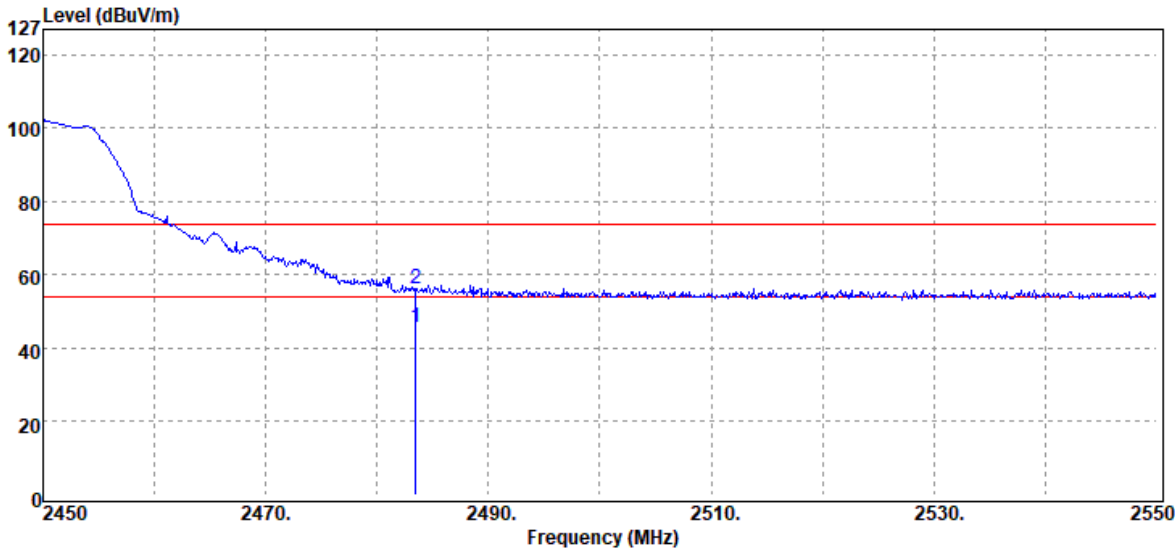
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2447 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	38.33	7.46	45.79	54.00	-8.21
2483.50	Peak	48.58	7.46	56.04	74.00	-17.96

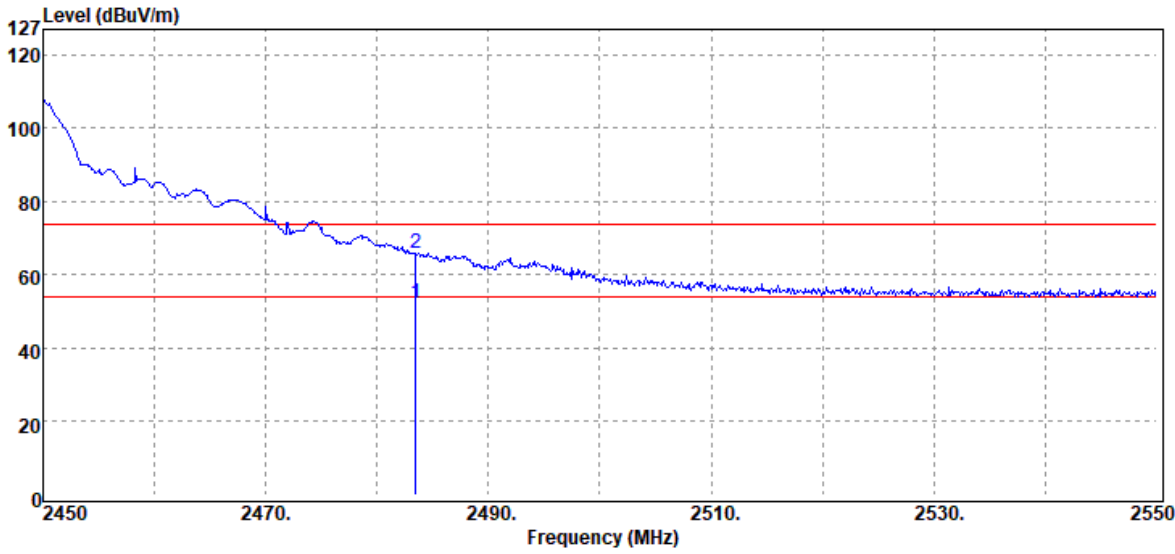
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2442 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-14  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	44.86	7.46	52.32	54.00	-1.68
2483.50	Peak	58.67	7.46	66.13	74.00	-7.87

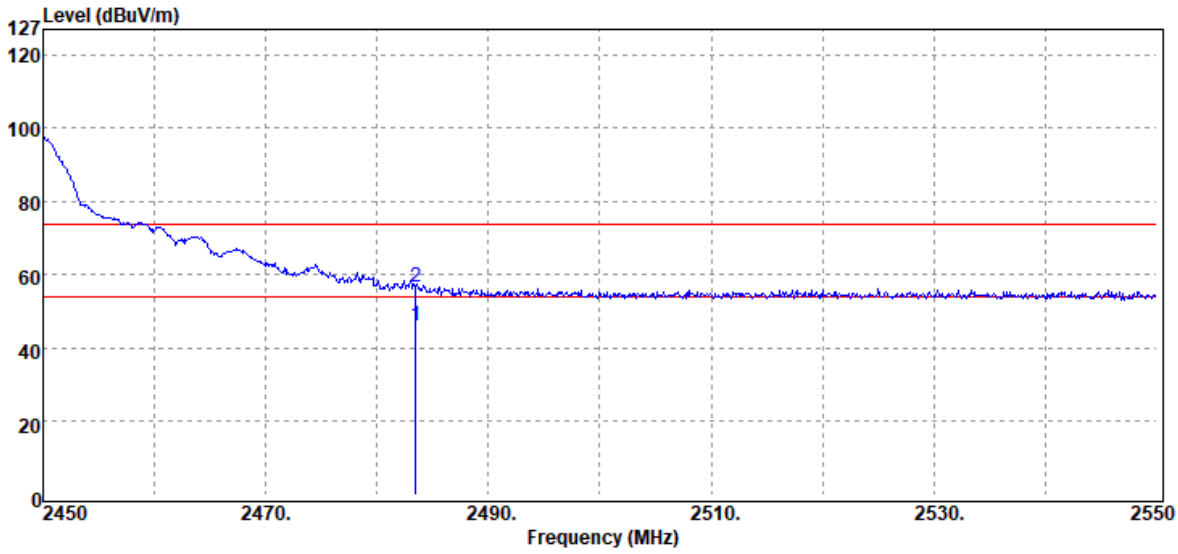
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2442 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	38.62	7.46	46.08	54.00	-7.92
2483.50	Peak	49.33	7.46	56.79	74.00	-17.21

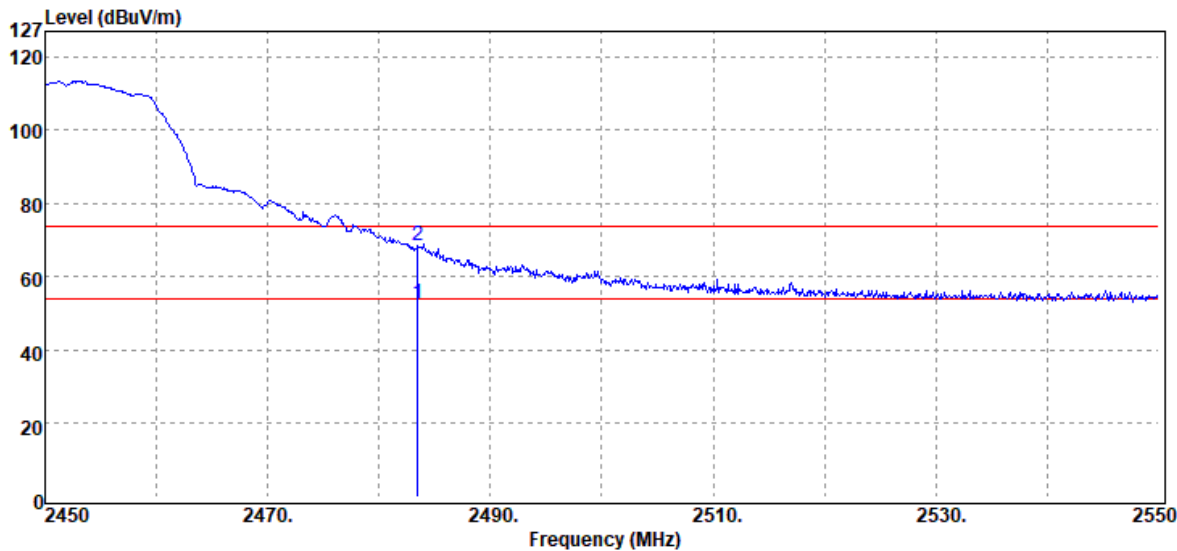
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2452 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-14  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	45.23	7.46	52.69	54.00	-1.31
2483.50	Peak	60.89	7.46	68.35	74.00	-5.65

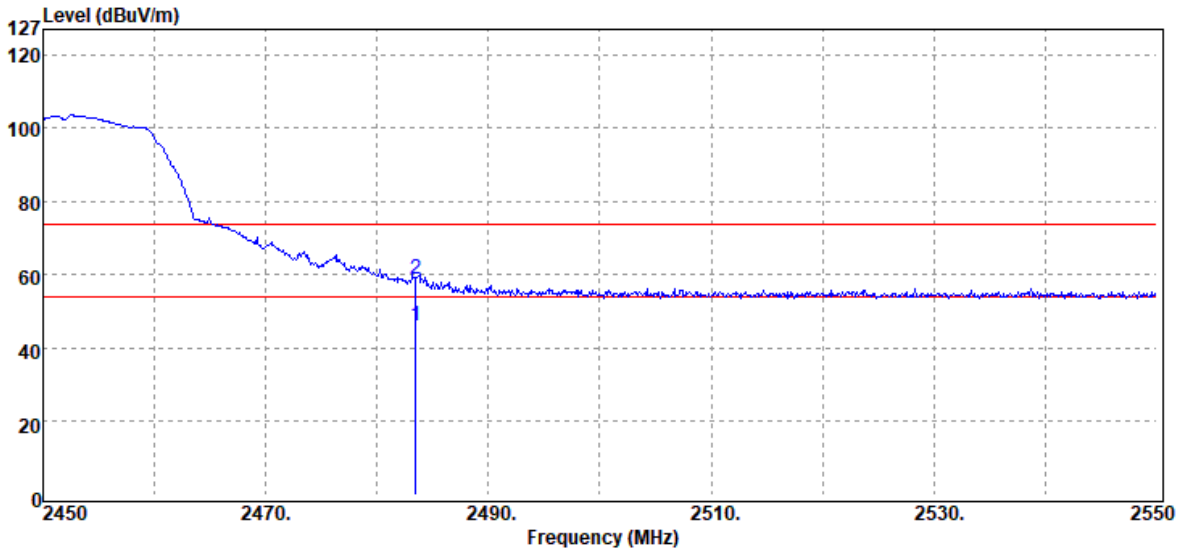
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2452 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	38.89	7.46	46.35	54.00	-7.65
2483.50	Peak	51.48	7.46	58.94	74.00	-15.06

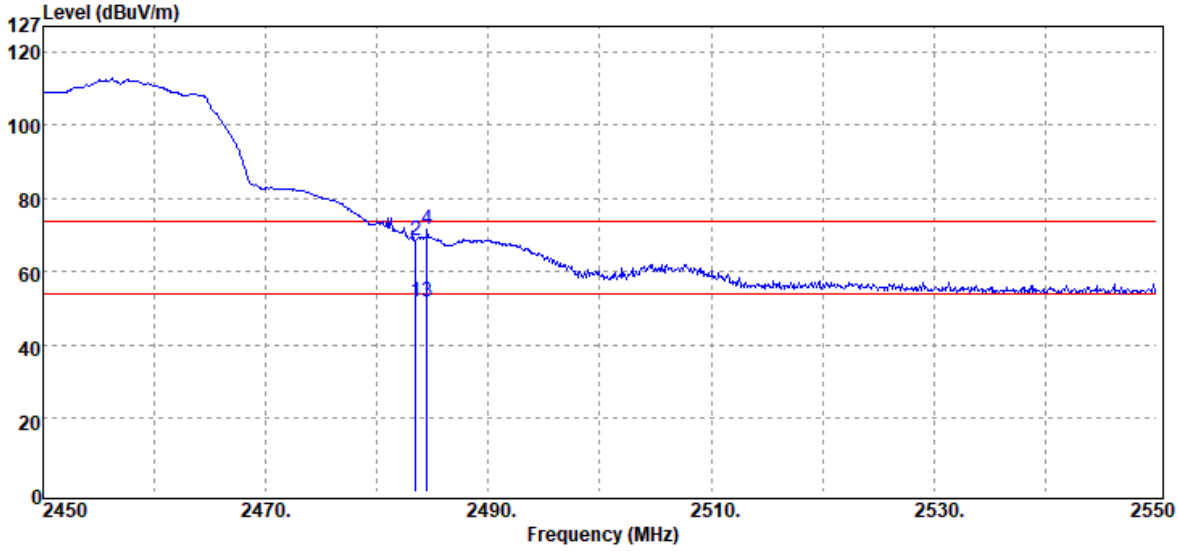
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2457 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-14  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	44.36	7.46	51.82	54.00	-2.18
2483.50	Peak	61.25	7.46	68.71	74.00	-5.29
2484.50	Average	44.22	7.46	51.68	54.00	-2.32
2484.50	Peak	64.29	7.46	71.75	74.00	-2.25

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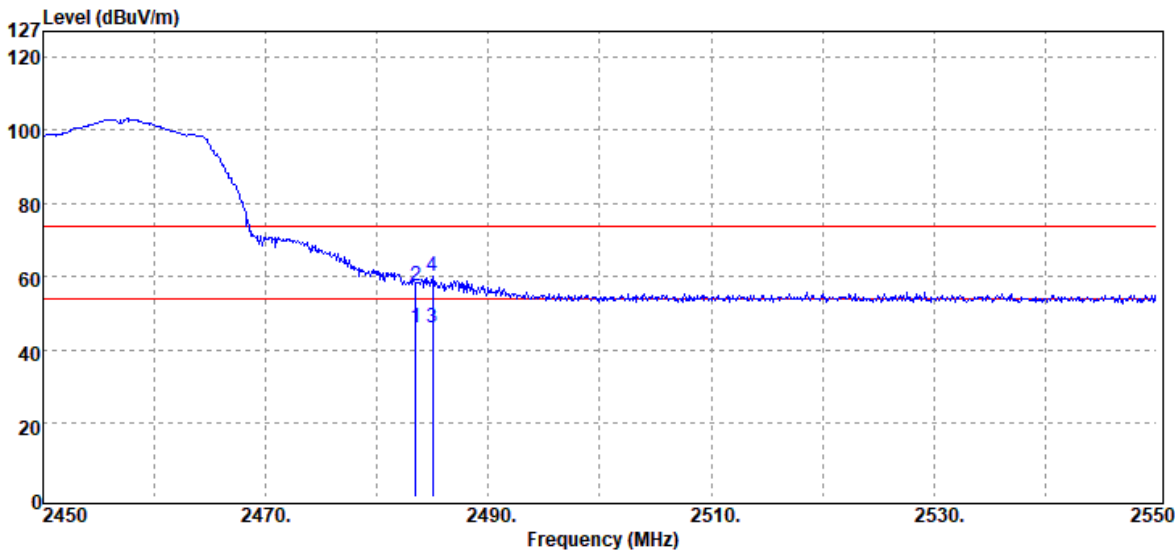
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2457 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	38.82	7.46	46.28	54.00	-7.72
2483.50	Peak	50.18	7.46	57.64	74.00	-16.36
2485.00	Average	38.62	7.46	46.08	54.00	-7.92
2485.00	Peak	52.62	7.46	60.08	74.00	-13.92

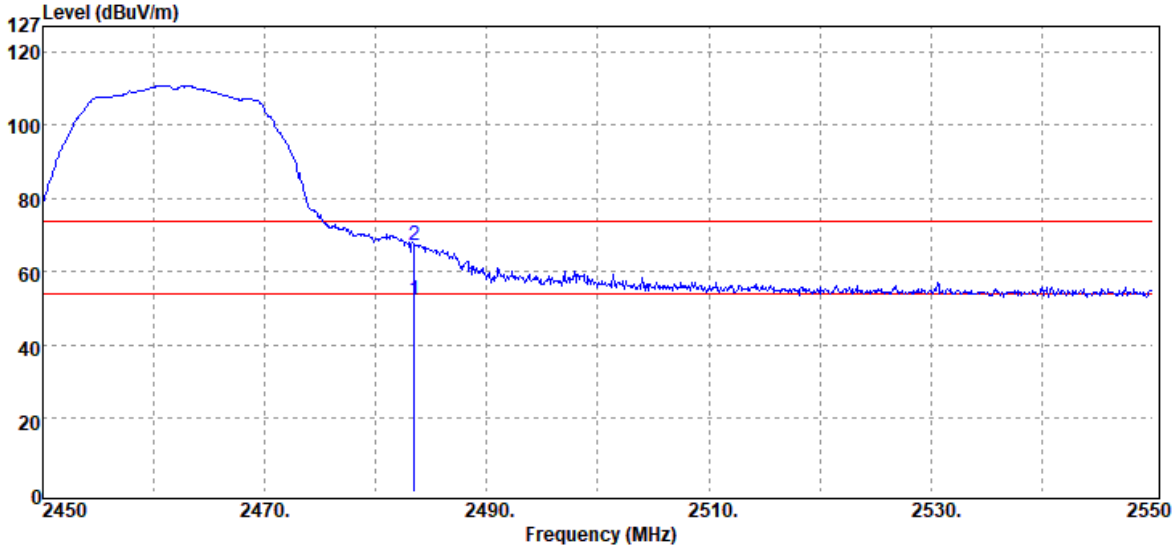
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-14  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	44.69	7.46	52.15	54.00	-1.85
2483.50	Peak	59.96	7.46	67.42	74.00	-6.58

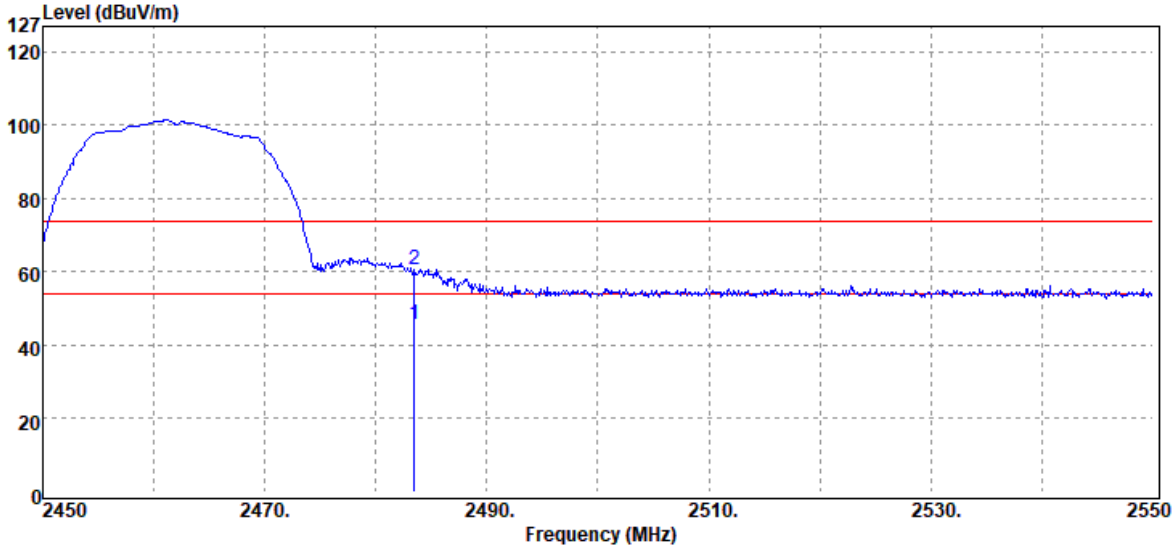
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-15  
 Temp./Humi. :22.1/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	38.32	7.46	45.78	54.00	-8.22
2483.50	Peak	52.97	7.46	60.43	74.00	-13.57

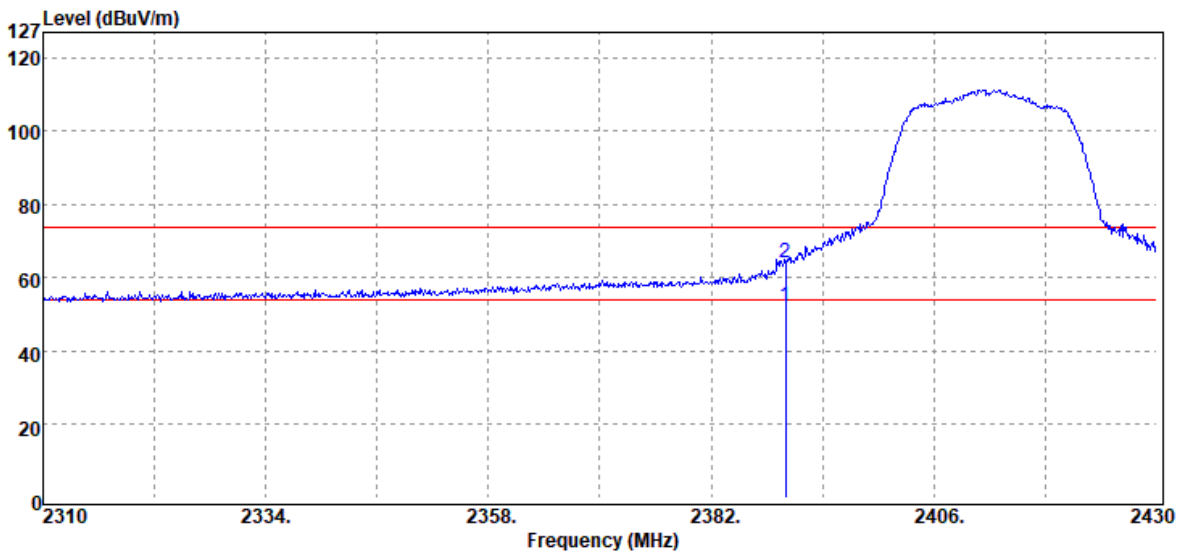
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d $\mu$ V	Factor dB	Actual FS d $\mu$ V/m	Limit @3m d $\mu$ V/m	Margin dB
2390.00	Average	44.98	7.46	52.44	54.00	-1.56
2390.00	Peak	56.80	7.46	64.26	74.00	-9.74

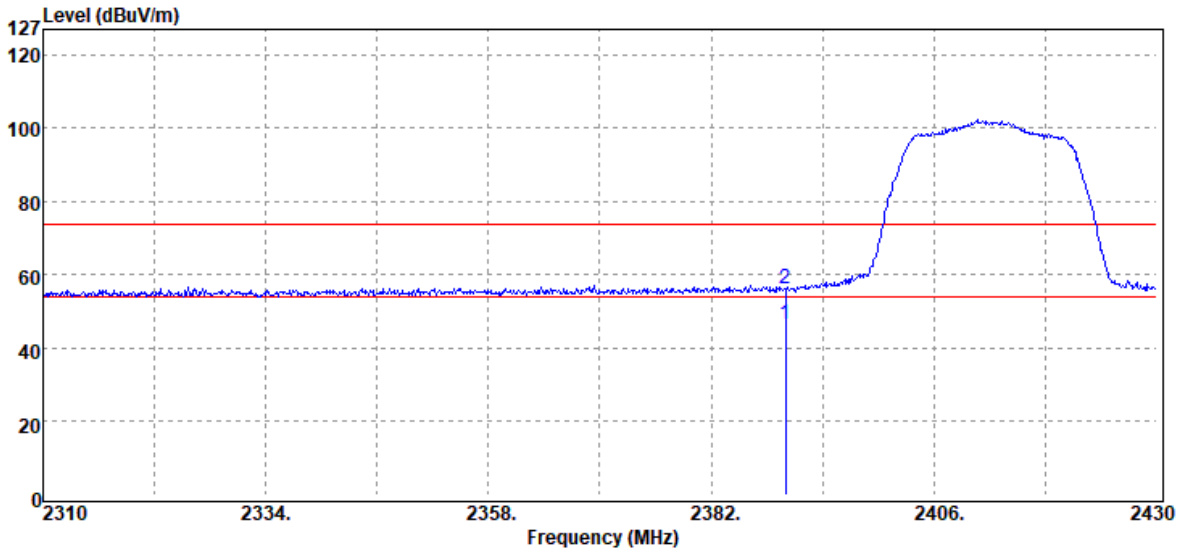
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.00	Average	39.24	7.46	46.70	54.00	-7.30
2390.00	Peak	48.99	7.46	56.45	74.00	-17.55

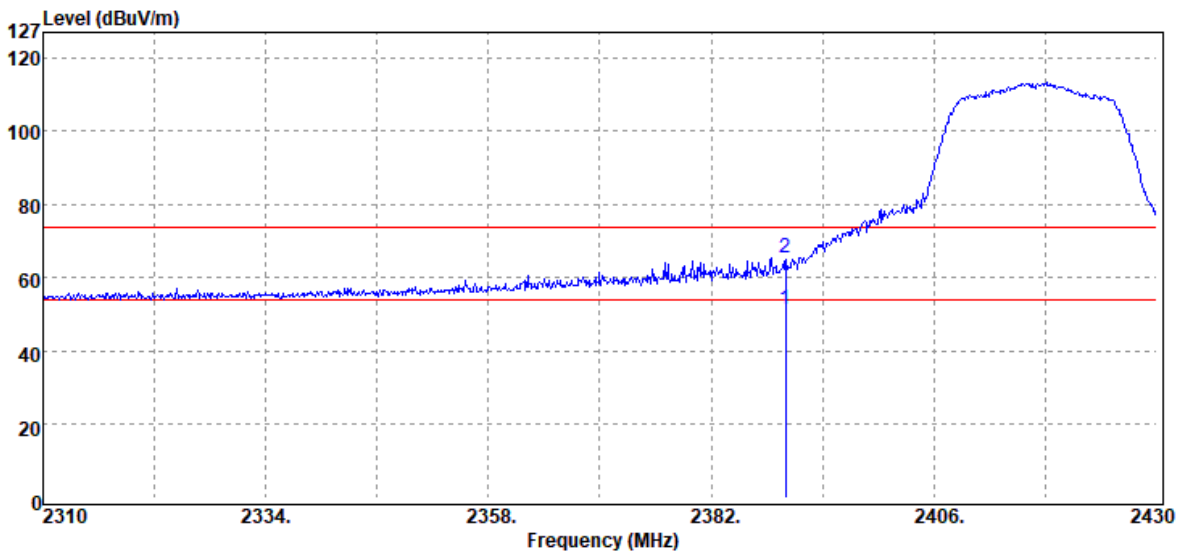
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2417 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d $\mu$ V	Factor dB	Actual FS d $\mu$ V/m	Limit @3m d $\mu$ V/m	Margin dB
2390.00	Average	44.01	7.46	51.47	54.00	-2.53
2390.00	Peak	57.81	7.46	65.27	74.00	-8.73

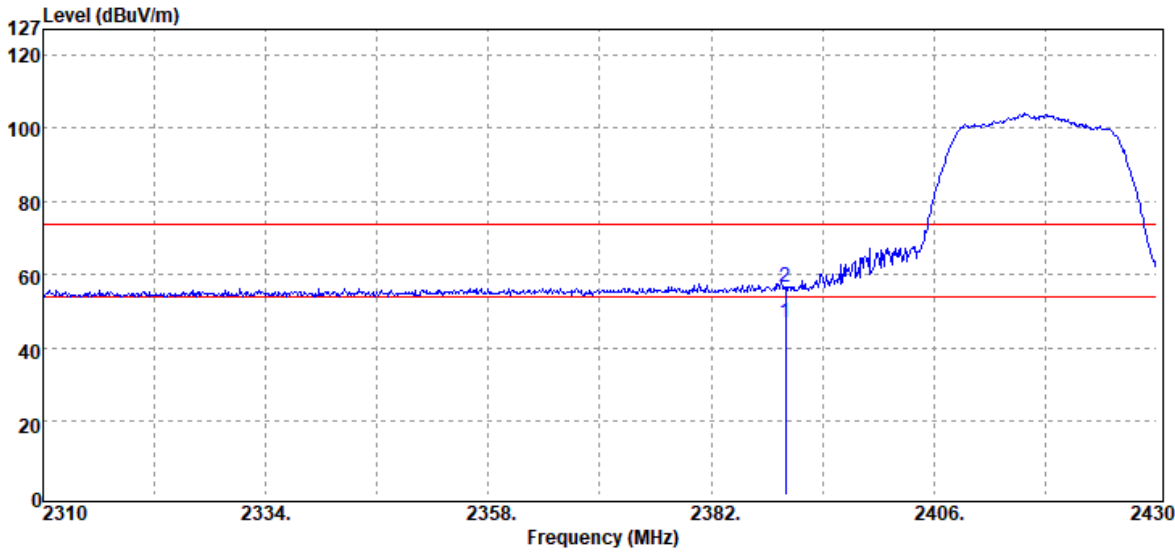
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2417 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.00	Average	39.41	7.46	46.87	54.00	-7.13
2390.00	Peak	49.32	7.46	56.78	74.00	-17.22

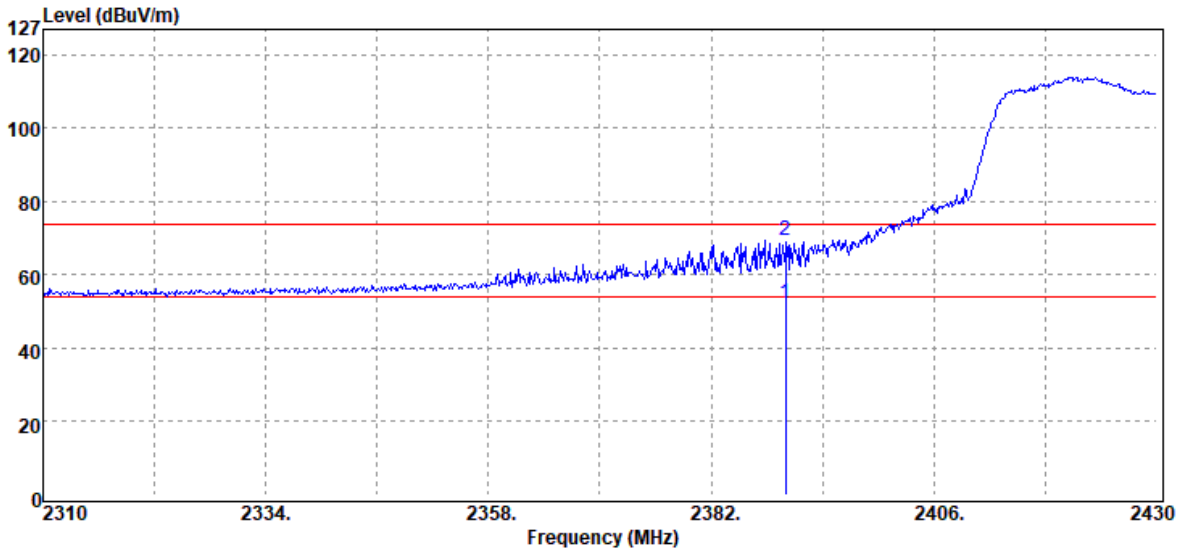
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :23.9/71  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.00	Average	45.03	7.46	52.49	54.00	-1.51
2390.00	Peak	61.75	7.46	69.21	74.00	-4.79

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

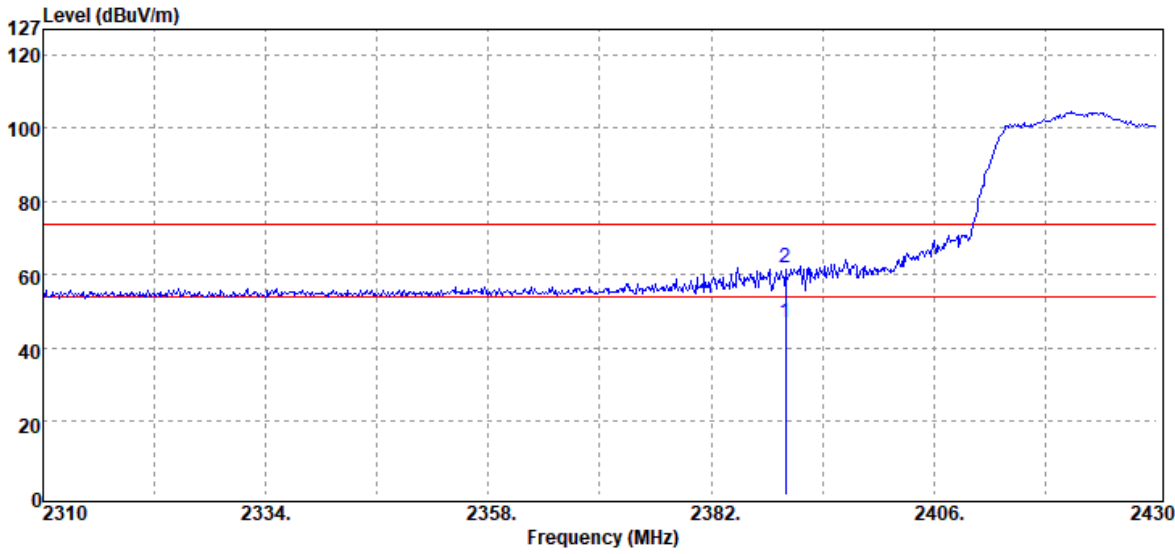
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :23.9/71  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.00	Average	39.43	7.46	46.89	54.00	-7.11
2390.00	Peak	54.45	7.46	61.91	74.00	-12.09

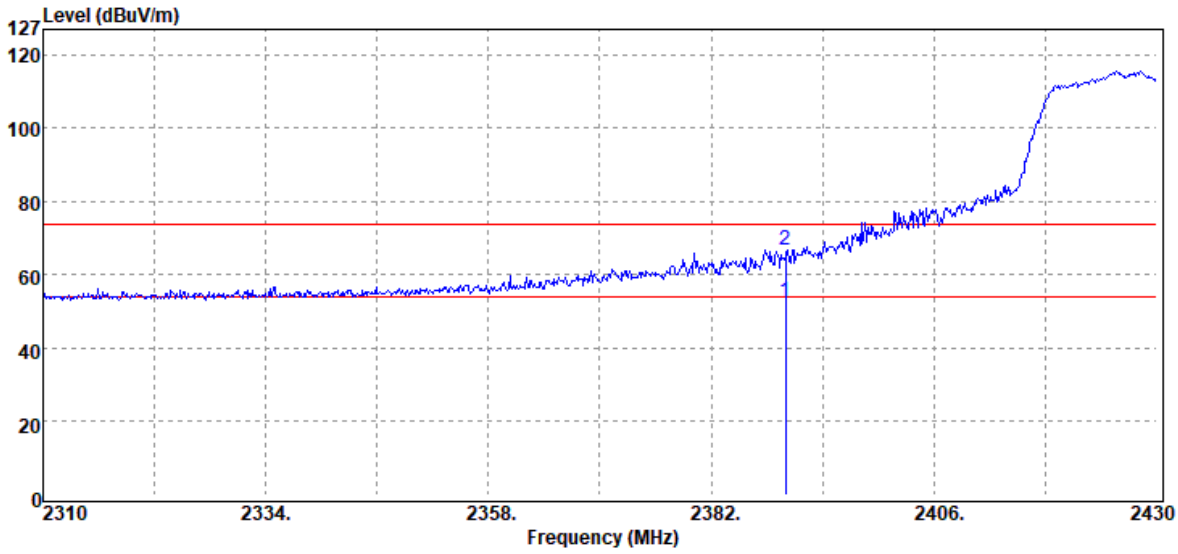
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2427 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.00	Average	45.33	7.46	52.79	54.00	-1.21
2390.00	Peak	59.12	7.46	66.58	74.00	-7.42

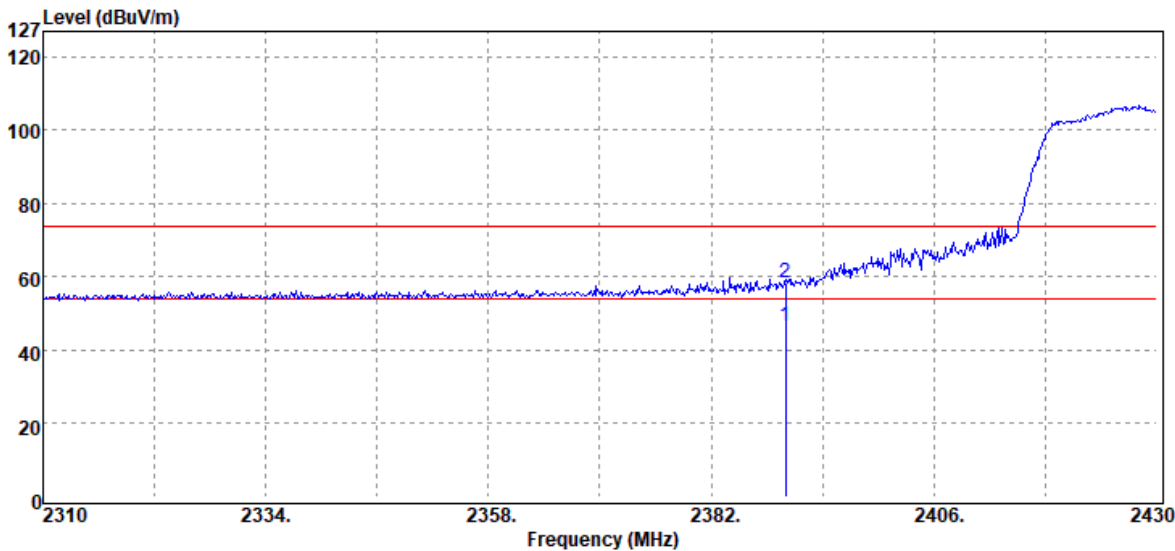
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2427 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.00	Average	39.34	7.46	46.80	54.00	-7.20
2390.00	Peak	51.17	7.46	58.63	74.00	-15.37

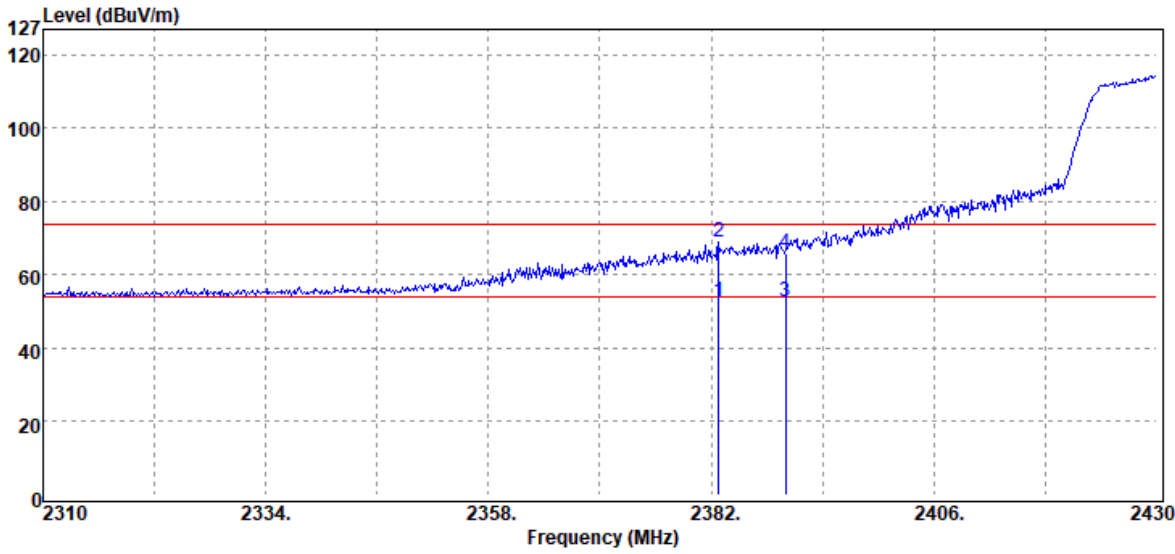
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2432 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2382.80	Average	45.07	7.48	52.55	54.00	-1.45
2382.80	Peak	61.43	7.48	68.91	74.00	-5.09
2390.00	Average	45.46	7.46	52.92	54.00	-1.08
2390.00	Peak	58.32	7.46	65.78	74.00	-8.22

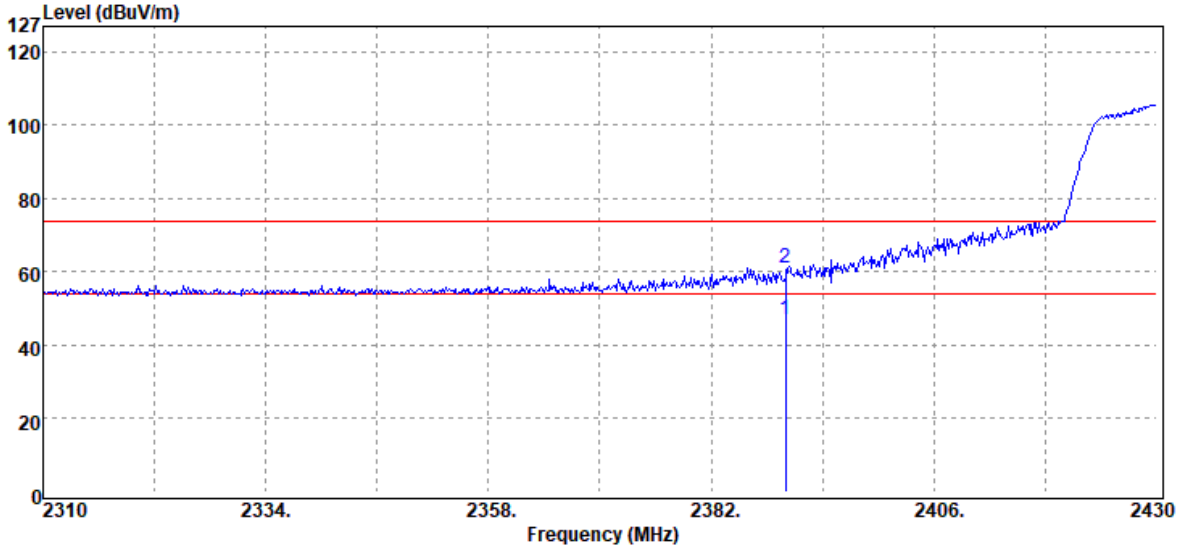
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2432 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.00	Average	39.64	7.46	47.10	54.00	-6.90
2390.00	Peak	53.48	7.46	60.94	74.00	-13.06

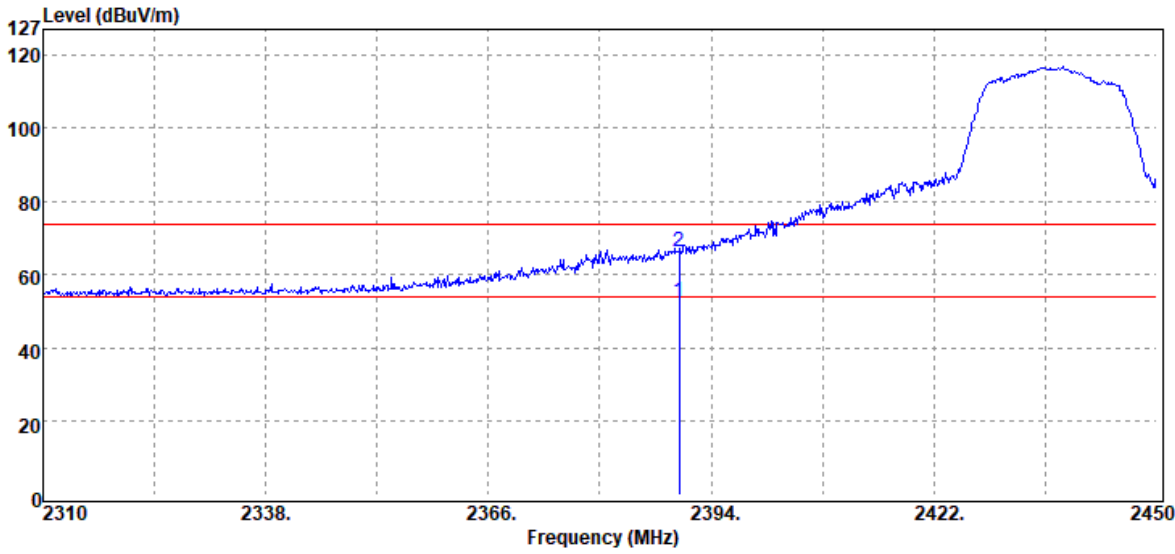
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2437 MHz  
 Test Mode :Bandedge CH Mid  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.00	Average	45.26	7.46	52.72	54.00	-1.28
2390.00	Peak	58.69	7.46	66.15	74.00	-7.85

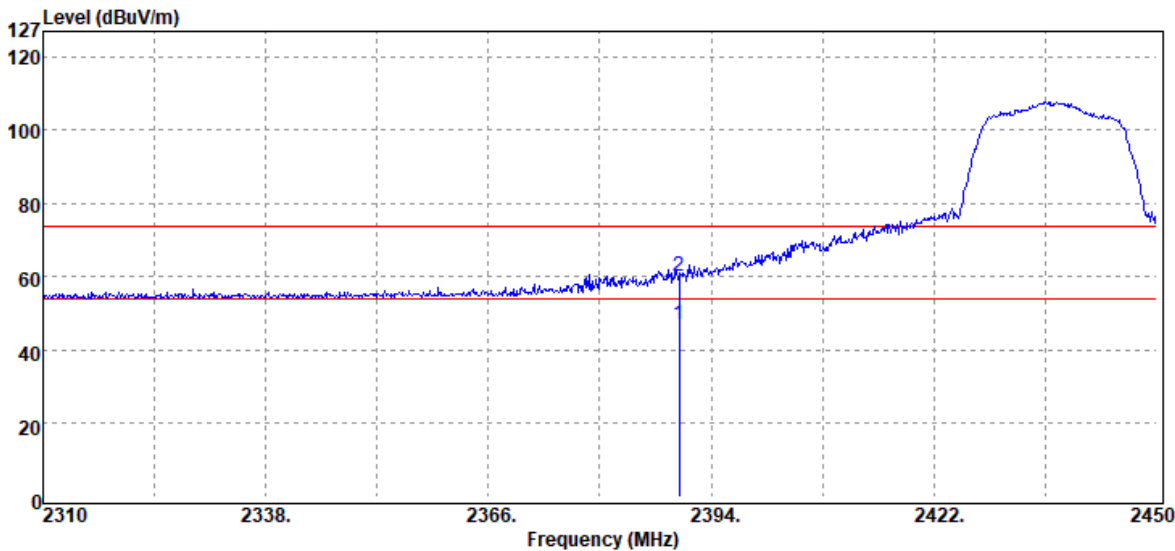
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2437 MHz  
 Test Mode :Bandedge CH Mid  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.00	Average	39.51	7.46	46.97	54.00	-7.03
2390.00	Peak	52.90	7.46	60.36	74.00	-13.64

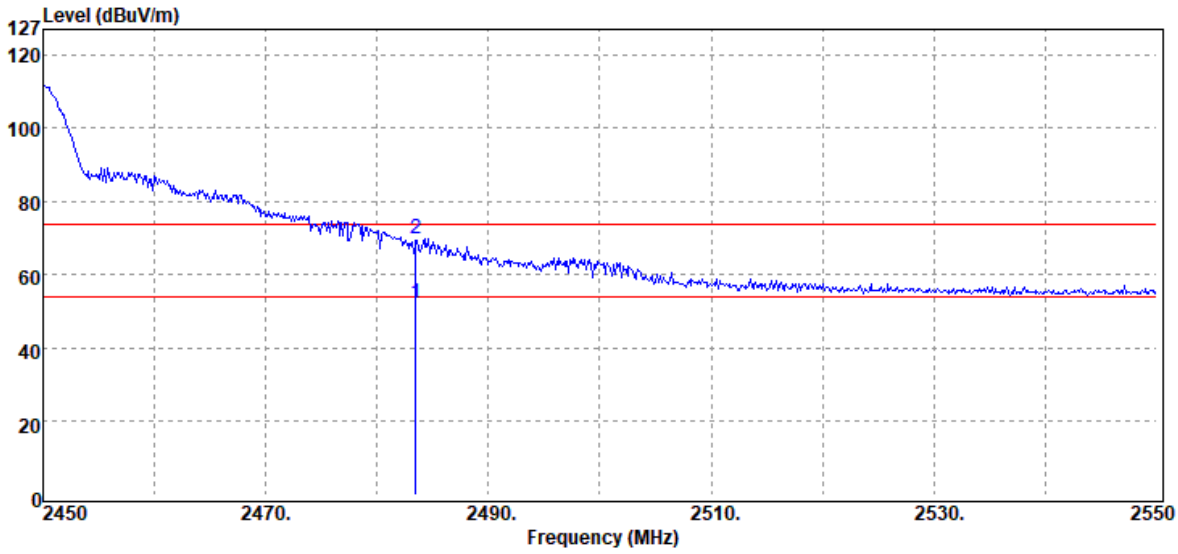
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2442 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dB $\mu$ V		dB $\mu$ V/m	dB $\mu$ V/m	
2483.50	Average	45.03	7.46	52.49	54.00	-1.51
2483.50	Peak	62.48	7.46	69.94	74.00	-4.06

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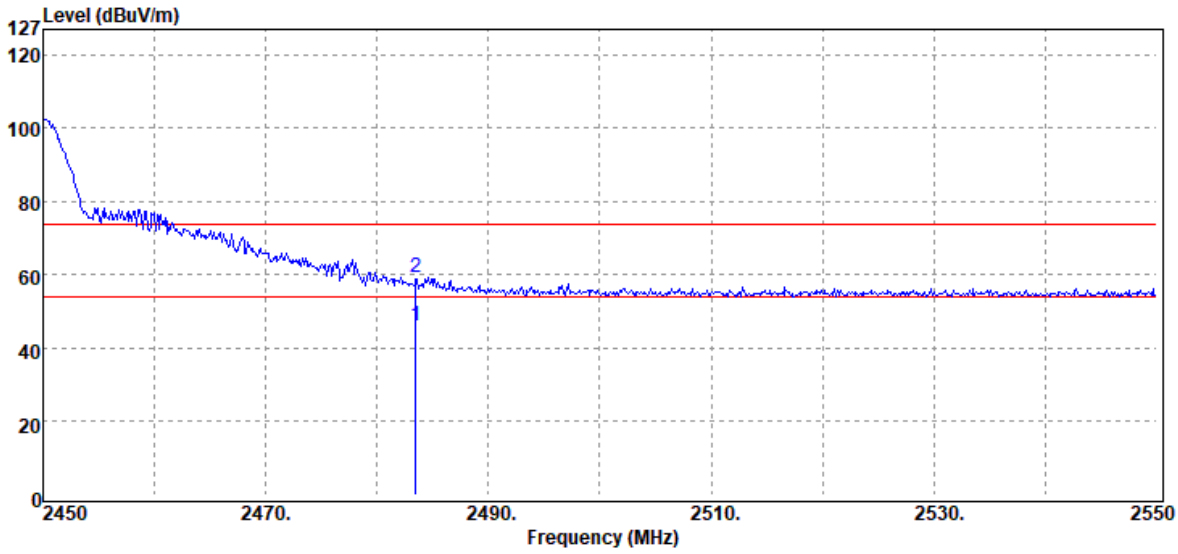
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2442 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	38.86	7.46	46.32	54.00	-7.68
2483.50	Peak	52.06	7.46	59.52	74.00	-14.48

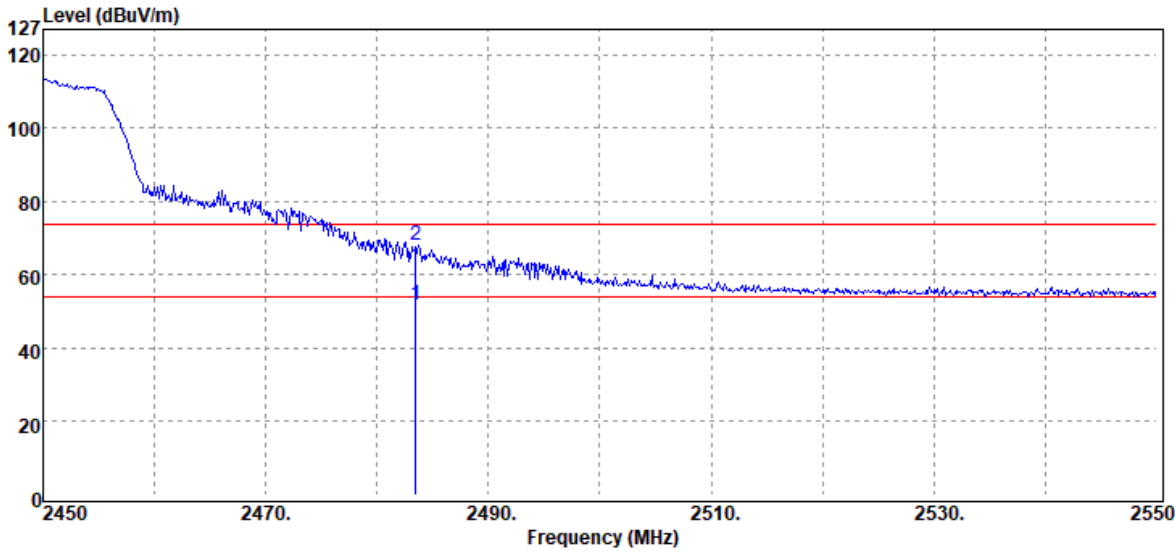
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2447 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	44.52	7.46	51.98	54.00	-2.02
2483.50	Peak	60.45	7.46	67.91	74.00	-6.09

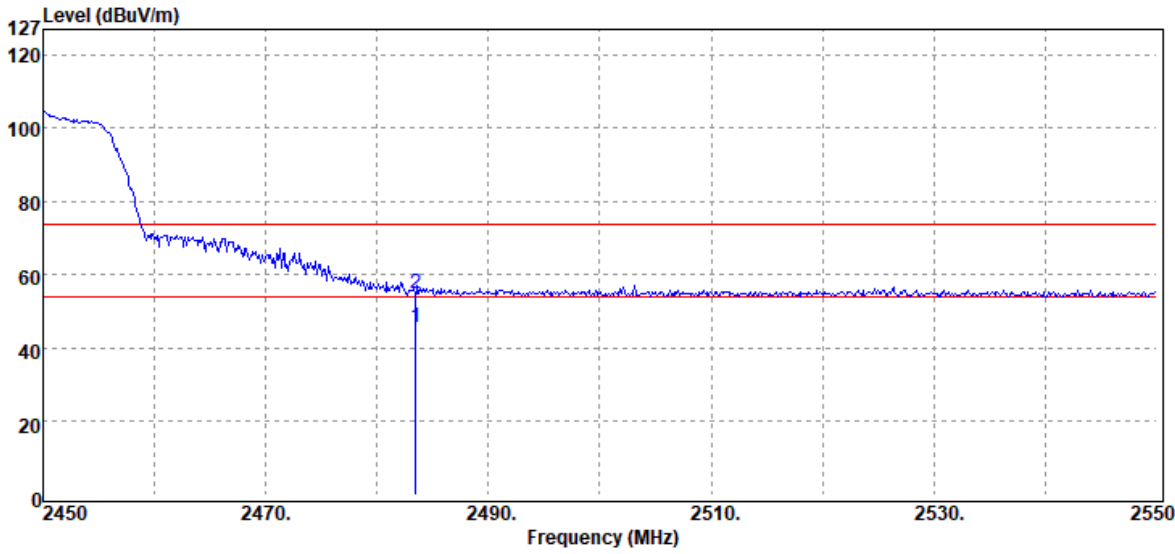
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2447 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	38.35	7.46	45.81	54.00	-8.19
2483.50	Peak	47.62	7.46	55.08	74.00	-18.92

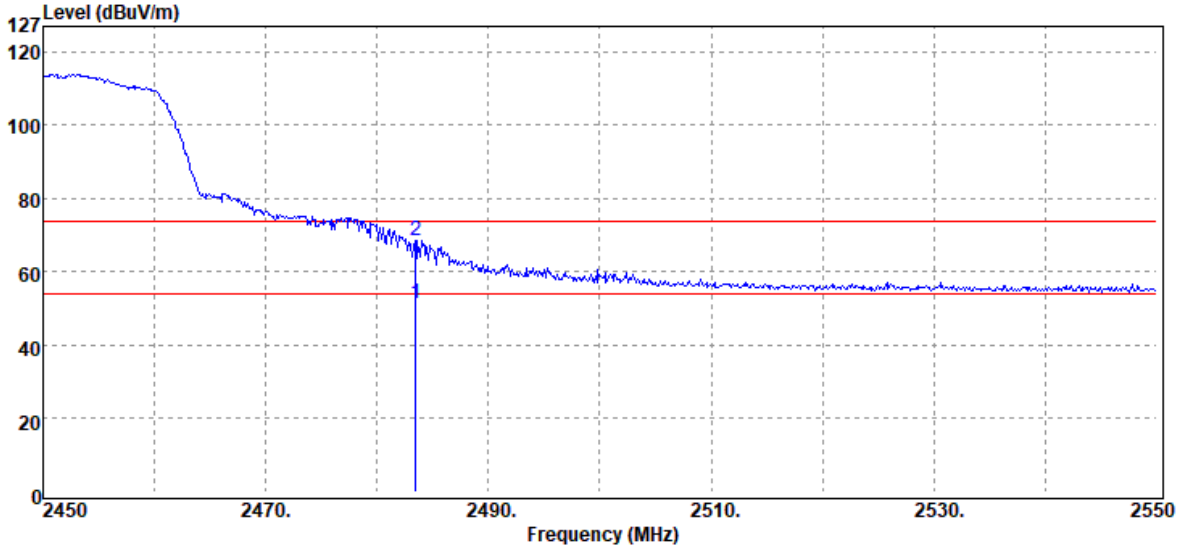
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2452 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	44.13	7.46	51.59	54.00	-2.41
2483.50	Peak	61.05	7.46	68.51	74.00	-5.49

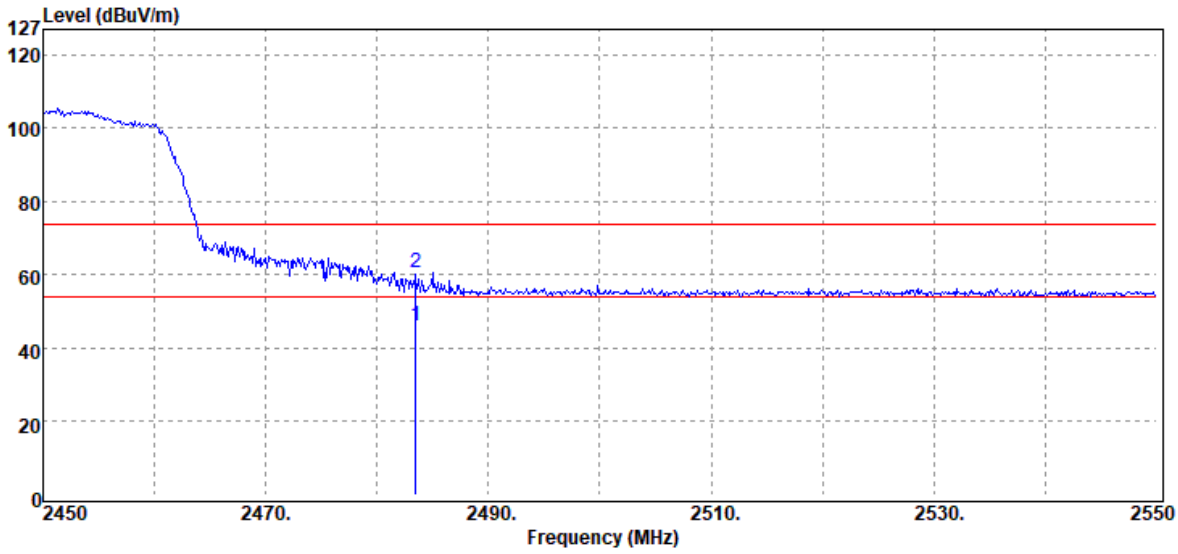
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2452 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	38.78	7.46	46.24	54.00	-7.76
2483.50	Peak	53.17	7.46	60.63	74.00	-13.37

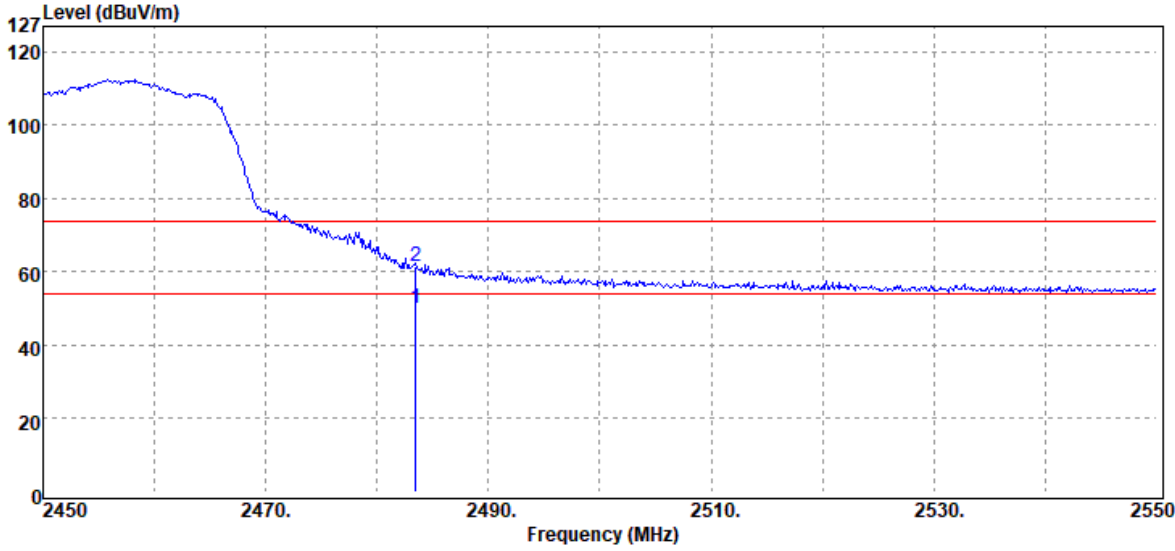
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2457 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	42.46	7.46	49.92	54.00	-4.08
2483.50	Peak	54.02	7.46	61.48	74.00	-12.52

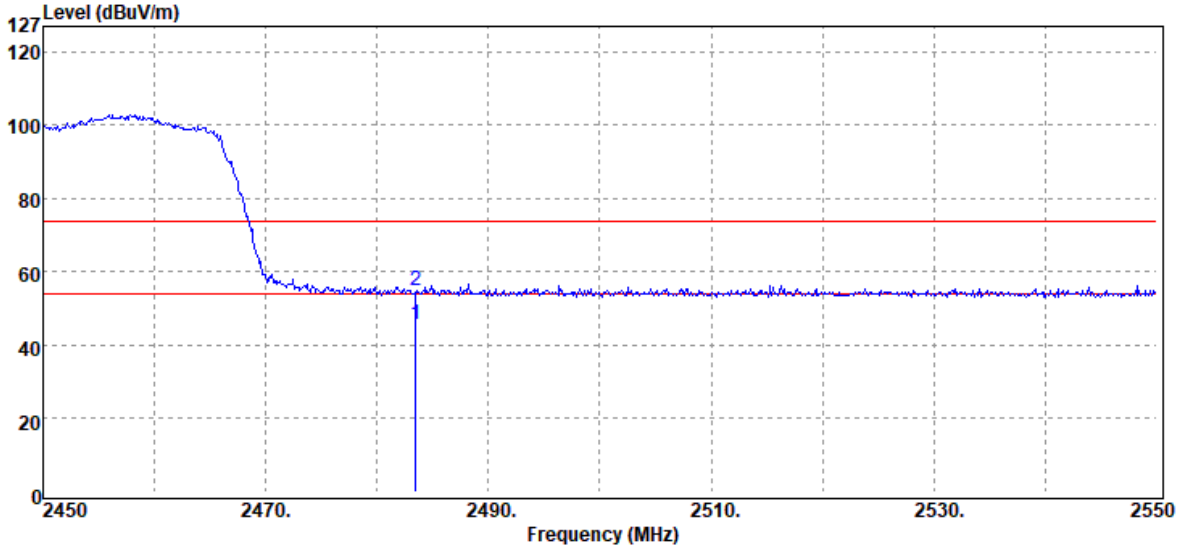
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2457 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	38.44	7.46	45.90	54.00	-8.10
2483.50	Peak	47.55	7.46	55.01	74.00	-18.99

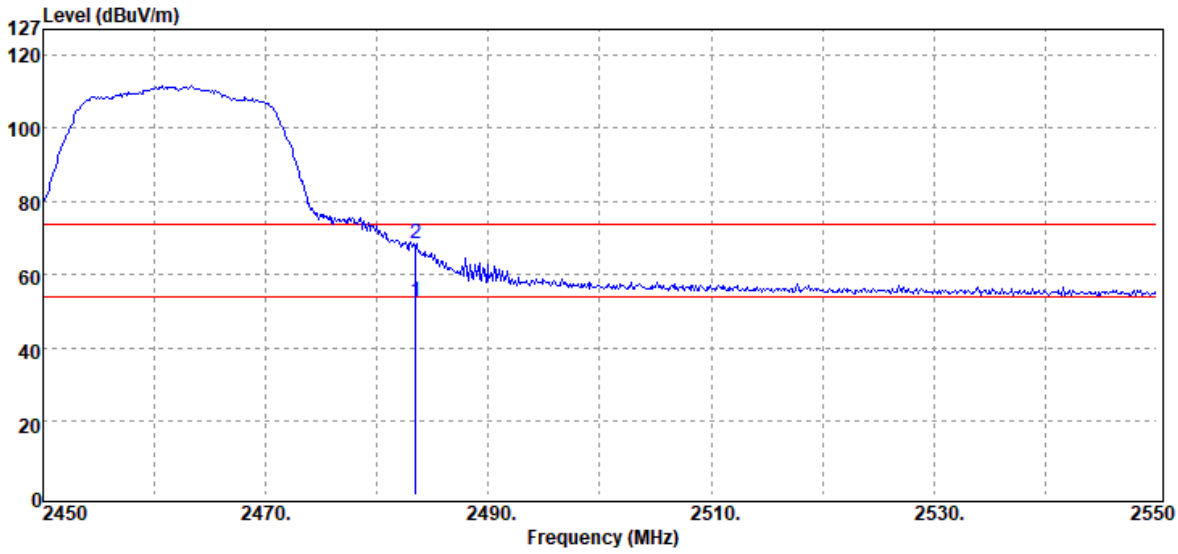
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	45.31	7.46	52.77	54.00	-1.23
2483.50	Peak	60.99	7.46	68.45	74.00	-5.55

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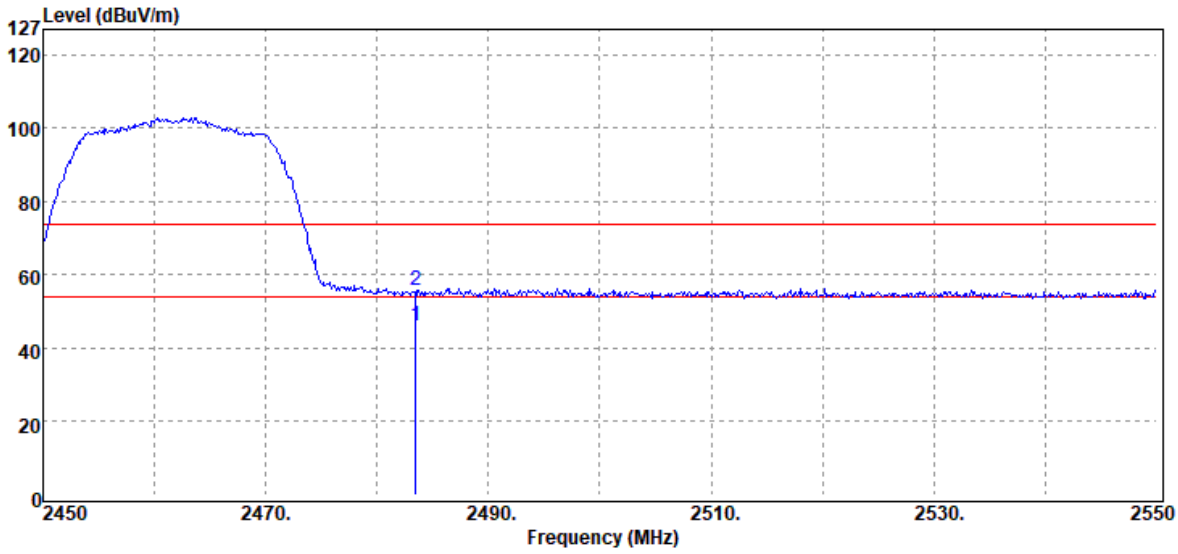
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-16  
 Temp./Humi. :22.0/64  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.50	Average	38.55	7.46	46.01	54.00	-7.99
2483.50	Peak	48.41	7.46	55.87	74.00	-18.13

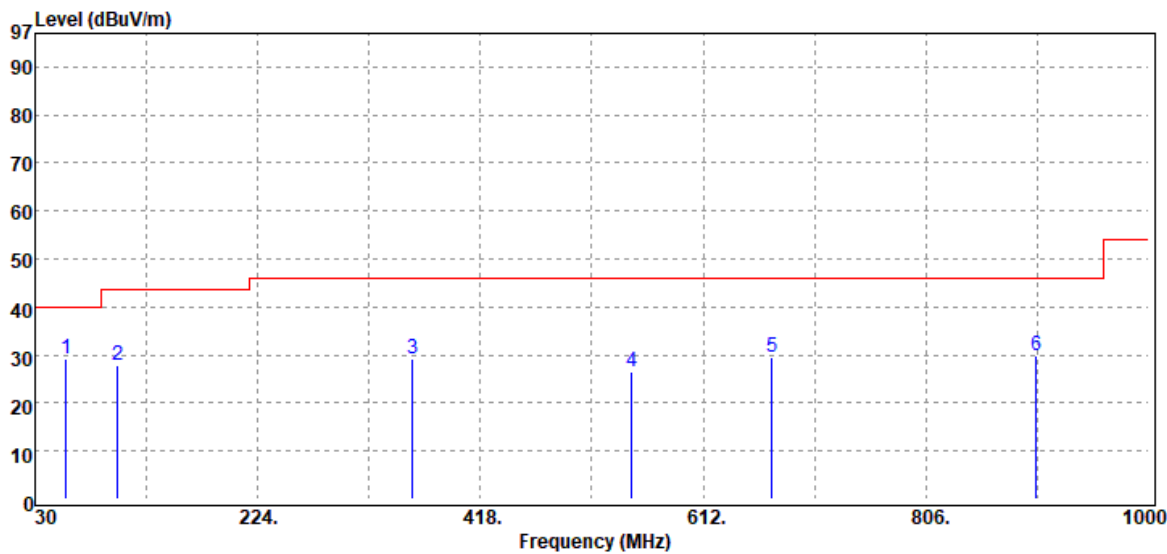
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### 11.7.2 Below 1GHz Worst-Case Emission:

Report Number	:ER/2020/90108	Test Site	:SAC I Chamber
Operation Mode	:802.11g	Test Date	:2020-10-26
Test Frequency	:2437 MHz	Temp./Humi.	:23.4/63
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
57.16	Peak	45.92	-16.69	29.23	40.00	-10.77
101.78	Peak	40.30	-12.29	28.01	43.50	-15.49
358.83	Peak	35.94	-6.87	29.07	46.00	-16.93
549.92	Peak	30.91	-4.26	26.65	46.00	-19.35
672.14	Peak	31.82	-2.44	29.38	46.00	-16.62
902.03	Peak	28.82	1.06	29.88	46.00	-16.12

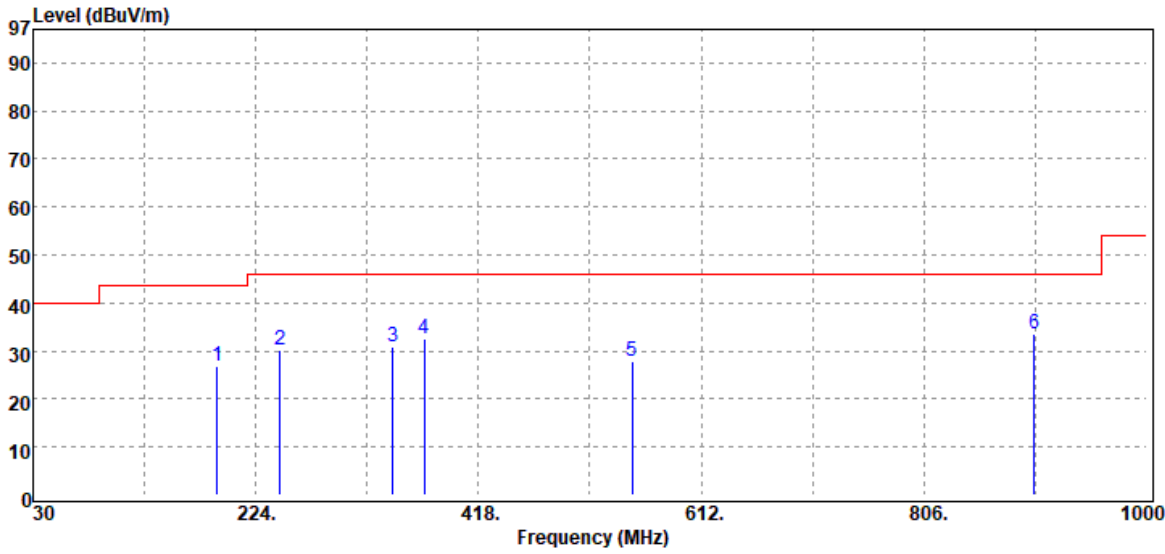
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Report Number :ER/2020/90108  
Operation Mode :802.11g  
Test Frequency :2437 MHz  
Test Mode :Tx CH Mid  
EUT Pol :E1 Plane

Test Site :SAC I Chamber  
Test Date :2020-10-26  
Temp./Humi. :23.4/63  
Antenna Pol. :HORIZONTAL  
Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
190.05	Peak	39.78	-12.94	26.84	43.50	-16.66
245.34	Peak	39.77	-9.72	30.05	46.00	-15.95
343.31	Peak	38.57	-7.59	30.98	46.00	-15.02
370.47	Peak	39.40	-6.90	32.50	46.00	-13.50
551.86	Peak	31.95	-4.23	27.72	46.00	-18.28
902.03	Peak	32.35	1.06	33.41	46.00	-12.59

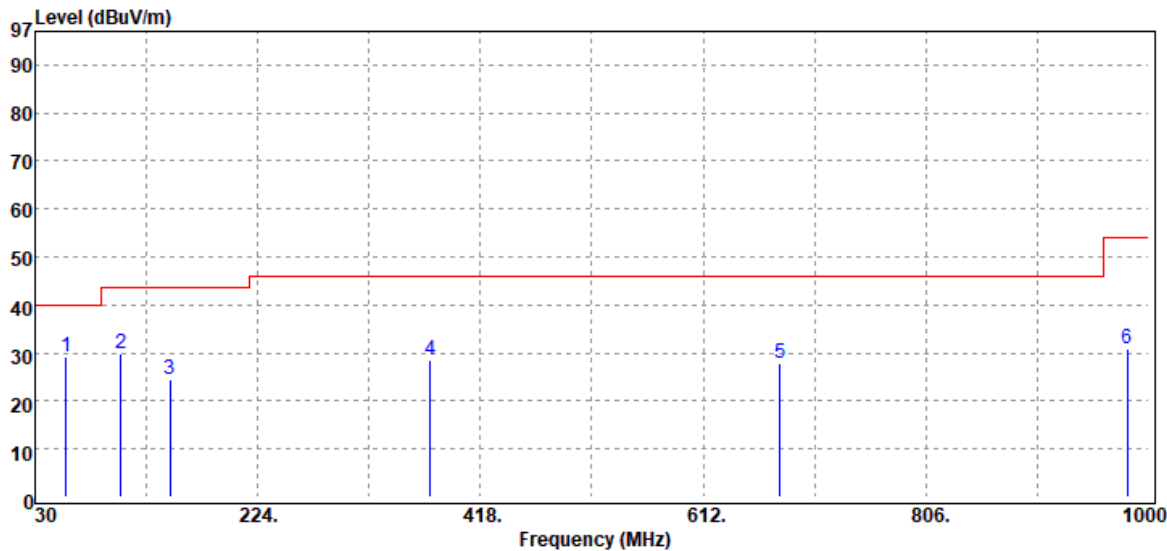
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-26  
 Temp./Humi. :23.4/63  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
57.16	Peak	45.74	-16.69	29.05	40.00	-10.95
104.69	Peak	41.76	-12.05	29.71	43.50	-13.79
147.37	Peak	36.38	-11.91	24.47	43.50	-19.03
374.35	Peak	35.31	-6.93	28.38	46.00	-17.62
678.93	Peak	29.93	-2.16	27.77	46.00	-18.23
981.57	Peak	28.34	2.65	30.99	54.00	-23.01

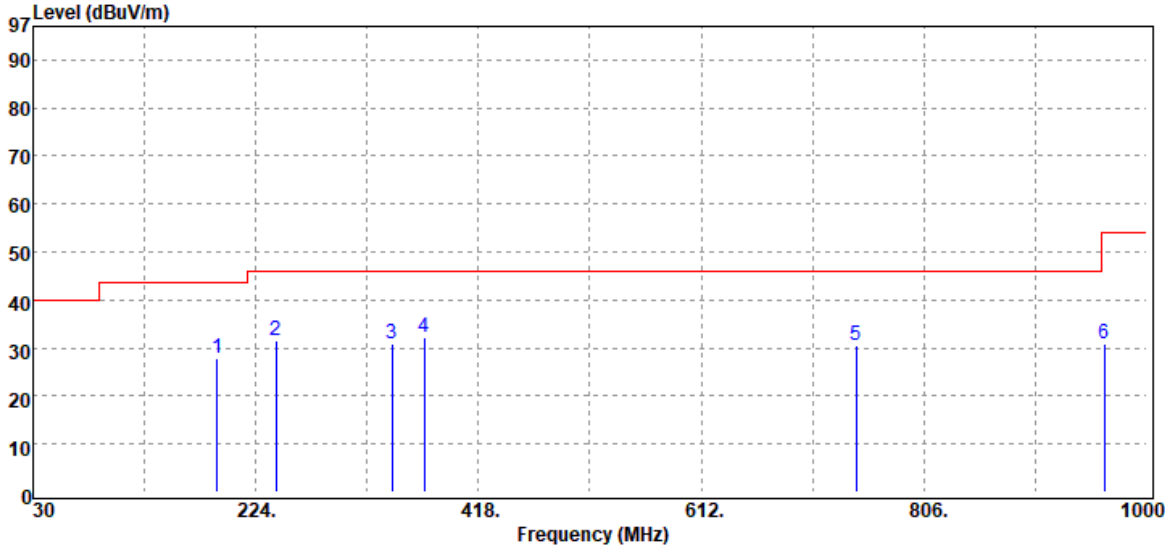
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-26  
 Temp./Humi. :23.4/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
190.05	Peak	40.83	-12.94	27.89	43.50	-15.61
241.46	Peak	41.56	-10.05	31.51	46.00	-14.49
342.34	Peak	38.44	-7.62	30.82	46.00	-15.18
370.47	Peak	39.18	-6.90	32.28	46.00	-13.72
746.83	Peak	32.02	-1.41	30.61	46.00	-15.39
963.14	Peak	28.93	1.90	30.83	54.00	-23.17

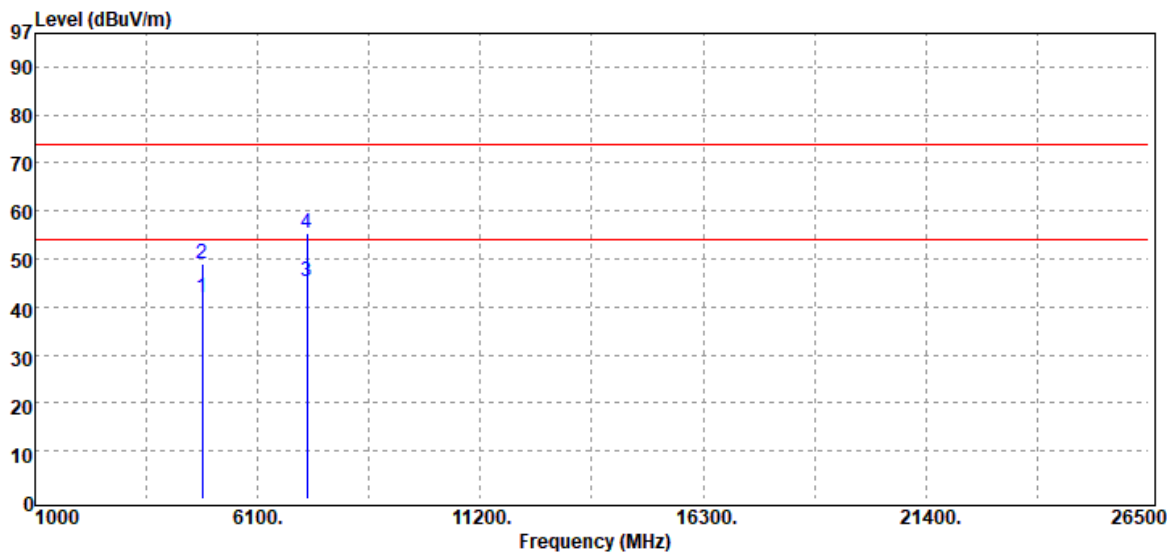
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### 11.7.3 Above 1GHz Emission:

Report Number	:ER/2020/90108	Test Site	:SAC I Chamber
Operation Mode	:802.11b	Test Date	:2020-10-19
Test Frequency	:2412 MHz	Temp./Humi.	:23.2/64
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	27.40	14.56	41.96	54.00	-12.04
4824.00	Peak	34.58	14.56	49.14	74.00	-24.86
7236.00	Average	24.35	20.95	45.30	54.00	-8.70
7236.00	Peak	34.30	20.95	55.25	74.00	-18.75

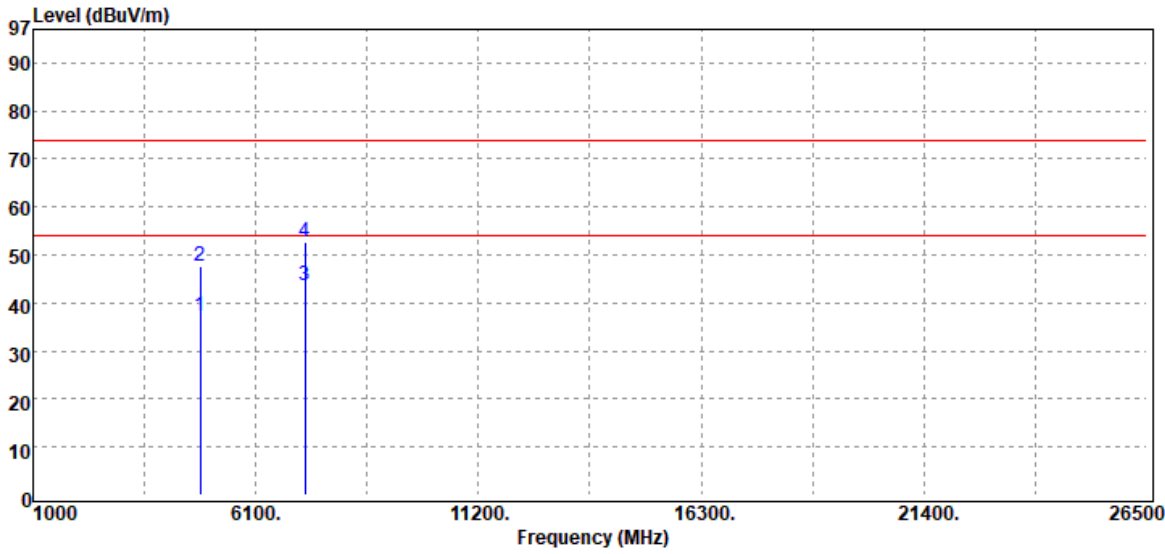
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-19  
 Temp./Humi. :23.2/64  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	22.82	14.56	37.38	54.00	-16.62
4824.00	Peak	32.95	14.56	47.51	74.00	-26.49
7236.00	Average	22.57	20.95	43.52	54.00	-10.48
7236.00	Peak	31.66	20.95	52.61	74.00	-21.39

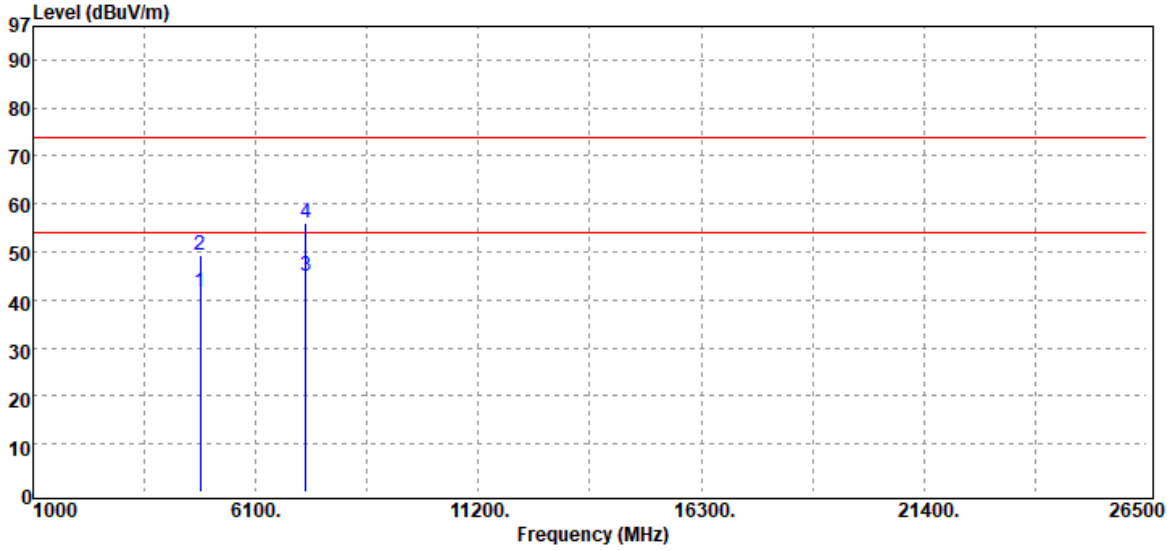
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2417 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-19  
 Temp./Humi. :23.2/64  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4834.00	Average	27.09	14.56	41.65	54.00	-12.35
4834.00	Peak	34.72	14.56	49.28	74.00	-24.72
7251.00	Average	23.91	20.97	44.88	54.00	-9.12
7251.00	Peak	34.97	20.97	55.94	74.00	-18.06

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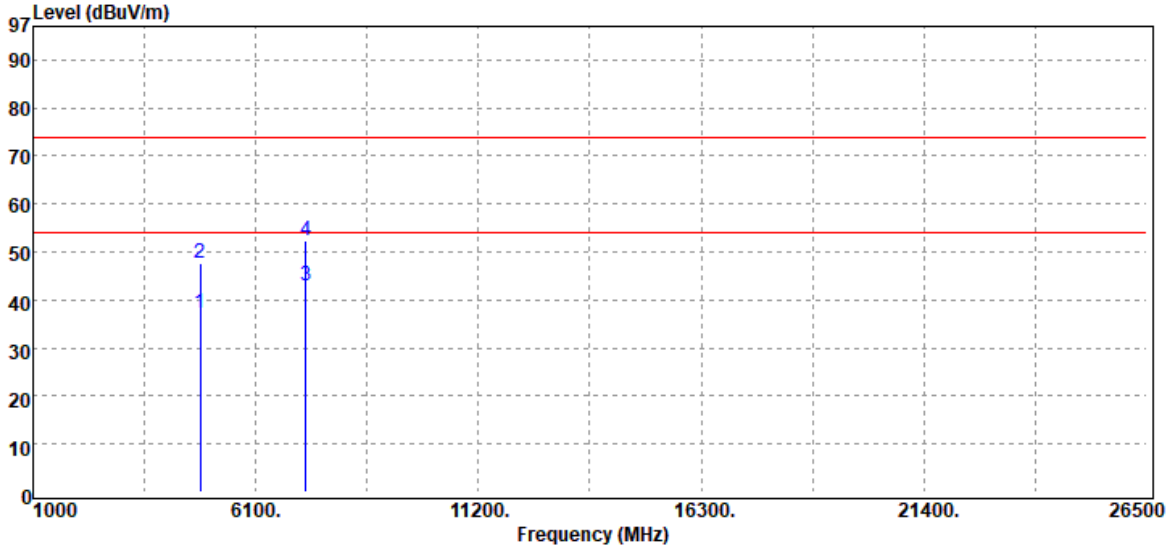
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2417 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-19  
 Temp./Humi. :23.2/64  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4834.00	Average	22.68	14.56	37.24	54.00	-16.76
4834.00	Peak	33.08	14.56	47.64	74.00	-26.36
7251.00	Average	21.86	20.97	42.83	54.00	-11.17
7251.00	Peak	31.27	20.97	52.24	74.00	-21.76

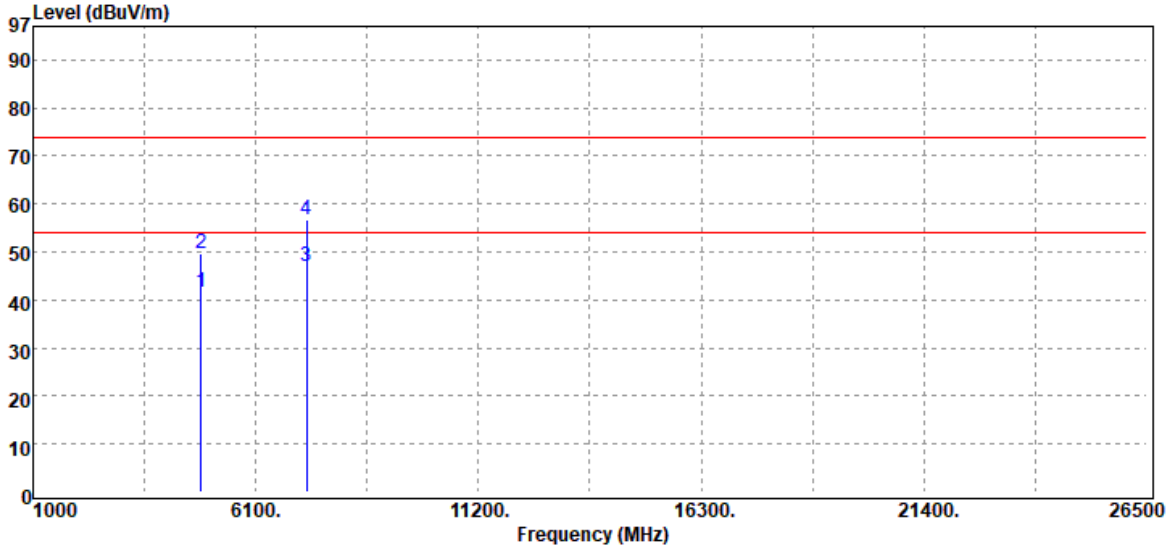
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2422 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-19  
 Temp./Humi. :23.2/64  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4844.00	Average	26.97	14.58	41.55	54.00	-12.45
4844.00	Peak	34.96	14.58	49.54	74.00	-24.46
7266.00	Average	25.42	21.43	46.85	54.00	-7.15
7266.00	Peak	35.13	21.43	56.56	74.00	-17.44

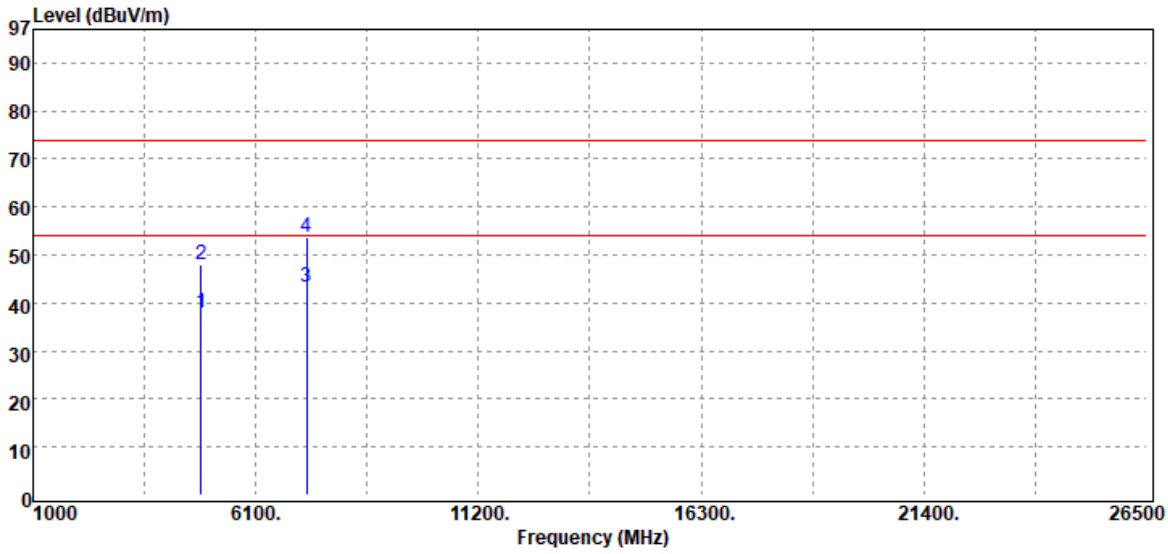
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2422 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-19  
 Temp./Humi. :23.2/64  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4844.00	Average	23.40	14.58	37.98	54.00	-16.02
4844.00	Peak	33.30	14.58	47.88	74.00	-26.12
7266.00	Average	21.97	21.43	43.40	54.00	-10.60
7266.00	Peak	32.20	21.43	53.63	74.00	-20.37

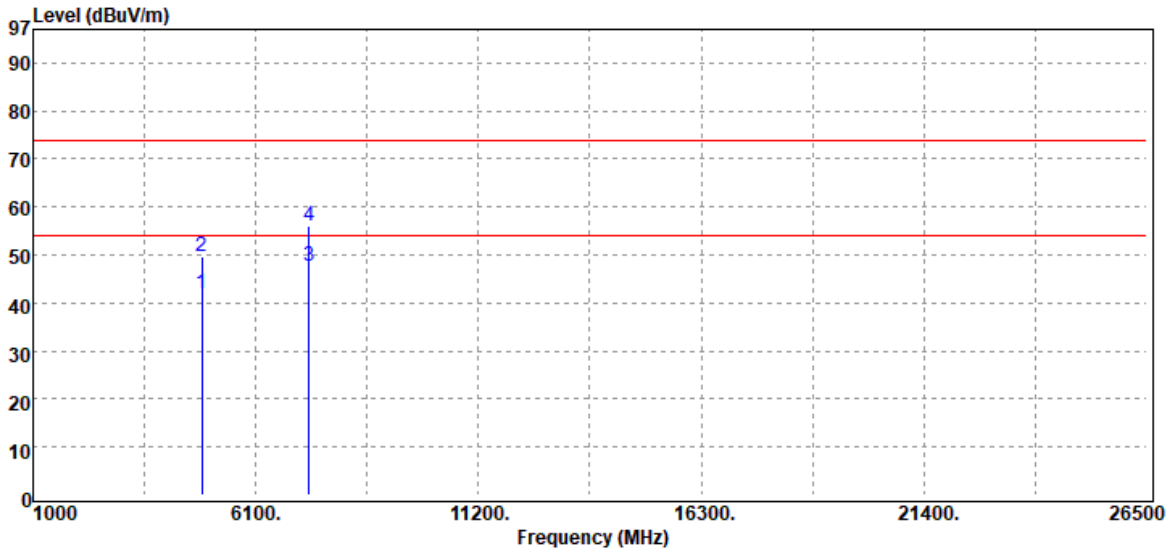
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-19  
 Temp./Humi. :23.2/64  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4874.00	Average	26.95	14.85	41.80	54.00	-12.20
4874.00	Peak	34.70	14.85	49.55	74.00	-24.45
7311.00	Average	25.26	22.31	47.57	54.00	-6.43
7311.00	Peak	33.64	22.31	55.95	74.00	-18.05

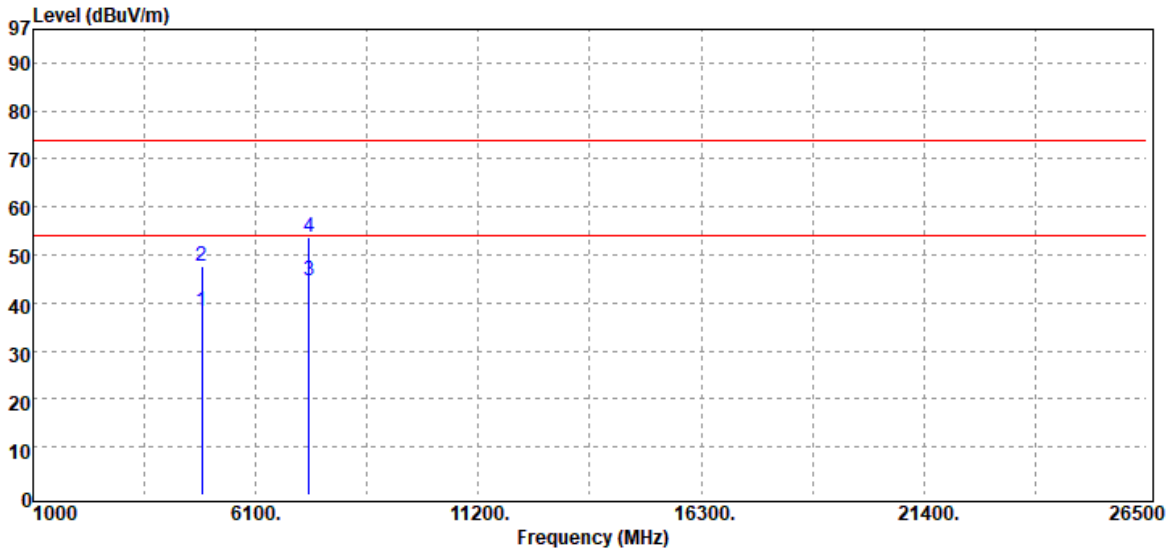
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :23.2/64  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	23.58	14.85	38.43	54.00	-15.57
4874.00	Peak	32.84	14.85	47.69	74.00	-26.31
7311.00	Average	22.34	22.31	44.65	54.00	-9.35
7311.00	Peak	31.29	22.31	53.60	74.00	-20.40

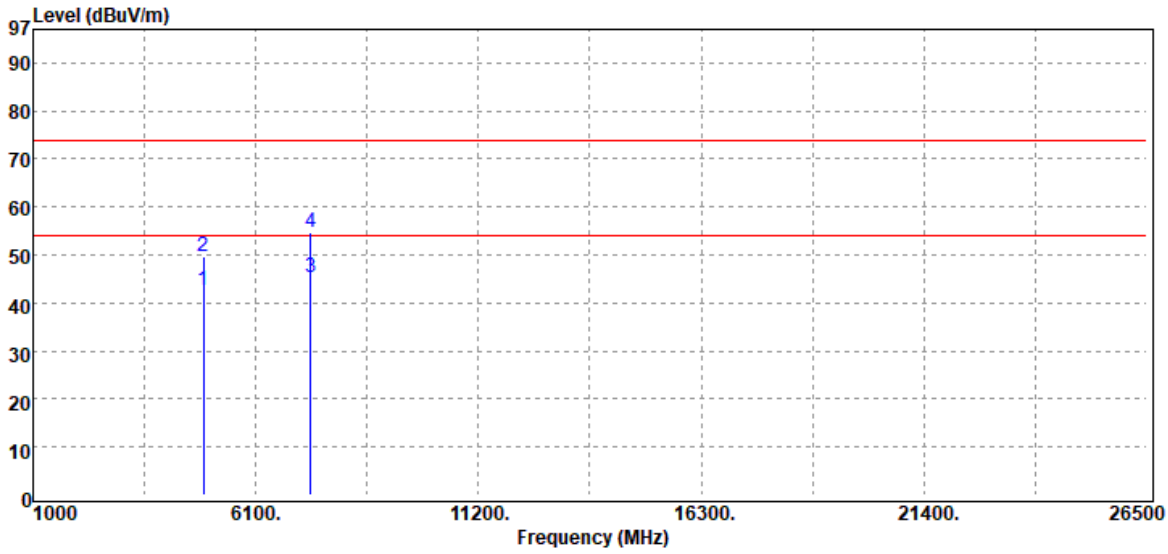
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2452 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4904.00	Average	27.54	15.12	42.66	54.00	-11.34
4904.00	Peak	34.63	15.12	49.75	74.00	-24.25
7356.00	Average	23.79	21.65	45.44	54.00	-8.56
7356.00	Peak	33.13	21.65	54.78	74.00	-19.22

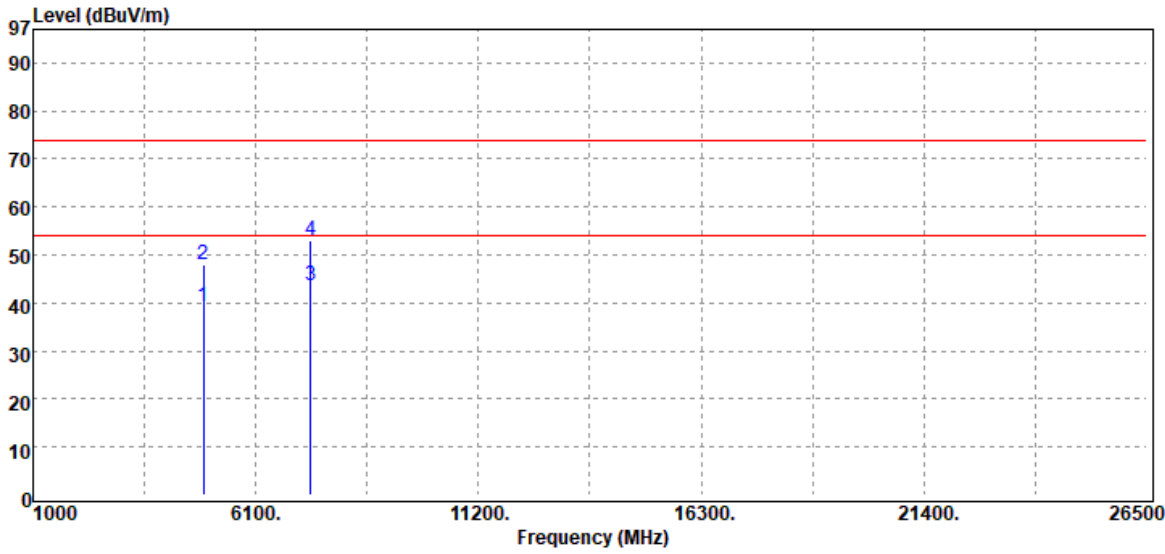
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2452 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4904.00	Average	24.30	15.12	39.42	54.00	-14.58
4904.00	Peak	32.73	15.12	47.85	74.00	-26.15
7356.00	Average	21.91	21.65	43.56	54.00	-10.44
7356.00	Peak	31.28	21.65	52.93	74.00	-21.07

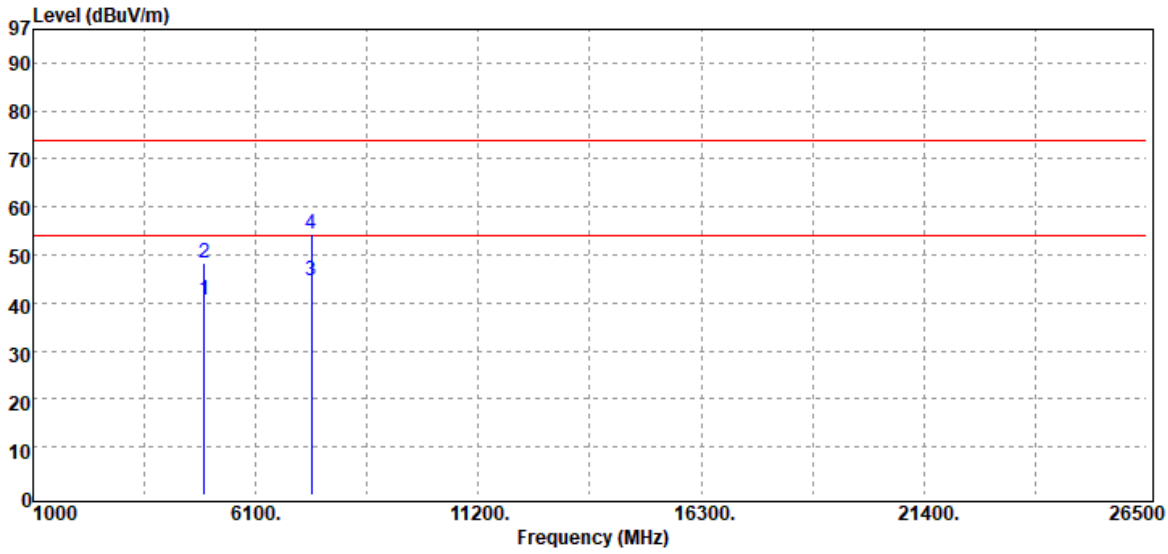
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2457 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4914.00	Average	25.73	15.00	40.73	54.00	-13.27
4914.00	Peak	33.46	15.00	48.46	74.00	-25.54
7371.00	Average	23.04	21.44	44.48	54.00	-9.52
7371.00	Peak	32.96	21.44	54.40	74.00	-19.60

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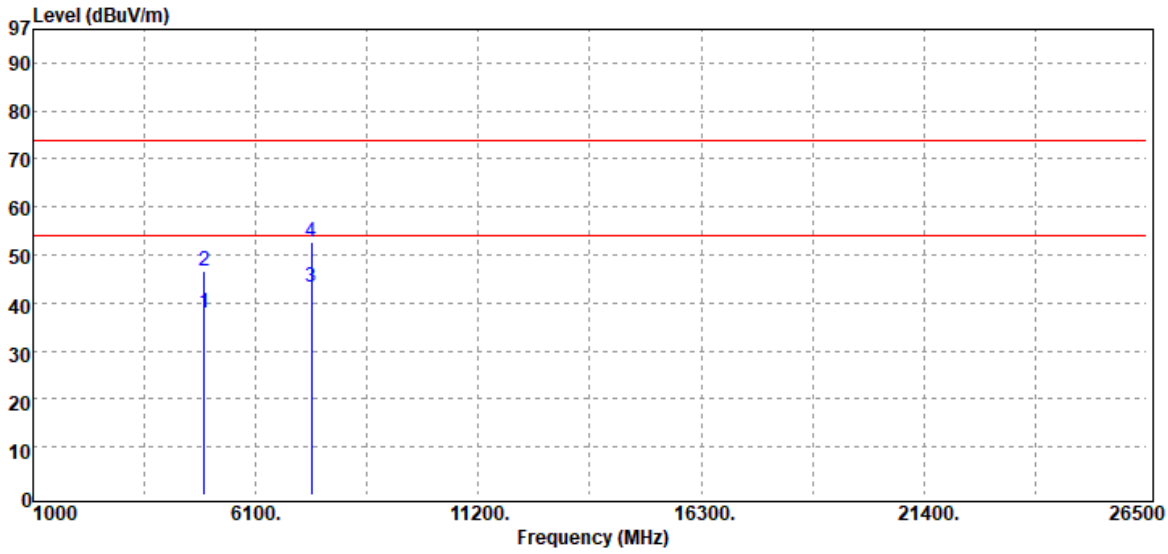
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2457 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4914.00	Average	22.82	15.00	37.82	54.00	-16.18
4914.00	Peak	31.70	15.00	46.70	74.00	-27.30
7371.00	Average	21.71	21.44	43.15	54.00	-10.85
7371.00	Peak	31.21	21.44	52.65	74.00	-21.35

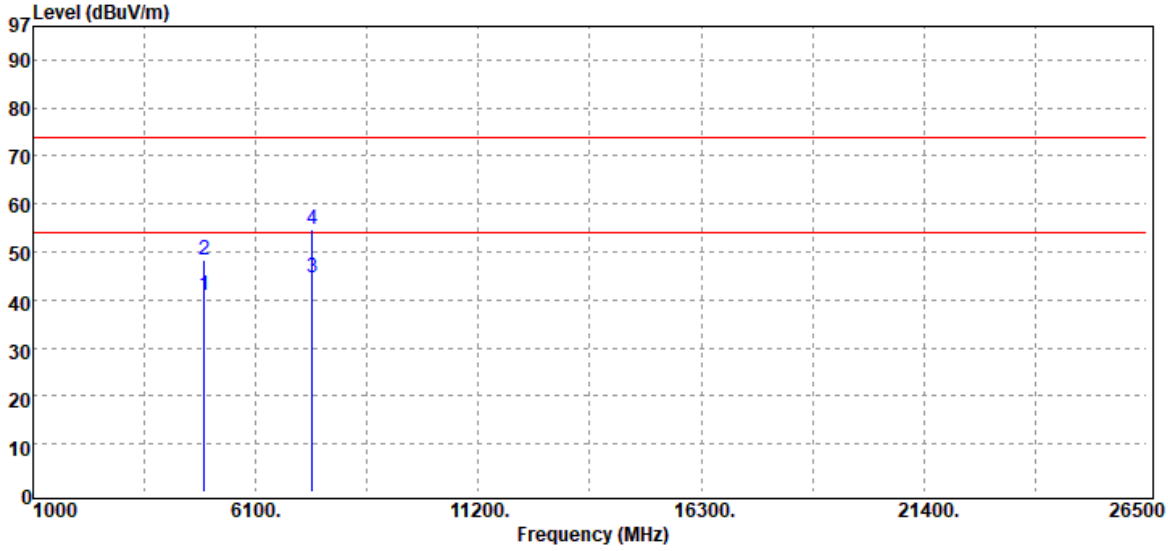
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	26.03	14.87	40.90	54.00	-13.10
4924.00	Peak	33.57	14.87	48.44	74.00	-25.56
7386.00	Average	23.37	21.24	44.61	54.00	-9.39
7386.00	Peak	33.41	21.24	54.65	74.00	-19.35

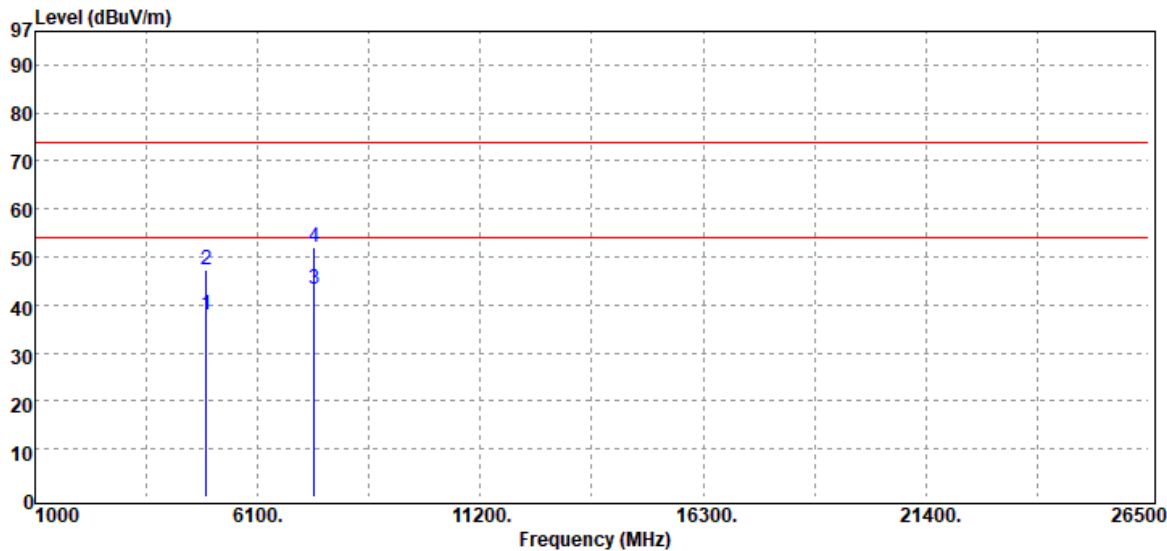
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Report Number :ER/2020/90108  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4924.00	Average	22.93	14.87	37.80	54.00	-16.20
4924.00	Peak	32.54	14.87	47.41	74.00	-26.59
7386.00	Average	22.03	21.24	43.27	54.00	-10.73
7386.00	Peak	30.92	21.24	52.16	74.00	-21.84

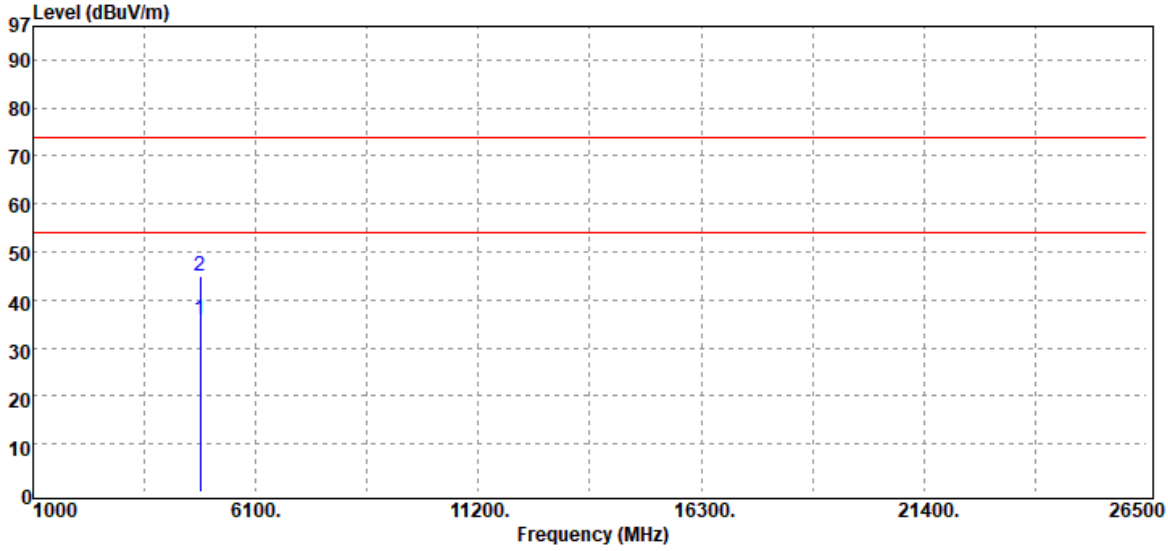
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	21.45	14.56	36.01	54.00	-17.99
4824.00	Peak	30.45	14.56	45.01	74.00	-28.99

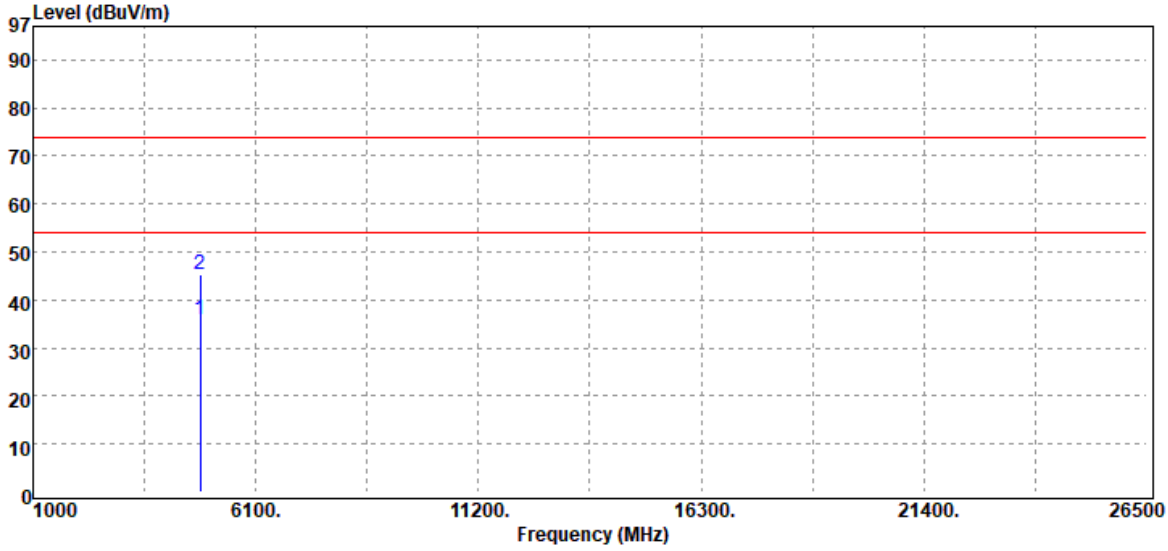
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	21.38	14.56	35.94	54.00	-18.06
4824.00	Peak	30.64	14.56	45.20	74.00	-28.80

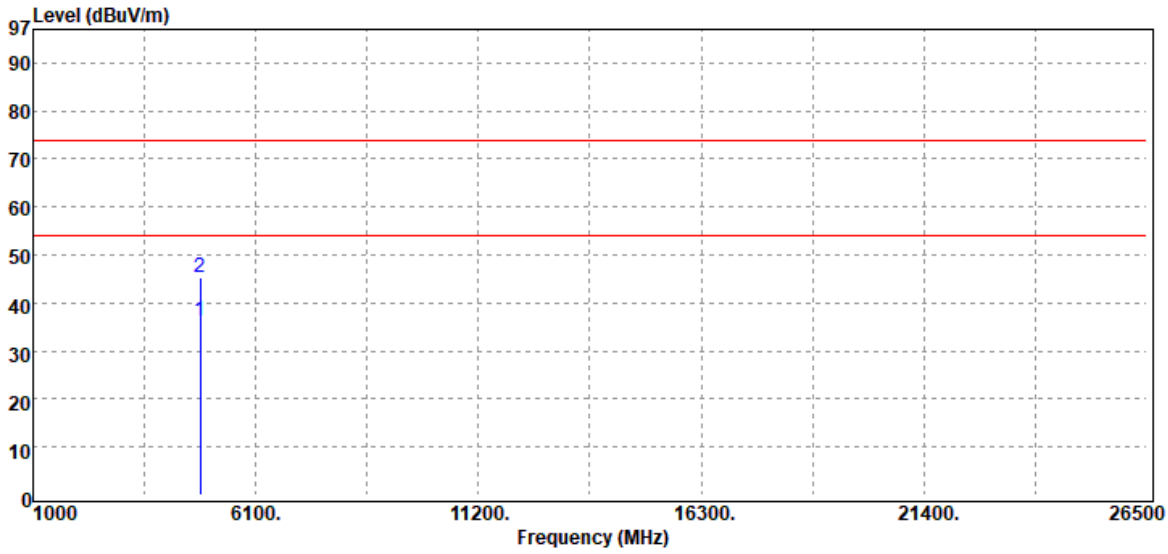
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2417 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4834.00	Average	21.68	14.56	36.24	54.00	-17.76
4834.00	Peak	30.77	14.56	45.33	74.00	-28.67

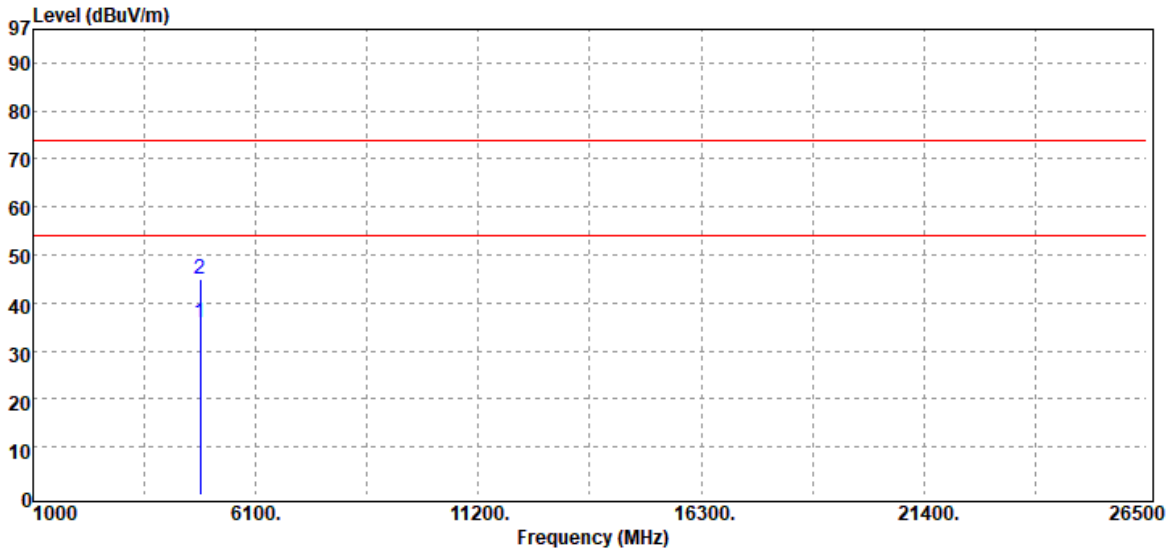
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2417 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4834.00	Average	21.37	14.56	35.93	54.00	-18.07
4834.00	Peak	30.52	14.56	45.08	74.00	-28.92

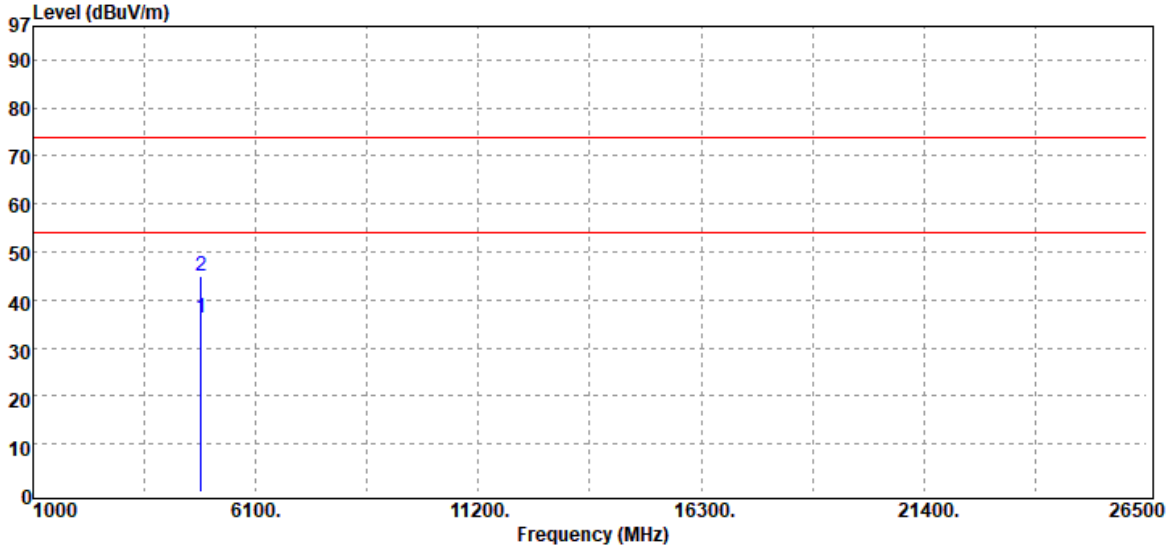
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2422 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4844.00	Average	21.60	14.58	36.18	54.00	-17.82
4844.00	Peak	30.45	14.58	45.03	74.00	-28.97

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

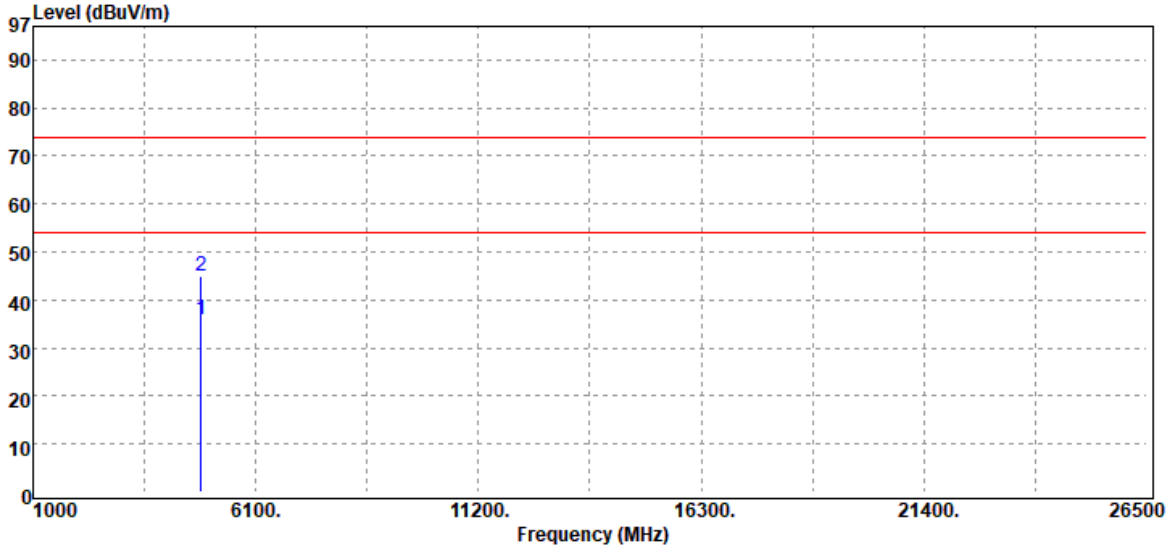
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2422 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4844.00	Average	21.42	14.58	36.00	54.00	-18.00
4844.00	Peak	30.32	14.58	44.90	74.00	-29.10

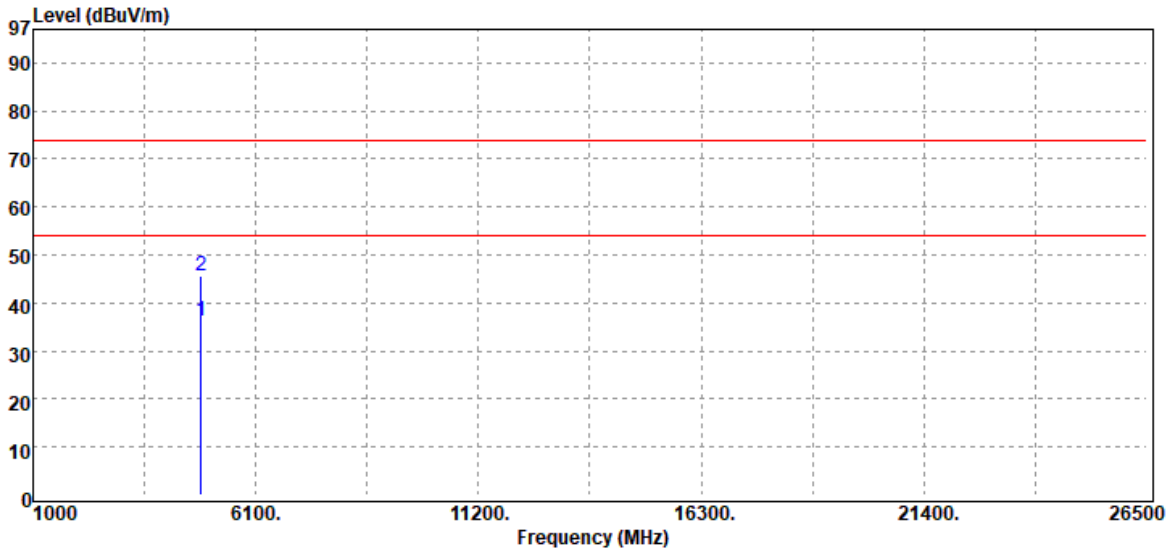
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2427 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4854.00	Average	21.53	14.62	36.15	54.00	-17.85
4854.00	Peak	31.15	14.62	45.77	74.00	-28.23

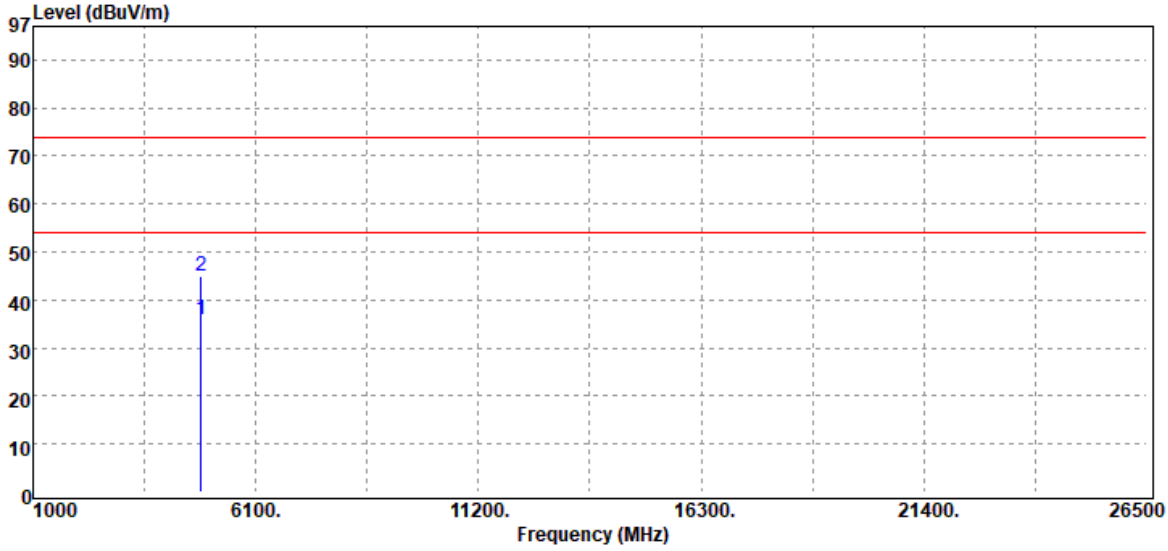
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2427 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4854.00	Average	21.34	14.62	35.96	54.00	-18.04
4854.00	Peak	30.36	14.62	44.98	74.00	-29.02

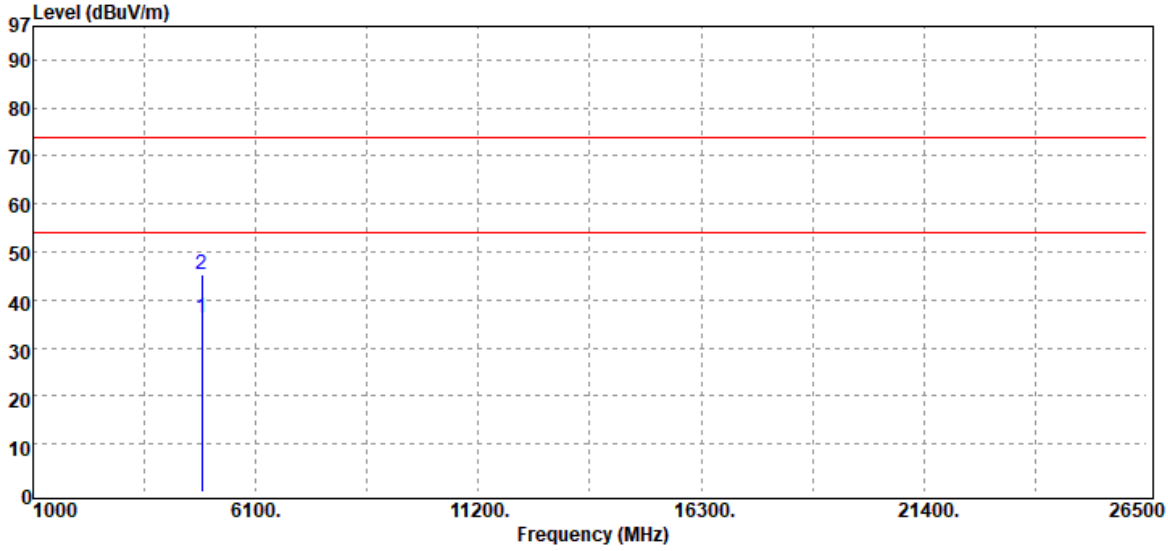
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2432 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4864.00	Average	21.53	14.73	36.26	54.00	-17.74
4864.00	Peak	30.66	14.73	45.39	74.00	-28.61

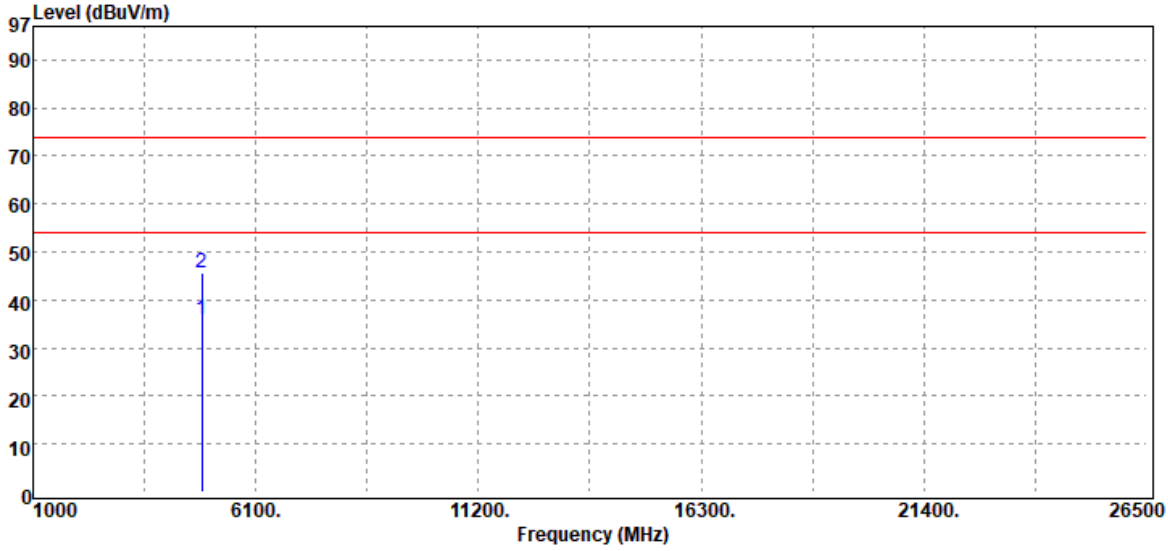
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2432 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4864.00	Average	21.35	14.73	36.08	54.00	-17.92
4864.00	Peak	30.98	14.73	45.71	74.00	-28.29

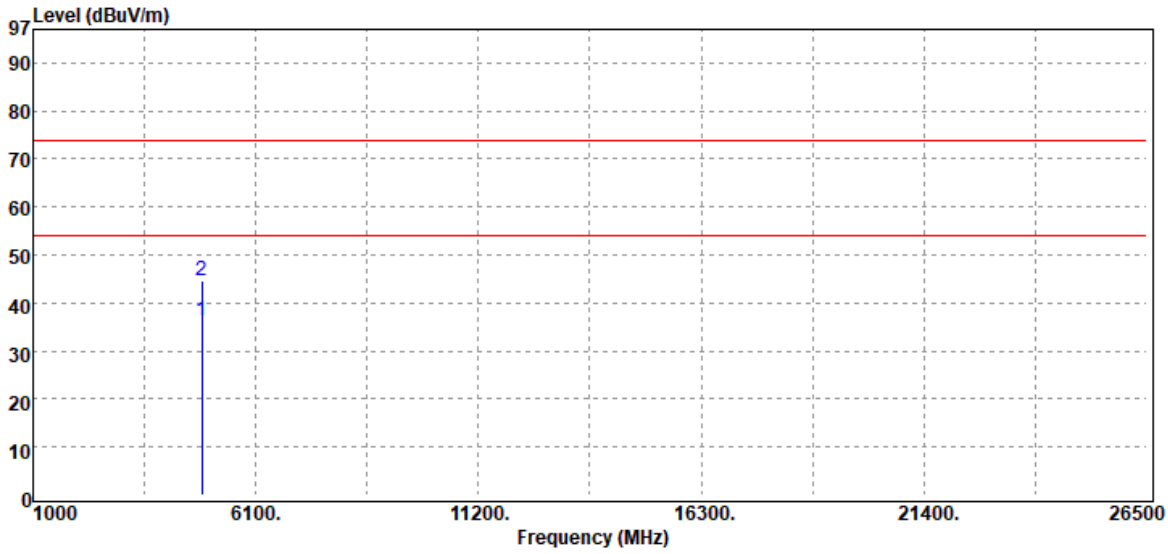
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	21.54	14.85	36.39	54.00	-17.61
4874.00	Peak	29.86	14.85	44.71	74.00	-29.29

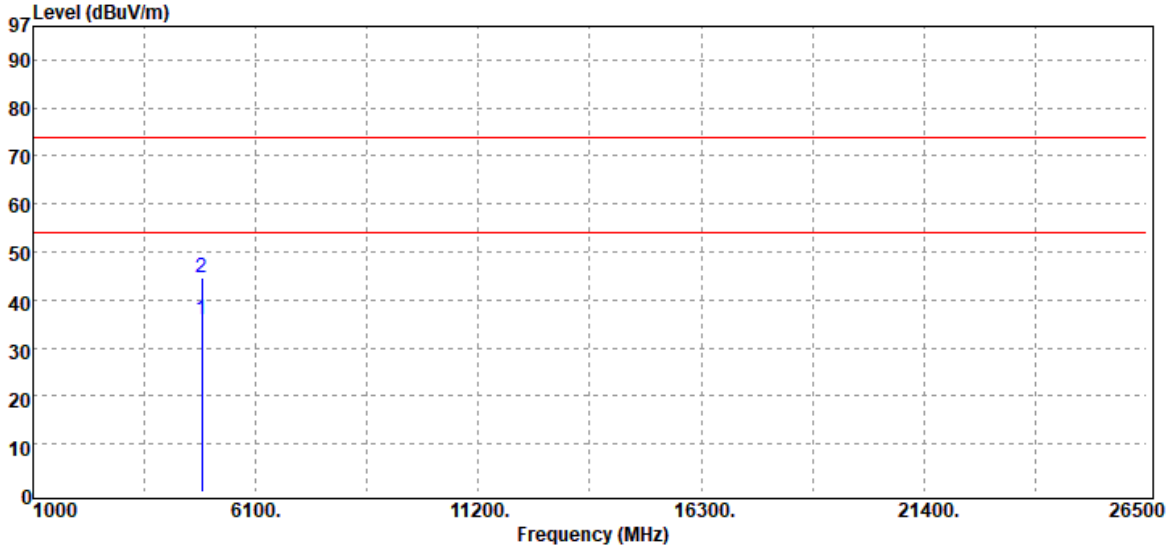
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	21.20	14.85	36.05	54.00	-17.95
4874.00	Peak	29.69	14.85	44.54	74.00	-29.46

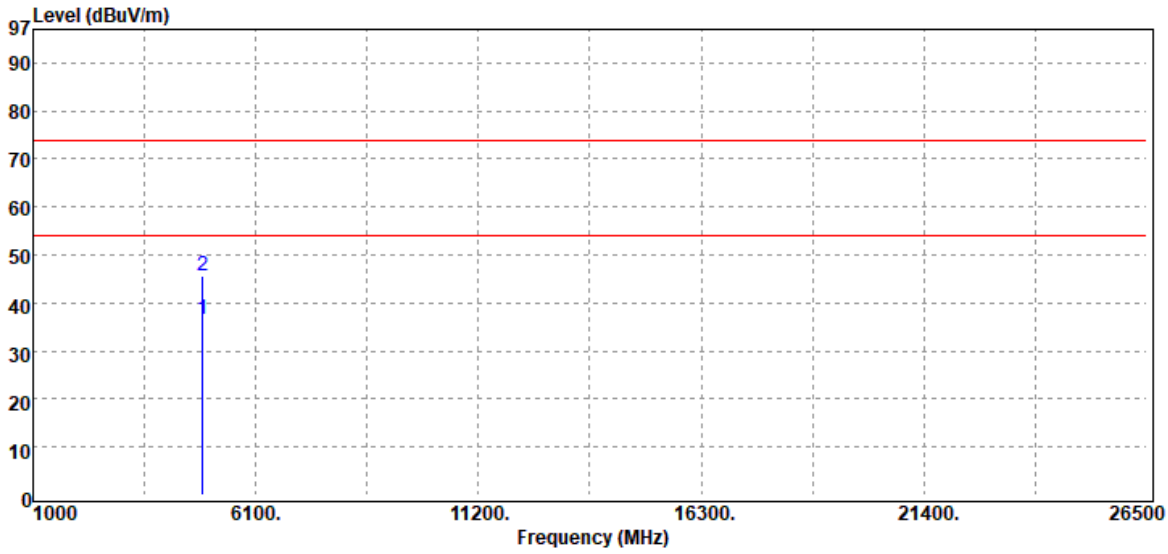
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2442 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.00	Average	21.71	14.97	36.68	54.00	-17.32
4884.00	Peak	30.83	14.97	45.80	74.00	-28.20

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

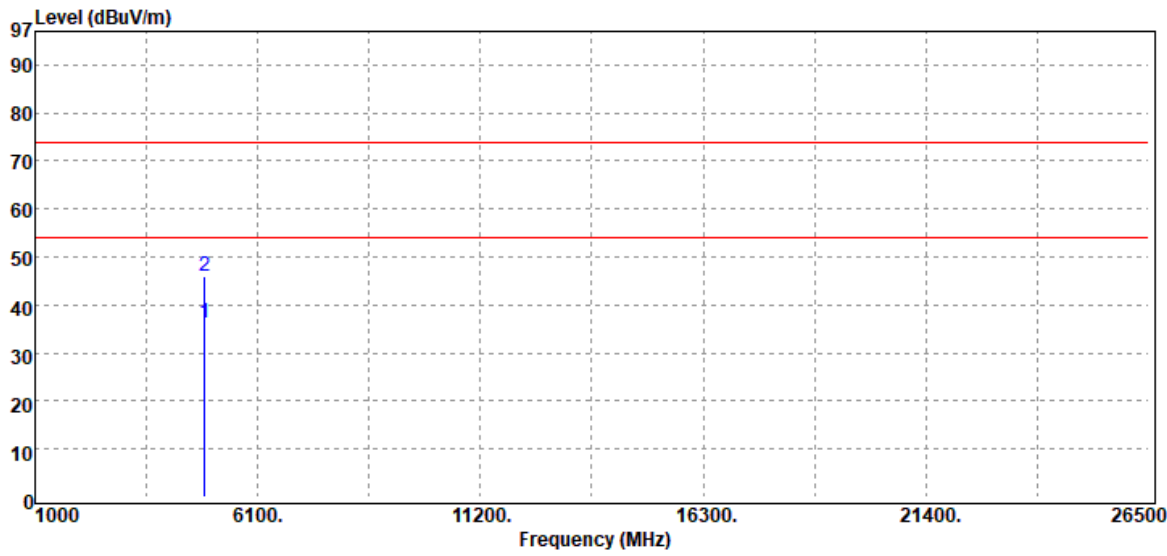
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2442 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.00	Average	21.17	14.97	36.14	54.00	-17.86
4884.00	Peak	31.09	14.97	46.06	74.00	-27.94

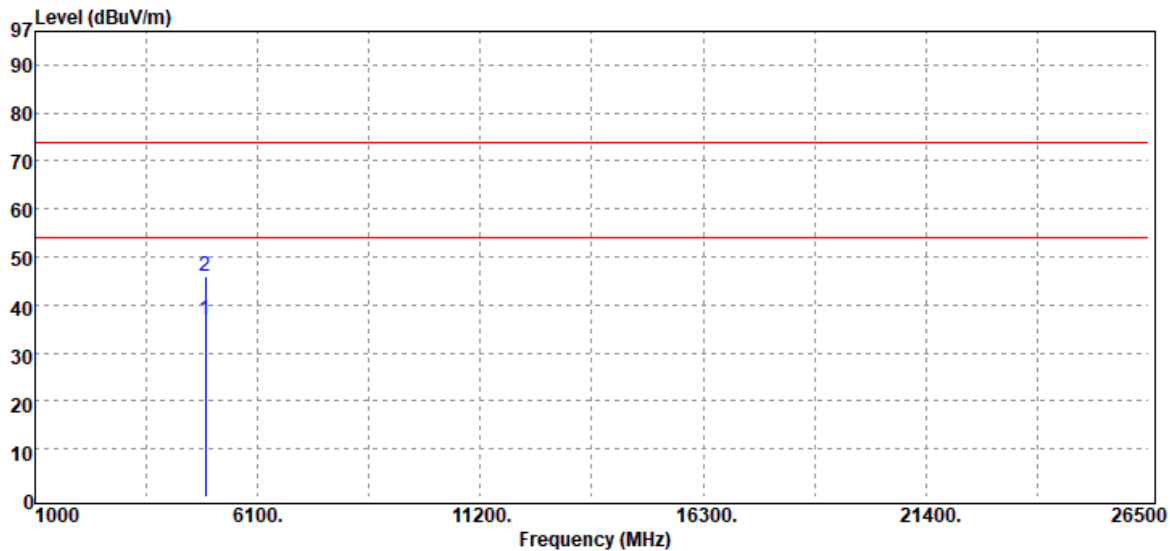
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2447 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4894.00	Average	21.72	15.09	36.81	54.00	-17.19
4894.00	Peak	30.91	15.09	46.00	74.00	-28.00

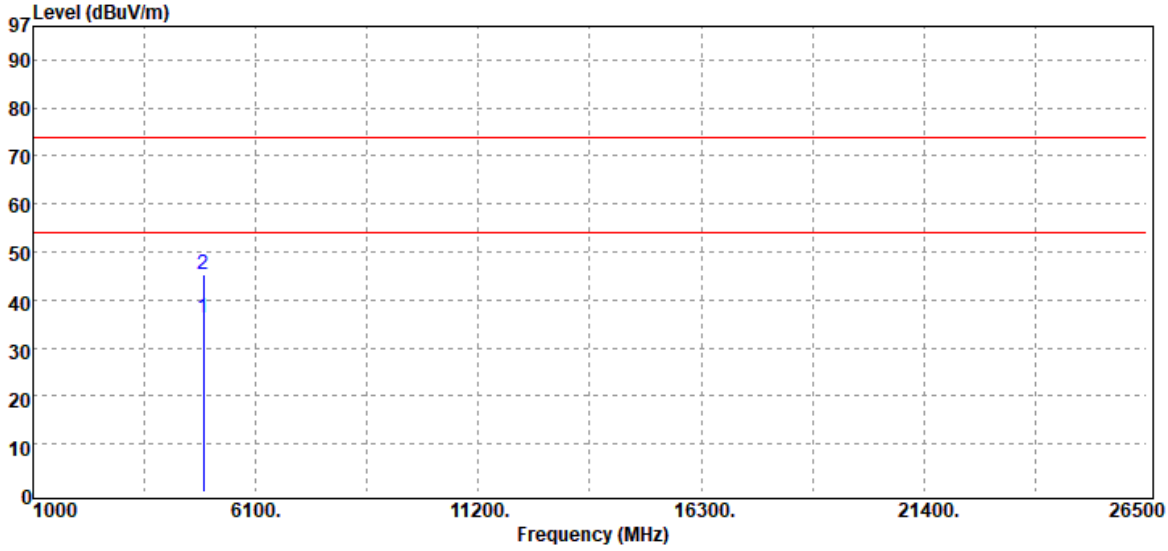
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2447 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4894.00	Average	21.32	15.09	36.41	54.00	-17.59
4894.00	Peak	30.15	15.09	45.24	74.00	-28.76

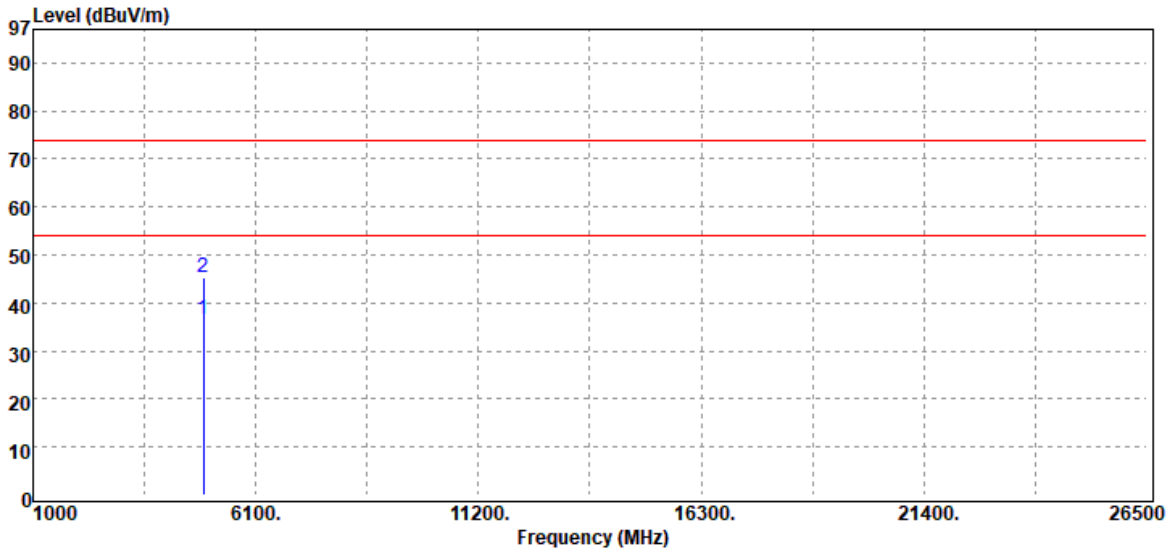
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2452 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.00	Average	21.56	15.12	36.68	54.00	-17.32
4904.00	Peak	30.31	15.12	45.43	74.00	-28.57

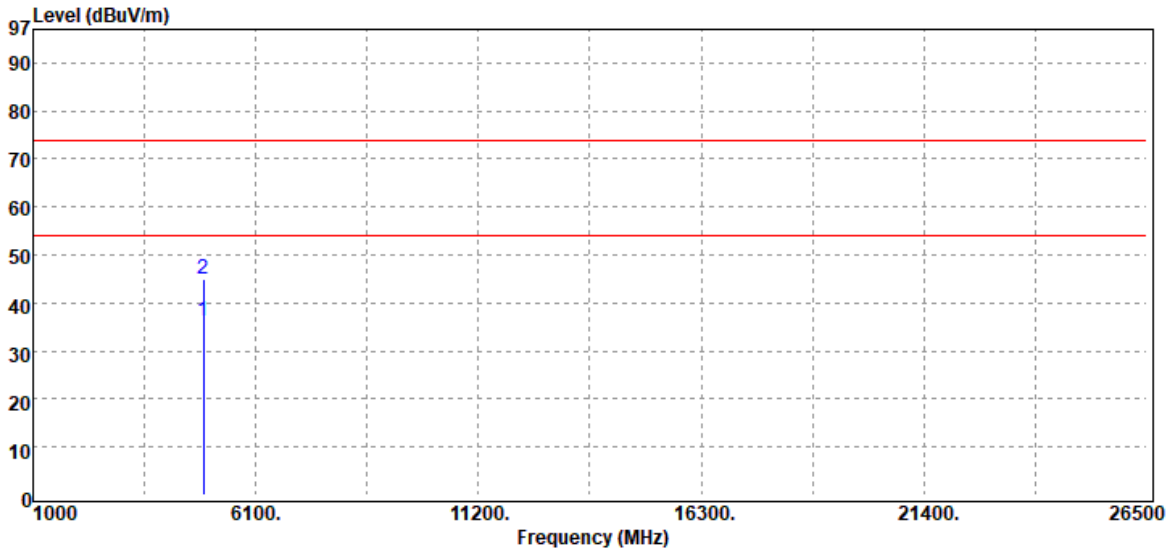
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2452 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4904.00	Average	21.07	15.12	36.19	54.00	-17.81
4904.00	Peak	29.91	15.12	45.03	74.00	-28.97

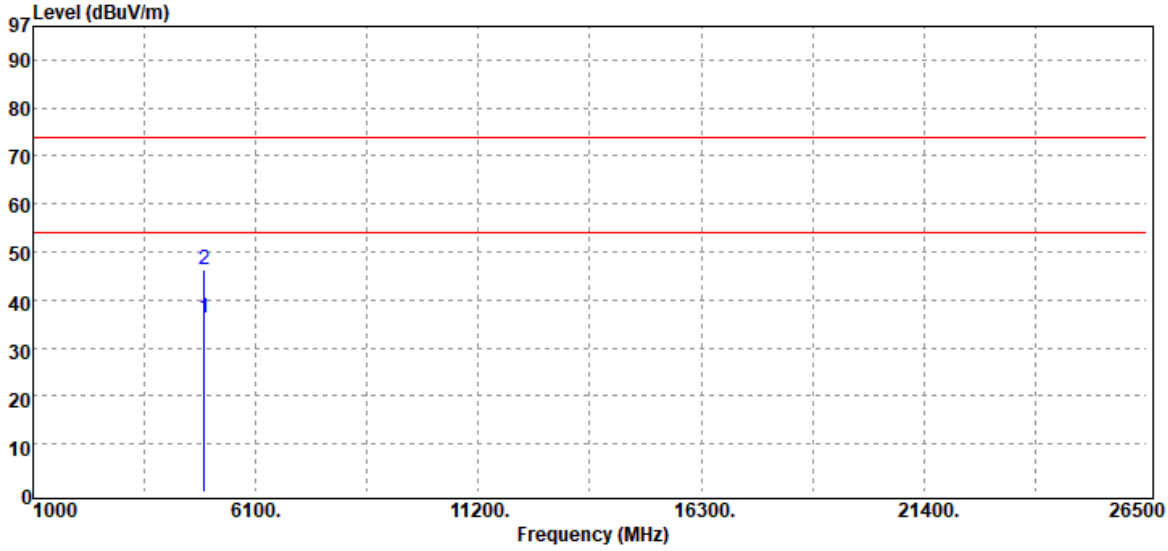
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2457 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4914.00	Average	21.31	15.00	36.31	54.00	-17.69
4914.00	Peak	31.29	15.00	46.29	74.00	-27.71

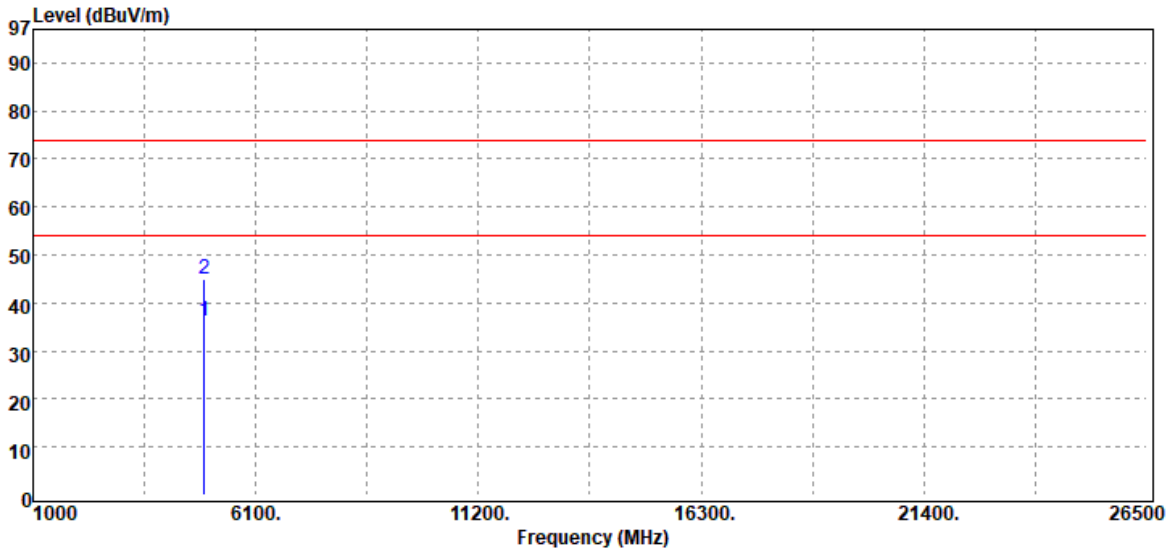
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2457 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4914.00	Average	21.13	15.00	36.13	54.00	-17.87
4914.00	Peak	29.96	15.00	44.96	74.00	-29.04

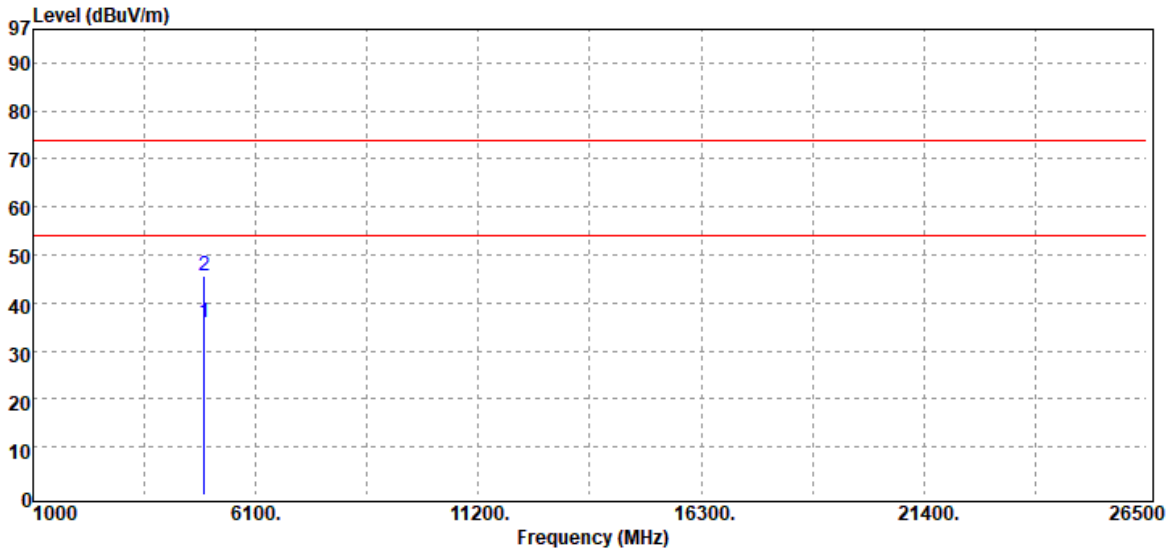
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	21.17	14.87	36.04	54.00	-17.96
4924.00	Peak	30.64	14.87	45.51	74.00	-28.49

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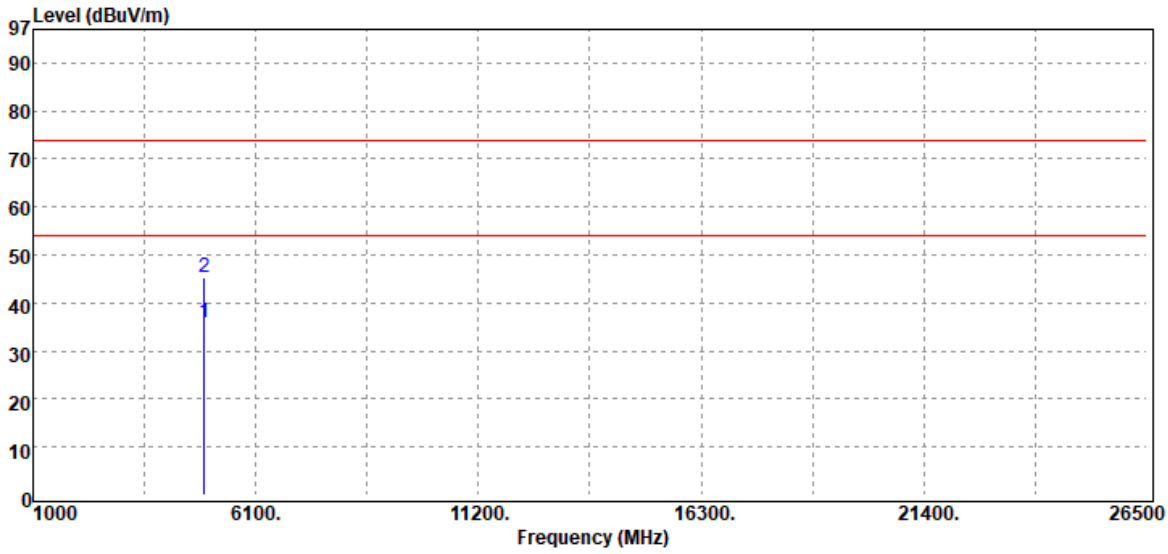
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Report Number :ER/2020/90108  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	21.04	14.87	35.91	54.00	-18.09
4924.00	Peak	30.27	14.87	45.14	74.00	-28.86

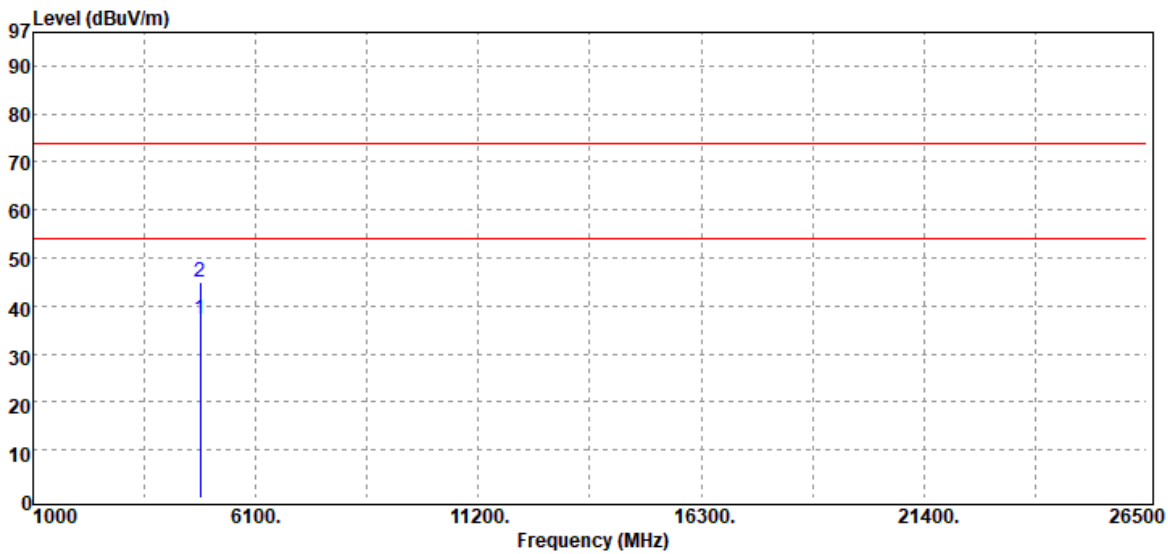
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d $\mu$ V	Factor dB	Actual FS d $\mu$ V/m	Limit @3m d $\mu$ V/m	Margin dB
4824.00	Average	22.85	14.56	37.41	54.00	-16.59
4824.00	Peak	30.47	14.56	45.03	74.00	-28.97

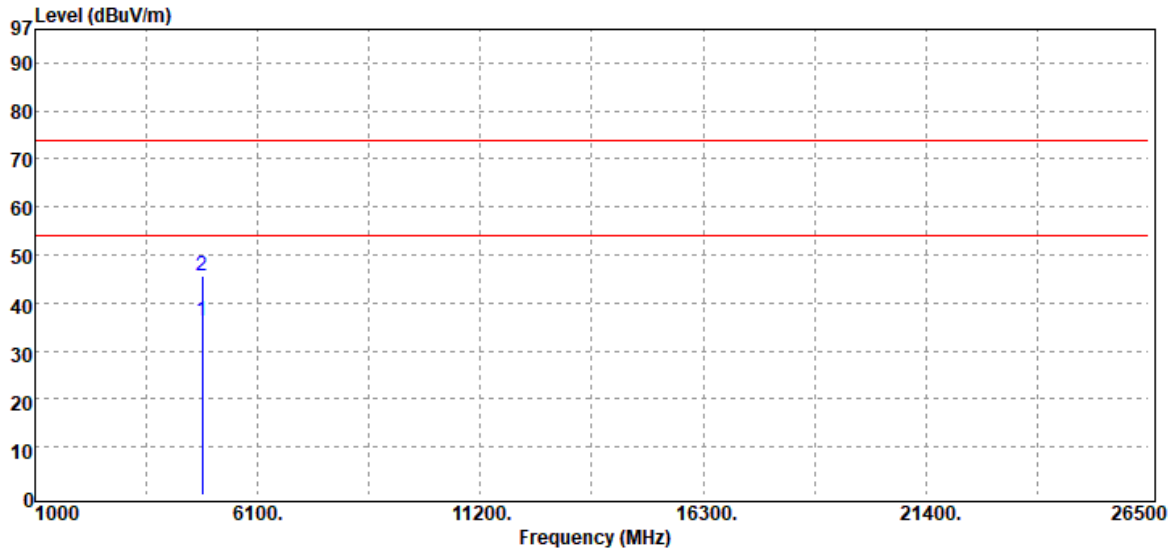
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.00	Average	21.81	14.56	36.37	54.00	-17.63
4824.00	Peak	30.96	14.56	45.52	74.00	-28.48

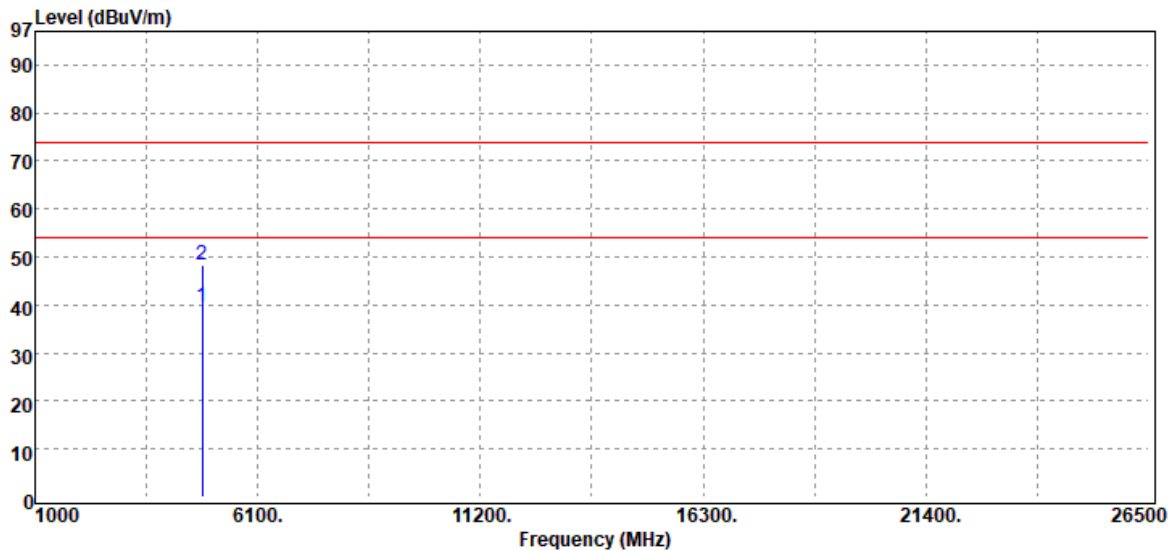
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2417 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4834.00	Average	24.93	14.56	39.49	54.00	-14.51
4834.00	Peak	33.81	14.56	48.37	74.00	-25.63

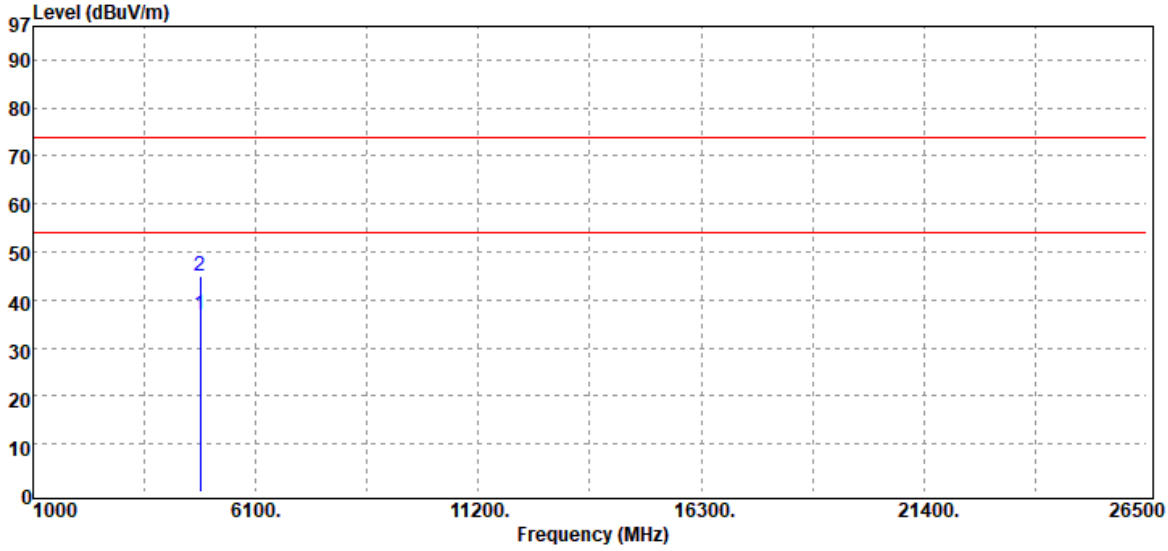
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2417 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4834.00	Average	22.45	14.56	37.01	54.00	-16.99
4834.00	Peak	30.37	14.56	44.93	74.00	-29.07

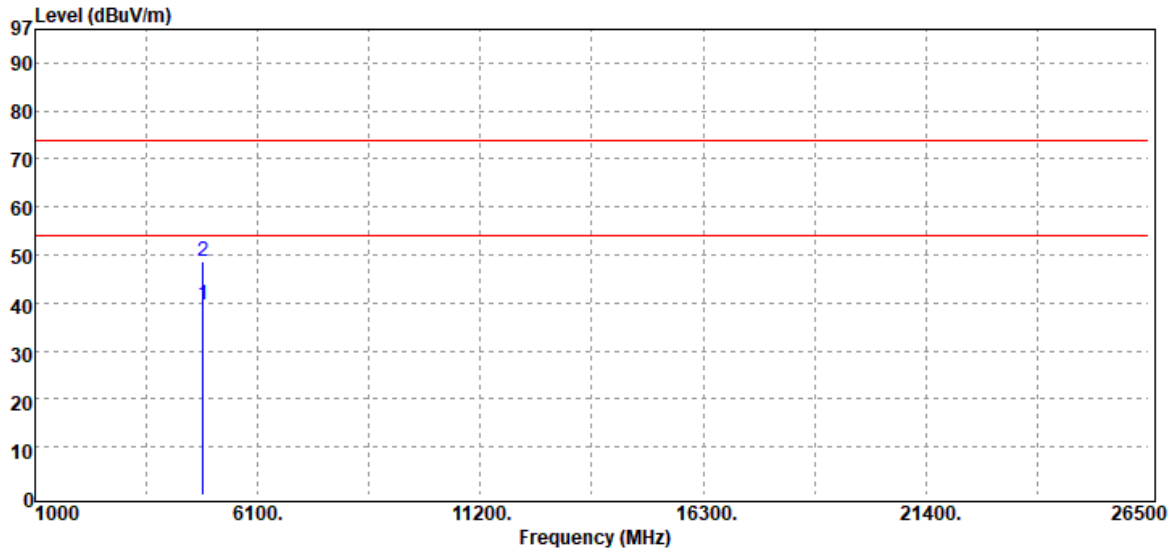
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2422 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d $\mu$ V	Factor dB	Actual FS d $\mu$ V/m	Limit @3m d $\mu$ V/m	Margin dB
4844.00	Average	25.05	14.58	39.63	54.00	-14.37
4844.00	Peak	34.22	14.58	48.80	74.00	-25.20

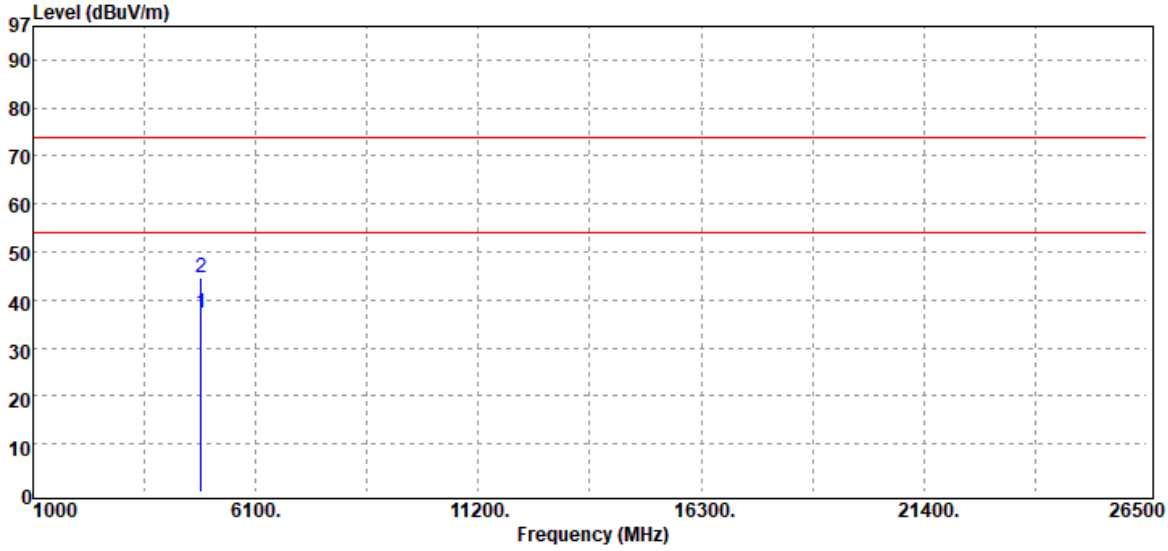
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2422 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4844.00	Average	22.68	14.58	37.26	54.00	-16.74
4844.00	Peak	30.12	14.58	44.70	74.00	-29.30

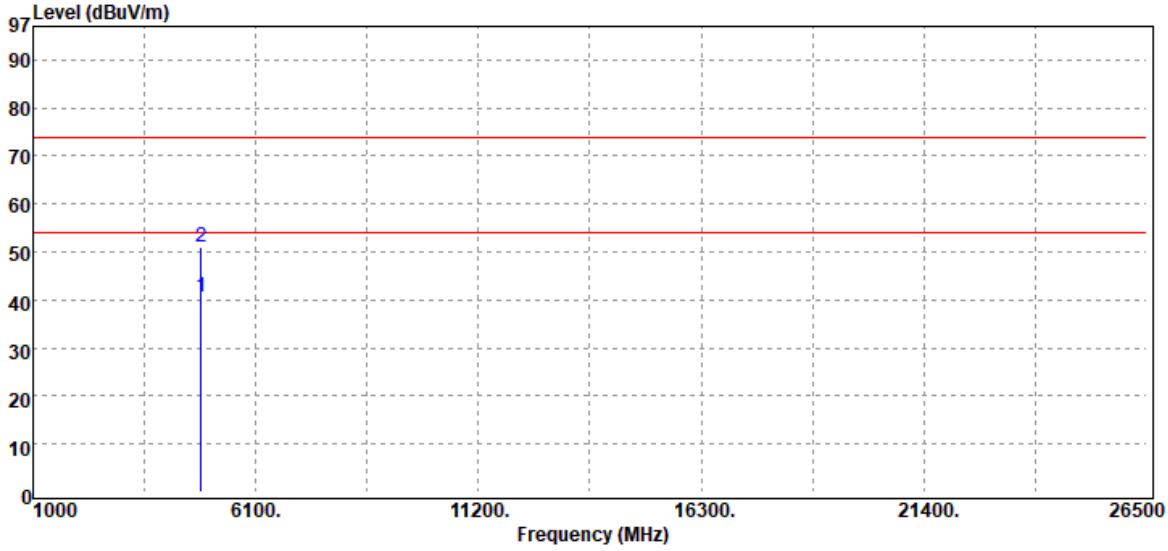
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2427 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4854.00	Average	26.13	14.62	40.75	54.00	-13.25
4854.00	Peak	36.40	14.62	51.02	74.00	-22.98

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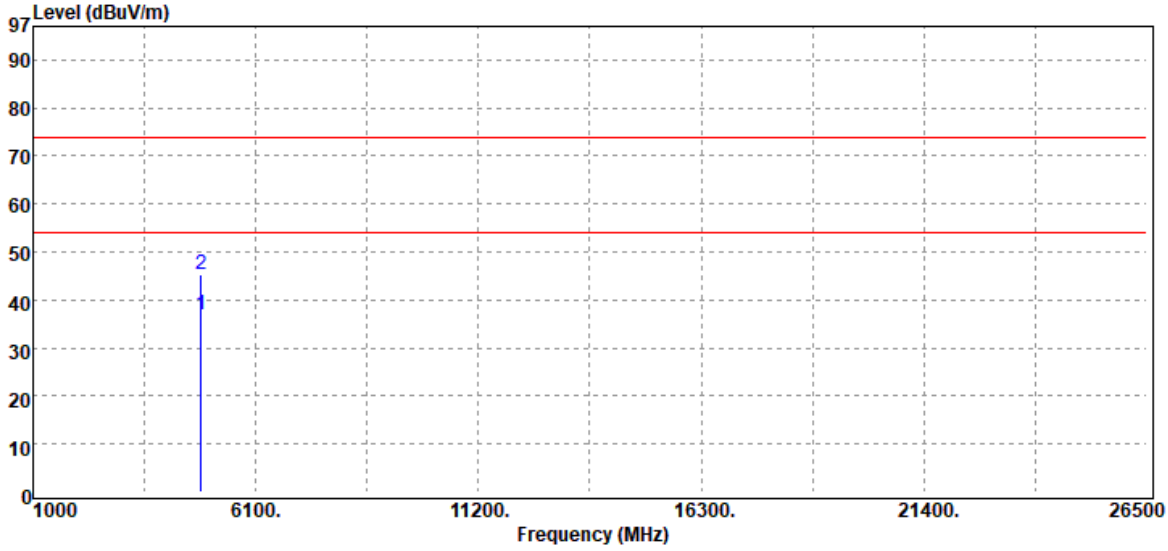
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2427 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4854.00	Average	22.46	14.62	37.08	54.00	-16.92
4854.00	Peak	30.64	14.62	45.26	74.00	-28.74

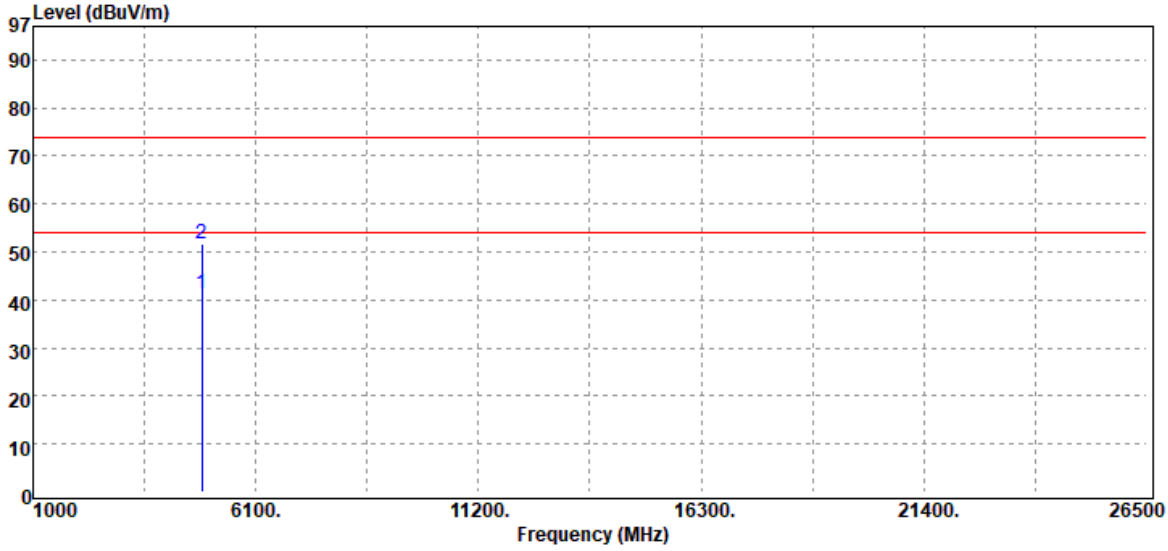
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2432 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4864.00	Average	26.43	14.73	41.16	54.00	-12.84
4864.00	Peak	36.88	14.73	51.61	74.00	-22.39

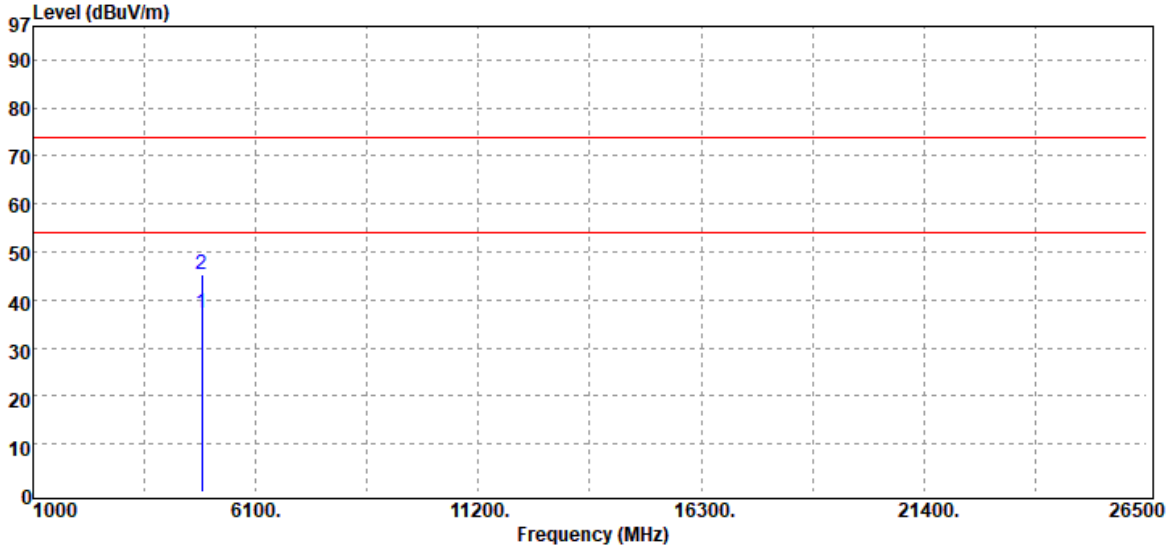
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2432 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4864.00	Average	22.38	14.73	37.11	54.00	-16.89
4864.00	Peak	30.71	14.73	45.44	74.00	-28.56

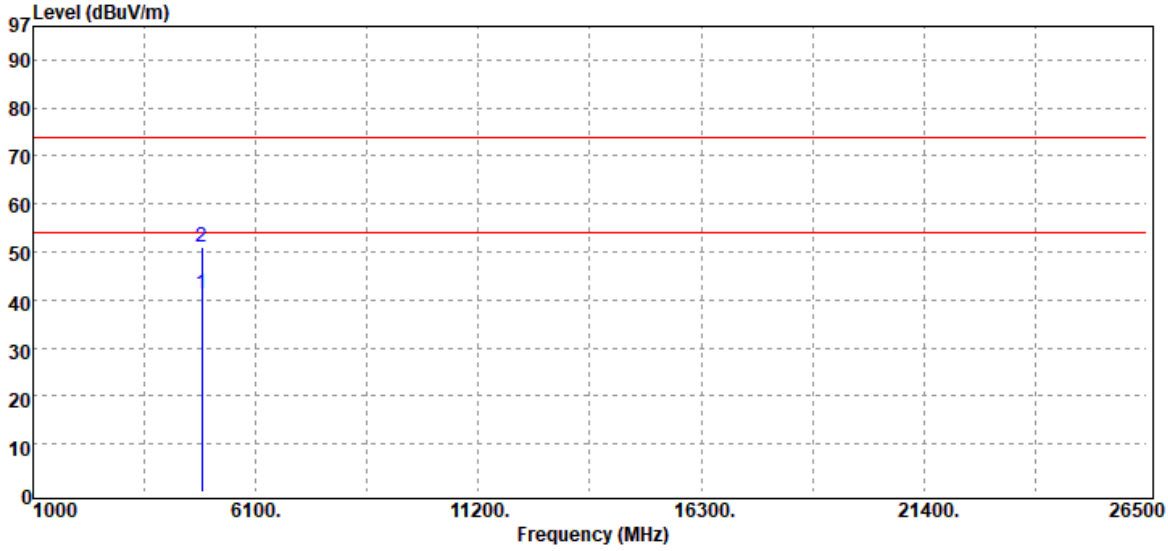
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	26.37	14.85	41.22	54.00	-12.78
4874.00	Peak	36.16	14.85	51.01	74.00	-22.99

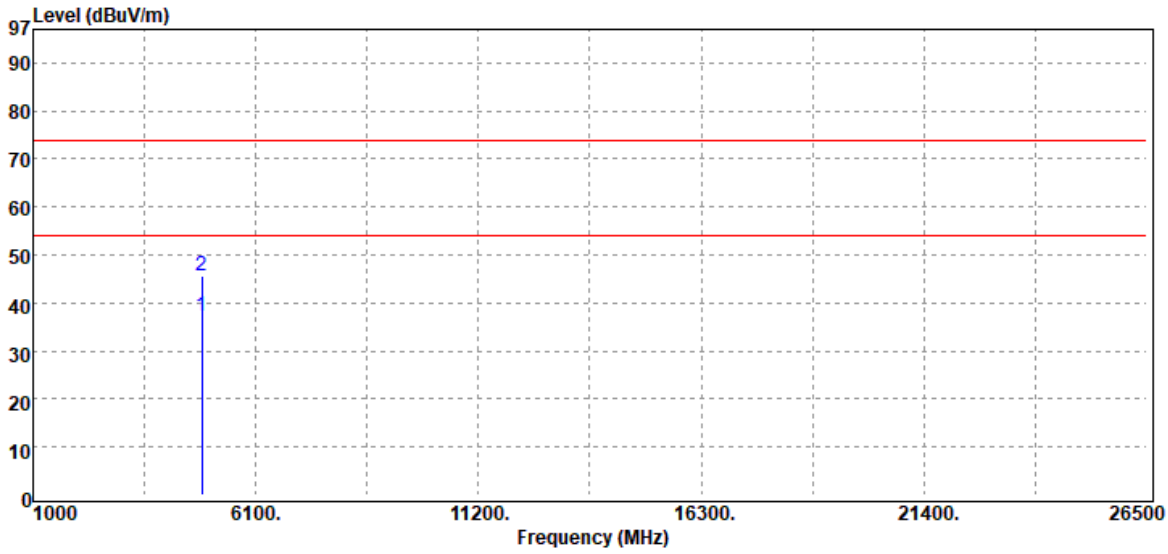
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.00	Average	22.32	14.85	37.17	54.00	-16.83
4874.00	Peak	30.64	14.85	45.49	74.00	-28.51

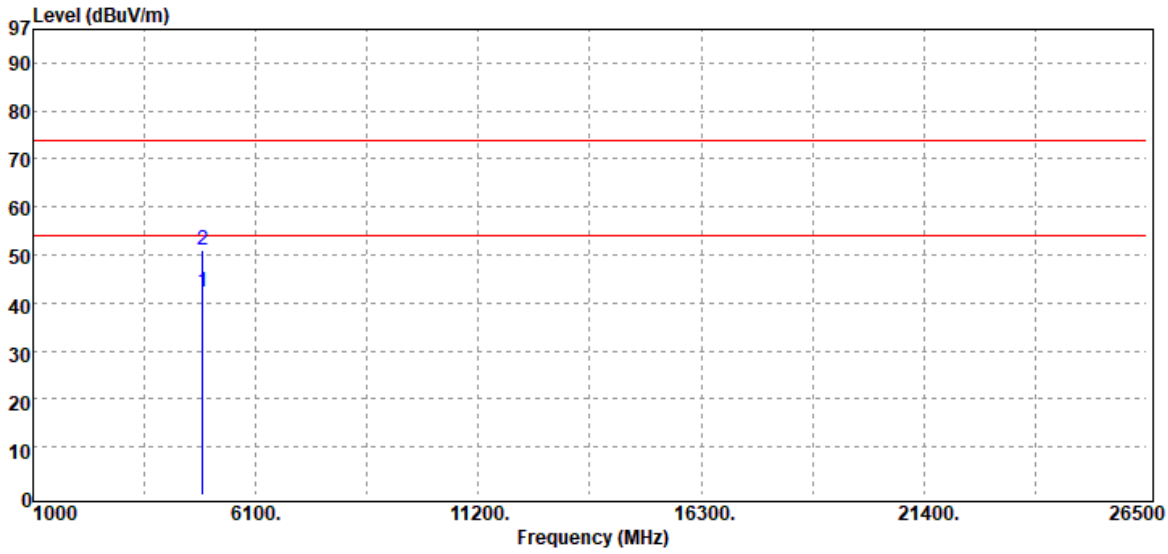
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2442 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dB $\mu$ V		dB $\mu$ V/m	dB $\mu$ V/m	
4884.00	Average	27.38	14.97	42.35	54.00	-11.65
4884.00	Peak	36.17	14.97	51.14	74.00	-22.86

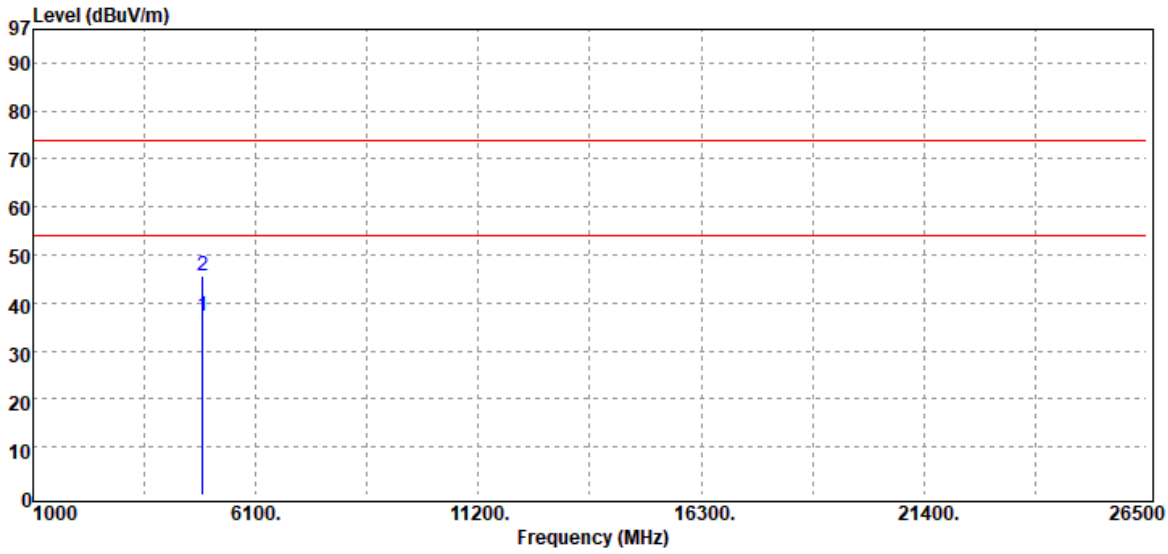
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2442 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4884.00	Average	22.29	14.97	37.26	54.00	-16.74
4884.00	Peak	30.66	14.97	45.63	74.00	-28.37

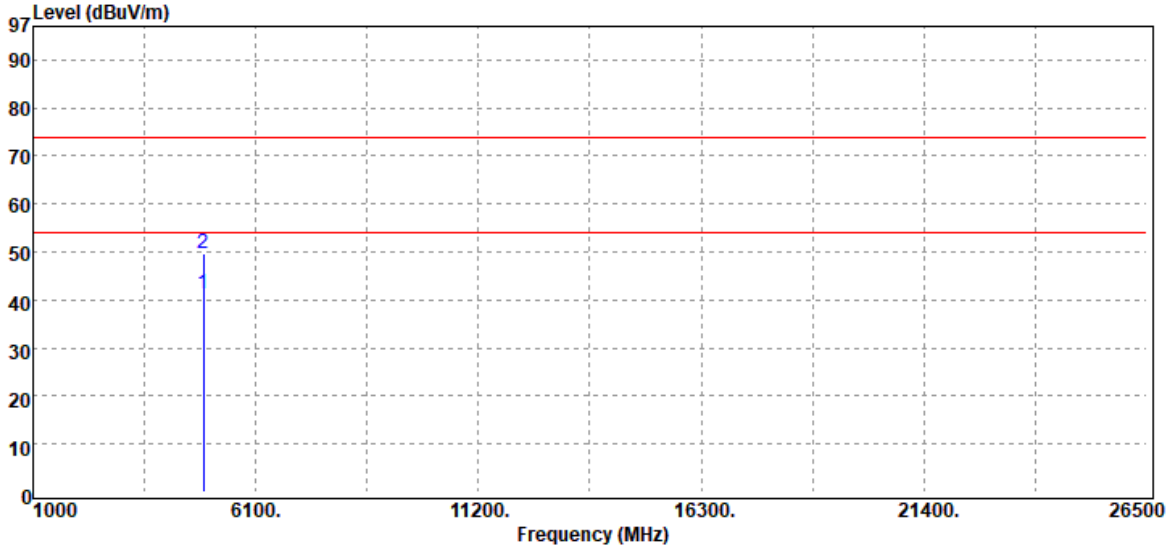
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2447 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4894.00	Average	26.31	15.09	41.40	54.00	-12.60
4894.00	Peak	34.68	15.09	49.77	74.00	-24.23

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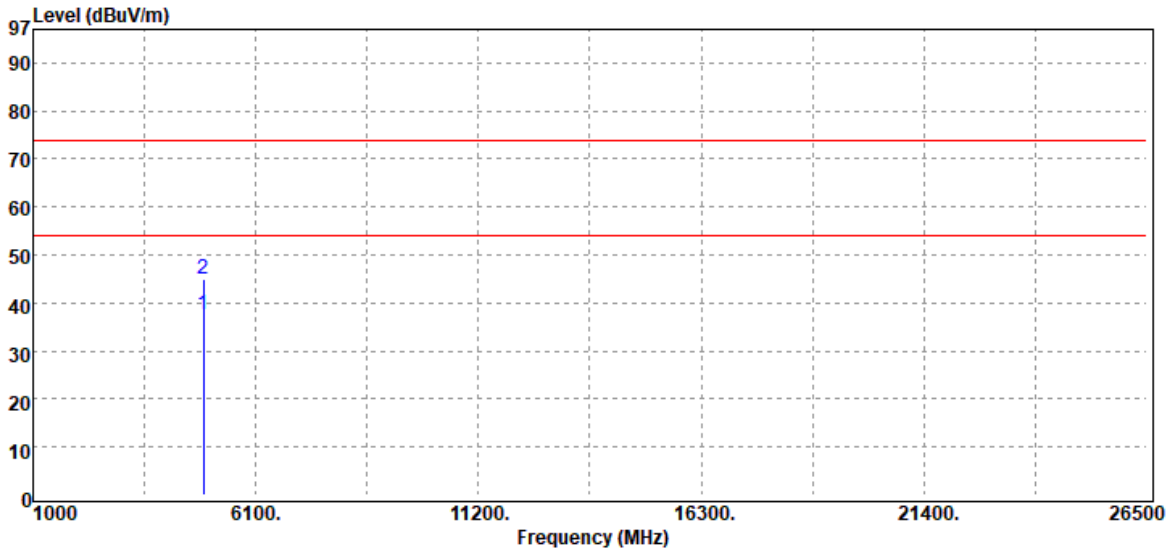
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2447 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4894.00	Average	22.43	15.09	37.52	54.00	-16.48
4894.00	Peak	29.94	15.09	45.03	74.00	-28.97

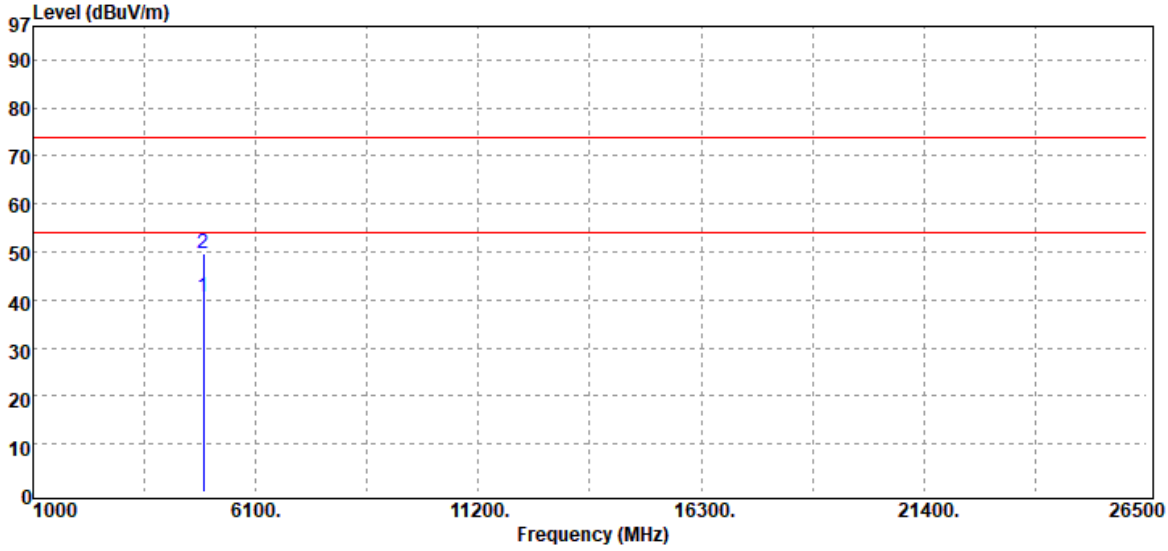
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2452 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4904.00	Average	25.48	15.12	40.60	54.00	-13.40
4904.00	Peak	34.44	15.12	49.56	74.00	-24.44

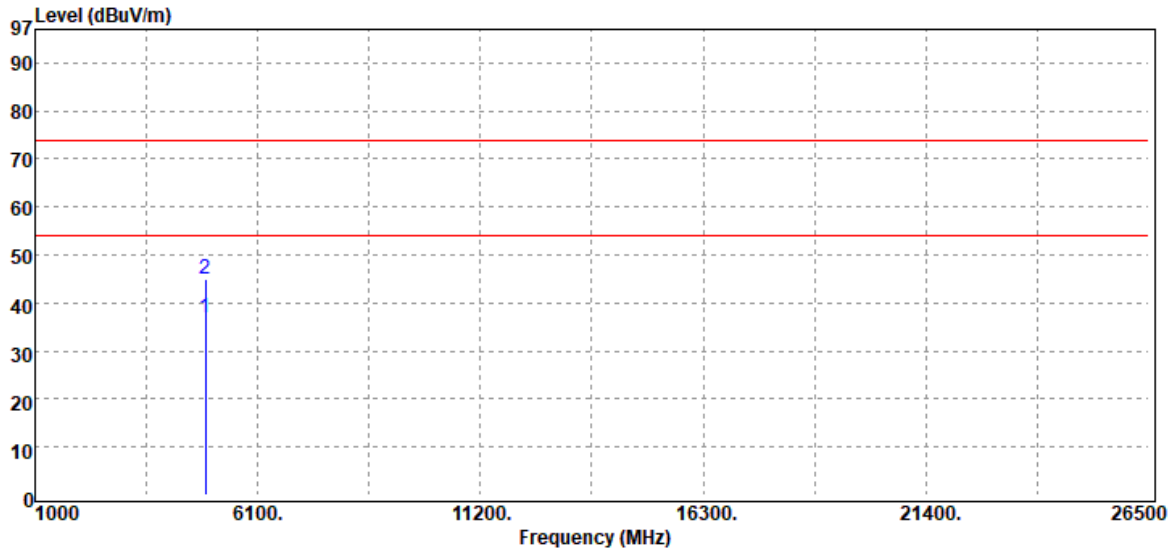
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2452 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4904.00	Average	21.96	15.12	37.08	54.00	-16.92
4904.00	Peak	29.79	15.12	44.91	74.00	-29.09

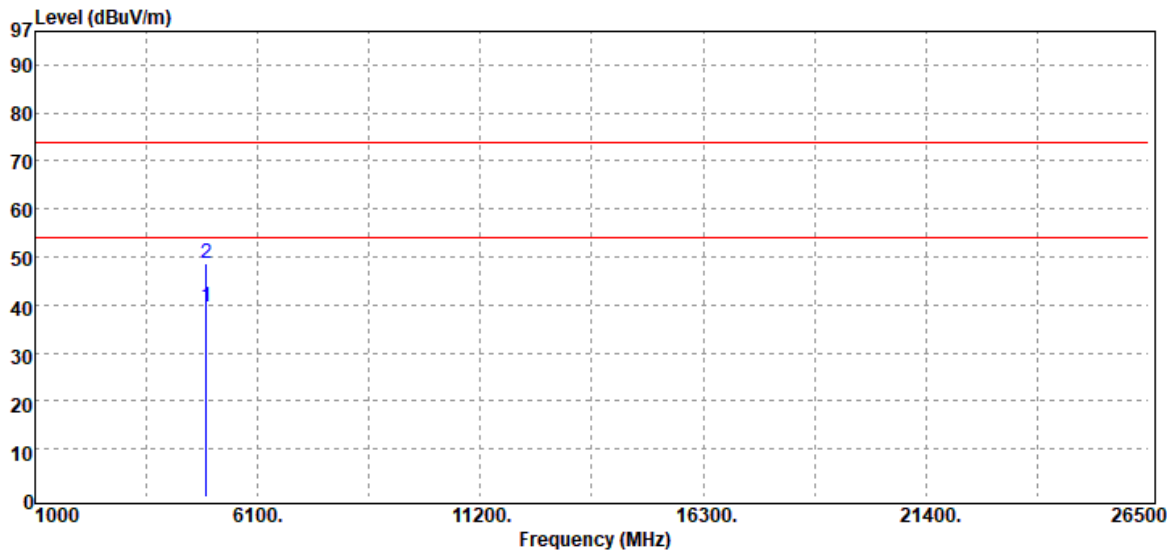
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2457 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4914.00	Average	24.50	15.00	39.50	54.00	-14.50
4914.00	Peak	33.56	15.00	48.56	74.00	-25.44

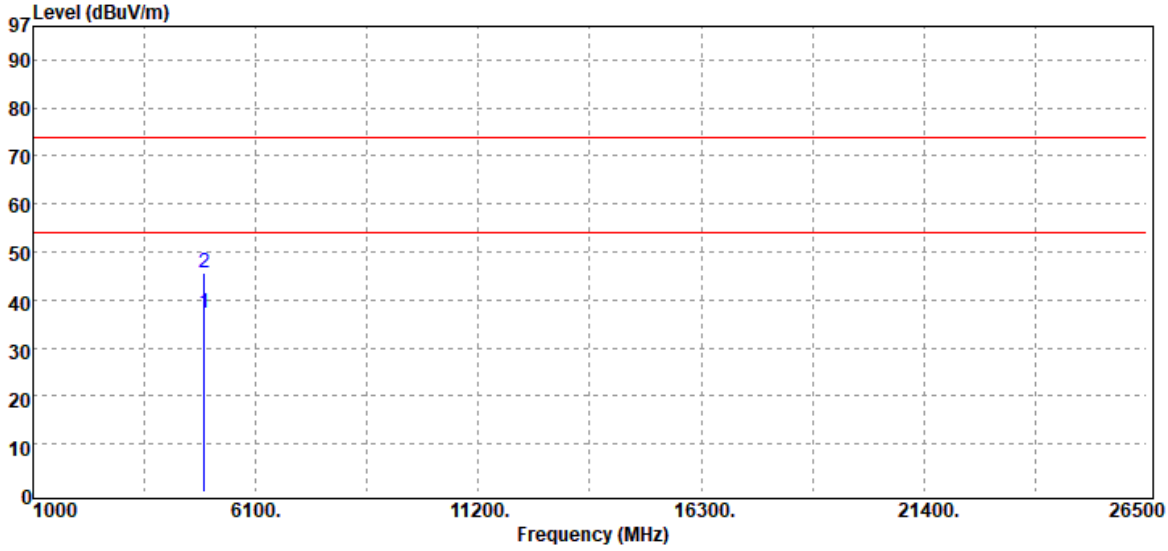
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2457 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4914.00	Average	22.13	15.00	37.13	54.00	-16.87
4914.00	Peak	30.50	15.00	45.50	74.00	-28.50

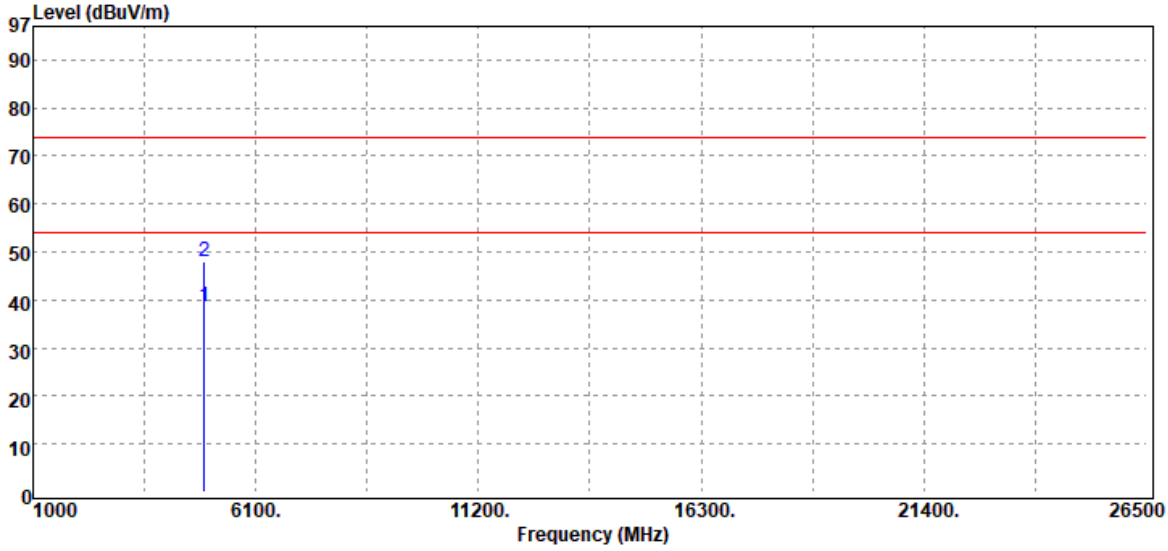
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Report Number :ER/2020/90108  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :E1 Plane

Test Site :SAC I Chamber  
 Test Date :2020-10-20  
 Temp./Humi. :21.9/65  
 Antenna Pol. :VERTICAL  
 Engineer :Neo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	23.67	14.87	38.54	54.00	-15.46
4924.00	Peak	33.07	14.87	47.94	74.00	-26.06

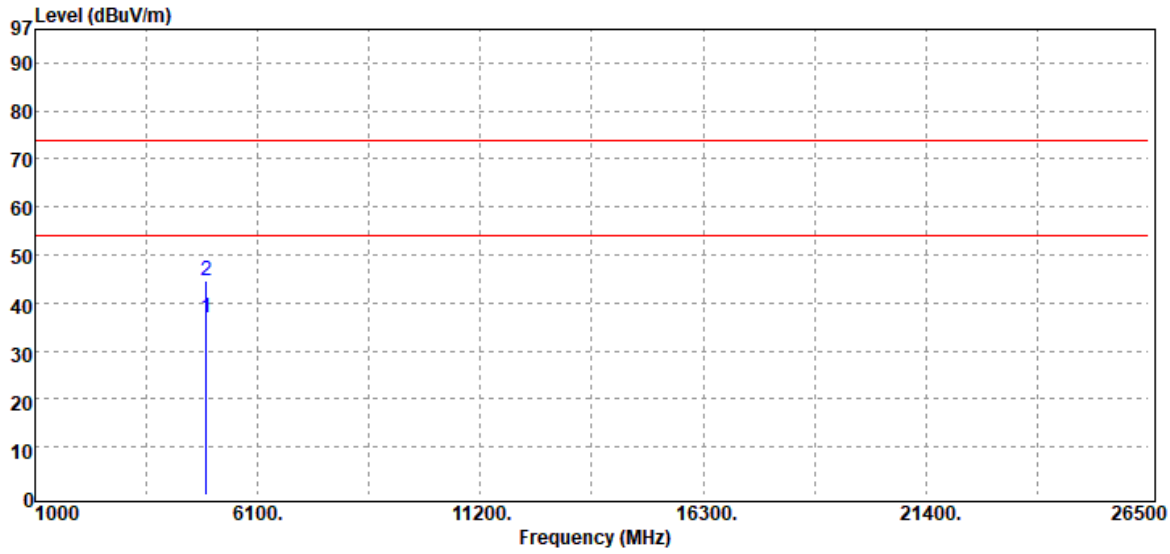
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EUT Pol :E1 Plane

Test Site :SAC I Chamber  
Test Date :2020-10-20  
Temp./Humi. :21.9/65  
Antenna Pol. :HORIZONTAL  
Engineer :Neo



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.00	Average	21.94	14.87	36.81	54.00	-17.19
4924.00	Peak	29.73	14.87	44.60	74.00	-29.40

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## 12 POWER SPECTRAL DENSITY

### 12.1 Standard Applicable

Per Part 15.247 (e)

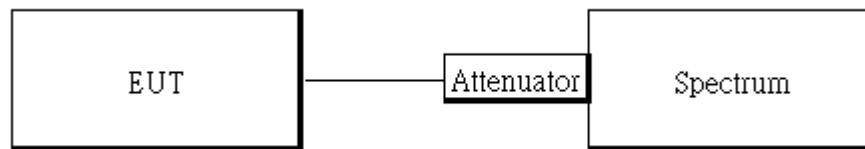
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### 12.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/06/2020	05/05/2021
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/10/2019	12/09/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

### 12.3 Test Set-up



### 12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

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**Note:**

*For the test of 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.*

**12.5 As per FCC KDB 662911 D01**

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = \frac{1}{20} 10G_k$  if the kth antenna is being fed by spatial stream j, or zero if it is not;

$G_k$  is the gain in dBi of the kth antenna.

The antenna gain is greater than 6 dBi, therefore the limit needs to be reduced as below:

Frequency (MHz)	Antenna Gain (dBi)	Peak spectral density (dBm/3kHz)
2412~2462	6.41	7.59

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## 12.6 Power spectral density

POWER DENSITY 802.11b				
Freq. (MHz)	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-3.66	-3.66	8.00	PASS
2437	-1.35	-1.35	8.00	PASS
2462	-1.69	-1.69	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-8	-8.00	8.00	PASS
2437	-4.99	-4.99	8.00	PASS
2462	-7.91	-7.91	8.00	PASS

POWER DENSITY 802.11n HT20					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-12.25	-12.15	-8.87	7.59	PASS
2437	-5.75	-5.03	-2.05	7.59	PASS
2462	-10.33	-9.98	-6.82	7.59	PASS

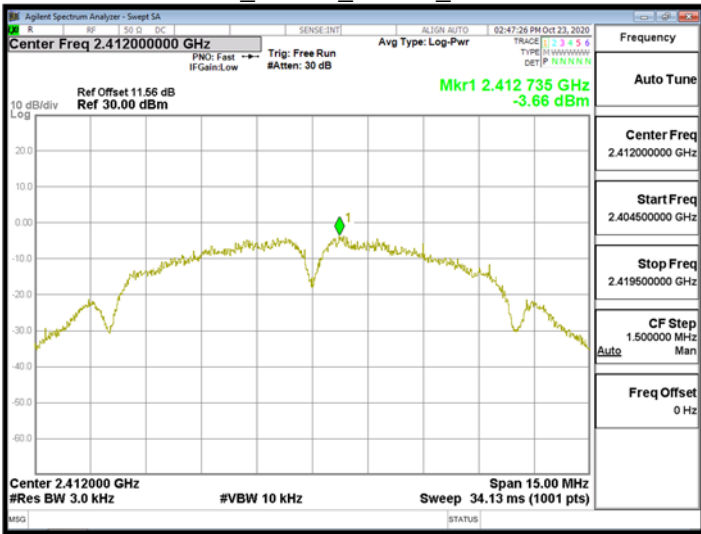
*\*Refer to next page for plots*

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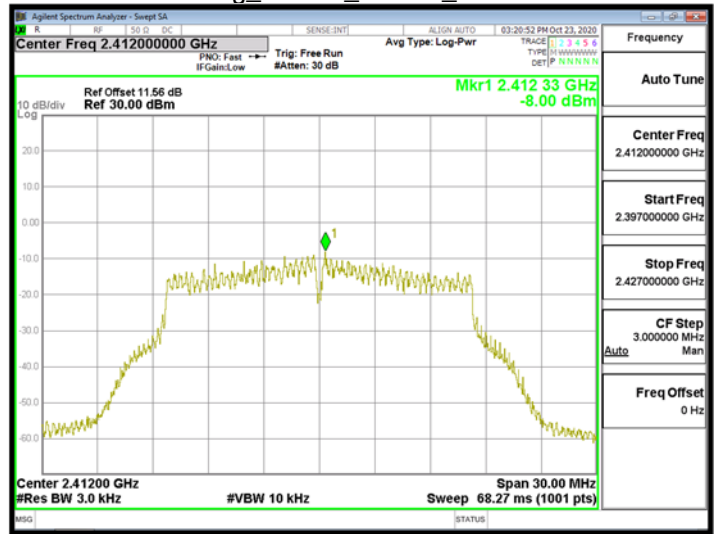
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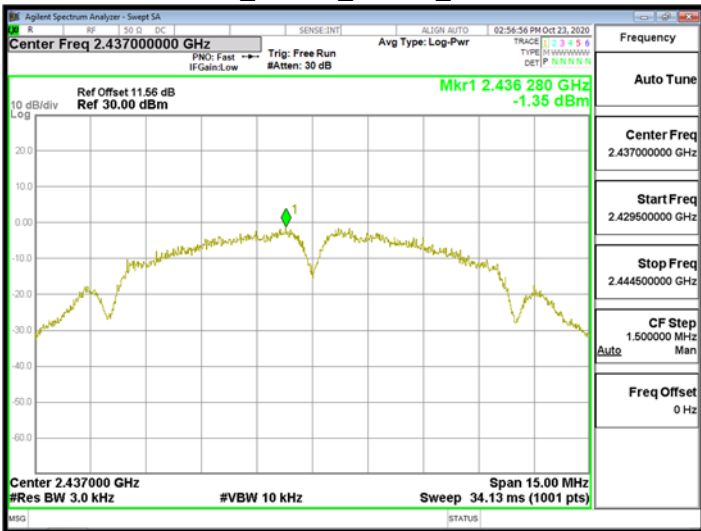
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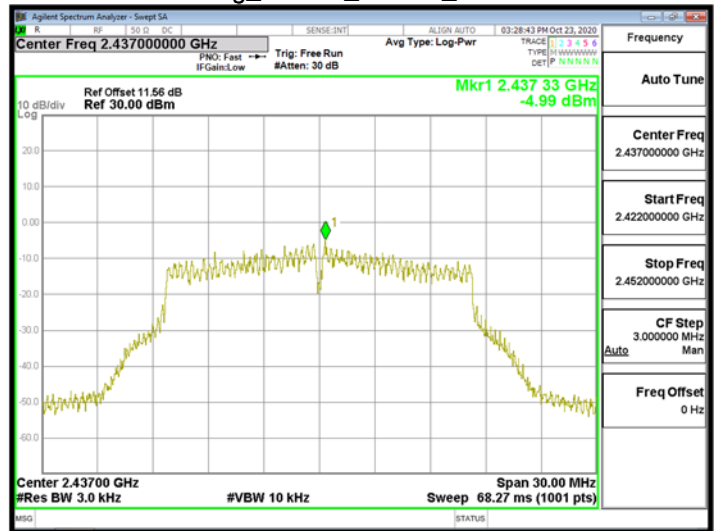
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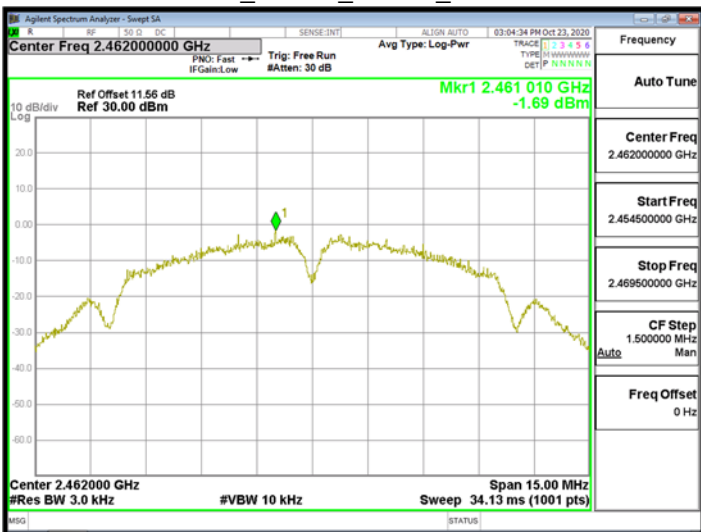
802.11b\_20MHz\_Chain1\_2437MHz



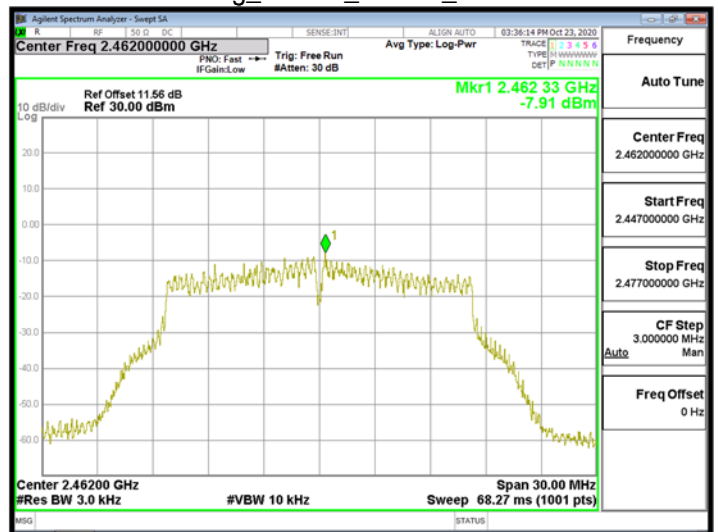
802.11g\_20MHz\_Chain1\_2437MHz



802.11b\_20MHz\_Chain1\_2462MHz



802.11g\_20MHz\_Chain1\_2462MHz

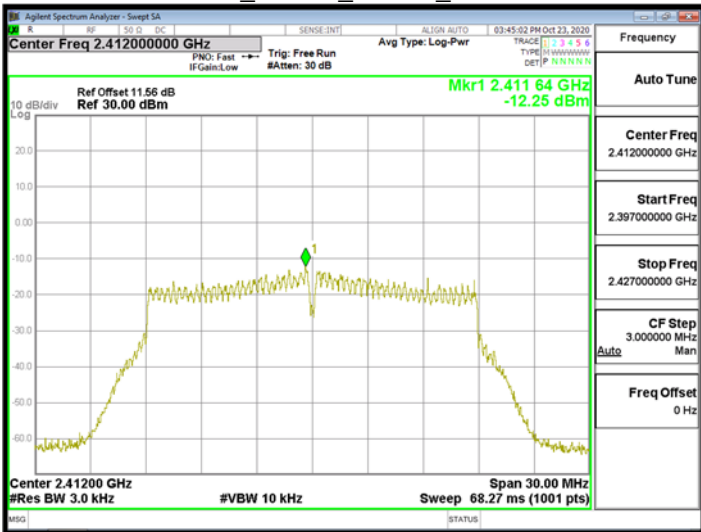


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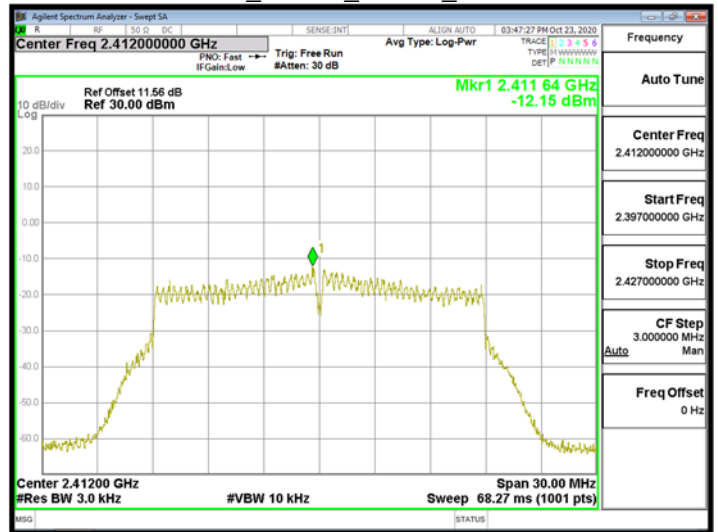
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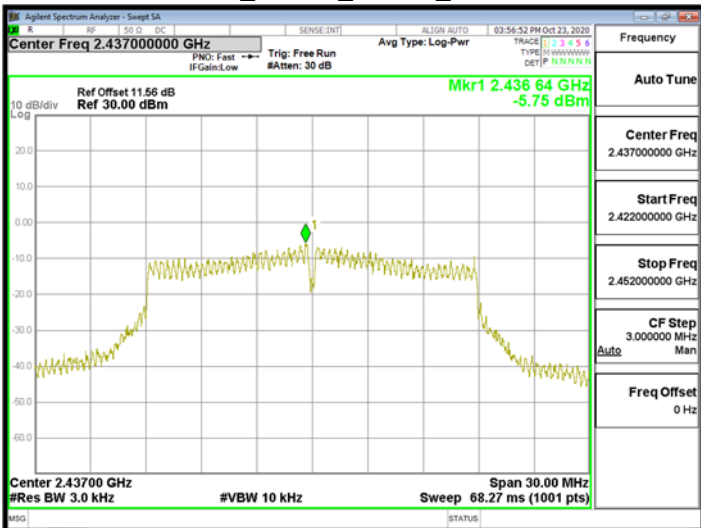
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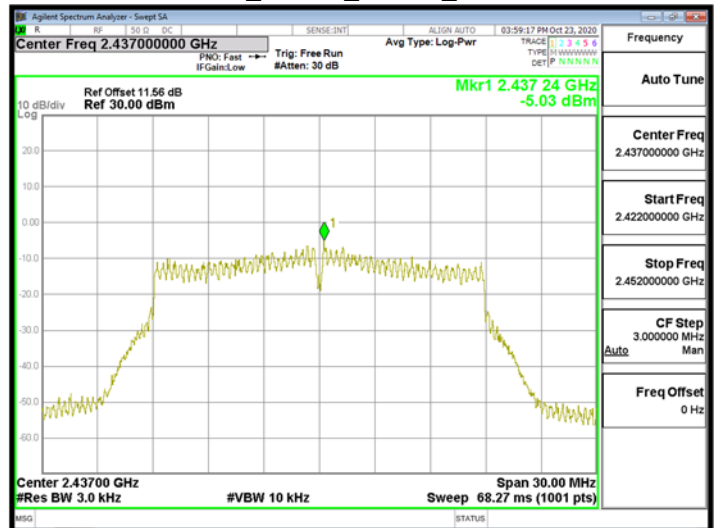
802.11n\_20MHz\_Chain1\_2412MHz



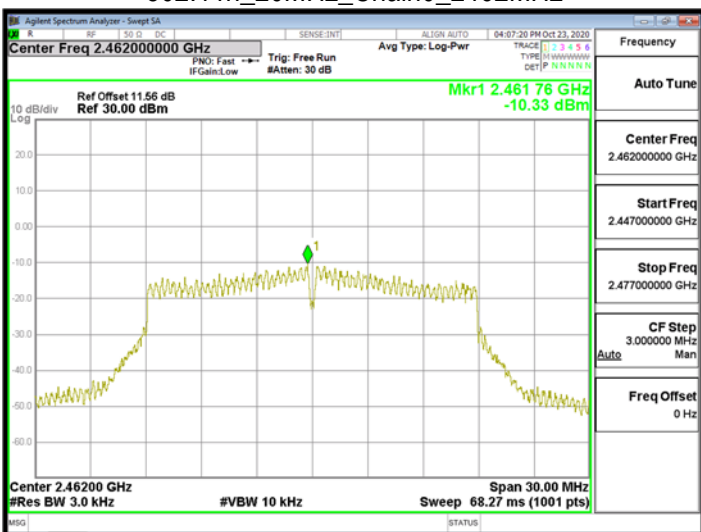
802.11n\_20MHz\_Chain0\_2437MHz



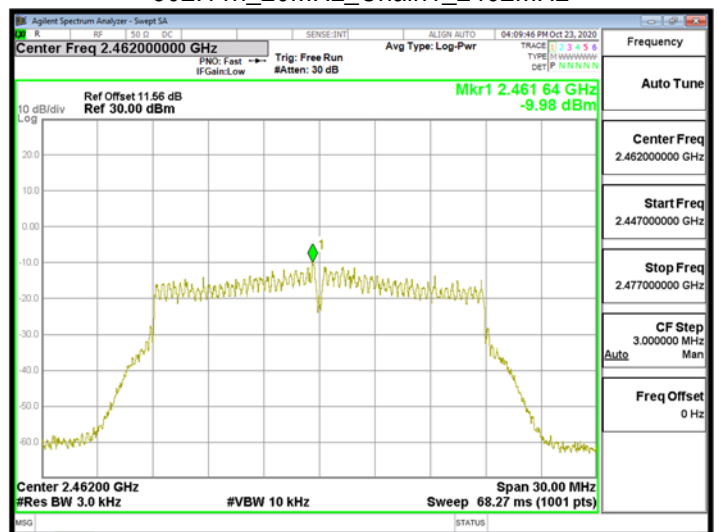
802.11n\_20MHz\_Chain1\_2437MHz



802.11n\_20MHz\_Chain0\_2462MHz



802.11n\_20MHz\_Chain1\_2462MHz



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## 13 ANTENNA REQUIREMENT

### 13.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

### 13.2 Antenna Connected Construction

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

*~ End of Report ~*

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