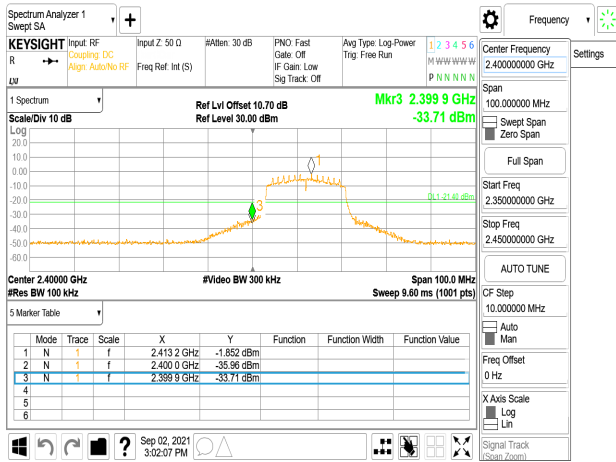


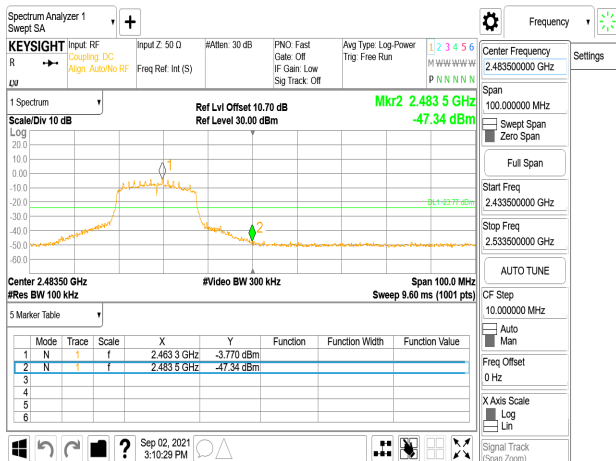
802.11n\_20MHz\_Chain0\_2412MHz



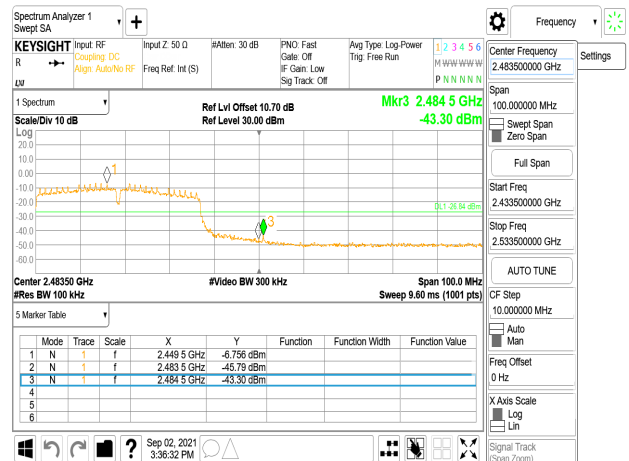
802.11n\_40MHz\_Chain0\_2422MHz



802.11n\_20MHz\_Chain0\_2462MHz



802.11n\_40MHz\_Chain0\_2452MHz

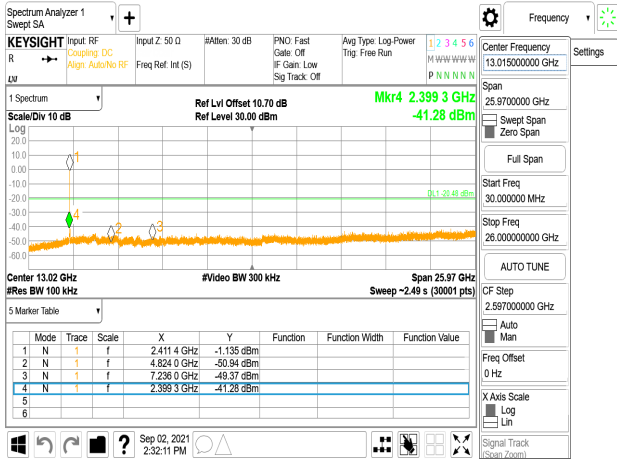


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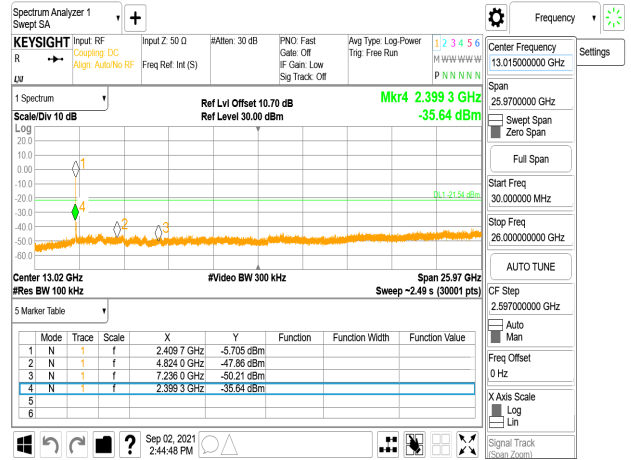
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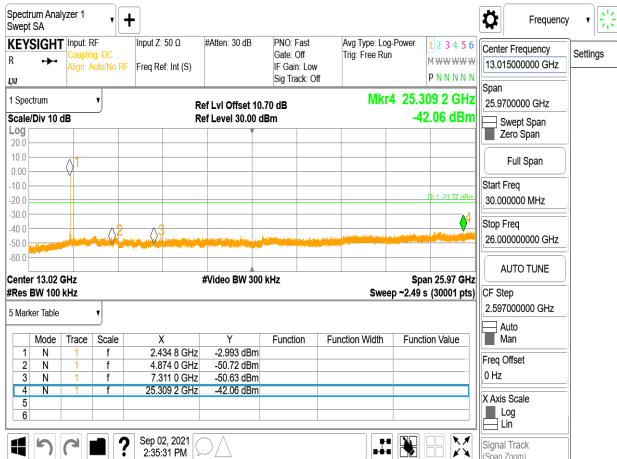
Spurious Emission 802.11b\_20MHz\_Chain0\_2412MHz



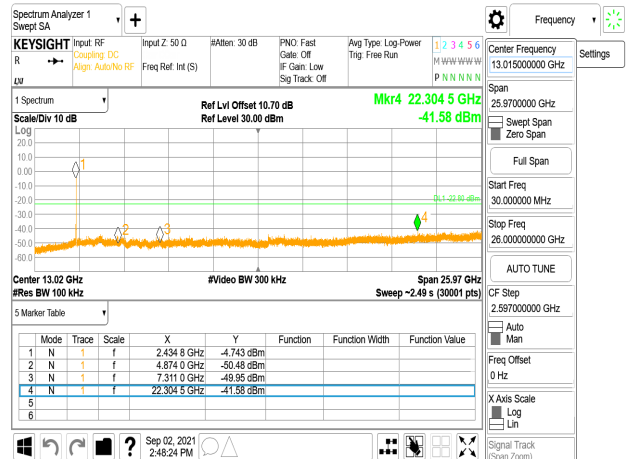
802.11g\_20MHz\_Chain0\_2412MHz



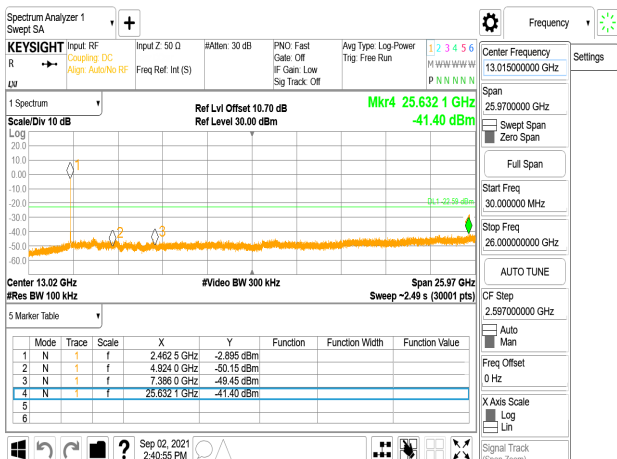
802.11b\_20MHz\_Chain0\_2437MHz



802.11g\_20MHz\_Chain0\_2437MHz



802.11b\_20MHz\_Chain0\_2462MHz



802.11g\_20MHz\_Chain0\_2462MHz

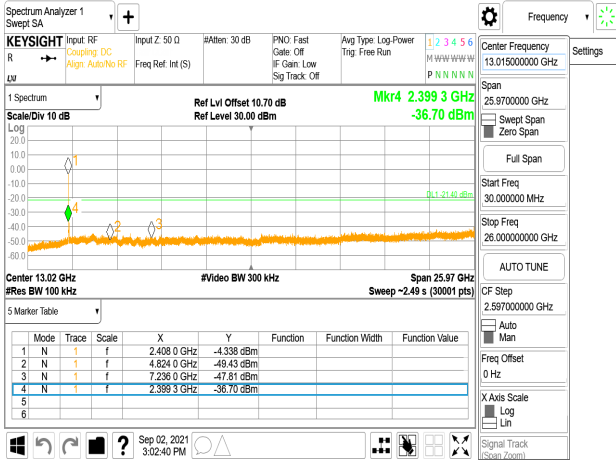


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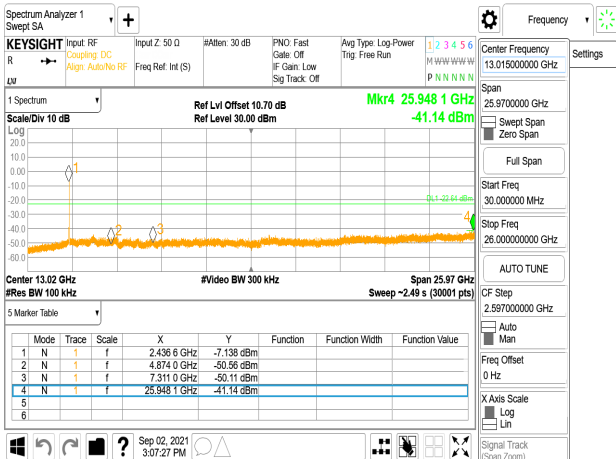
802.11n\_20MHz\_Chain0\_2412MHz



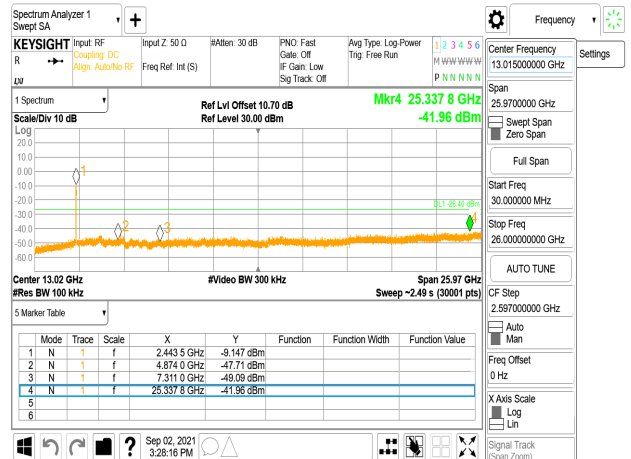
802.11n\_40MHz\_Chain0\_2422MHz



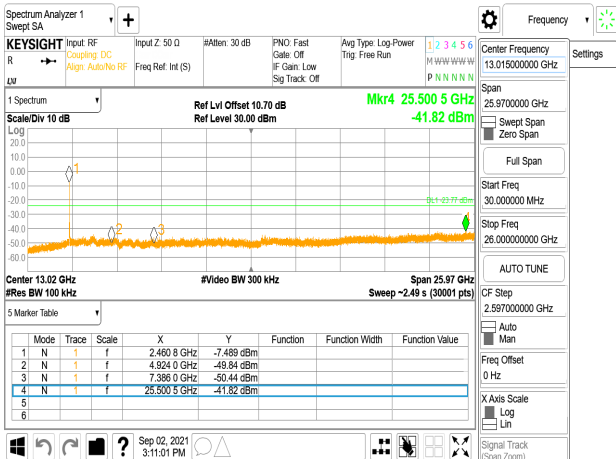
802.11n\_20MHz\_Chain0\_2437MHz



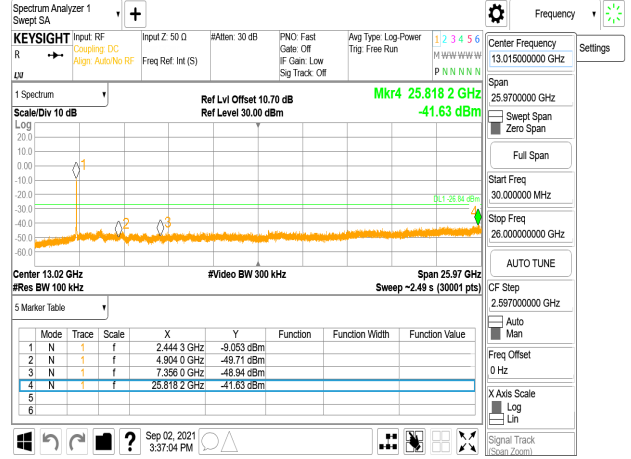
802.11n\_40MHz\_Chain0\_2437MHz



802.11n\_20MHz\_Chain0\_2462MHz



802.11n\_40MHz\_Chain0\_2452MHz



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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.

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**11.2 Measurement Equipment Used:**

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/11/2021	01/10/2022
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
EMI Test Receiver	R&S	ESU 40	100363	04/28/2021	04/27/2022
Pre-Amplifier	EMC Instruments	EMC330	980096	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Attenuator	Marvelous	WATT-218FS-10	RF20	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/19/2020	11/18/2021
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R

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

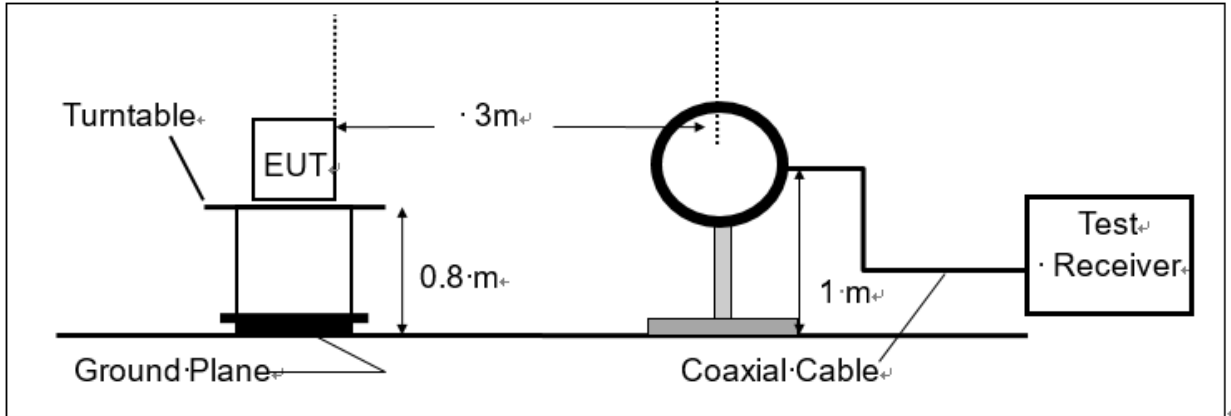
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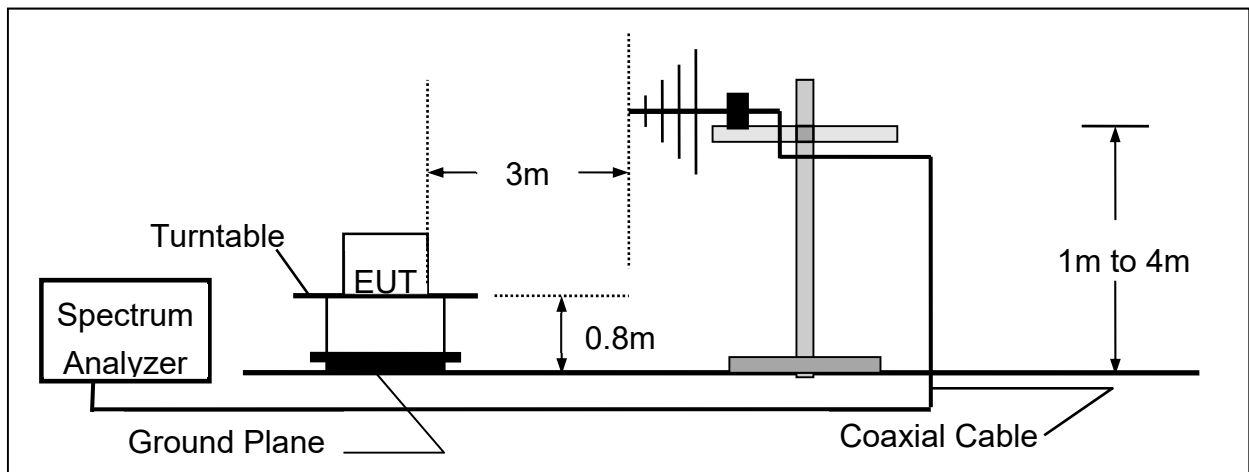
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### 11.3 Test SET-UP

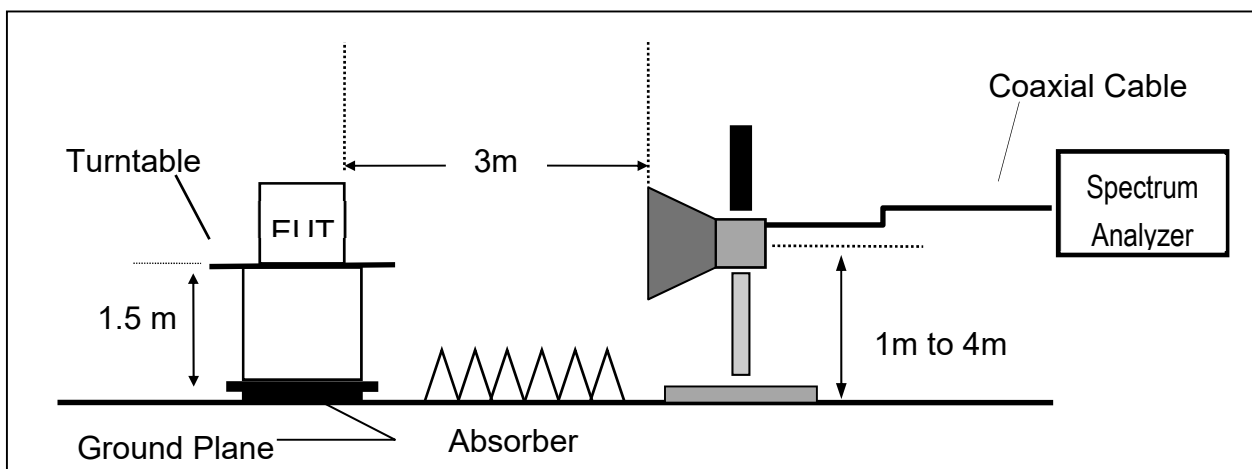
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz



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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. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW  $\geq$  1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. 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.
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.
12. Repeat above procedures until all default test channel measured were complete.

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### 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)*

### 11.6 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & 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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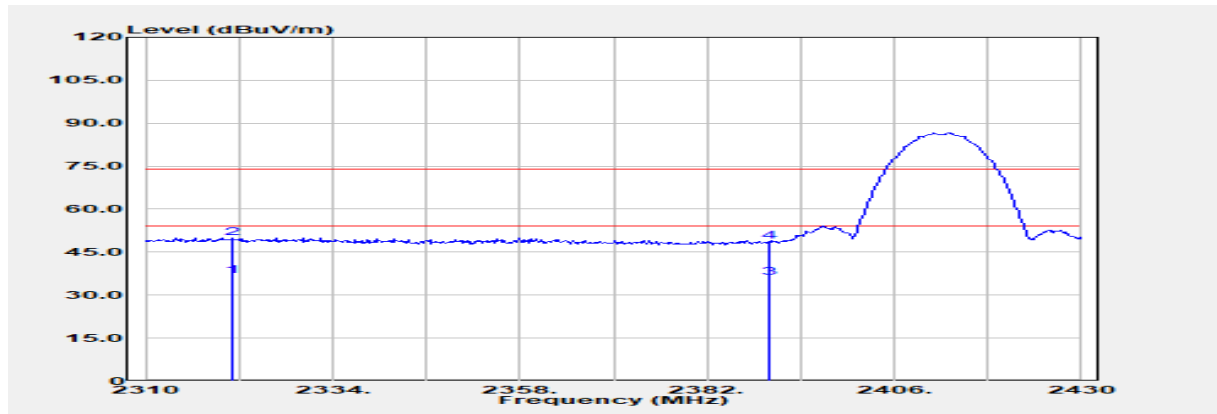
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**11.7.1 Radiated Band Edge Measurement Result**

Report Number	:E2/2020/60002-01	Test Site	:SAC C
Operation Mode	:802.11b	Test Date	:2021-08-26
Test Frequency	:2412 MHz	Temp./Humi.	:22.4/56
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2321.154	Average	30.88	5.81	36.69	54.00	-17.31
2321.154	Peak	44.25	5.81	50.06	74.00	-23.94
2390.000	Average	31.01	5.18	36.19	54.00	-17.81
2390.000	Peak	43.56	5.18	48.74	74.00	-25.26

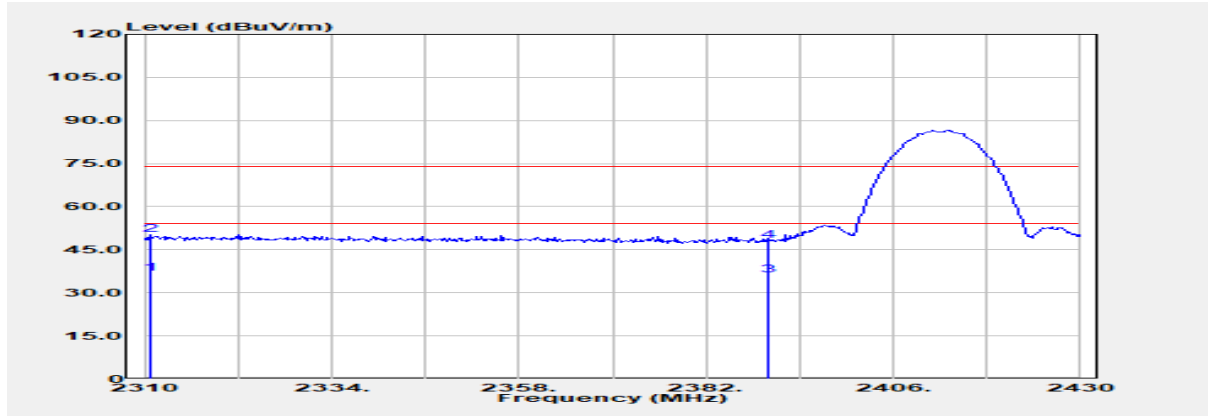
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.4/56  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



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
2310.769	Average	30.92	5.75	36.67	54.00	-17.33
2310.769	Peak	44.36	5.75	50.11	74.00	-23.89
2390.000	Average	30.93	5.18	36.11	54.00	-17.89
2390.000	Peak	42.82	5.18	48.00	74.00	-26.00

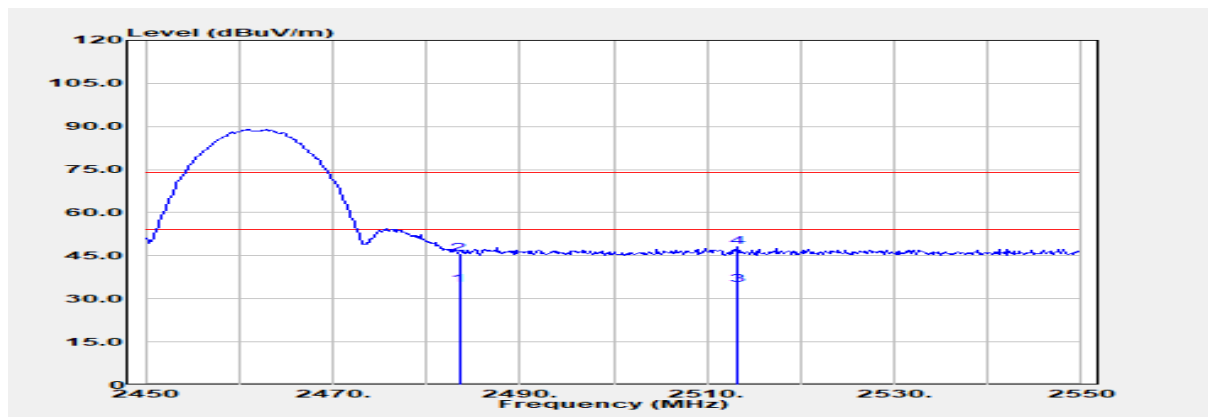
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.4/56  
 Antenna Pol. :Vertical  
 Engineer :Enzo Chang



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
2483.500	Average	30.98	4.04	35.02	54.00	-18.98
2483.500	Peak	41.69	4.04	45.72	74.00	-28.28
2513.141	Average	31.21	3.82	35.03	54.00	-18.97
2513.141	Peak	44.43	3.82	48.25	74.00	-25.75

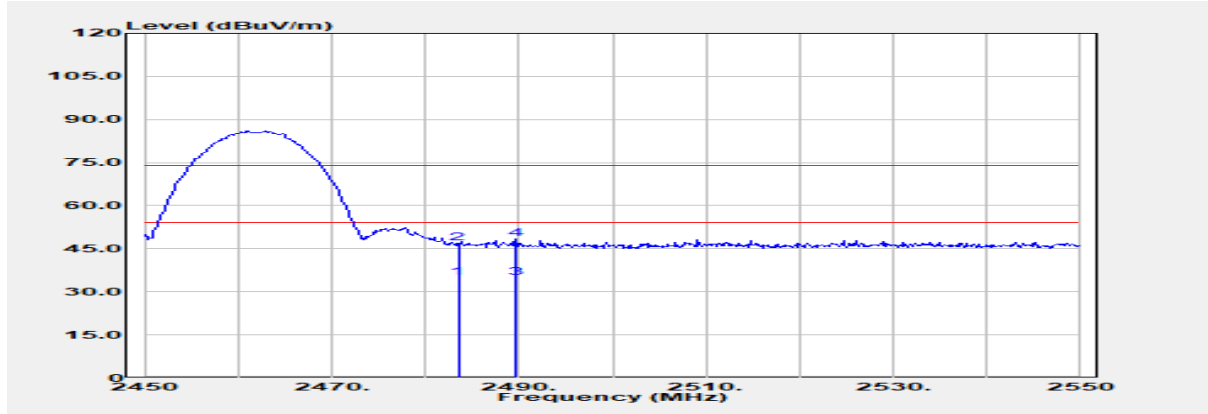
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.4/56  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



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
2483.500	Average	30.91	4.04	34.95	54.00	-19.05
2483.500	Peak	42.77	4.04	46.81	74.00	-27.19
2489.744	Average	30.89	3.98	34.87	54.00	-19.13
2489.744	Peak	44.57	3.98	48.55	74.00	-25.45

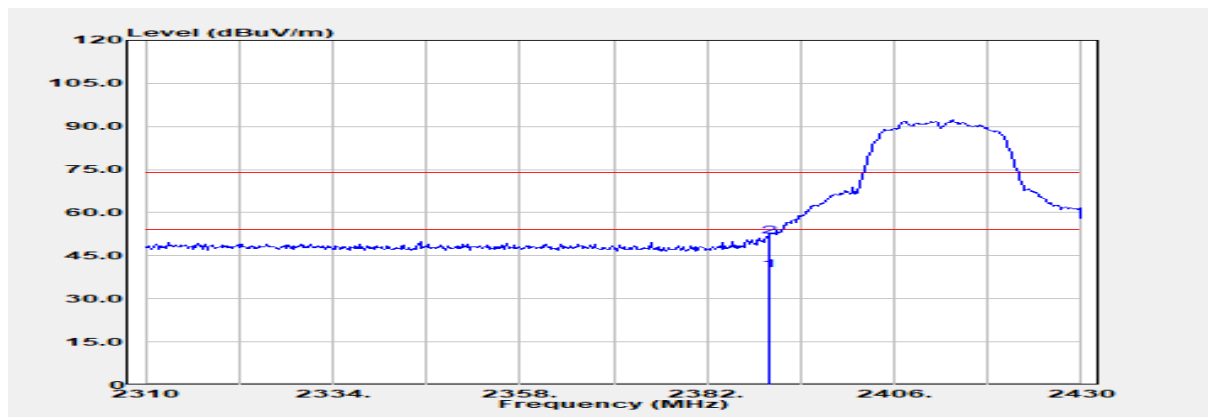
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.3/55  
 Antenna Pol. :Vertical  
 Engineer :Enzo Chang



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
2390.000	Average	34.83	5.18	40.01	54.00	-13.99
2390.000	Peak	46.60	5.18	51.78	74.00	-22.22

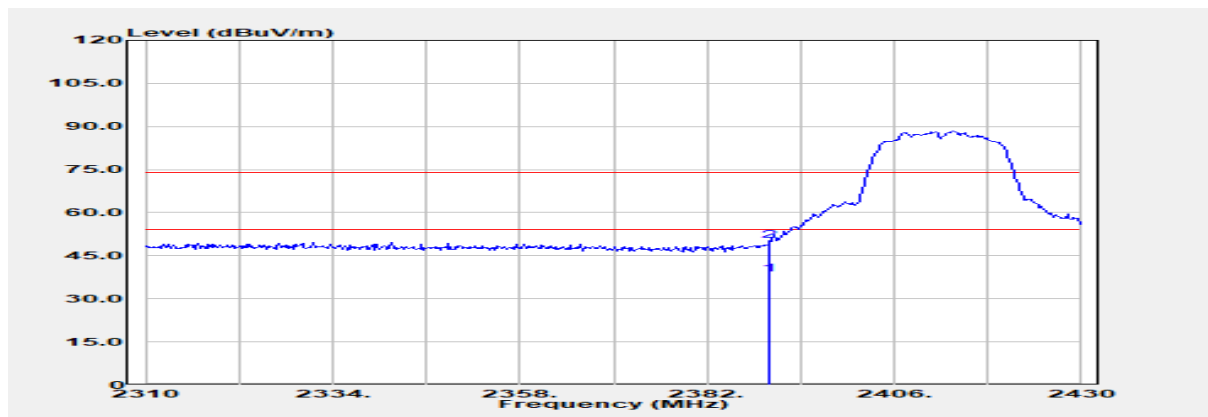
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.3/55  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



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
2390.000	Average	33.23	5.18	38.41	54.00	-15.59
2390.000	Peak	45.19	5.18	50.37	74.00	-23.63

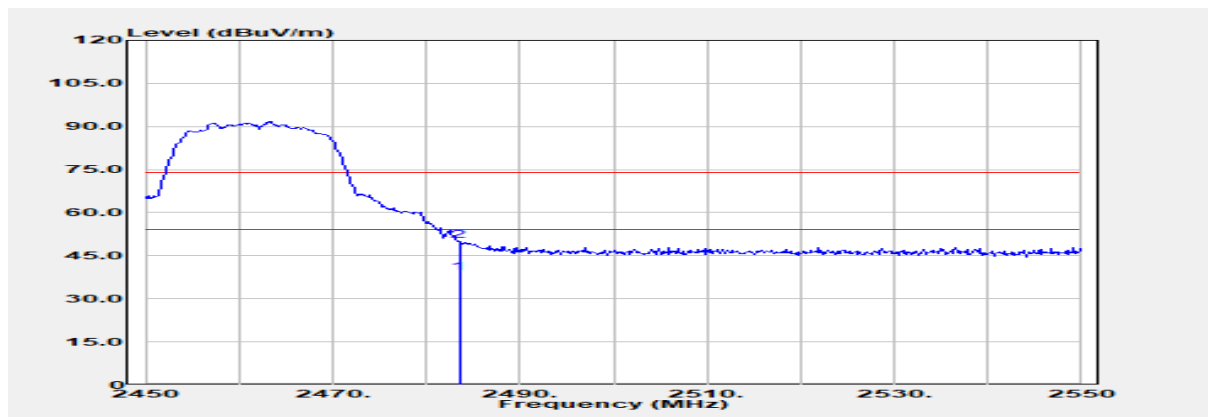
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.3/55  
 Antenna Pol. :Vertical  
 Engineer :Enzo Chang



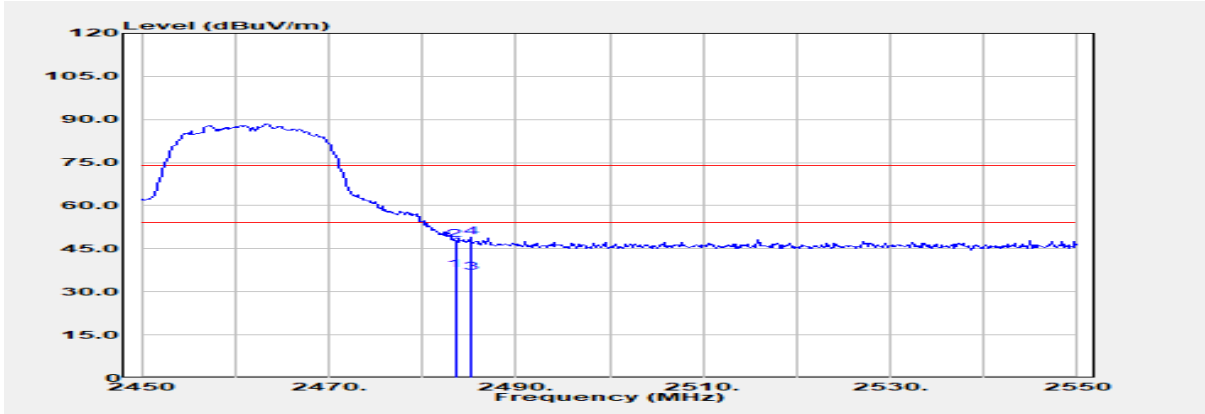
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	35.02	4.04	39.06	54.00	-14.94
2483.500	Peak	46.16	4.04	50.20	74.00	-23.80

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Report Number	:E2/2020/60002-01	Test Site	:SAC C
Operation Mode	:802.11g	Test Date	:2021-08-26
Test Frequency	:2462 MHz	Temp./Humi.	:22.3/55
Test Mode	:BE CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	33.56	4.04	37.60	54.00	-16.40
2483.500	Peak	44.08	4.04	48.11	74.00	-25.89
2485.096	Average	32.76	4.02	36.78	54.00	-17.22
2485.096	Peak	45.01	4.02	49.03	74.00	-24.97

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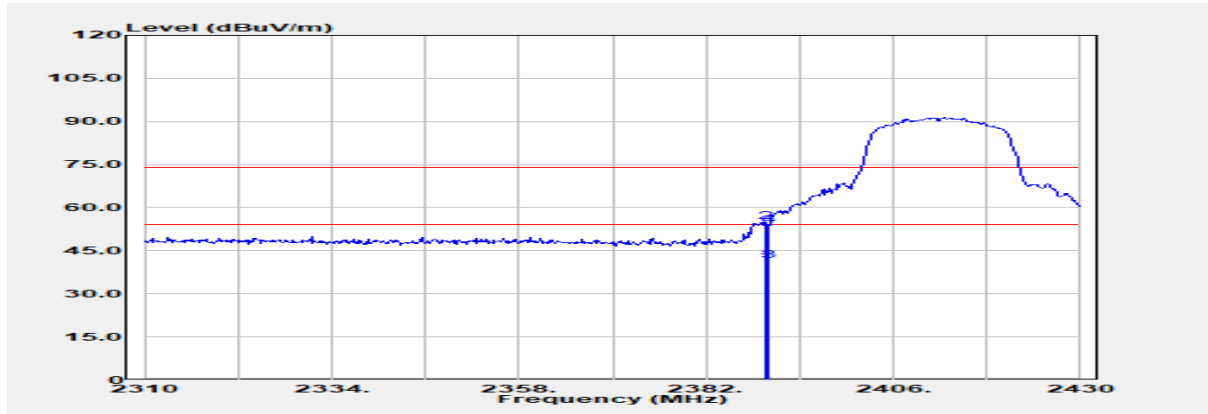
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Report Number :E2/2020/60002-01  
Operation Mode :802.11n20  
Test Frequency :2412 MHz  
Test Mode :BE CH LOW  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2021-08-26  
Temp./Humi. :22.2/54  
Antenna Pol. :Vertical  
Engineer :Enzo Chang



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
2389.615	Average	35.61	5.16	40.77	54.00	-13.23
2389.615	Peak	49.96	5.16	55.13	74.00	-18.87
2390.000	Average	36.31	5.18	41.49	54.00	-12.51
2390.000	Peak	48.71	5.18	53.89	74.00	-20.11

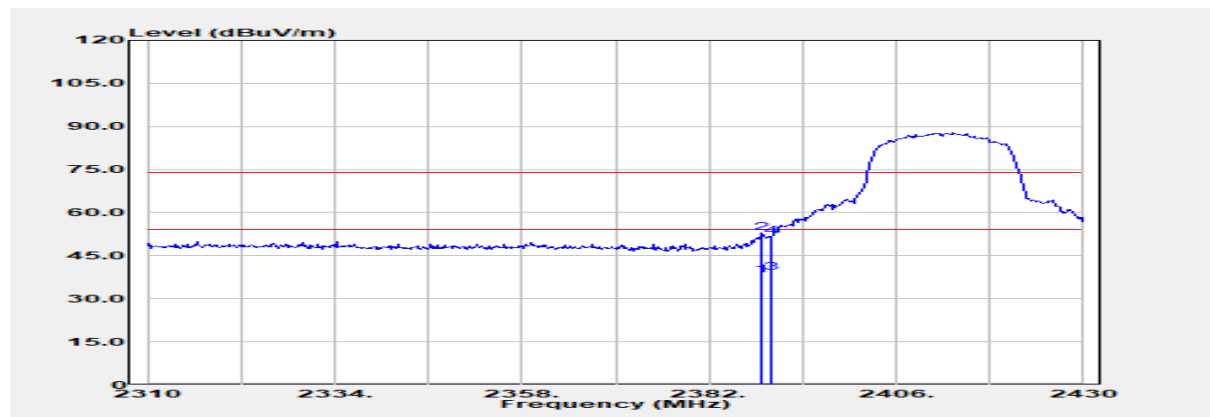
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.2/54  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



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
2388.846	Average	33.08	5.13	38.21	54.00	-15.79
2388.846	Peak	47.69	5.13	52.82	74.00	-21.18
2390.000	Average	34.02	5.18	39.20	54.00	-14.80
2390.000	Peak	46.48	5.18	51.66	74.00	-22.34

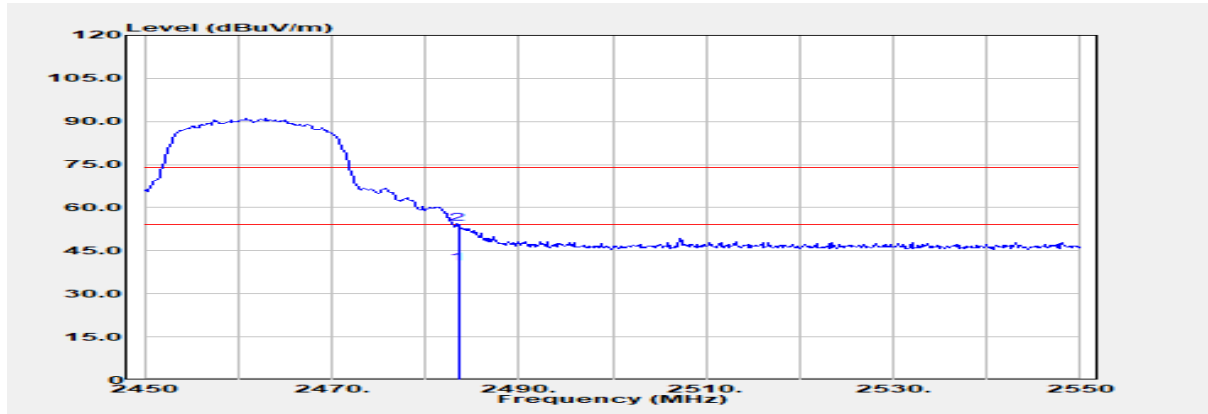
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Report Number :E2/2020/60002-01  
Operation Mode :802.11n20  
Test Frequency :2462 MHz  
Test Mode :BE CH HIGH  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2021-08-26  
Temp./Humi. :22.2/54  
Antenna Pol. :Vertical  
Engineer :Enzo Chang



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
2483.500	Average	36.55	4.04	40.59	54.00	-13.41
2483.500	Peak	50.49	4.04	54.53	74.00	-19.47

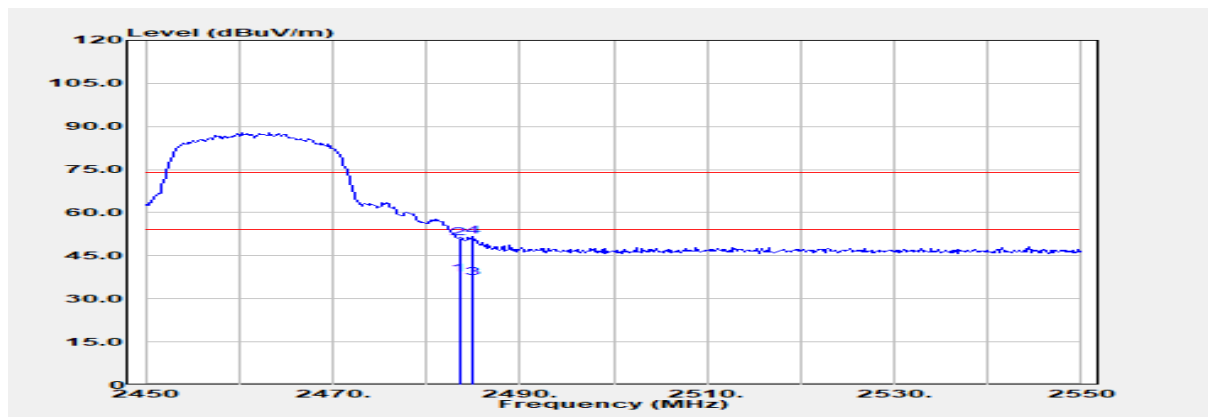
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.2/54  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



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
2483.500	Average	34.55	4.04	38.59	54.00	-15.41
2483.500	Peak	47.23	4.04	51.27	74.00	-22.73
2484.936	Average	33.41	4.02	37.43	54.00	-16.57
2484.936	Peak	47.76	4.02	51.78	74.00	-22.22

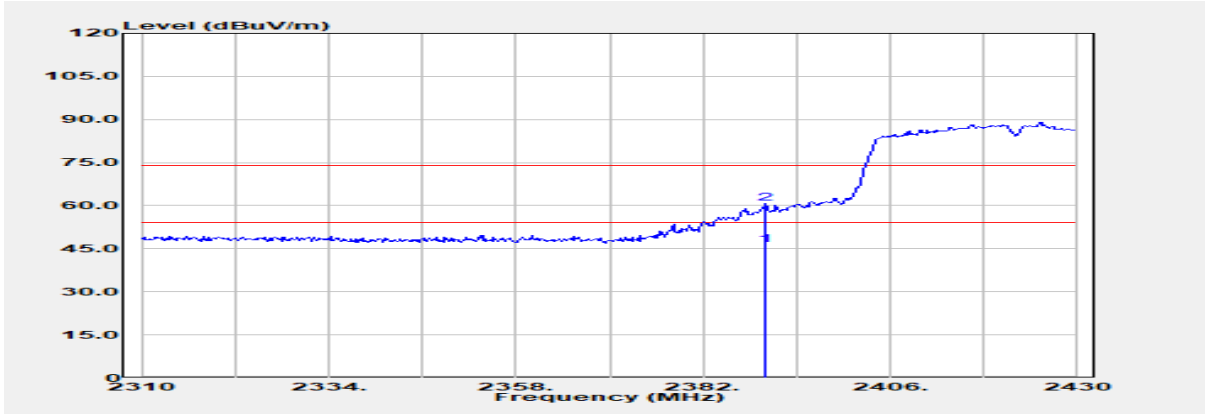
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11n40  
 Test Frequency :2422 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.1/53  
 Antenna Pol. :Vertical  
 Engineer :Enzo Chang



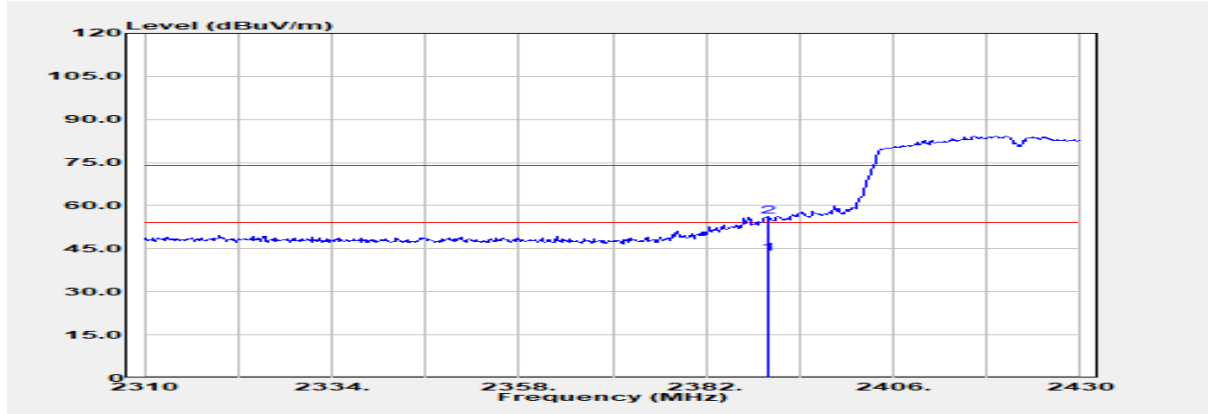
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.000	Average	41.17	5.18	46.35	54.00	-7.65
2390.000	Peak	55.56	5.18	60.74	74.00	-13.26

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Report Number	:E2/2020/60002-01	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2021-08-26
Test Frequency	:2422 MHz	Temp./Humi.	:22.1/53
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:Enzo Chang



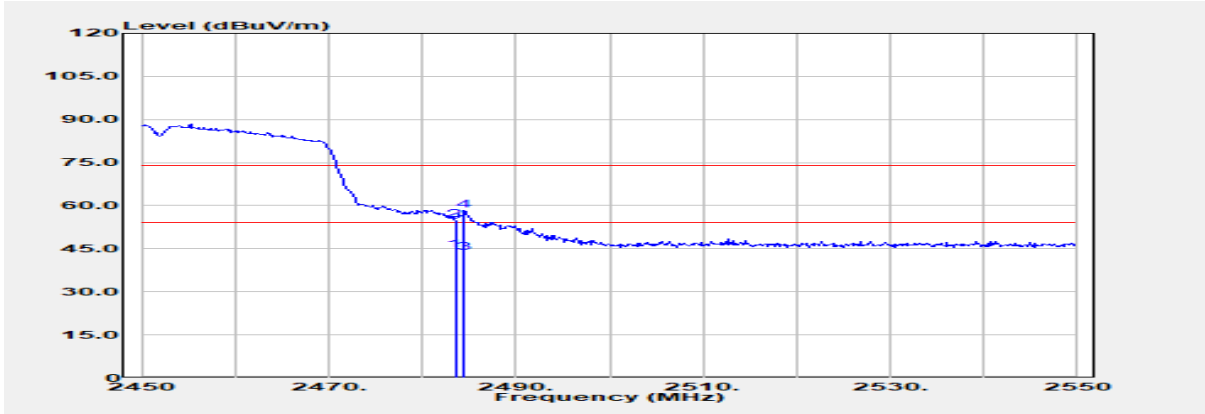
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.000	Average	38.22	5.18	43.40	54.00	-10.60
2390.000	Peak	51.11	5.18	56.29	74.00	-17.71

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Report Number	:E2/2020/60002-01	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2021-08-26
Test Frequency	:2452 MHz	Temp./Humi.	:22.1/53
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Enzo Chang



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
2483.500	Average	40.35	4.04	44.39	54.00	-9.61
2483.500	Peak	50.86	4.04	54.89	74.00	-19.11
2484.455	Average	39.61	4.03	43.64	54.00	-10.36
2484.455	Peak	54.45	4.03	58.47	74.00	-15.53

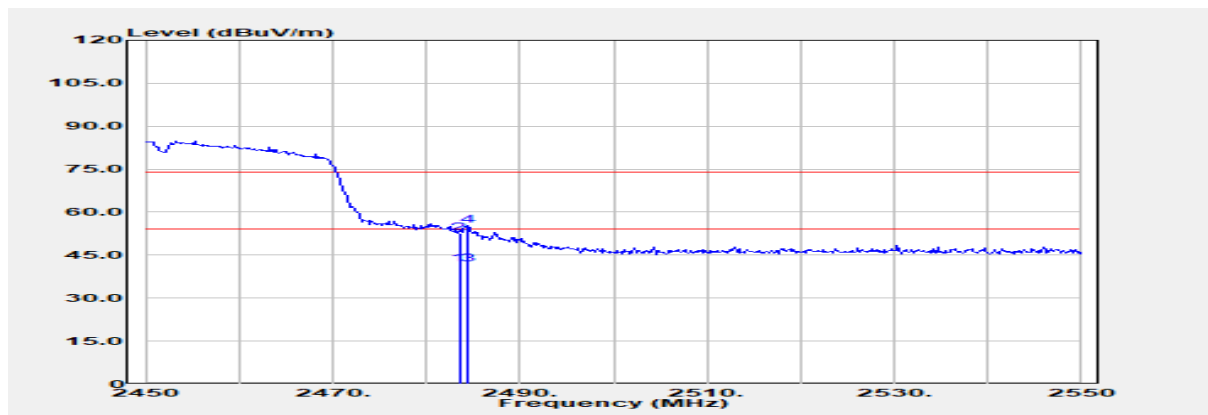
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11n40  
 Test Frequency :2452 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.1/53  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



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
2483.500	Average	37.84	4.04	41.88	54.00	-12.12
2483.500	Peak	48.50	4.04	52.53	74.00	-21.47
2484.295	Average	37.71	4.03	41.74	54.00	-12.26
2484.295	Peak	51.27	4.03	55.29	74.00	-18.71

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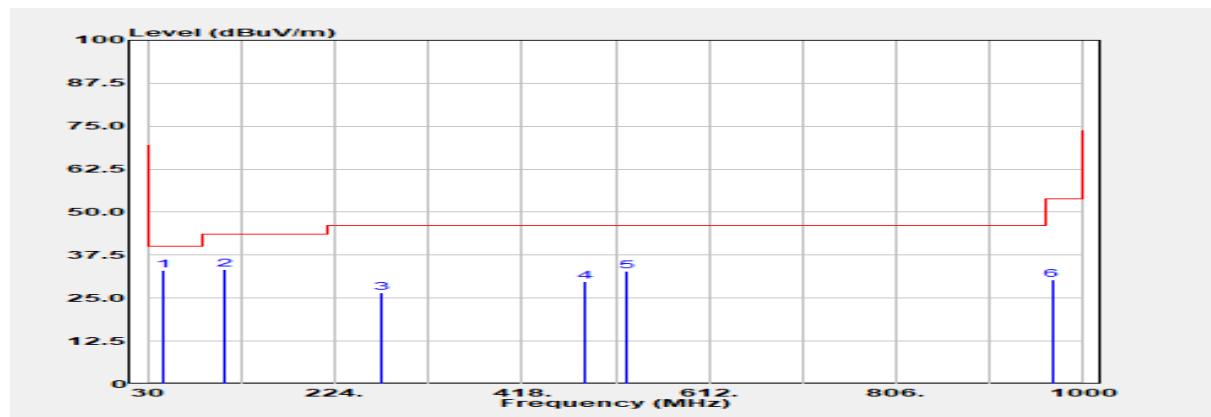
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### 11.7.2 Spurious Emission:

Report Number	:E2/2020/60002-01	Test Site	:SAC C
Operation Mode	:802.11g	Test Date	:2021-08-26
Test Frequency	:2437 MHz	Temp./Humi.	:22.5/57
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E1 Plane	Engineer	:Enzo Chang



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
45.545	Peak	49.32	-16.14	33.18	40.00	-6.82
109.279	Peak	51.39	-18.13	33.25	43.50	-10.25
272.500	Peak	42.47	-15.83	26.64	46.00	-19.36
482.356	Peak	40.31	-10.50	29.81	46.00	-16.19
527.436	Peak	43.04	-10.16	32.88	46.00	-13.12
967.356	Peak	36.18	-5.77	30.41	54.00	-23.59

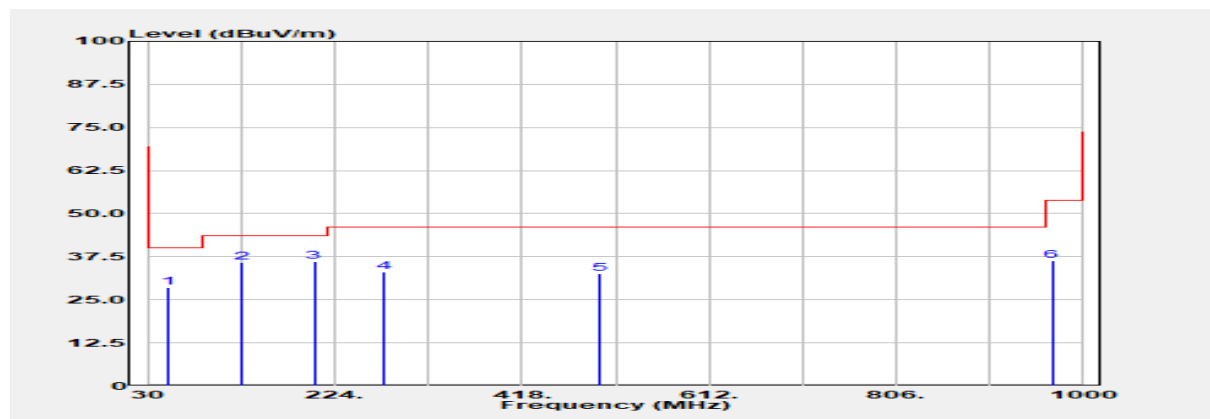
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.5/57  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo Chang



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
51.763	Peak	49.80	-21.20	28.60	40.00	-11.40
126.378	Peak	52.53	-16.78	35.75	43.50	-7.75
202.548	Peak	55.46	-19.44	36.02	43.50	-7.48
274.055	Peak	48.79	-15.76	33.03	46.00	-12.97
497.901	Peak	43.08	-10.59	32.49	46.00	-13.51
967.356	Peak	42.14	-5.77	36.38	54.00	-17.62

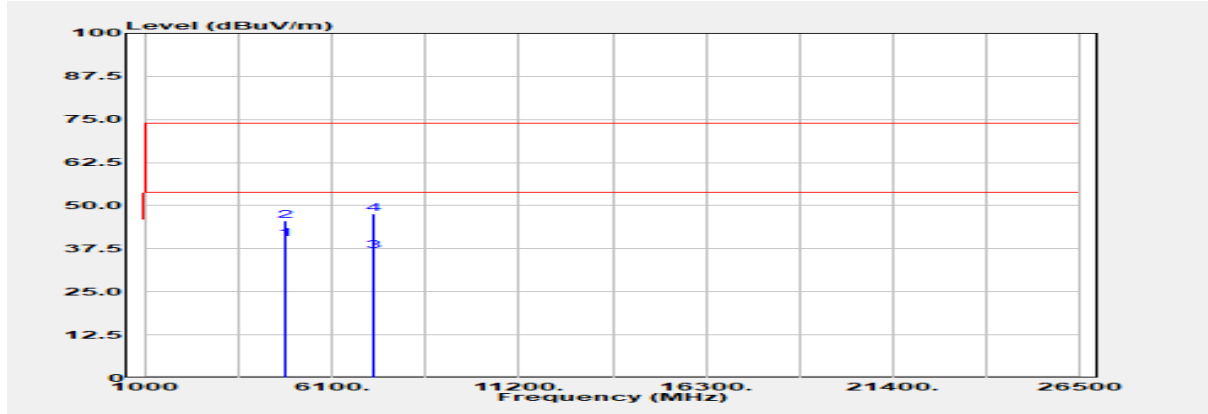
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Report Number :E2/2020/60002-01  
Operation Mode :802.11b  
Test Frequency :2412 MHz  
Test Mode :TX CH LOW  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2021-08-26  
Temp./Humi. :22.6/60  
Antenna Pol. :Vertical  
Engineer :Enzo Chang



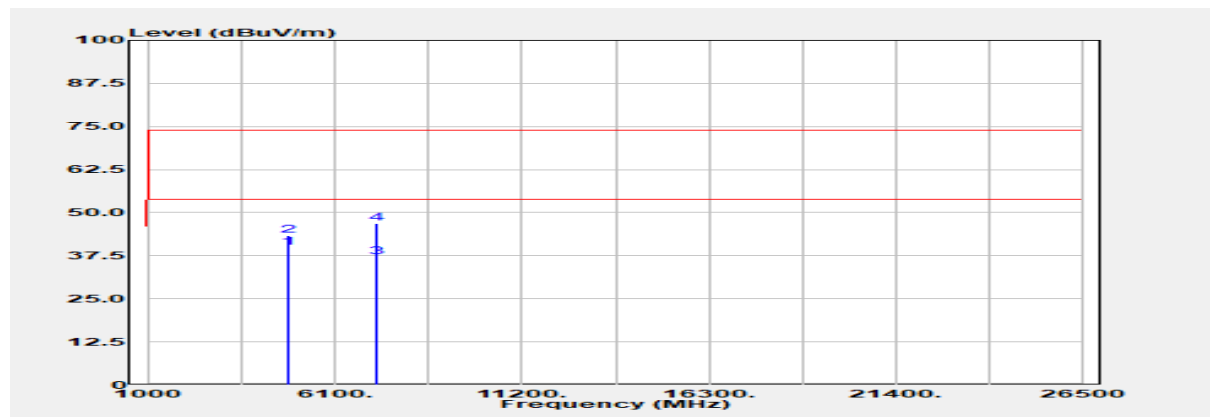
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.000	Average	29.81	10.61	40.42	54.00	-13.58
4824.000	Peak	34.93	10.61	45.53	74.00	-28.47
7236.000	Average	19.25	17.62	36.87	54.00	-17.13
7236.000	Peak	29.92	17.62	47.55	74.00	-26.45

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Report Number	:E2/2020/60002-01	Test Site	:SAC C
Operation Mode	:802.11b	Test Date	:2021-08-26
Test Frequency	:2412 MHz	Temp./Humi.	:22.6/60
Test Mode	:TX CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:Enzo Chang



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
4824.000	Average	29.14	10.61	39.75	54.00	-14.25
4824.000	Peak	32.82	10.61	43.42	74.00	-30.58
7236.000	Average	19.37	17.62	36.99	54.00	-17.01
7236.000	Peak	29.34	17.62	46.96	74.00	-27.04

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Report Number :E2/2020/60002-01

Test Site :SAC C

Operation Mode :802.11b

Test Date :2021-08-26

Test Frequency :2437 MHz

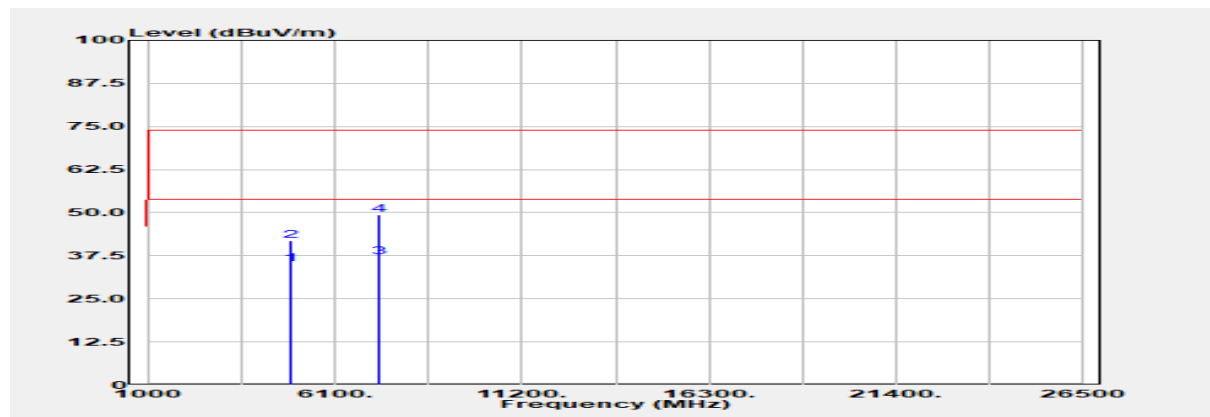
Temp./Humi. :22.6/60

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.000	Average	24.81	10.38	35.19	54.00	-18.81
4874.000	Peak	31.48	10.38	41.86	74.00	-32.14
7311.000	Average	19.21	17.97	37.18	54.00	-16.82
7311.000	Peak	31.37	17.97	49.34	74.00	-24.66

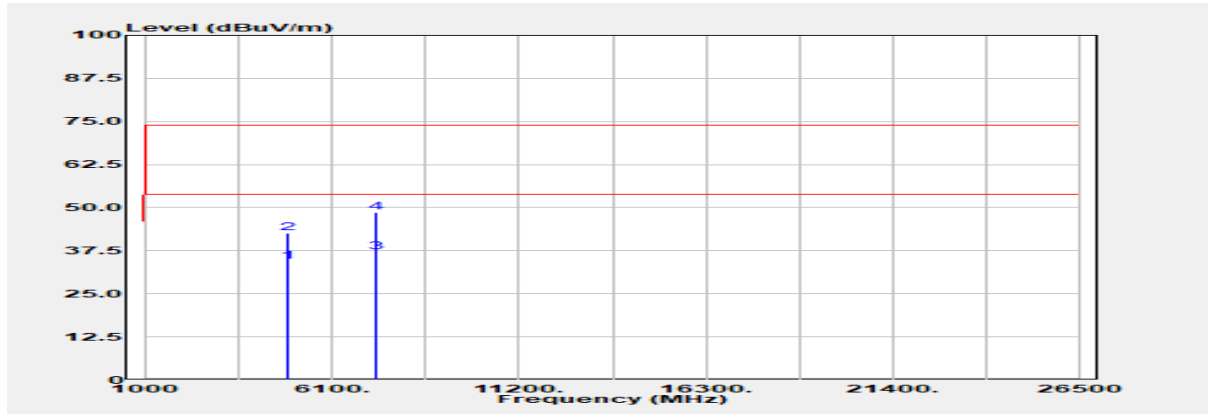
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Report Number :E2/2020/60002-01  
Operation Mode :802.11b  
Test Frequency :2437 MHz  
Test Mode :TX CH MID  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2021-08-26  
Temp./Humi. :22.6/60  
Antenna Pol. :Horizontal  
Engineer :Enzo Chang



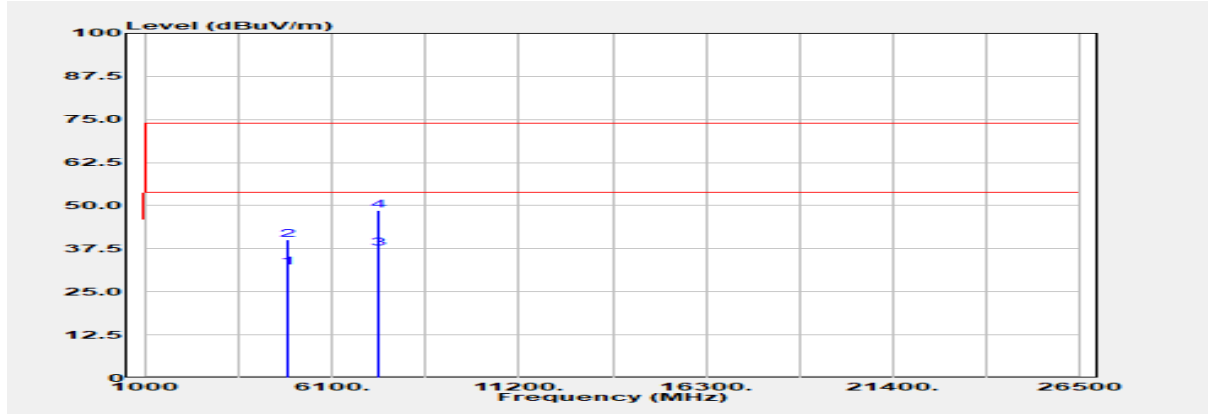
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.000	Average	24.07	10.38	34.45	54.00	-19.55
4874.000	Peak	32.17	10.38	42.54	74.00	-31.46
7311.000	Average	19.13	17.97	37.10	54.00	-16.90
7311.000	Peak	30.60	17.97	48.57	74.00	-25.43

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Report Number	:E2/2020/60002-01	Test Site	:SAC C
Operation Mode	:802.11b	Test Date	:2021-08-26
Test Frequency	:2462 MHz	Temp./Humi.	:22.6/60
Test Mode	:TX CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Enzo Chang



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
4924.000	Average	21.91	10.12	32.03	54.00	-21.97
4924.000	Peak	29.96	10.12	40.08	74.00	-33.92
7386.000	Average	19.29	18.22	37.51	54.00	-16.49
7386.000	Peak	30.28	18.22	48.50	74.00	-25.50

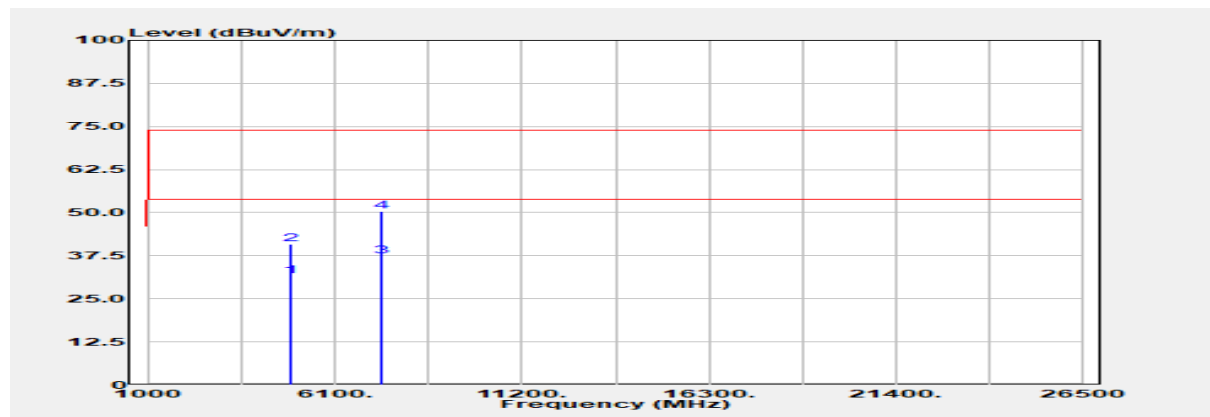
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.6/60  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



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
4924.000	Average	21.41	10.12	31.53	54.00	-22.47
4924.000	Peak	30.77	10.12	40.89	74.00	-33.11
7386.000	Average	19.15	18.22	37.37	54.00	-16.63
7386.000	Peak	32.20	18.22	50.42	74.00	-23.58

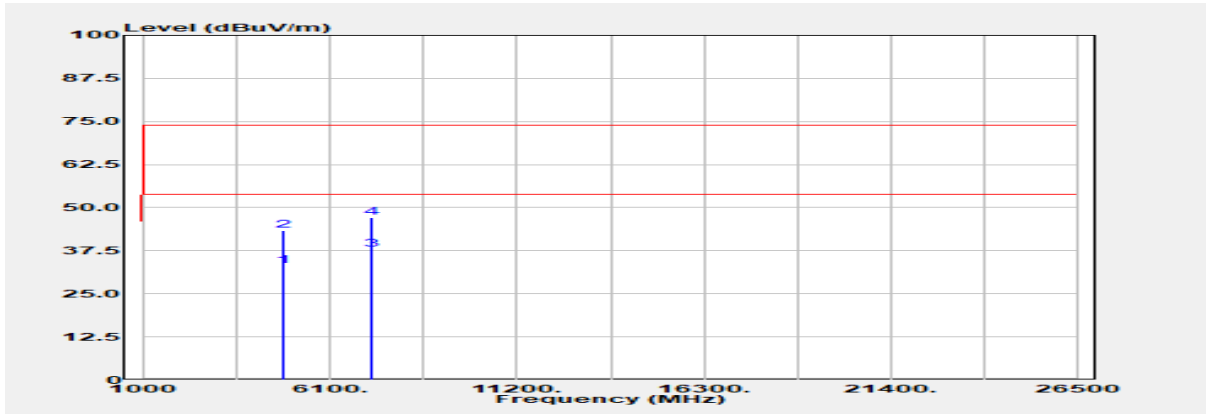
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Report Number	:E2/2020/60002-01	Test Site	:SAC C
Operation Mode	:802.11g	Test Date	:2021-08-26
Test Frequency	:2412 MHz	Temp./Humi.	:22.7/61
Test Mode	:TX CH LOW	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Enzo Chang



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
4824.000	Average	22.38	10.61	32.99	54.00	-21.01
4824.000	Peak	32.71	10.61	43.32	74.00	-30.68
7236.000	Average	20.11	17.62	37.73	54.00	-16.27
7236.000	Peak	29.51	17.62	47.13	74.00	-26.87

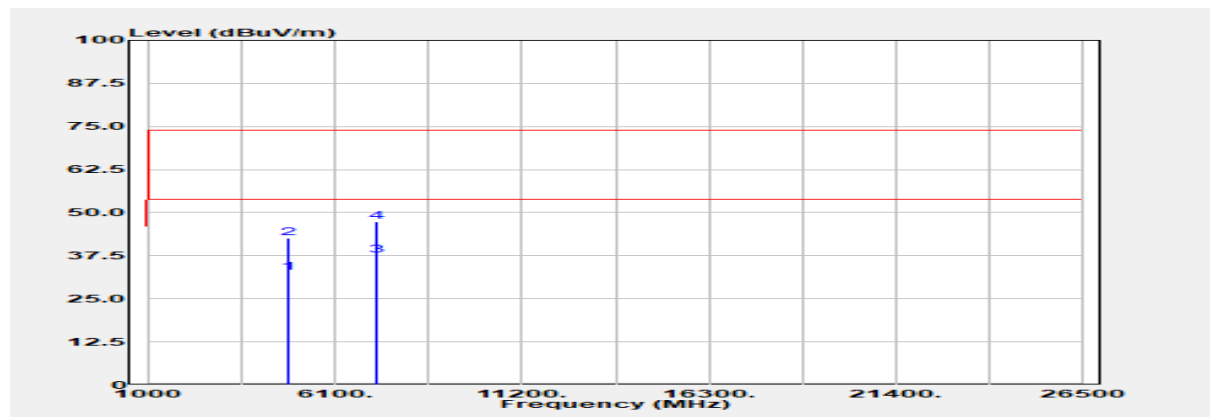
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.7/61  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



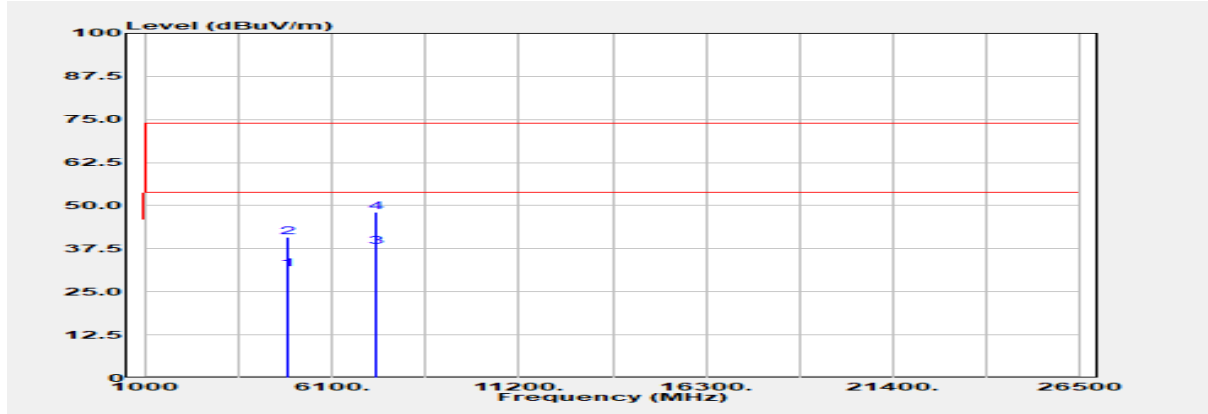
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4824.000	Average	22.08	10.61	32.69	54.00	-21.31
4824.000	Peak	31.89	10.61	42.50	74.00	-31.50
7236.000	Average	20.04	17.62	37.66	54.00	-16.34
7236.000	Peak	29.65	17.62	47.27	74.00	-26.73

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Report Number	:E2/2020/60002-01	Test Site	:SAC C
Operation Mode	:802.11g	Test Date	:2021-08-26
Test Frequency	:2437 MHz	Temp./Humi.	:22.7/61
Test Mode	:TX CH MID	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Enzo Chang



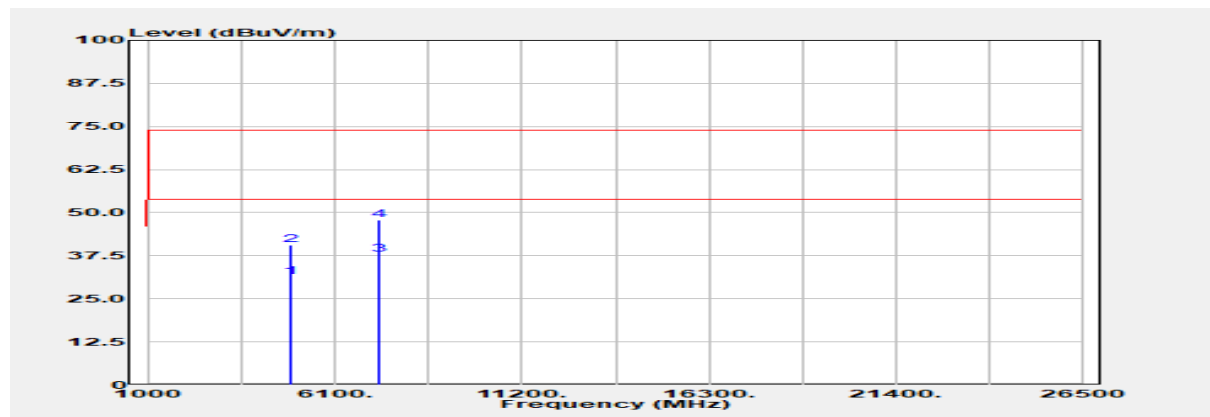
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.000	Average	21.13	10.38	31.51	54.00	-22.49
4874.000	Peak	30.43	10.38	40.80	74.00	-33.20
7311.000	Average	20.08	17.97	38.05	54.00	-15.95
7311.000	Peak	30.14	17.97	48.11	74.00	-25.89

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Report Number	:E2/2020/60002-01	Test Site	:SAC C
Operation Mode	:802.11g	Test Date	:2021-08-26
Test Frequency	:2437 MHz	Temp./Humi.	:22.7/61
Test Mode	:TX CH MID	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:Enzo Chang



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
4874.000	Average	20.91	10.38	31.29	54.00	-22.71
4874.000	Peak	30.23	10.38	40.61	74.00	-33.39
7311.000	Average	19.95	17.97	37.92	54.00	-16.08
7311.000	Peak	29.79	17.97	47.77	74.00	-26.23

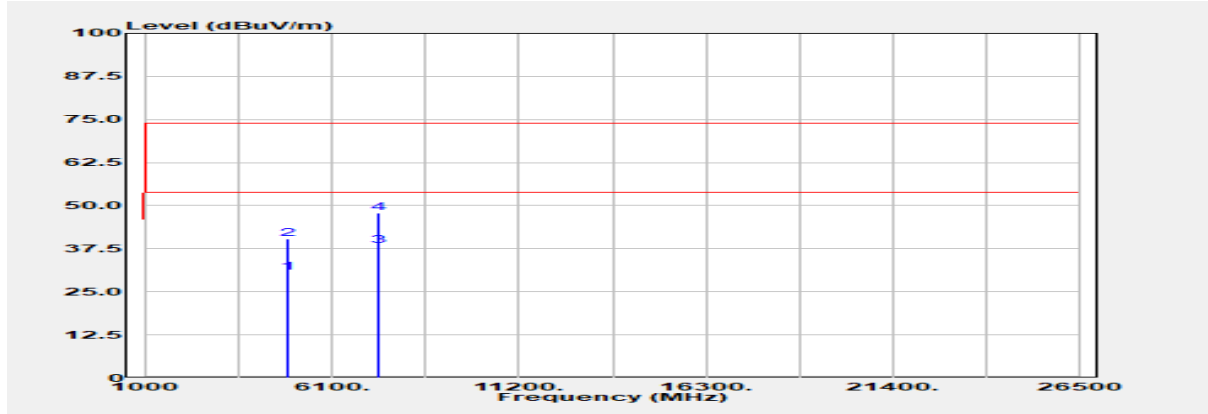
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Report Number :E2/2020/60002-01  
Operation Mode :802.11g  
Test Frequency :2462 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2021-08-26  
Temp./Humi. :22.7/61  
Antenna Pol. :Vertical  
Engineer :Enzo Chang



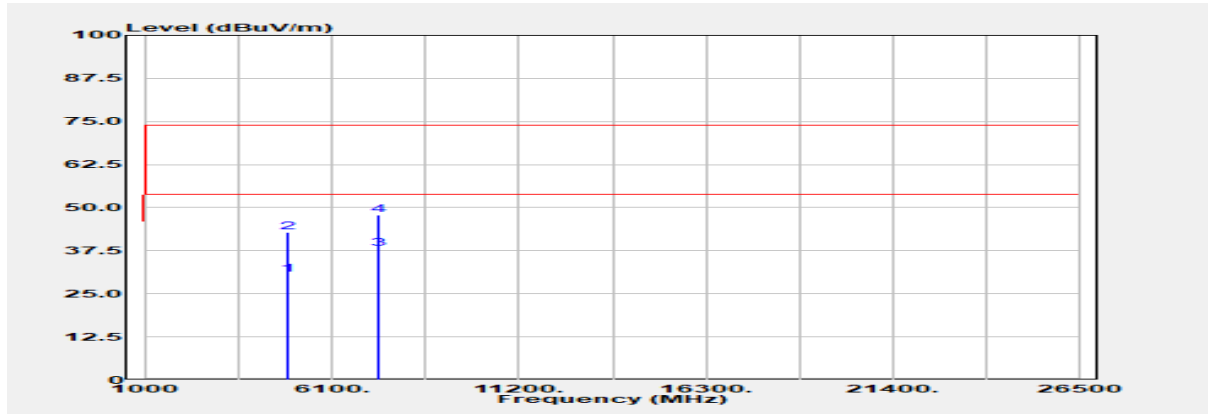
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4924.000	Average	20.54	10.12	30.66	54.00	-23.34
4924.000	Peak	30.11	10.12	40.23	74.00	-33.77
7386.000	Average	20.02	18.22	38.24	54.00	-15.76
7386.000	Peak	29.74	18.22	47.96	74.00	-26.04

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Report Number	:E2/2020/60002-01	Test Site	:SAC C
Operation Mode	:802.11g	Test Date	:2021-08-26
Test Frequency	:2462 MHz	Temp./Humi.	:22.7/61
Test Mode	:TX CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:E1 Plane	Engineer	:Enzo Chang



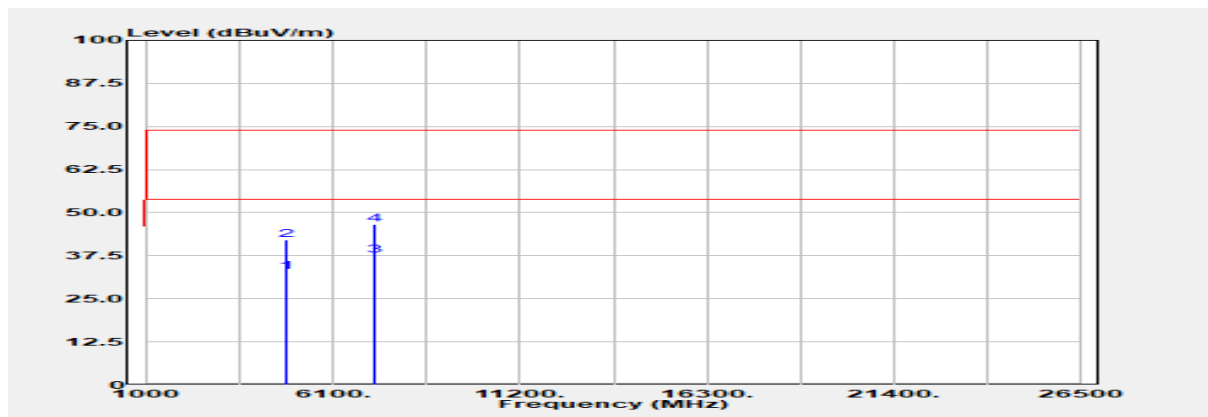
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4924.000	Average	20.47	10.12	30.59	54.00	-23.41
4924.000	Peak	32.74	10.12	42.86	74.00	-31.14
7386.000	Average	19.82	18.22	38.04	54.00	-15.96
7386.000	Peak	29.53	18.22	47.75	74.00	-26.25

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Report Number	:E2/2020/60002-01	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2021-08-26
Test Frequency	:2412 MHz	Temp./Humi.	:22.8/62
Test Mode	:TX CH LOW	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Enzo Chang



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
4824.000	Average	22.13	10.61	32.74	54.00	-21.26
4824.000	Peak	31.62	10.61	42.23	74.00	-31.77
7236.000	Average	20.05	17.62	37.67	54.00	-16.33
7236.000	Peak	29.04	17.62	46.66	74.00	-27.34

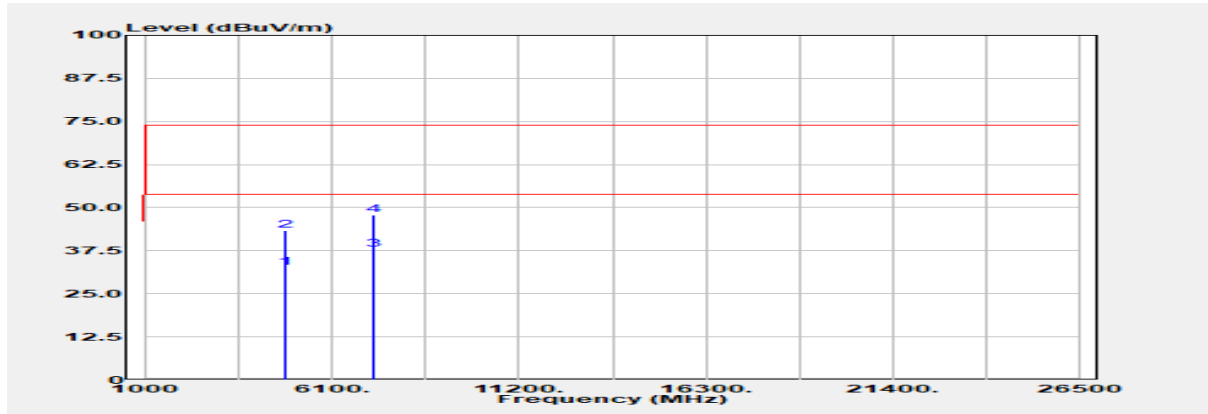
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.8/62  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



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
4824.000	Average	21.99	10.61	32.60	54.00	-21.40
4824.000	Peak	32.77	10.61	43.38	74.00	-30.62
7236.000	Average	20.11	17.62	37.73	54.00	-16.27
7236.000	Peak	30.32	17.62	47.94	74.00	-26.06

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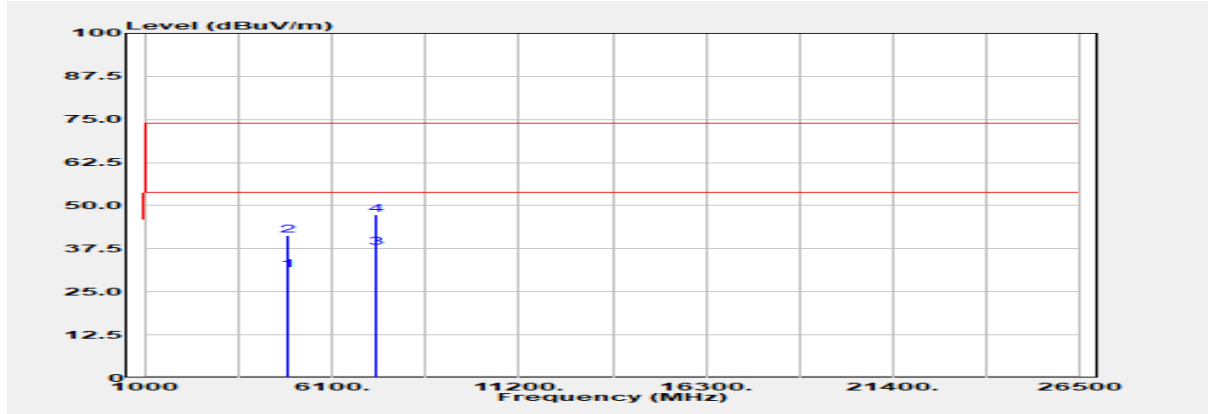
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11n20  
 Test Frequency :2437 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.8/62  
 Antenna Pol. :Vertical  
 Engineer :Enzo Chang



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
4874.000	Average	20.99	10.38	31.37	54.00	-22.63
4874.000	Peak	30.89	10.38	41.26	74.00	-32.74
7311.000	Average	19.92	17.97	37.89	54.00	-16.11
7311.000	Peak	29.47	17.97	47.44	74.00	-26.56

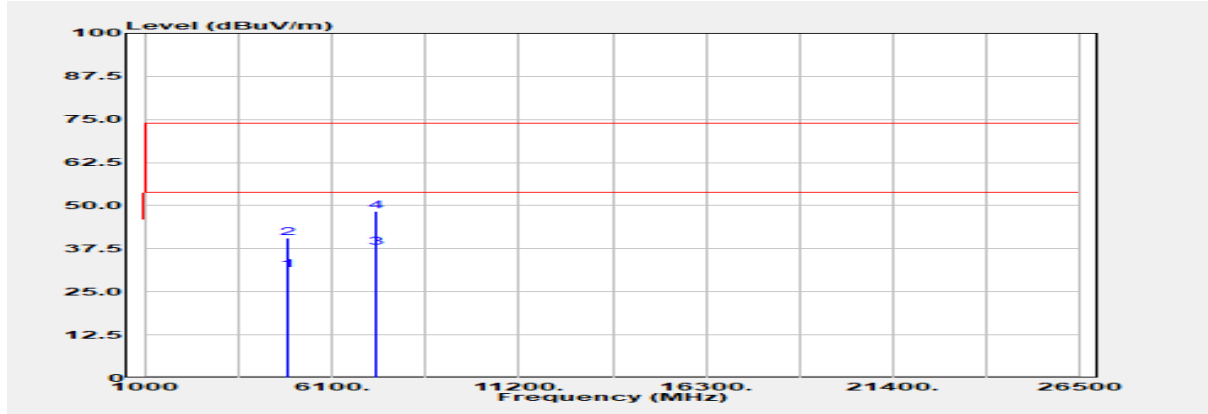
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Report Number :E2/2020/60002-01  
Operation Mode :802.11n20  
Test Frequency :2437 MHz  
Test Mode :TX CH MID  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2021-08-26  
Temp./Humi. :22.8/62  
Antenna Pol. :Horizontal  
Engineer :Enzo Chang



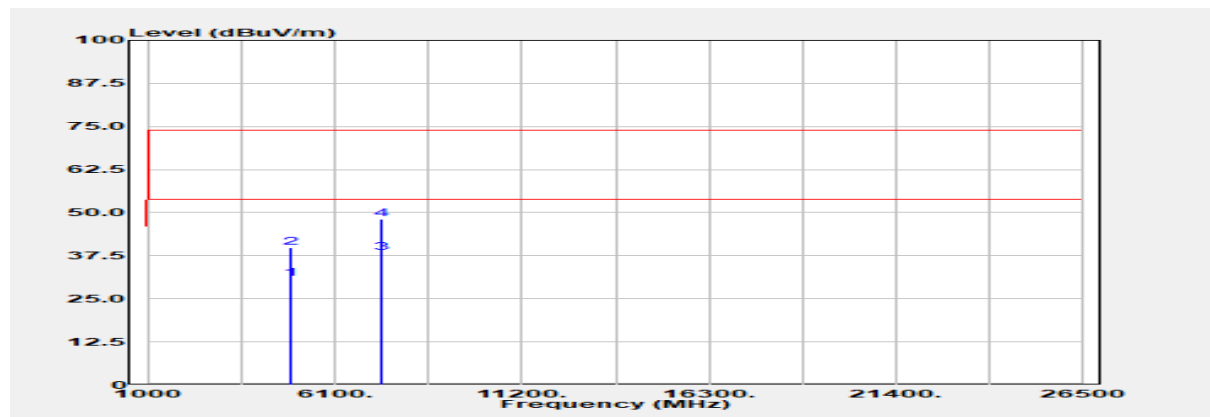
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.000	Average	20.96	10.38	31.34	54.00	-22.66
4874.000	Peak	30.23	10.38	40.61	74.00	-33.39
7311.000	Average	19.94	17.97	37.91	54.00	-16.09
7311.000	Peak	30.31	17.97	48.28	74.00	-25.72

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Report Number	:E2/2020/60002-01	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2021-08-26
Test Frequency	:2462 MHz	Temp./Humi.	:22.8/62
Test Mode	:TX CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Enzo Chang



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
4924.000	Average	20.68	10.12	30.80	54.00	-23.20
4924.000	Peak	29.81	10.12	39.93	74.00	-34.07
7386.000	Average	20.04	18.22	38.26	54.00	-15.74
7386.000	Peak	30.03	18.22	48.24	74.00	-25.76

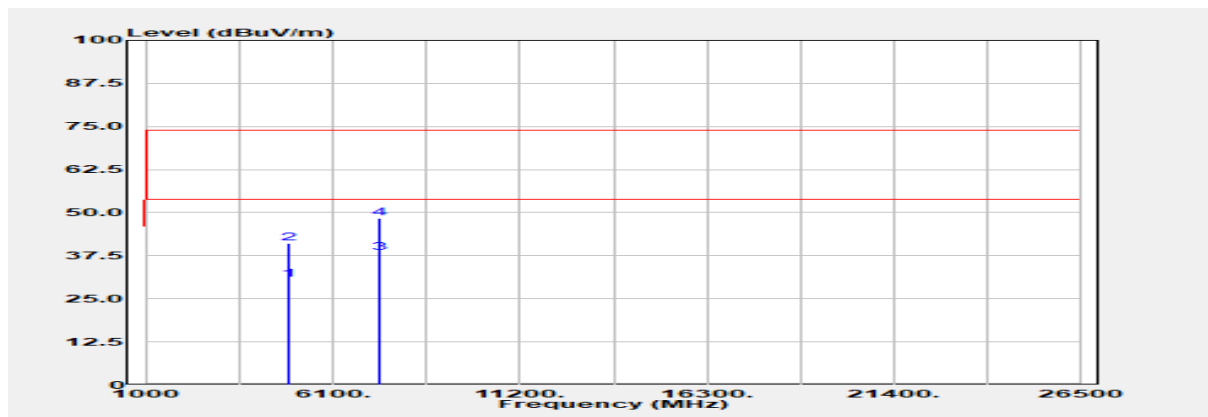
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.8/62  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4924.000	Average	20.43	10.12	30.55	54.00	-23.45
4924.000	Peak	30.88	10.12	41.00	74.00	-33.00
7386.000	Average	20.09	18.22	38.31	54.00	-15.69
7386.000	Peak	30.11	18.22	48.33	74.00	-25.67

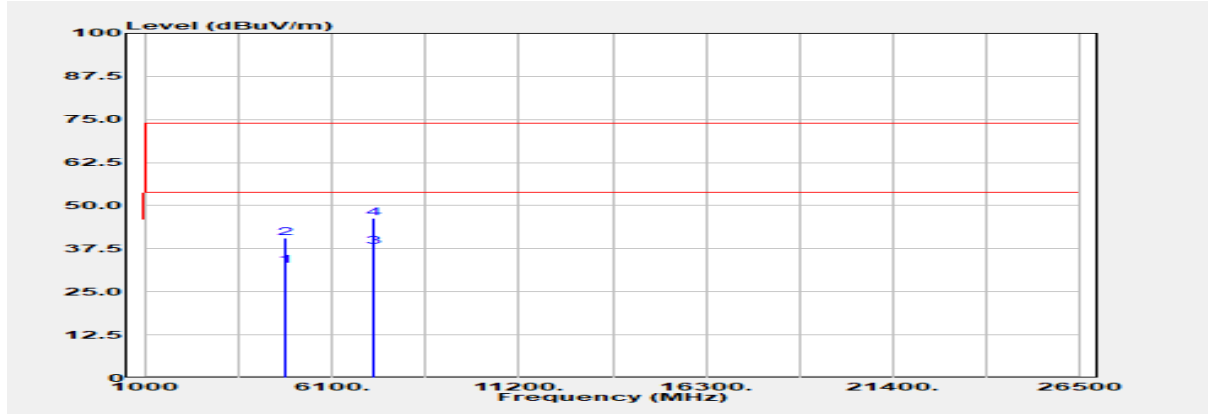
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Report Number :E2/2020/60002-01  
Operation Mode :802.11n40  
Test Frequency :2422 MHz  
Test Mode :TX CH LOW  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2021-08-26  
Temp./Humi. :22.9/63  
Antenna Pol. :Vertical  
Engineer :Enzo Chang



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
4844.000	Average	21.79	10.77	32.56	54.00	-21.44
4844.000	Peak	29.83	10.77	40.60	74.00	-33.40
7266.000	Average	20.32	17.79	38.11	54.00	-15.89
7266.000	Peak	28.68	17.79	46.47	74.00	-27.53

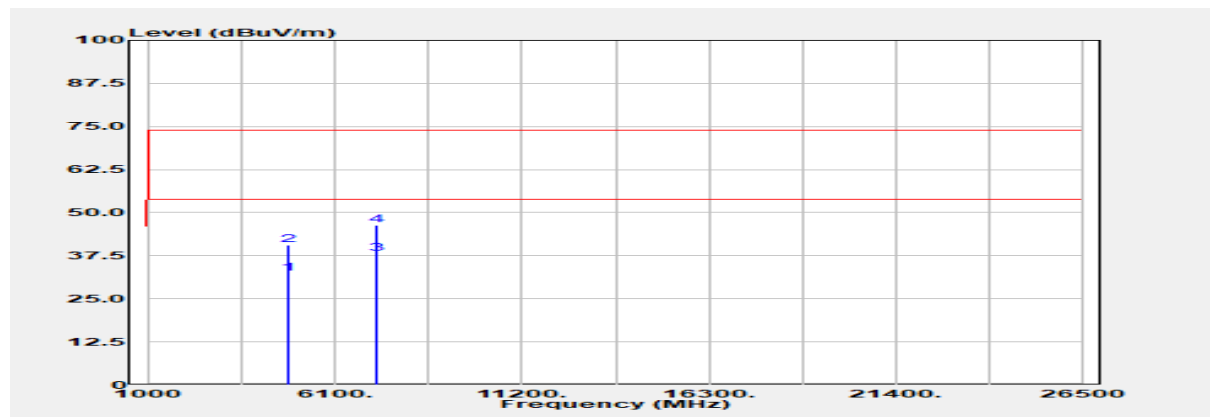
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11n40  
 Test Frequency :2422 MHz  
 Test Mode :TX CH LOW  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.9/63  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



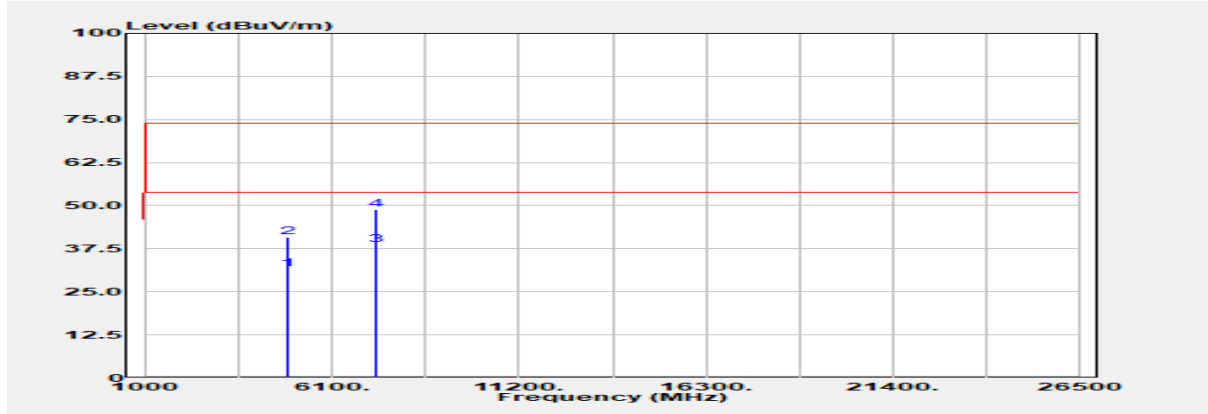
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4844.000	Average	21.61	10.77	32.38	54.00	-21.62
4844.000	Peak	29.94	10.77	40.72	74.00	-33.28
7266.000	Average	20.31	17.79	38.10	54.00	-15.90
7266.000	Peak	28.61	17.79	46.39	74.00	-27.61

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Report Number	:E2/2020/60002-01	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2021-08-26
Test Frequency	:2437 MHz	Temp./Humi.	:22.9/63
Test Mode	:TX CH MID	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.000	Average	21.22	10.38	31.60	54.00	-22.40
4874.000	Peak	30.53	10.38	40.91	74.00	-33.09
7311.000	Average	20.53	17.97	38.50	54.00	-15.50
7311.000	Peak	31.02	17.97	48.99	74.00	-25.01

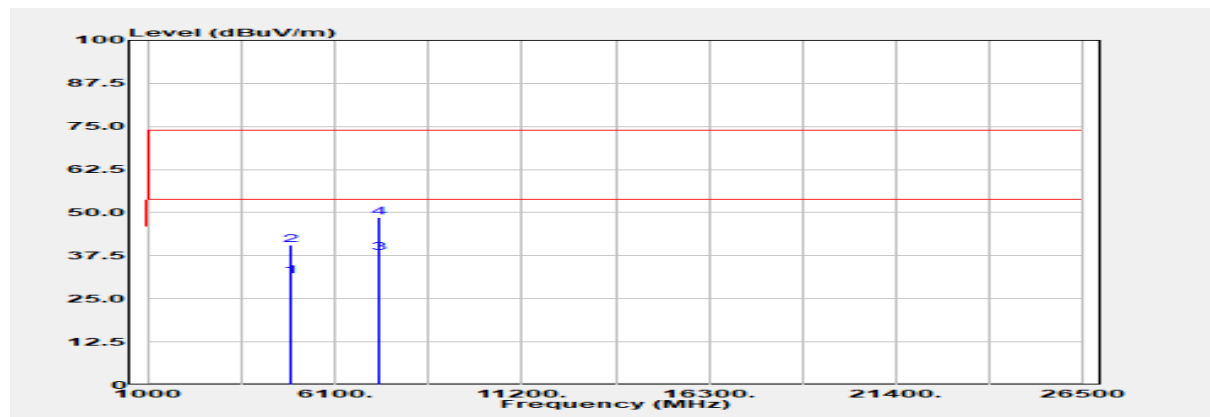
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11n40  
 Test Frequency :2437 MHz  
 Test Mode :TX CH MID  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.9/63  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



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
4874.000	Average	21.26	10.38	31.64	54.00	-22.36
4874.000	Peak	30.28	10.38	40.66	74.00	-33.34
7311.000	Average	20.37	17.97	38.34	54.00	-15.66
7311.000	Peak	30.62	17.97	48.60	74.00	-25.40

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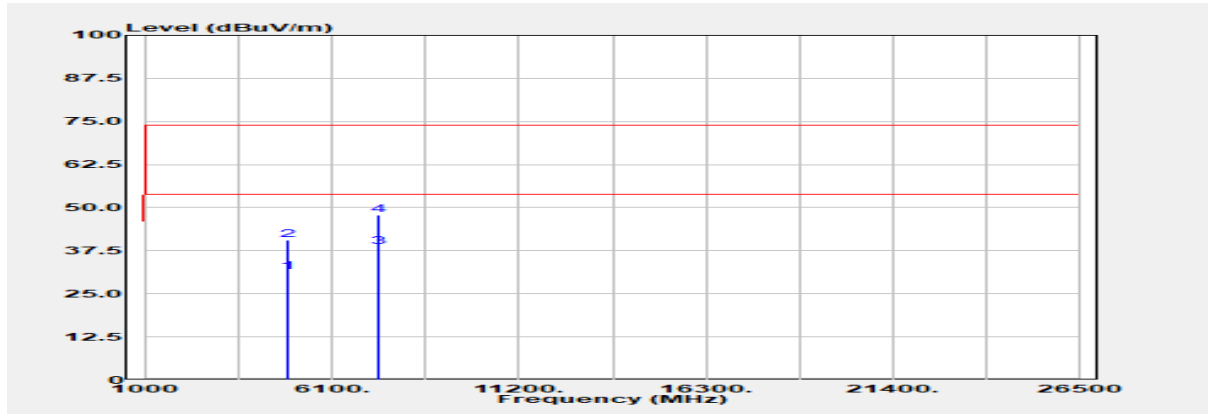
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Report Number :E2/2020/60002-01  
Operation Mode :802.11n40  
Test Frequency :2452 MHz  
Test Mode :TX CH HIGH  
EUT Pol :E1 Plane

Test Site :SAC C  
Test Date :2021-08-26  
Temp./Humi. :22.9/63  
Antenna Pol. :Vertical  
Engineer :Enzo Chang



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
4904.000	Average	21.22	10.20	31.42	54.00	-22.58
4904.000	Peak	30.30	10.20	40.49	74.00	-33.51
7356.000	Average	20.53	17.95	38.48	54.00	-15.52
7356.000	Peak	29.91	17.95	47.87	74.00	-26.13

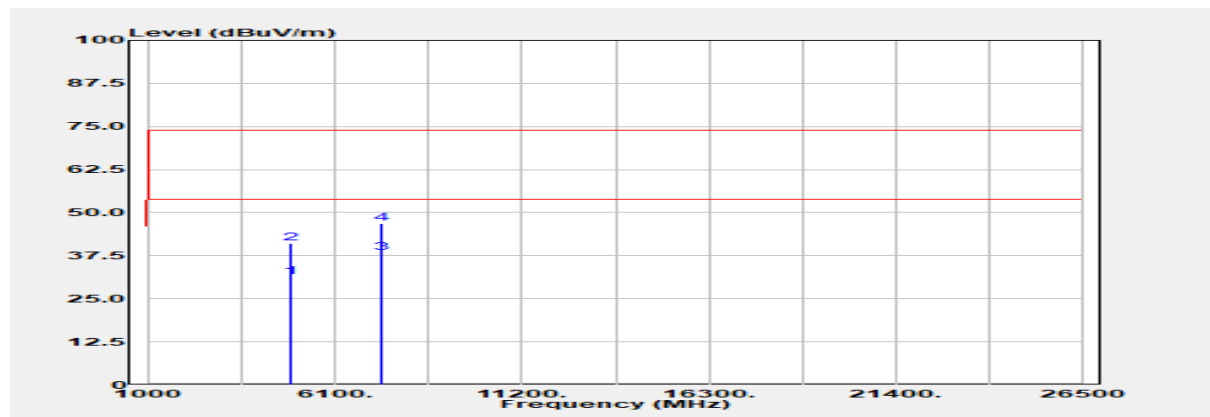
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Report Number :E2/2020/60002-01  
 Operation Mode :802.11n40  
 Test Frequency :2452 MHz  
 Test Mode :TX CH HIGH  
 EUT Pol :E1 Plane

Test Site :SAC C  
 Test Date :2021-08-26  
 Temp./Humi. :22.9/63  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4904.000	Average	21.15	10.20	31.35	54.00	-22.65
4904.000	Peak	30.98	10.20	41.18	74.00	-32.82
7356.000	Average	20.44	17.95	38.39	54.00	-15.61
7356.000	Peak	28.87	17.95	46.82	74.00	-27.18

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## 12 POWER SPECTRAL DENSITY

### 12.1 Standard Applicable

Per Part 15.247 (e)

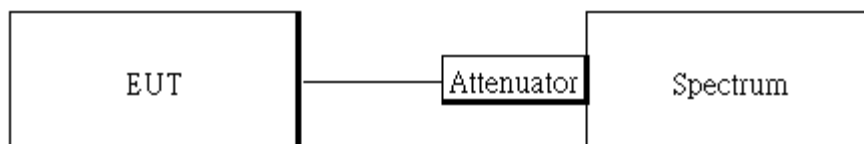
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

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: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Keysight	N9010B	MY60240548	01/31/2021	01/30/2022
Attenuator	Marvelous	MVE2213-10	RF05	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF157	11/19/2020	11/18/2021
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

### 12.3 Test Set-up



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## 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.

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**12.5 Power spectral density**

POWER DENSITY 802.11b				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-16.91	-16.91	8.00	PASS
2437	-17.84	-17.84	8.00	PASS
2462	-18.14	-18.14	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-18.94	-18.94	8.00	PASS
2437	-19.21	-19.21	8.00	PASS
2462	-19.74	-19.74	8.00	PASS

POWER DENSITY 802.11n HT20				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-18.54	-18.54	8.00	PASS
2437	-19.47	-19.47	8.00	PASS
2462	-19.44	-19.44	8.00	PASS

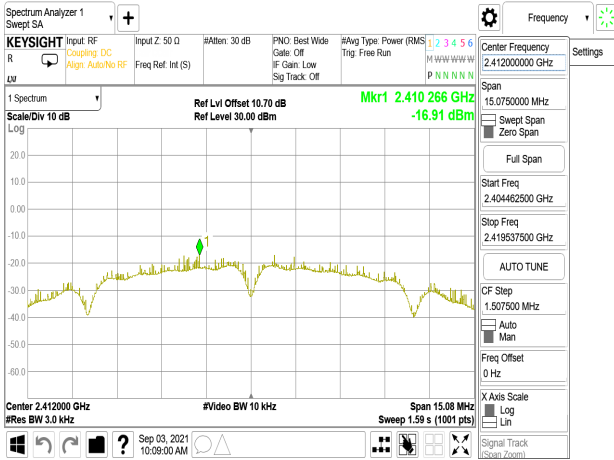
POWER DENSITY 802.11n HT40				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-22.81	-22.81	8.00	PASS
2437	-22.81	-22.81	8.00	PASS
2452	-23.32	-23.32	8.00	PASS

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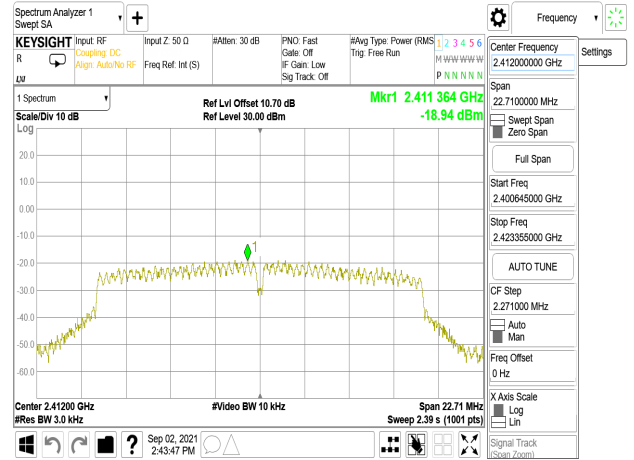
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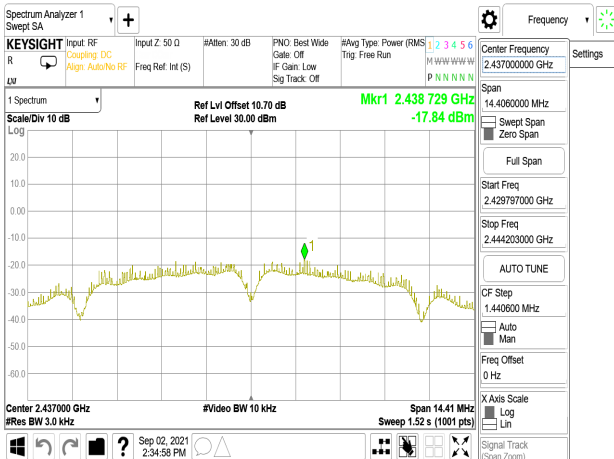
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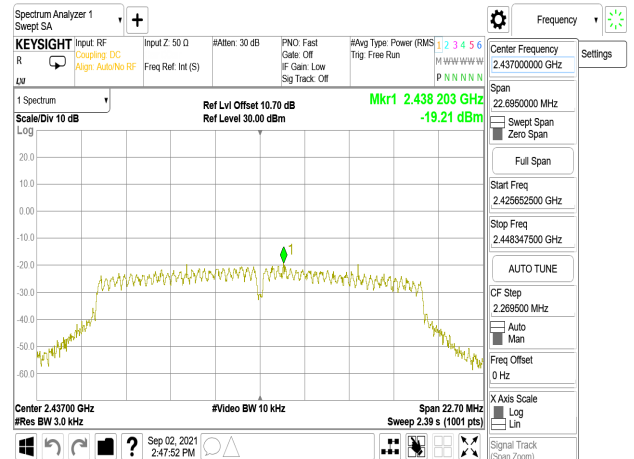
802.11g\_20MHz\_Chain0\_2412MHz



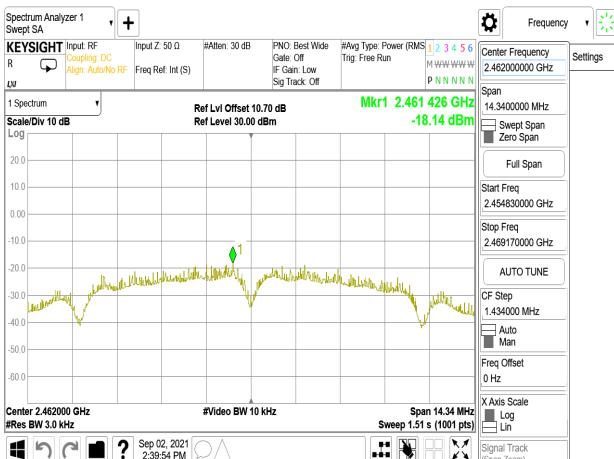
802.11b\_20MHz\_Chain0\_2437MHz



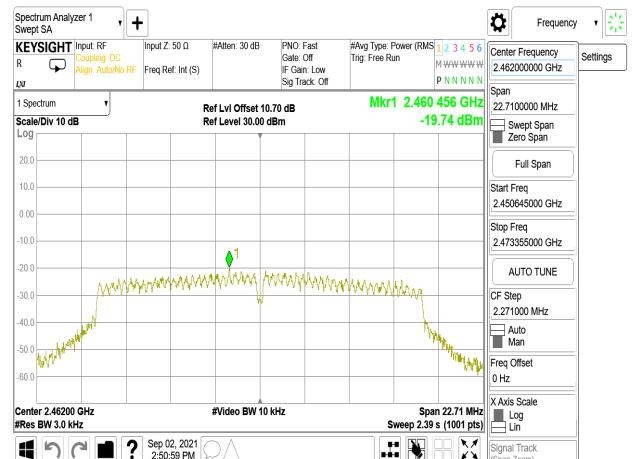
802.11g\_20MHz\_Chain0\_2437MHz



802.11b\_20MHz\_Chain0\_2462MHz



802.11g\_20MHz\_Chain0\_2462MHz

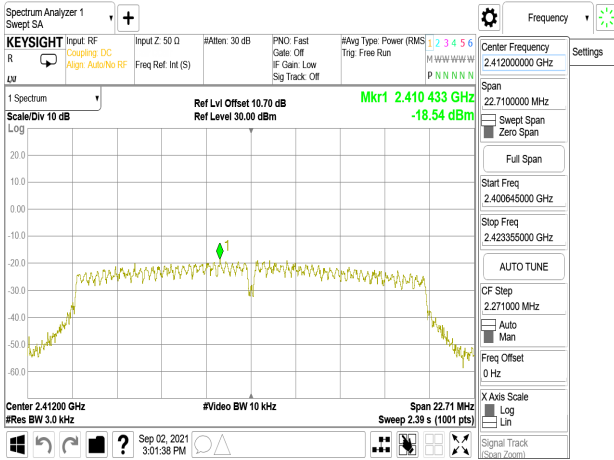


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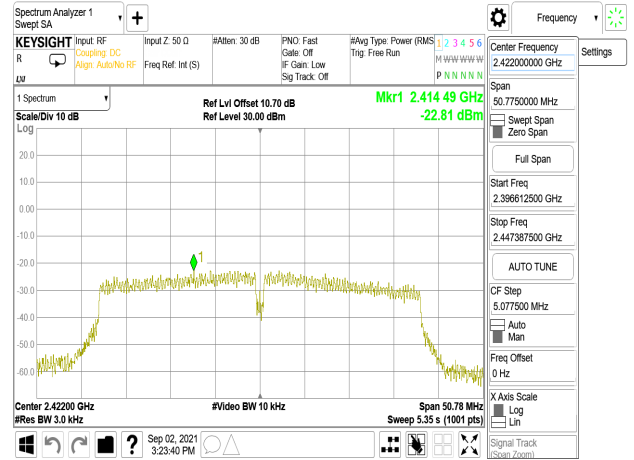
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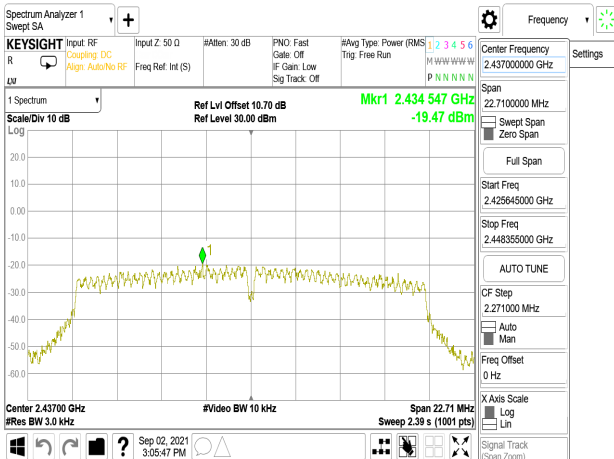
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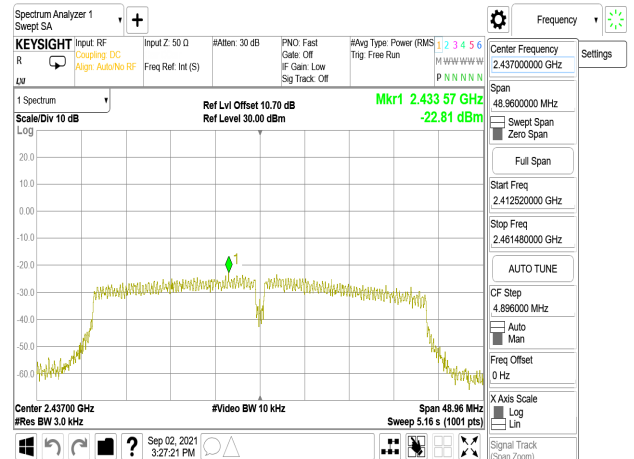
802.11n\_40MHz\_Chain0\_2422MHz



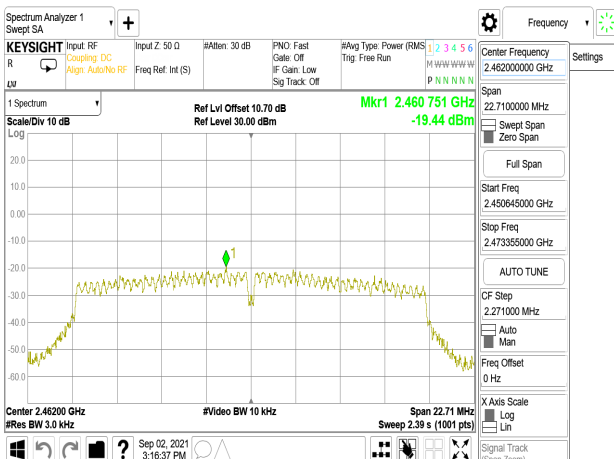
802.11n\_20MHz\_Chain0\_2437MHz



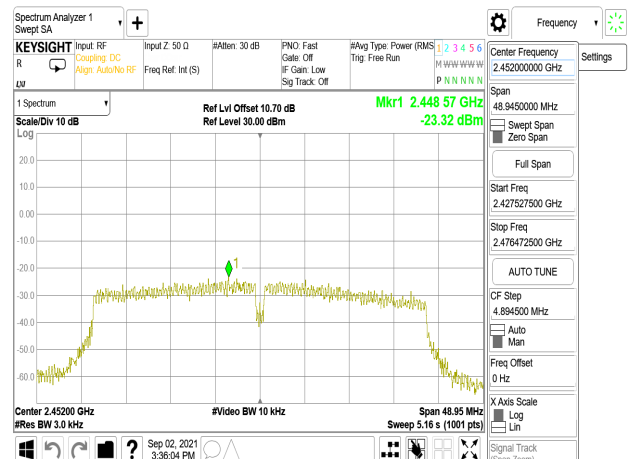
802.11n\_40MHz\_Chain0\_2437MHz



802.11n\_20MHz\_Chain0\_2462MHz



802.11n\_40MHz\_Chain0\_2452MHz



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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 as permanently attached and no consideration of replacement. Please see EUT photo for details.

*~ End of Report ~*

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