

802.11g\_20MHz\_Chain0\_2467MHz



802.11n\_20MHz\_Chain0\_2462MHz



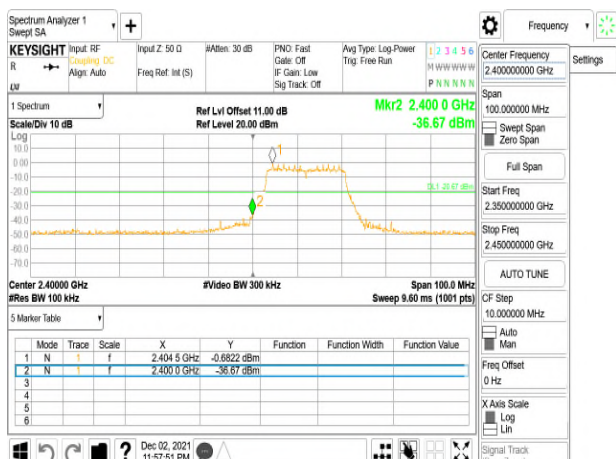
802.11g\_20MHz\_Chain0\_2472MHz



802.11n\_20MHz\_Chain0\_2467MHz



802.11n\_20MHz\_Chain0\_2412MHz



802.11n\_20MHz\_Chain0\_2472MHz



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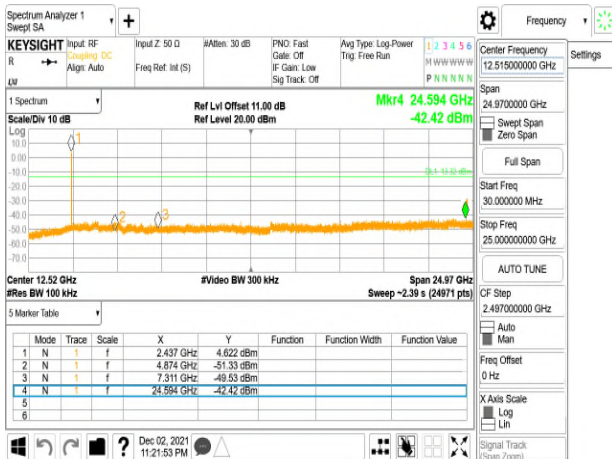
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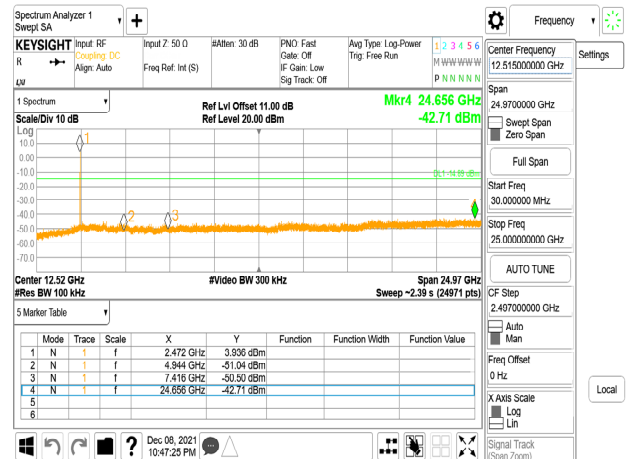
802.11b\_20MHz\_Chain0\_2467MHz



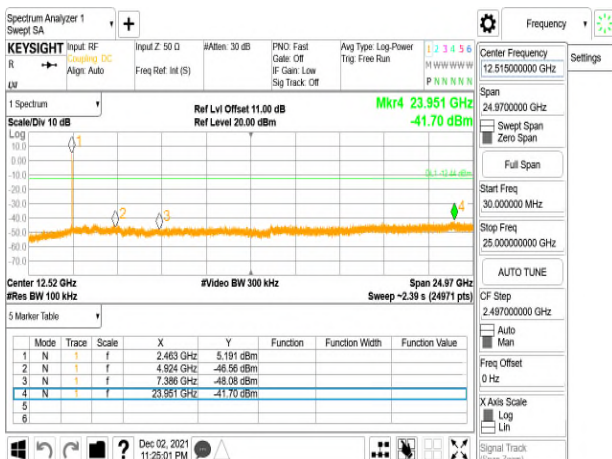
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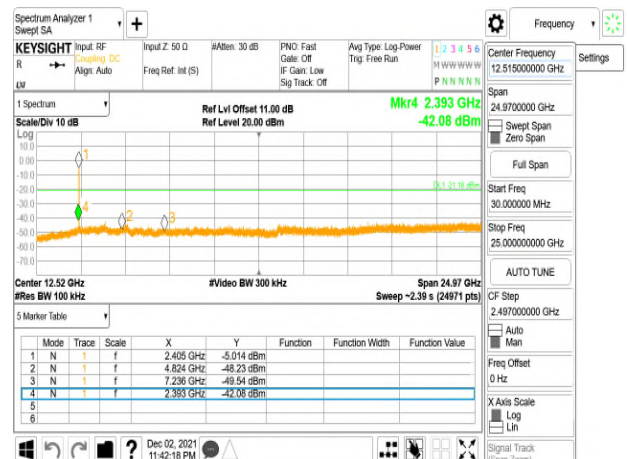
802.11b\_20MHz\_Chain0\_2472MHz



802.11b\_20MHz\_Chain0\_2462MHz



802.11g\_20MHz\_Chain0\_2412MHz



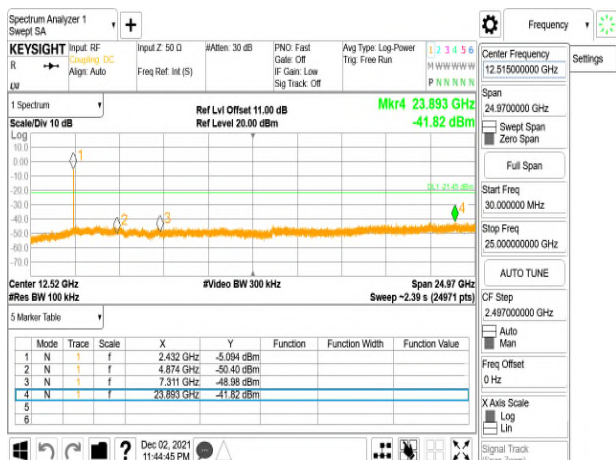
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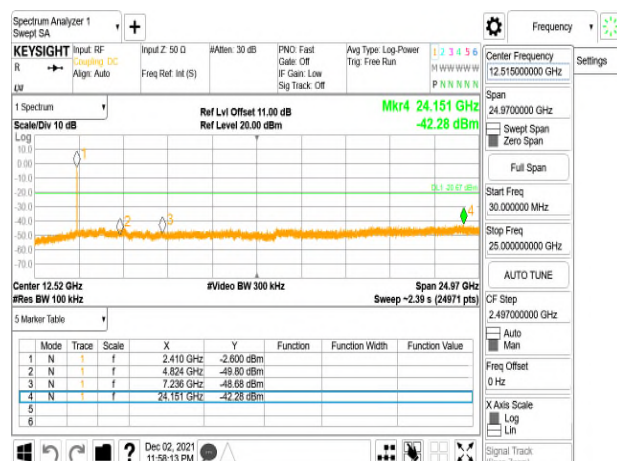
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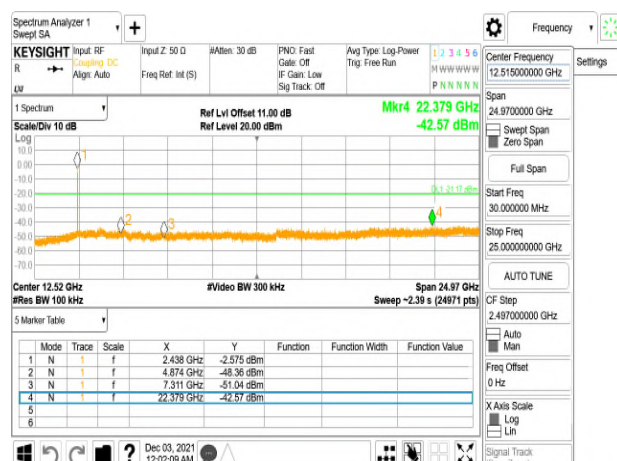
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802.11g\_20MHz\_Chain0\_2467MHz



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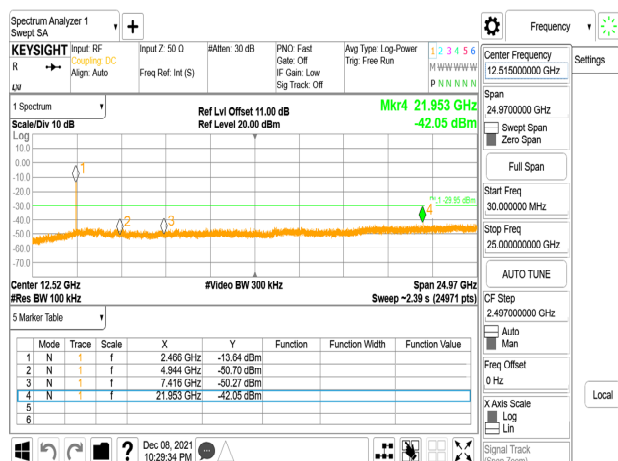
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## 12 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 12.1 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.

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

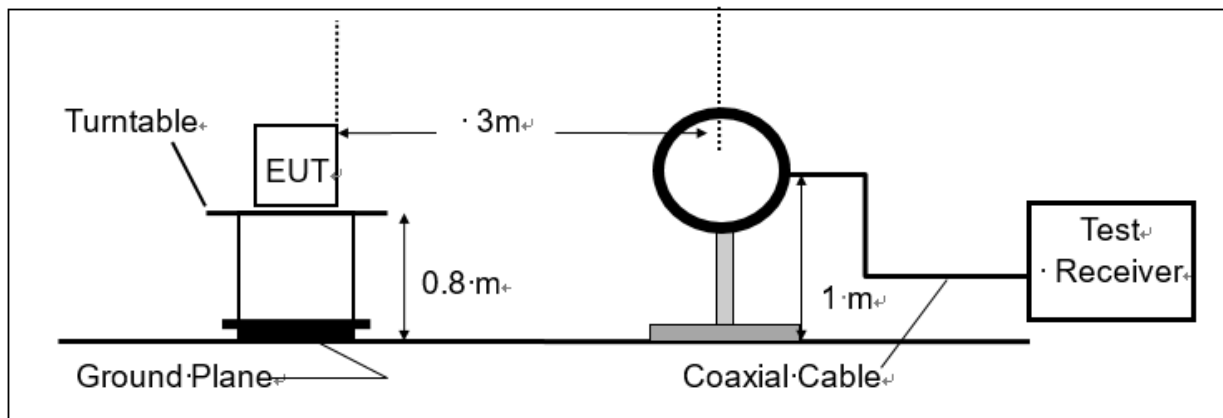
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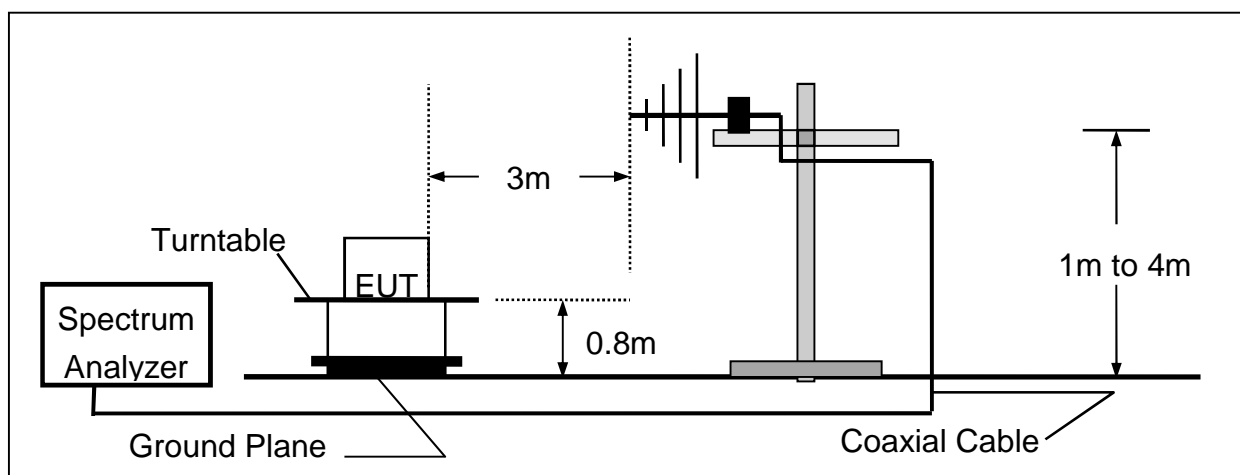
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## 12.2 Test Setup

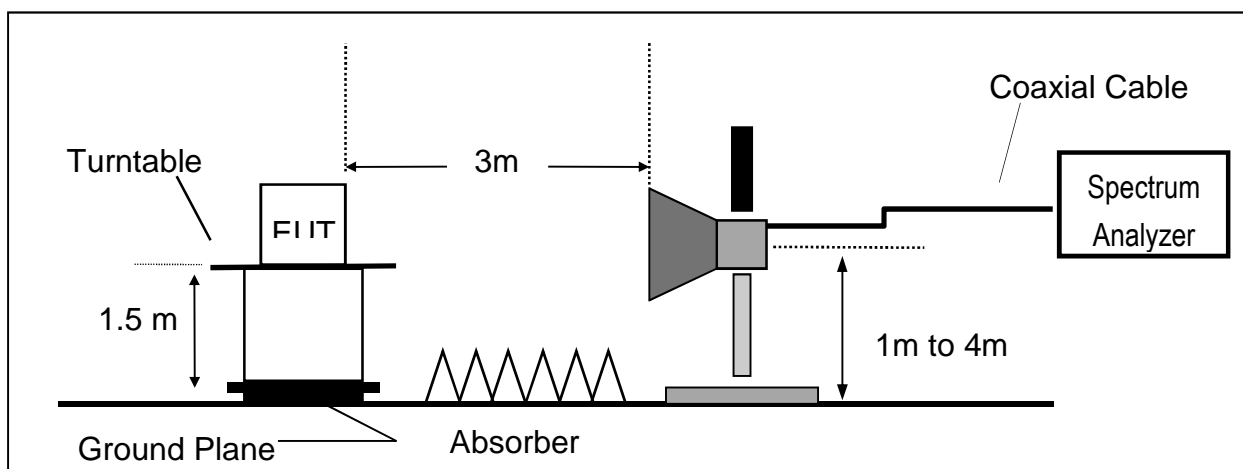
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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### 12.3 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 ≥ 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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## 12.4 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(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)*

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

## 12.5 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.

## 12.6 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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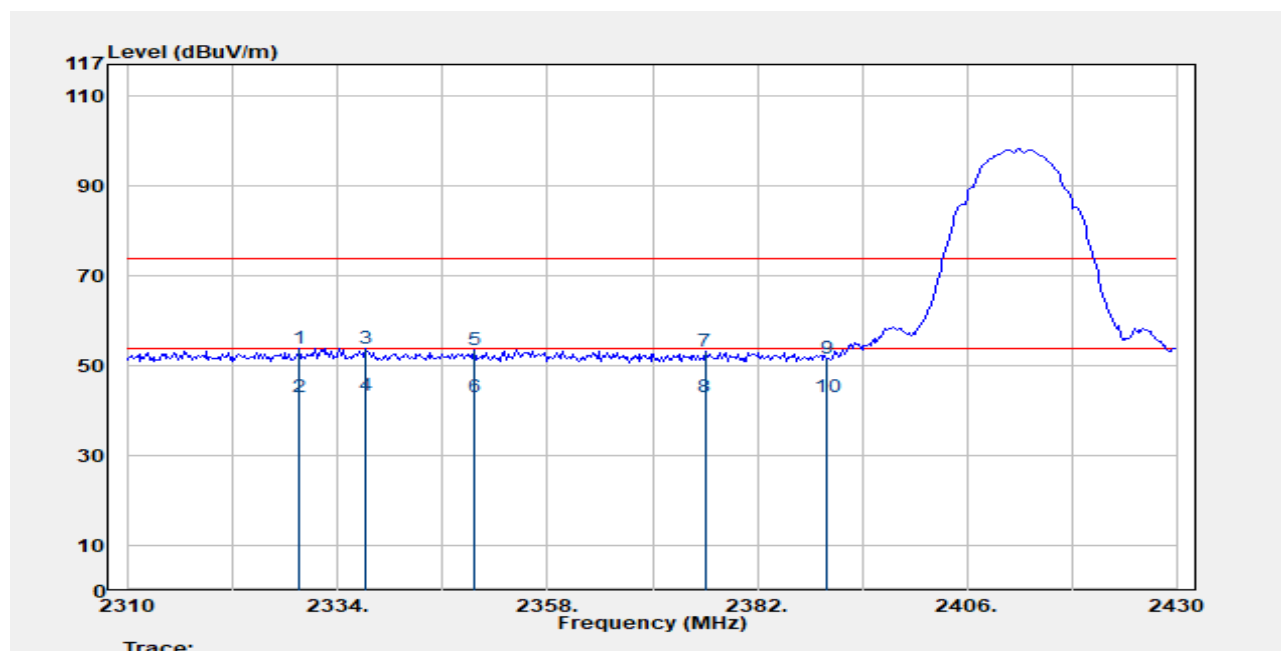
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### 12.6.1 Radiated Band Edge Measurement Result

Report Number	:ER-2021-B0046	Test Site	:SAC 3
Operation Mode	:802.11b	Test Date	:2021-12-03
Test Frequency	:2412 MHz	Temp./Humi.	:22.3/46
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2329.600	Peak	52.86	1.09	53.94	74.00	-20.06
2329.600	Average	42.02	1.09	43.11	54.00	-10.89
2337.200	Peak	52.91	1.05	53.97	74.00	-20.03
2337.200	Average	42.39	1.05	43.44	54.00	-10.56
2349.600	Peak	52.55	1.00	53.55	74.00	-20.45
2349.600	Average	42.16	1.00	43.16	54.00	-10.84
2376.000	Peak	52.23	0.95	53.17	74.00	-20.83
2376.000	Average	42.06	0.95	43.01	54.00	-10.99
2390.000	Peak	50.89	0.92	51.81	74.00	-22.19
2390.000	Average	42.16	0.92	43.08	54.00	-10.92

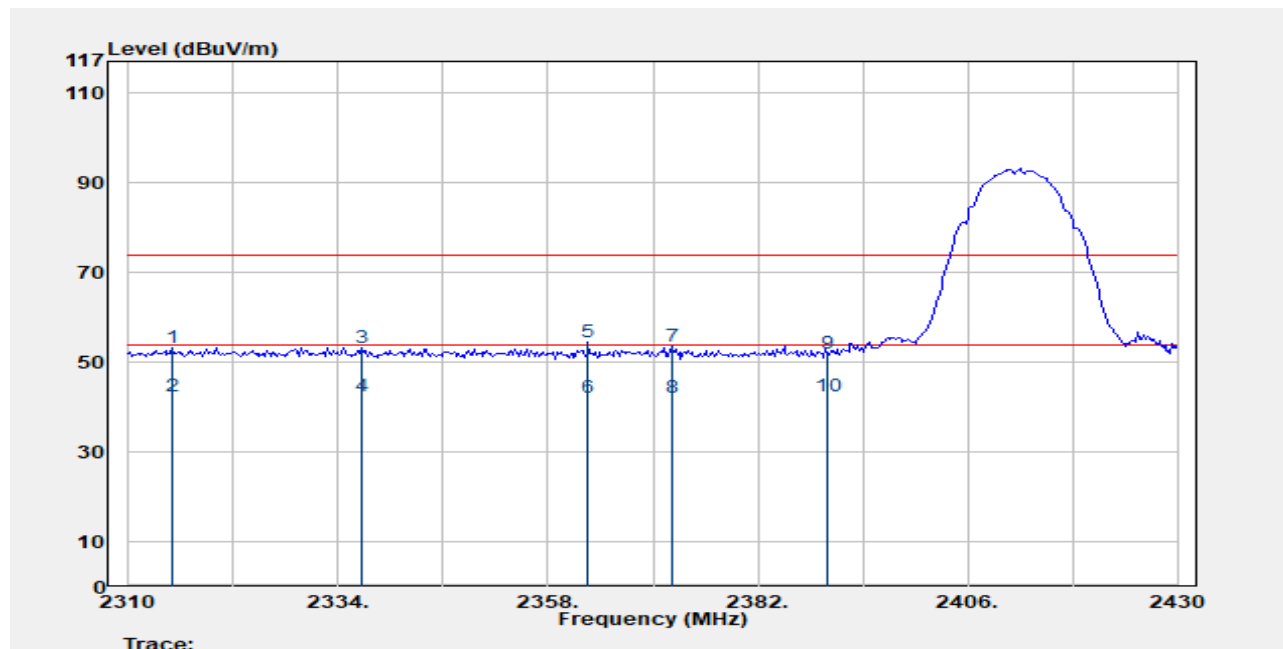
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Report Number :ER-2021-B0046  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2315.000	Peak	52.15	1.15	53.30	74.00	-20.70
2315.000	Average	41.30	1.15	42.45	54.00	-11.55
2336.600	Peak	52.31	1.06	53.37	74.00	-20.63
2336.600	Average	41.39	1.06	42.45	54.00	-11.55
2362.600	Peak	53.66	0.97	54.63	74.00	-19.37
2362.600	Average	41.33	0.97	42.30	54.00	-11.70
2372.200	Peak	52.79	0.95	53.74	74.00	-20.26
2372.200	Average	41.35	0.95	42.30	54.00	-11.70
2390.000	Peak	51.19	0.92	52.11	74.00	-21.89
2390.000	Average	41.45	0.92	42.37	54.00	-11.63

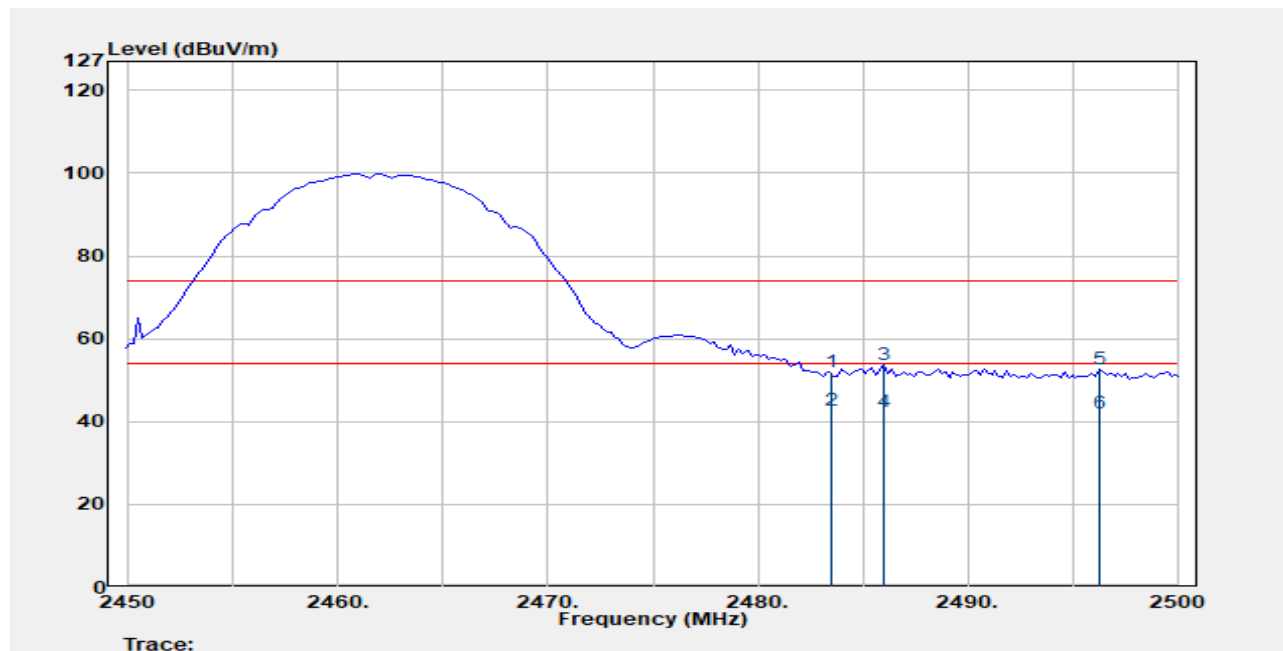
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 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	51.19	0.67	51.86	74.00	-22.14
2483.500	Average	41.86	0.67	42.53	54.00	-11.47
2486.017	Peak	53.18	0.66	53.84	74.00	-20.16
2486.017	Average	41.79	0.66	42.45	54.00	-11.55
2496.283	Peak	52.10	0.62	52.72	74.00	-21.28
2496.283	Average	41.36	0.62	41.98	54.00	-12.02

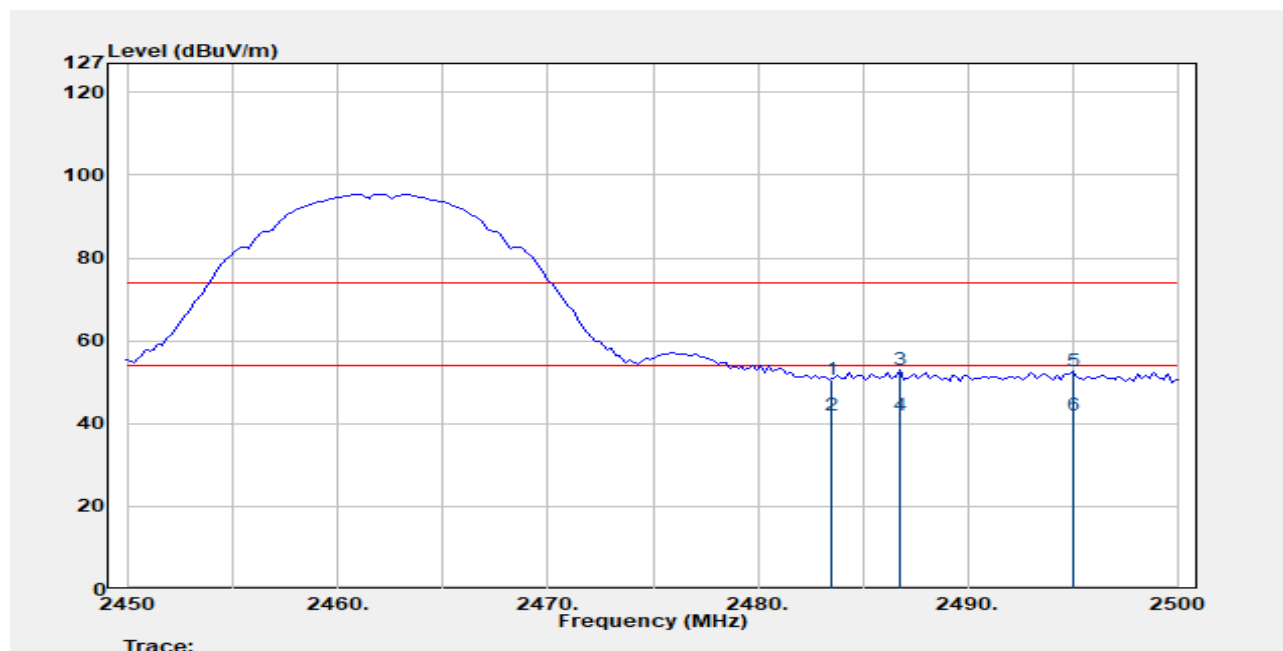
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 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	49.88	0.67	50.55	74.00	-23.45
2483.500	Average	41.32	0.67	41.99	54.00	-12.01
2486.750	Peak	52.19	0.66	52.85	74.00	-21.15
2486.750	Average	41.29	0.66	41.95	54.00	-12.05
2495.000	Peak	51.94	0.62	52.57	74.00	-21.43
2495.000	Average	41.23	0.62	41.85	54.00	-12.15

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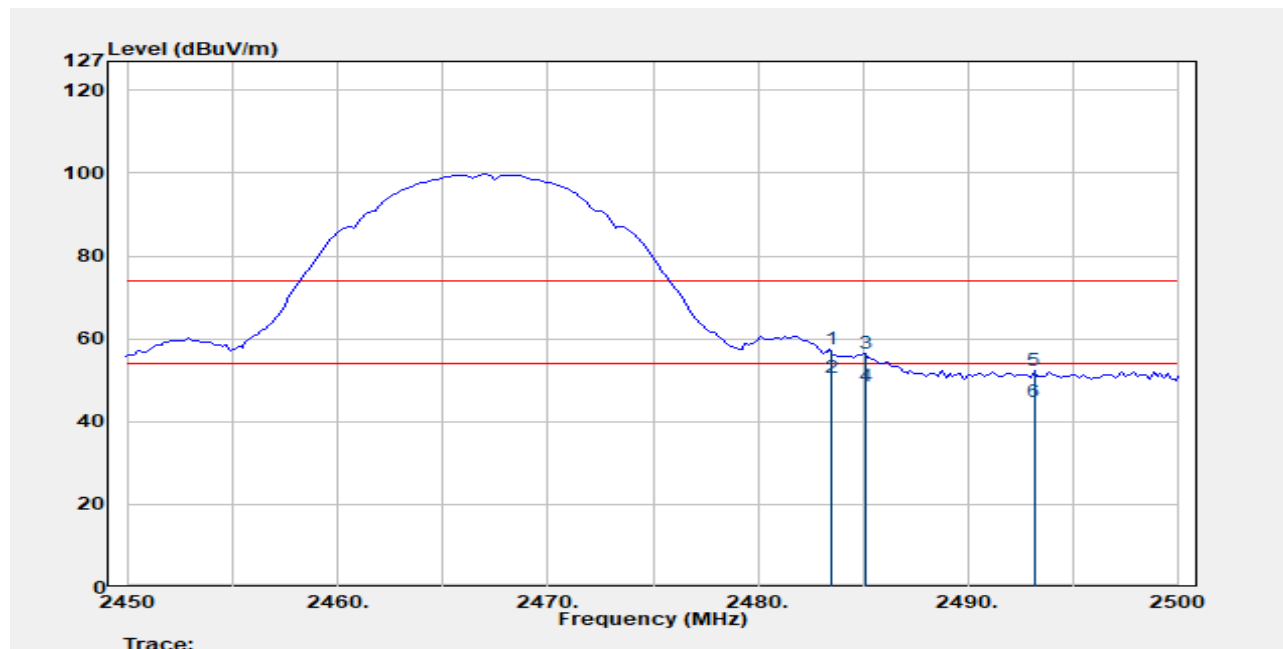
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Report Number :ER-2021-B0046  
 Operation Mode :802.11b  
 Test Frequency :2467 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	56.67	0.67	57.34	74.00	-16.66
2483.500	Average	49.79	0.67	50.46	54.00	-3.54
2485.100	Peak	55.86	0.66	56.53	74.00	-17.47
2485.100	Average	47.86	0.66	48.52	54.00	-5.48
2493.167	Peak	51.57	0.63	52.21	74.00	-21.79
2493.167	Average	44.23	0.63	44.86	54.00	-9.14

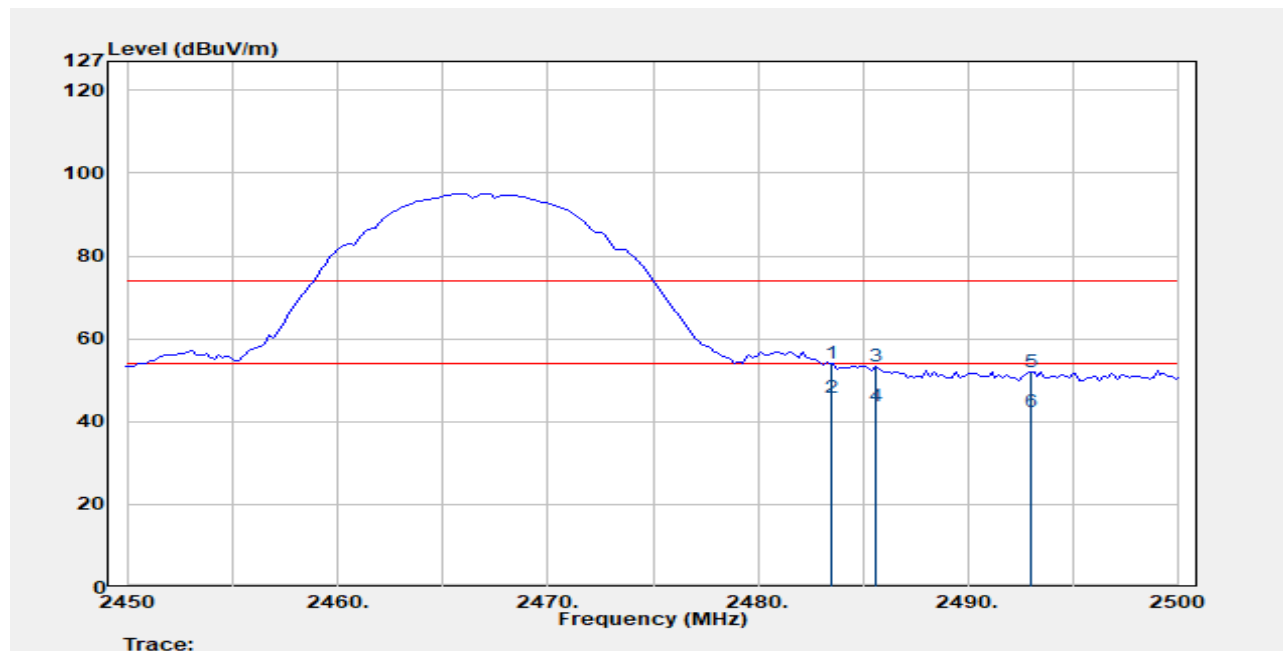
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Report Number :ER-2021-B0046  
 Operation Mode :802.11b  
 Test Frequency :2467 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	53.40	0.67	54.07	74.00	-19.93
2483.500	Average	45.26	0.67	45.93	54.00	-8.07
2485.650	Peak	52.82	0.66	53.48	74.00	-20.52
2485.650	Average	43.06	0.66	43.72	54.00	-10.28
2492.983	Peak	51.46	0.63	52.09	74.00	-21.91
2492.983	Average	41.83	0.63	42.46	54.00	-11.54

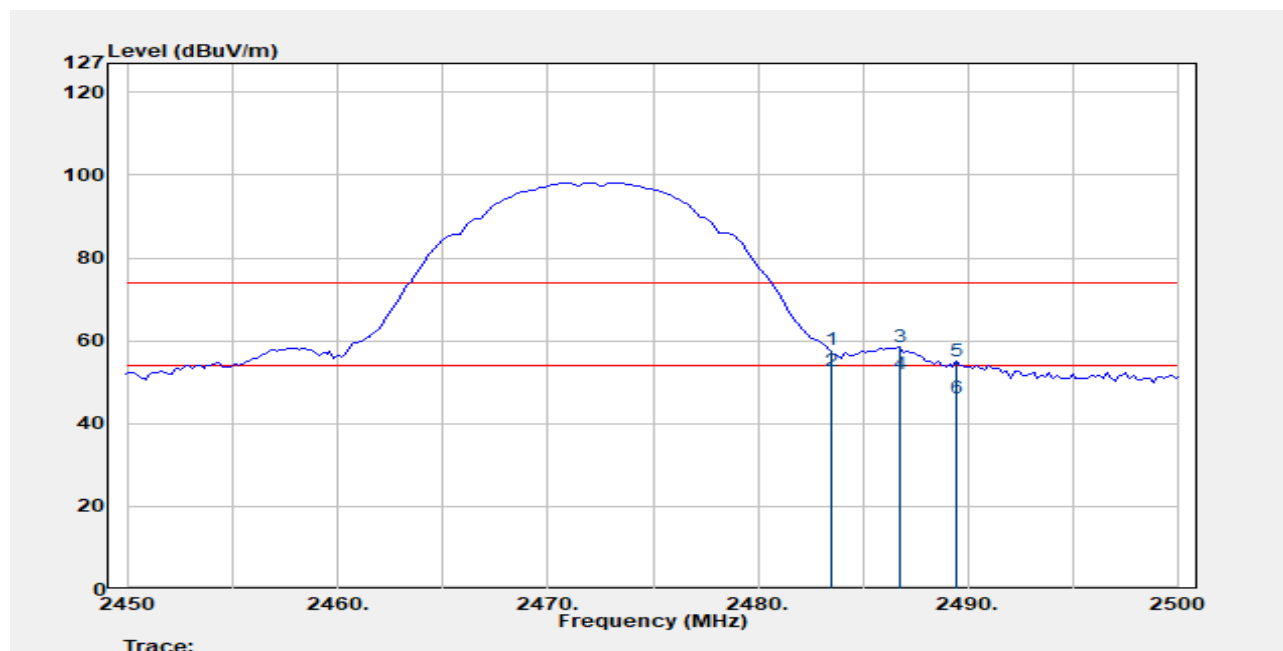
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Report Number :ER-2021-B0046  
 Operation Mode :802.11b  
 Test Frequency :2472 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	57.26	0.67	57.93	74.00	-16.07
2483.500	Average	51.91	0.67	52.58	54.00	-1.42
2486.750	Peak	57.94	0.66	58.60	74.00	-15.40
2486.750	Average	51.37	0.66	52.03	54.00	-1.97
2489.500	Peak	54.45	0.65	55.09	74.00	-18.91
2489.500	Average	45.59	0.65	46.24	54.00	-7.76

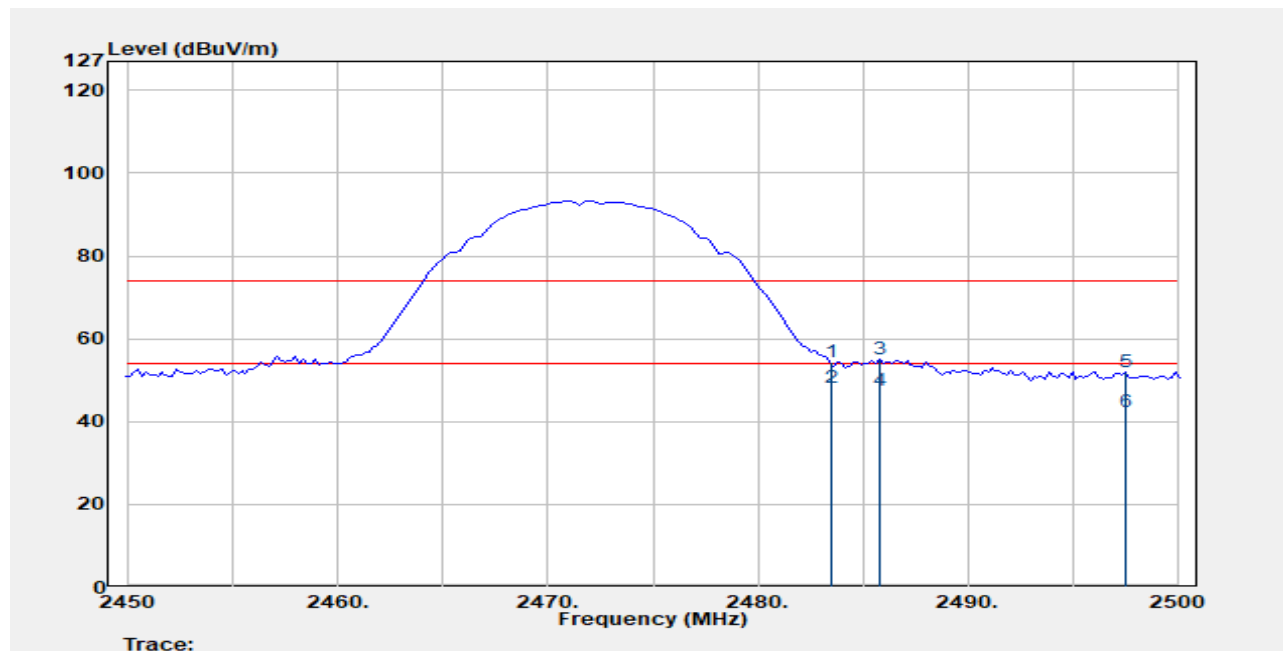
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Report Number :ER-2021-B0046  
 Operation Mode :802.11b  
 Test Frequency :2472 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	53.76	0.67	54.43	74.00	-19.57
2483.500	Average	47.43	0.67	48.10	54.00	-5.90
2485.833	Peak	54.43	0.66	55.09	74.00	-18.91
2485.833	Average	46.83	0.66	47.49	54.00	-6.51
2497.567	Peak	51.41	0.61	52.02	74.00	-21.98
2497.567	Average	41.85	0.61	42.46	54.00	-11.54

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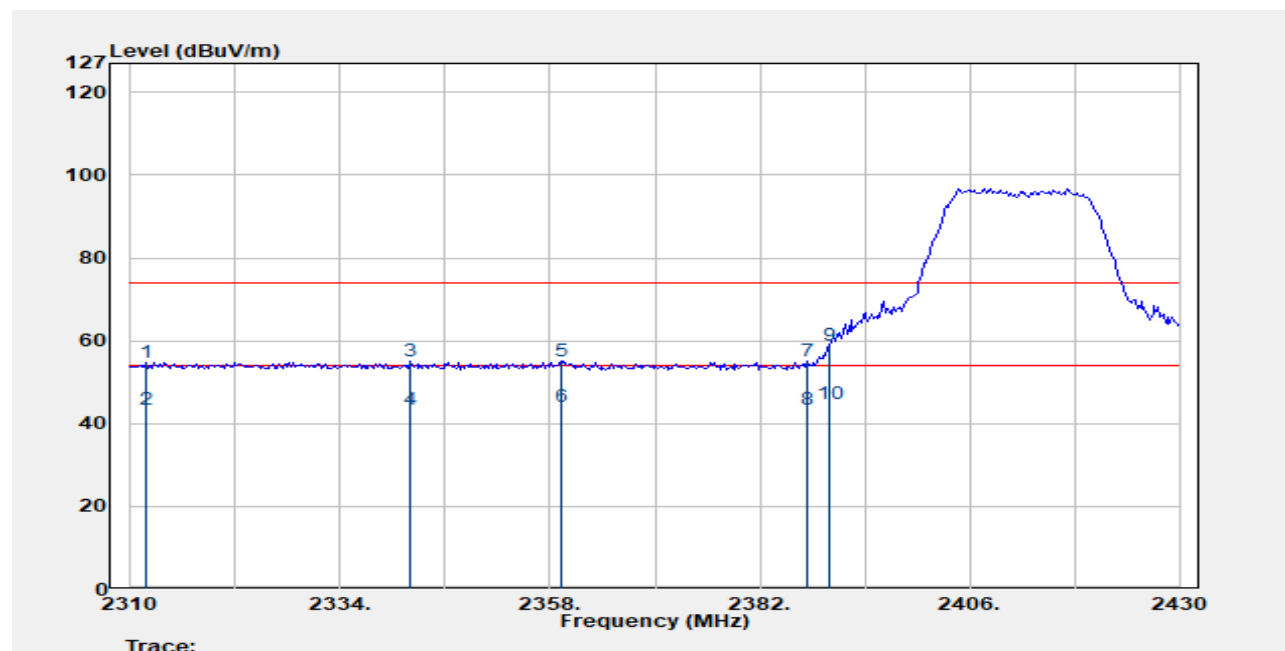
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Report Number :ER-2021-B0046  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2311.800	Peak	53.68	1.16	54.84	74.00	-19.16
2311.800	Average	42.13	1.16	43.29	54.00	-10.71
2342.000	Peak	53.90	1.03	54.94	74.00	-19.06
2342.000	Average	42.33	1.03	43.36	54.00	-10.64
2359.200	Peak	54.14	0.98	55.12	74.00	-18.88
2359.200	Average	43.22	0.98	44.20	54.00	-9.80
2387.400	Peak	54.17	0.92	55.09	74.00	-18.91
2387.400	Average	42.49	0.92	43.41	54.00	-10.59
2390.000	Peak	57.79	0.92	58.71	74.00	-15.29
2390.000	Average	43.72	0.92	44.64	54.00	-9.36

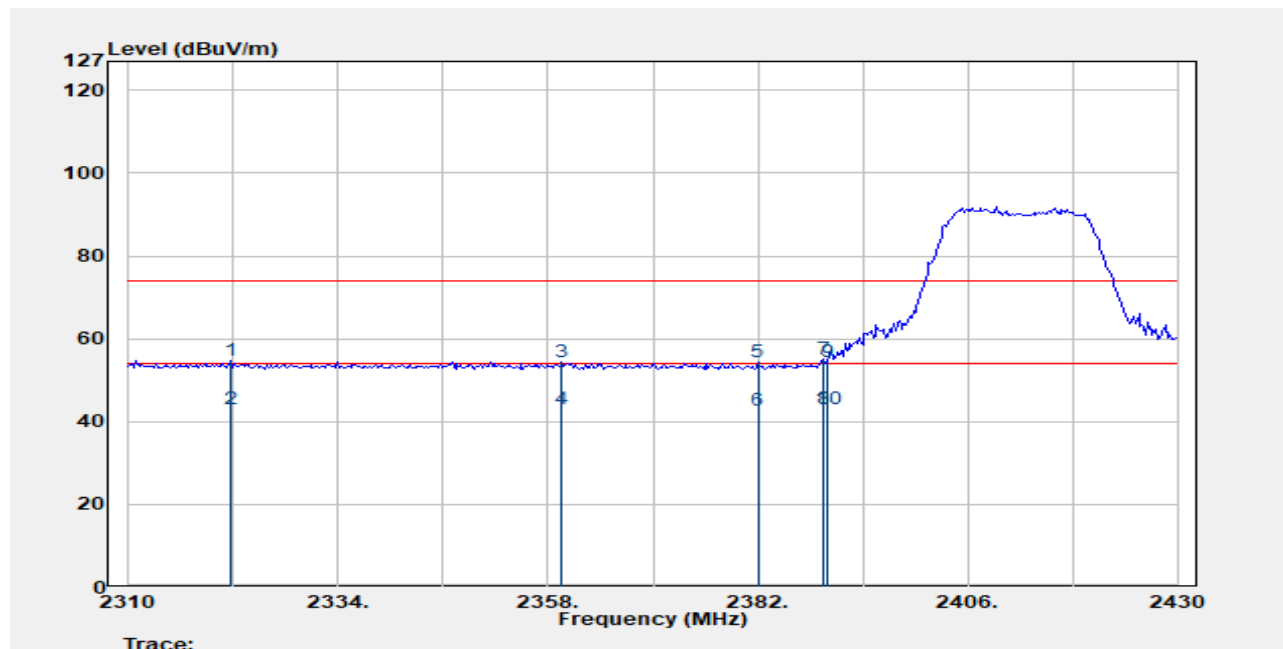
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Report Number :ER-2021-B0046  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2321.600	Peak	53.68	1.12	54.80	74.00	-19.20
2321.600	Average	41.86	1.12	42.98	54.00	-11.02
2359.600	Peak	53.40	0.98	54.38	74.00	-19.62
2359.600	Average	42.16	0.98	43.14	54.00	-10.86
2382.000	Peak	53.42	0.93	54.35	74.00	-19.65
2382.000	Average	41.69	0.93	42.62	54.00	-11.38
2389.400	Peak	54.15	0.92	55.06	74.00	-18.94
2389.400	Average	42.08	0.92	43.00	54.00	-11.00
2390.000	Peak	53.63	0.92	54.54	74.00	-19.46
2390.000	Average	42.22	0.92	43.14	54.00	-10.86

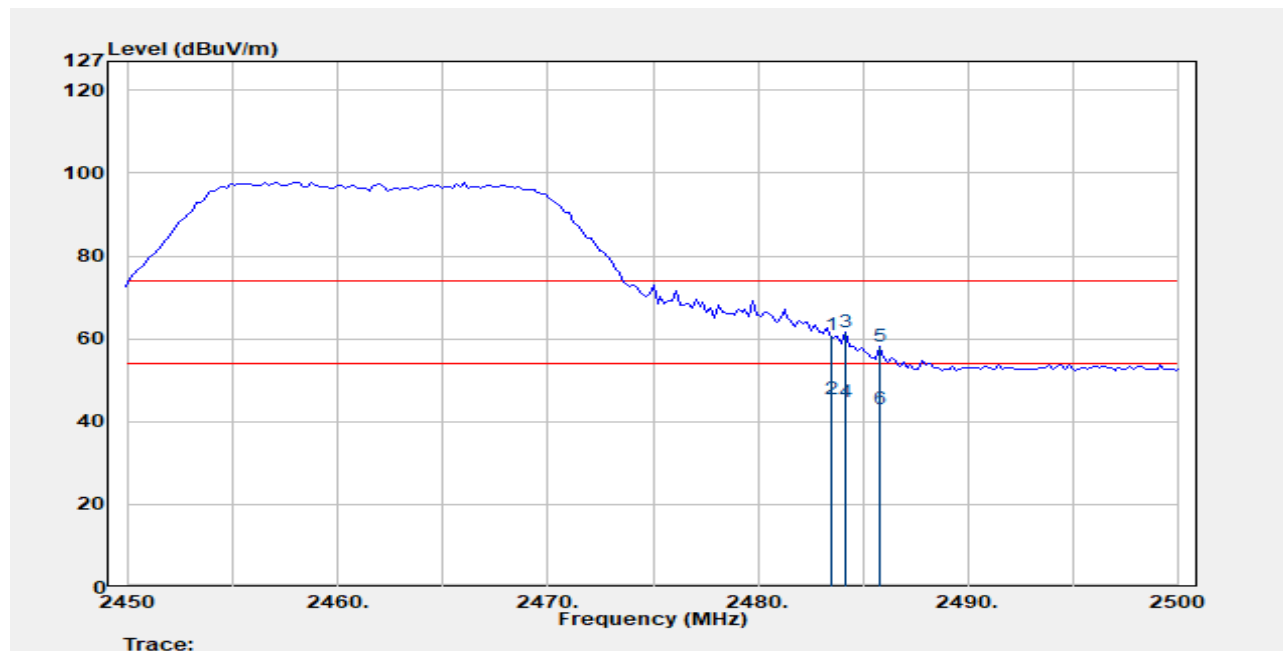
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Report Number :ER-2021-B0046  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.500	Peak	60.38	0.67	61.05	74.00	-12.95
2483.500	Average	44.86	0.67	45.53	54.00	-8.47
2484.183	Peak	60.93	0.67	61.60	74.00	-12.40
2484.183	Average	43.95	0.67	44.62	54.00	-9.38
2485.833	Peak	57.50	0.66	58.16	74.00	-15.84
2485.833	Average	42.42	0.66	43.08	54.00	-10.92

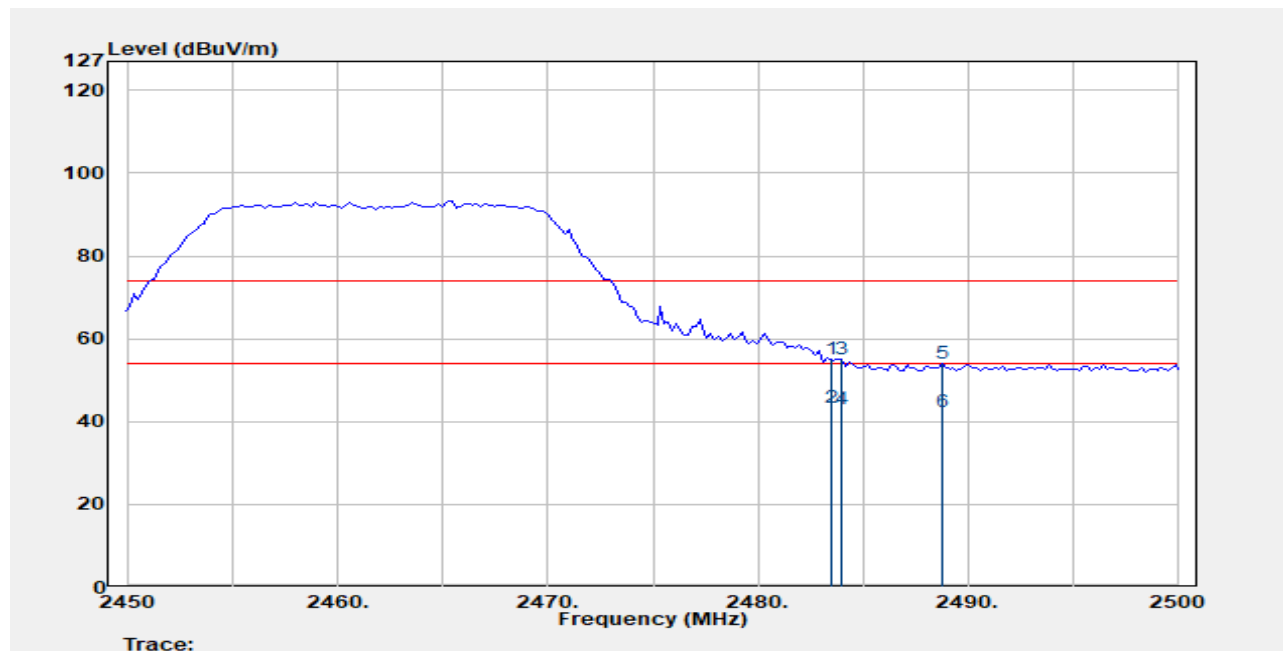
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Report Number :ER-2021-B0046  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	54.27	0.67	54.94	74.00	-19.06
2483.500	Average	42.65	0.67	43.32	54.00	-10.68
2484.000	Peak	54.49	0.67	55.15	74.00	-18.85
2484.000	Average	42.35	0.67	43.02	54.00	-10.98
2488.767	Peak	53.50	0.65	54.15	74.00	-19.85
2488.767	Average	41.62	0.65	42.27	54.00	-11.73

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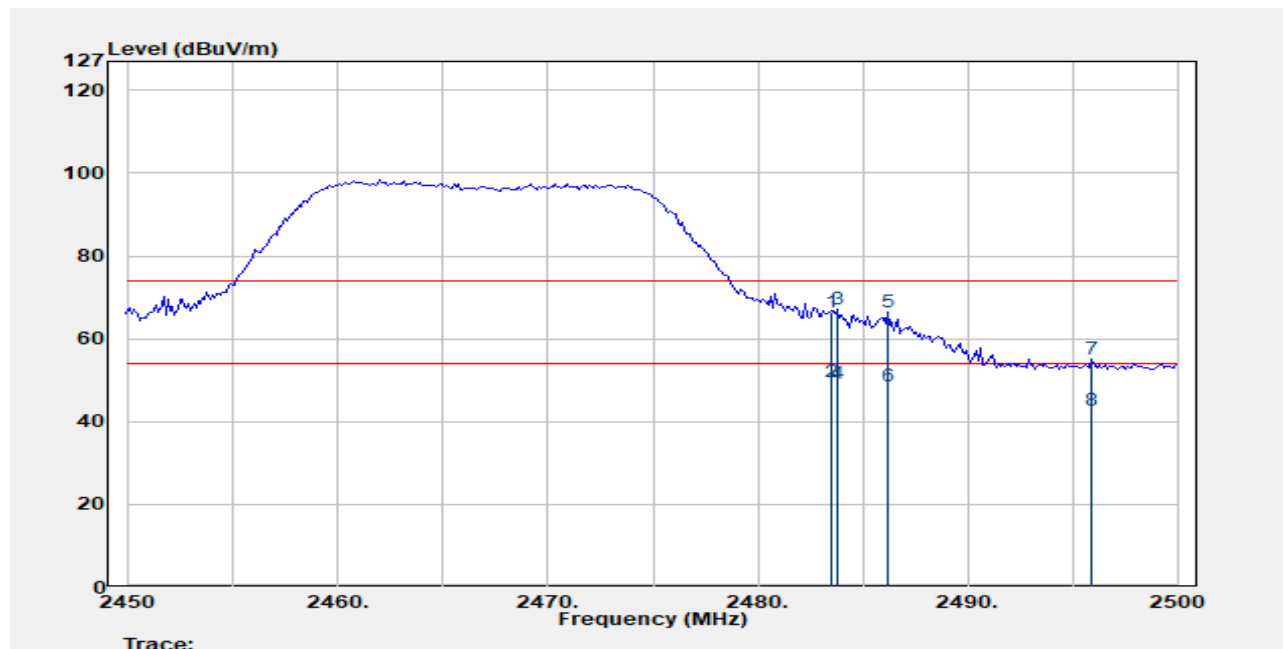
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 Operation Mode :802.11g  
 Test Frequency :2467 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	65.61	0.67	66.28	74.00	-7.72
2483.500	Average	49.03	0.67	49.70	54.00	-4.30
2483.780	Peak	66.58	0.67	67.25	74.00	-6.75
2483.780	Average	48.62	0.67	49.29	54.00	-4.71
2486.200	Peak	65.87	0.66	66.53	74.00	-7.47
2486.200	Average	47.83	0.66	48.49	54.00	-5.51
2495.880	Peak	54.41	0.62	55.03	74.00	-18.97
2495.880	Average	42.16	0.62	42.78	54.00	-11.22

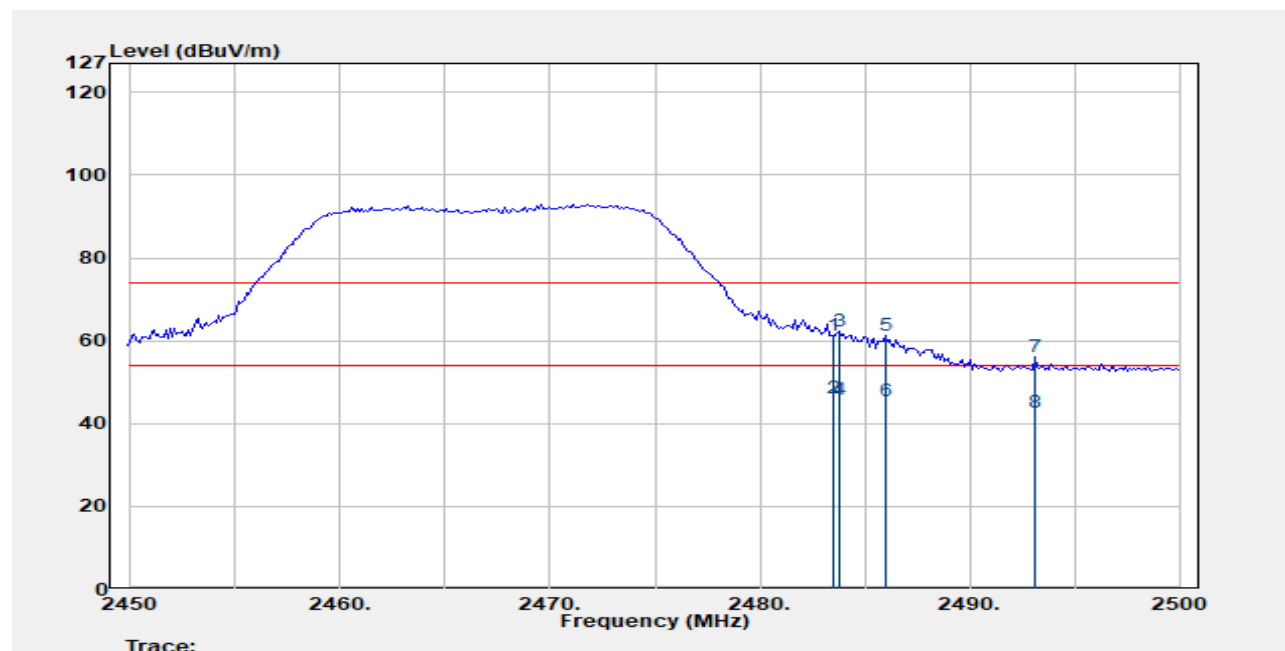
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 Operation Mode :802.11g  
 Test Frequency :2467 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	60.65	0.67	61.32	74.00	-12.68
2483.500	Average	45.30	0.67	45.97	54.00	-8.03
2483.780	Peak	61.59	0.67	62.26	74.00	-11.74
2483.780	Average	45.17	0.67	45.84	54.00	-8.16
2485.980	Peak	60.62	0.66	61.28	74.00	-12.72
2485.980	Average	44.62	0.66	45.28	54.00	-8.72
2493.130	Peak	55.49	0.63	56.12	74.00	-17.88
2493.130	Average	41.98	0.63	42.61	54.00	-11.39

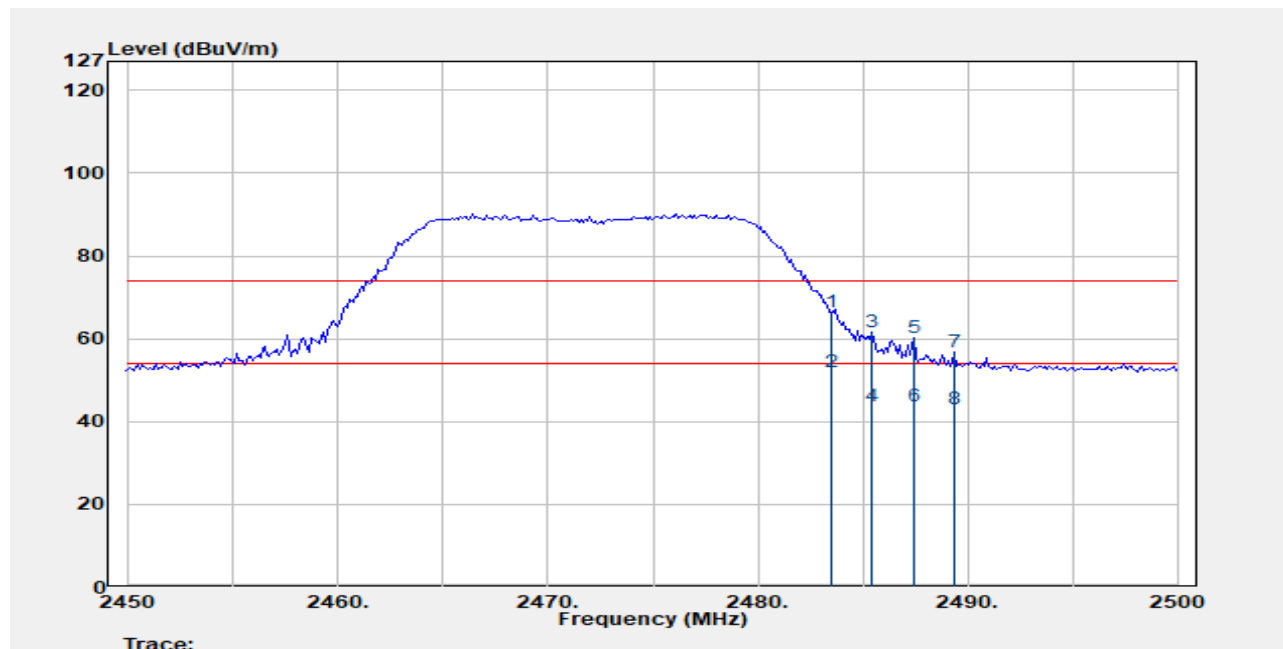
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Report Number :ER-2021-B0046  
 Operation Mode :802.11g  
 Test Frequency :2472 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-07  
 Temp./Humi. :23.6/58  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	65.92	0.67	66.59	74.00	-7.41
2483.500	Average	51.39	0.67	52.06	54.00	-1.94
2485.430	Peak	60.91	0.66	61.58	74.00	-12.42
2485.430	Average	42.96	0.66	43.62	54.00	-10.38
2487.410	Peak	59.70	0.65	60.36	74.00	-13.64
2487.410	Average	42.93	0.65	43.58	54.00	-10.42
2489.390	Peak	56.08	0.65	56.73	74.00	-17.27
2489.390	Average	42.41	0.65	43.06	54.00	-10.94

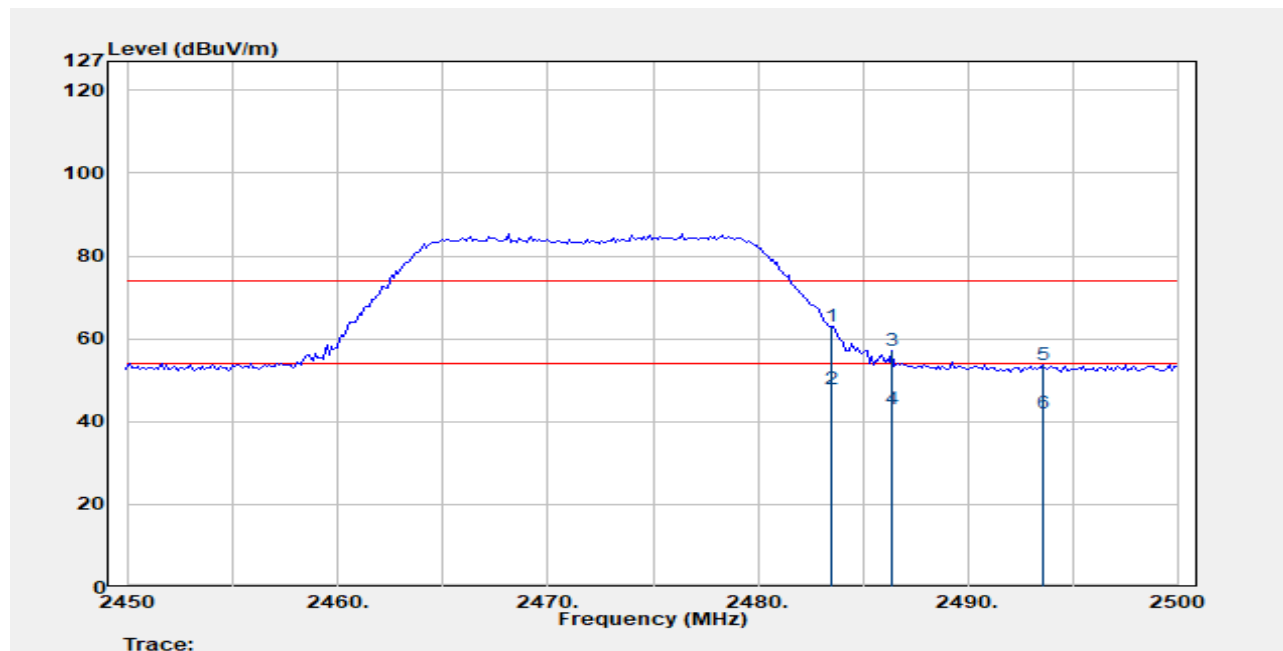
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Report Number :ER-2021-B0046  
 Operation Mode :802.11g  
 Test Frequency :2472 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-07  
 Temp./Humi. :23.6/58  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	62.27	0.67	62.94	74.00	-11.06
2483.500	Average	47.23	0.67	47.90	54.00	-6.10
2486.420	Peak	56.39	0.66	57.04	74.00	-16.96
2486.420	Average	42.24	0.66	42.90	54.00	-11.10
2493.570	Peak	53.15	0.63	53.79	74.00	-20.21
2493.570	Average	41.26	0.63	41.89	54.00	-12.11

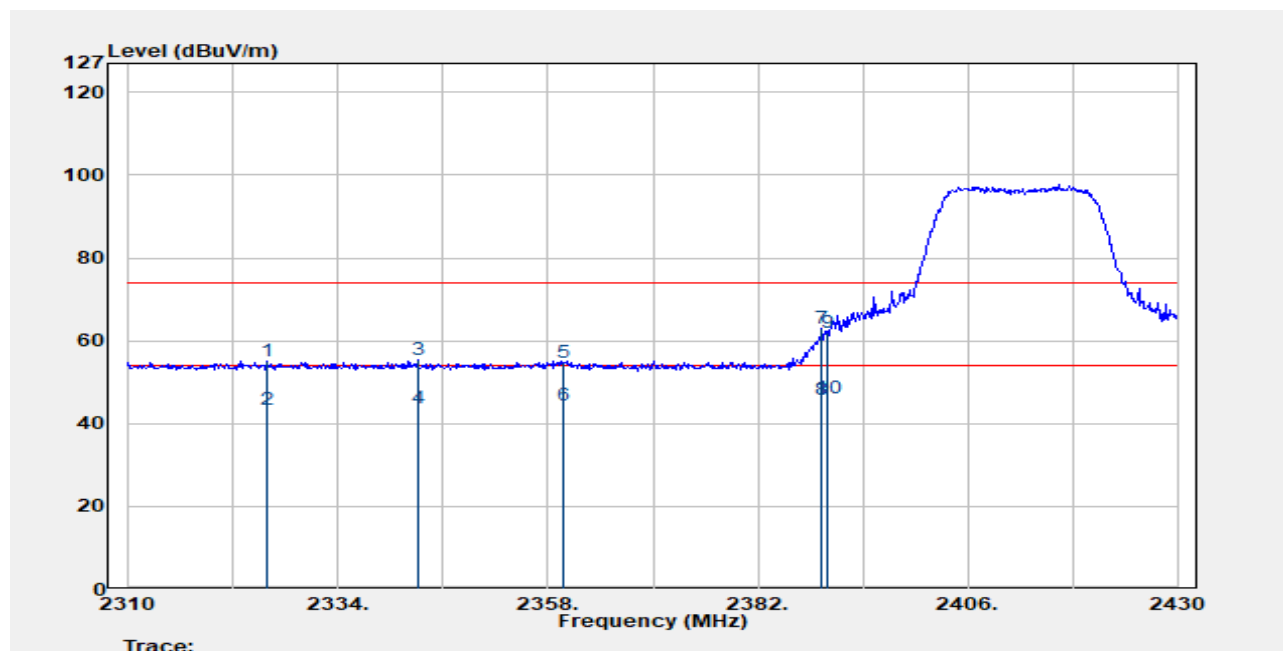
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2325.720	Peak	54.01	1.10	55.11	74.00	-18.89
2325.720	Average	42.36	1.10	43.46	54.00	-10.54
2343.120	Peak	54.34	1.03	55.37	74.00	-18.63
2343.120	Average	42.55	1.03	43.58	54.00	-10.42
2359.800	Peak	53.74	0.98	54.72	74.00	-19.28
2359.800	Average	43.41	0.98	44.39	54.00	-9.61
2389.320	Peak	62.01	0.92	62.92	74.00	-11.08
2389.320	Average	44.69	0.92	45.61	54.00	-8.39
2390.000	Peak	61.09	0.92	62.00	74.00	-12.00
2390.000	Average	45.22	0.92	46.14	54.00	-7.86

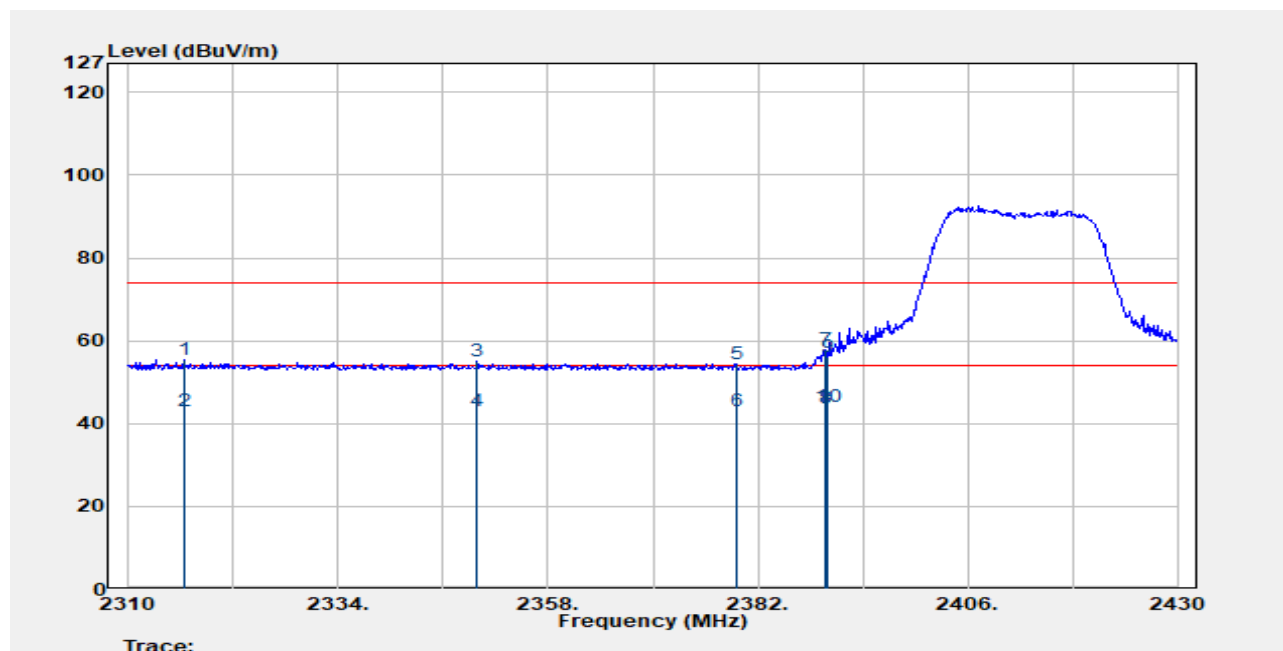
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2316.360	Peak	54.35	1.14	55.49	74.00	-18.51
2316.360	Average	41.97	1.14	43.11	54.00	-10.89
2349.840	Peak	53.90	1.00	54.90	74.00	-19.10
2349.840	Average	42.02	1.00	43.02	54.00	-10.98
2379.480	Peak	53.58	0.94	54.51	74.00	-19.49
2379.480	Average	42.02	0.94	42.96	54.00	-11.04
2389.800	Peak	56.78	0.92	57.69	74.00	-16.31
2389.800	Average	42.88	0.92	43.80	54.00	-10.20
2390.000	Peak	55.05	0.92	55.96	74.00	-18.04
2390.000	Average	43.02	0.92	43.94	54.00	-10.06

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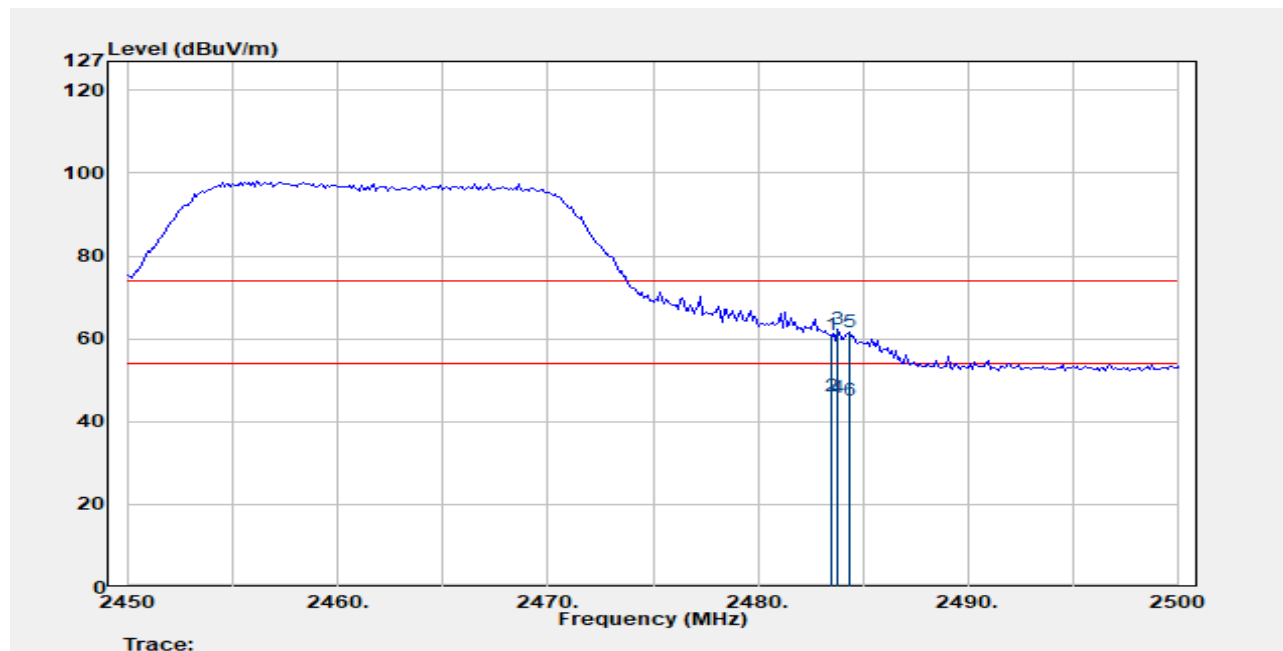
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	60.30	0.67	60.97	74.00	-13.03
2483.500	Average	45.41	0.67	46.08	54.00	-7.92
2483.800	Peak	61.55	0.67	62.22	74.00	-11.78
2483.800	Average	45.18	0.67	45.85	54.00	-8.15
2484.400	Peak	61.04	0.67	61.70	74.00	-12.30
2484.400	Average	44.57	0.67	45.24	54.00	-8.76

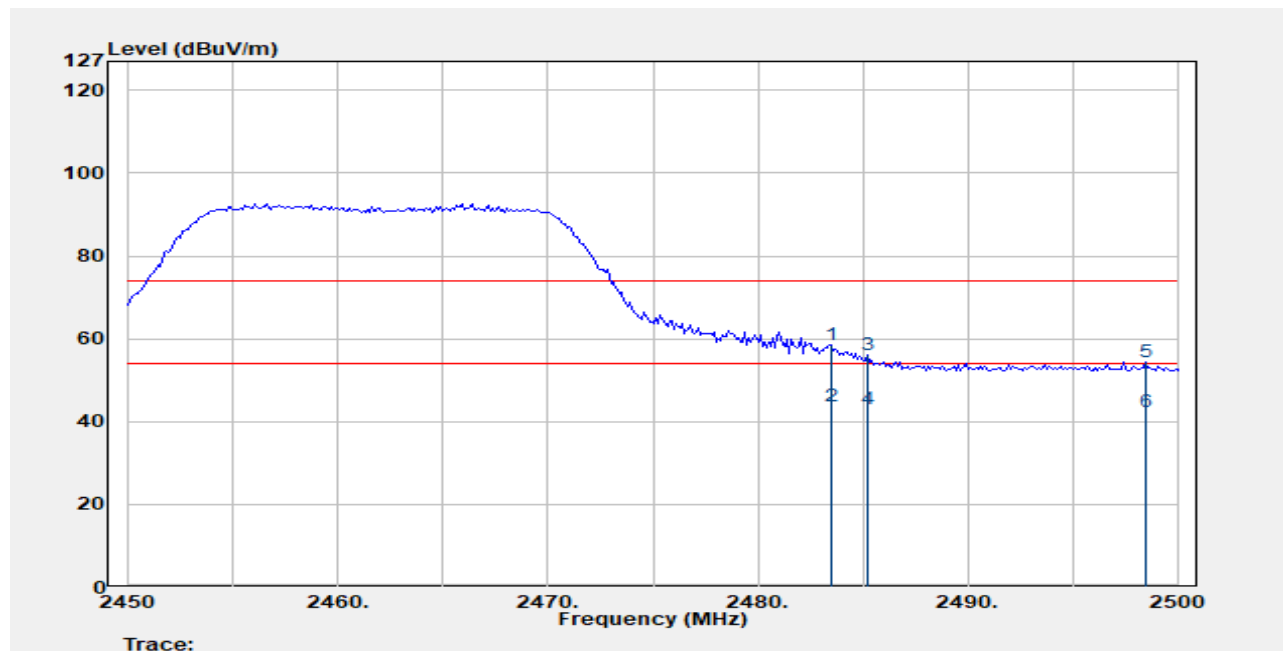
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	57.95	0.67	58.62	74.00	-15.38
2483.500	Average	43.06	0.67	43.73	54.00	-10.27
2485.200	Peak	55.50	0.66	56.17	74.00	-17.83
2485.200	Average	42.53	0.66	43.19	54.00	-10.81
2498.500	Peak	53.67	0.61	54.28	74.00	-19.72
2498.500	Average	41.72	0.61	42.33	54.00	-11.67

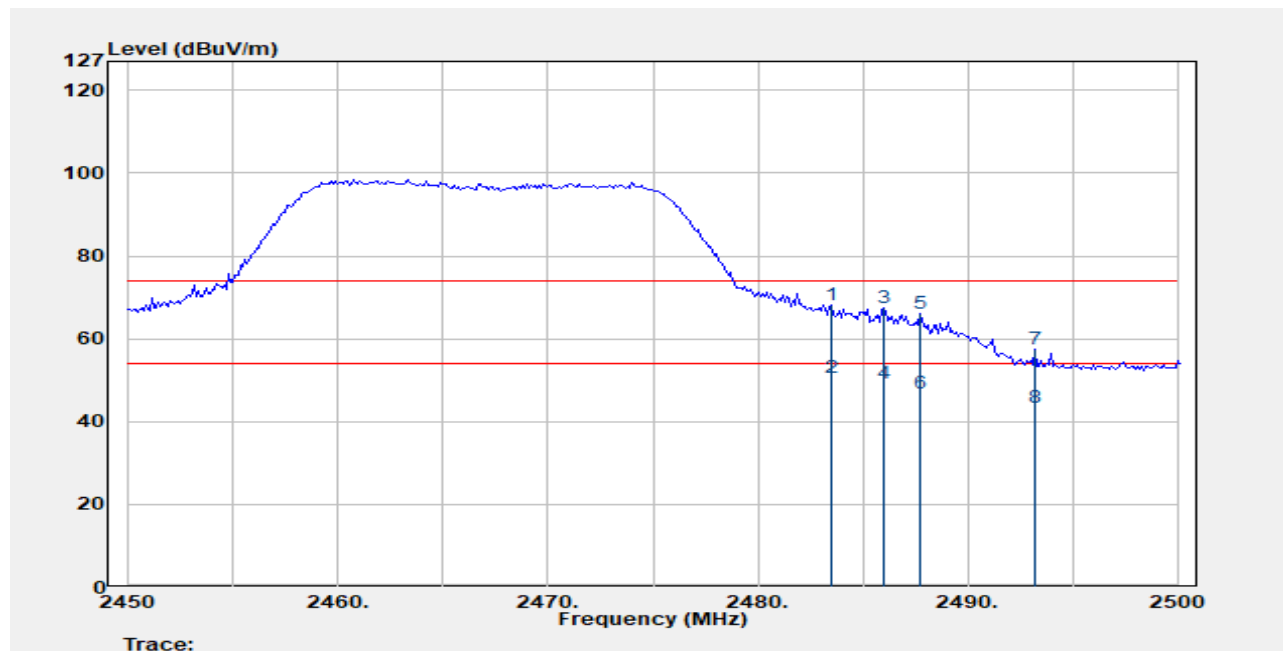
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2467 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	67.55	0.67	68.22	74.00	-5.78
2483.500	Average	49.97	0.67	50.64	54.00	-3.36
2486.000	Peak	66.90	0.66	67.56	74.00	-6.44
2486.000	Average	48.66	0.66	49.32	54.00	-4.68
2487.700	Peak	65.49	0.65	66.14	74.00	-7.86
2487.700	Average	46.29	0.65	46.94	54.00	-7.06
2493.200	Peak	56.95	0.63	57.58	74.00	-16.42
2493.200	Average	42.62	0.63	43.25	54.00	-10.75

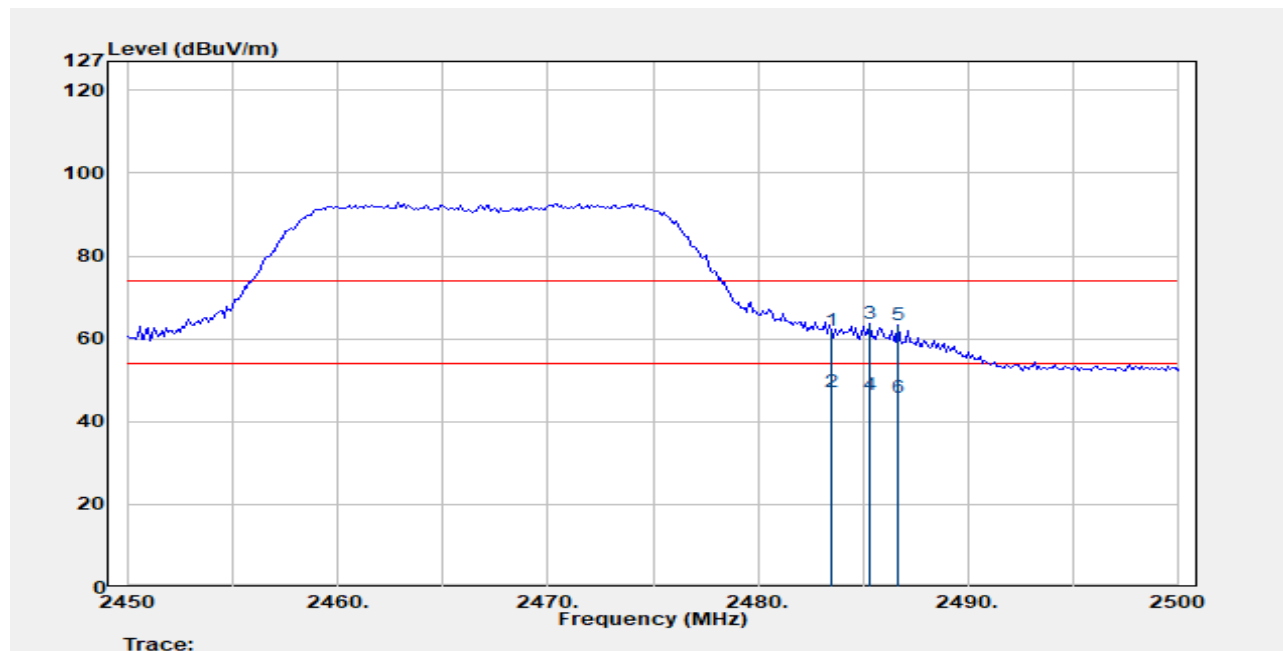
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2467 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-03  
 Temp./Humi. :22.3/46  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	61.29	0.67	61.96	74.00	-12.04
2483.500	Average	46.61	0.67	47.28	54.00	-6.72
2485.300	Peak	63.07	0.66	63.73	74.00	-10.27
2485.300	Average	45.64	0.66	46.30	54.00	-7.70
2486.700	Peak	62.74	0.66	63.40	74.00	-10.60
2486.700	Average	45.08	0.66	45.74	54.00	-8.26

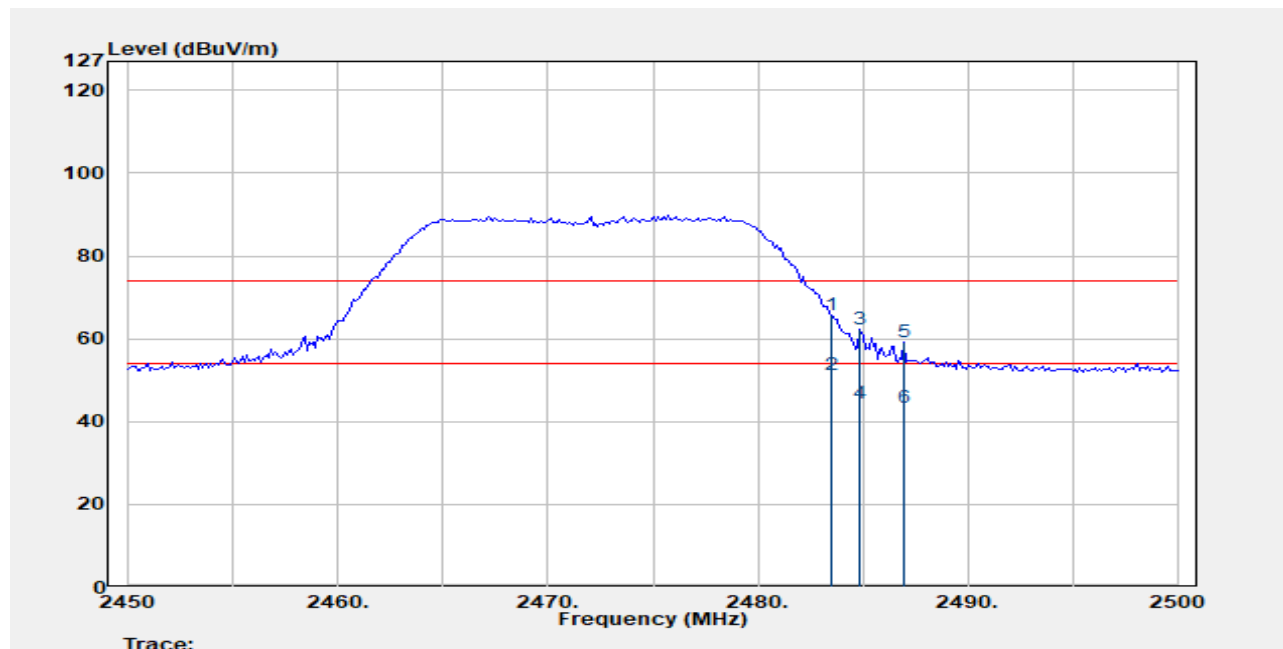
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2472 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-07  
 Temp./Humi. :23.6/58  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	65.17	0.67	65.84	74.00	-8.16
2483.500	Average	50.68	0.67	51.35	54.00	-2.65
2484.900	Peak	61.54	0.66	62.20	74.00	-11.80
2484.900	Average	43.85	0.66	44.51	54.00	-9.49
2487.000	Peak	58.54	0.66	59.20	74.00	-14.80
2487.000	Average	42.87	0.66	43.53	54.00	-10.47

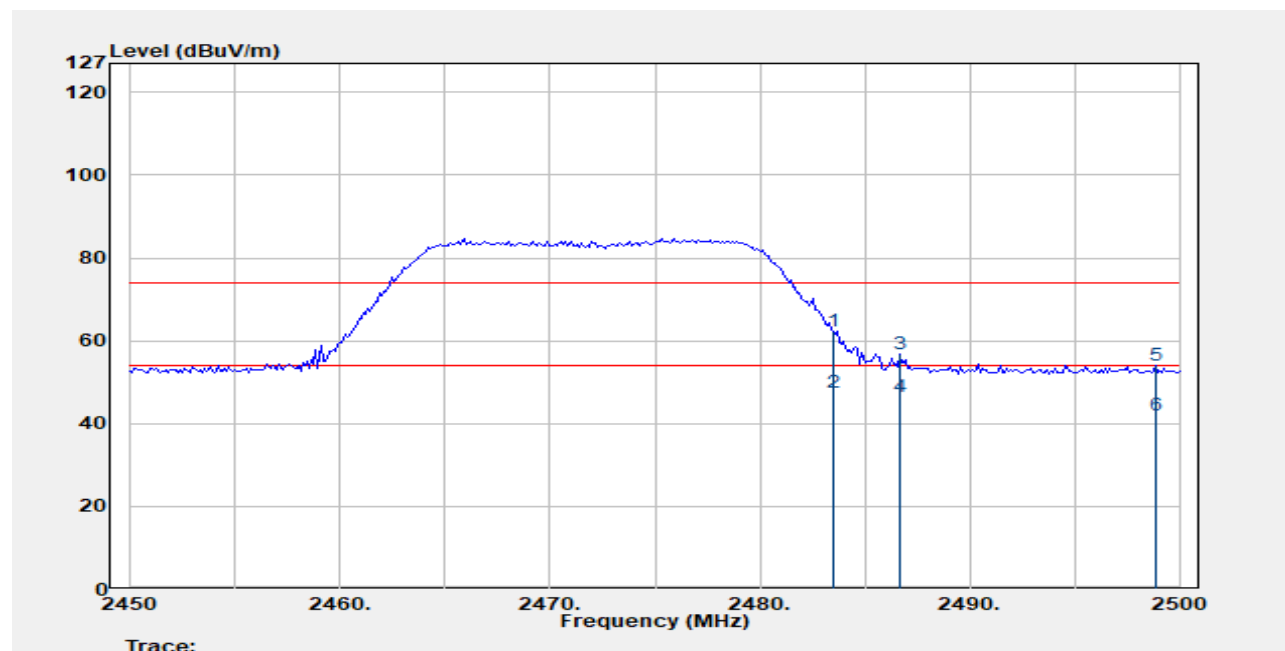
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2472 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-07  
 Temp./Humi. :23.6/58  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	61.75	0.67	62.42	74.00	-11.58
2483.500	Average	46.79	0.67	47.46	54.00	-6.54
2486.700	Peak	56.09	0.66	56.74	74.00	-17.26
2486.700	Average	45.76	0.66	46.42	54.00	-7.58
2498.900	Peak	53.49	0.61	54.10	74.00	-19.90
2498.900	Average	41.33	0.61	41.94	54.00	-12.06

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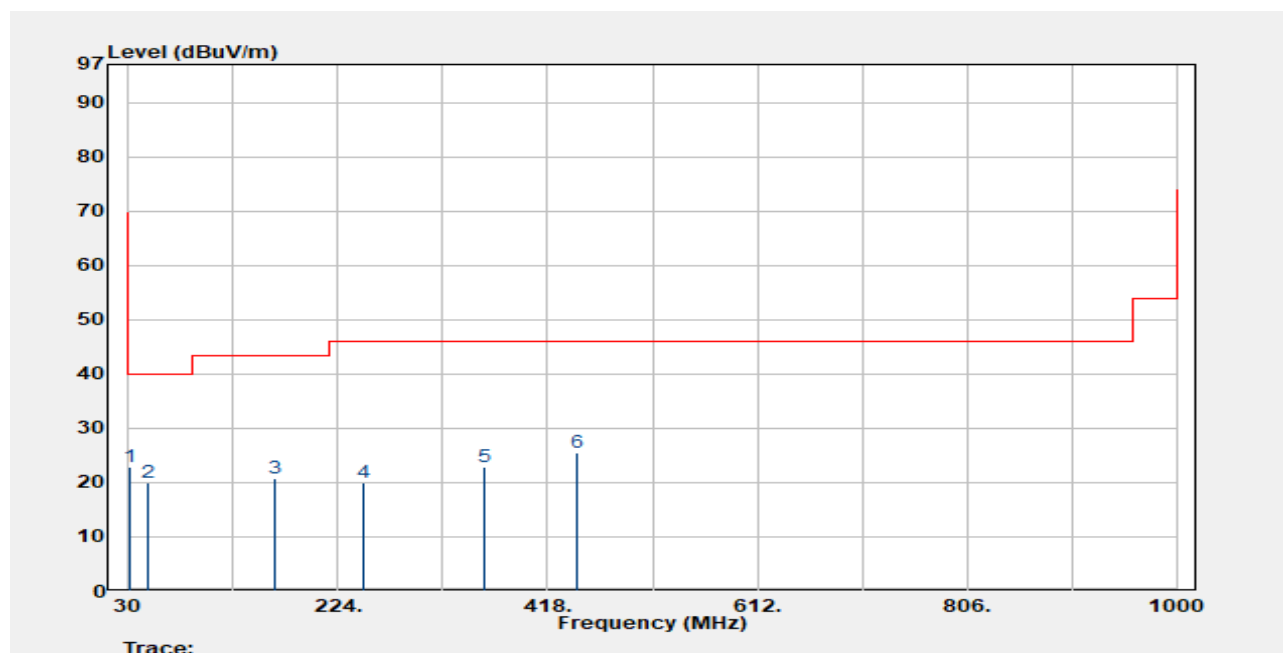
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## 12.6.2 Spurious Emission:

Report Number :ER-2021-B0046  
Operation Mode :802.11g  
Test Frequency :2437 MHz  
Test Mode :Tx CH Mid  
EUT Pol :H Plane

Test Site :SAC 3  
Test Date :2021-12-06  
Temp./Humi. :22.4/50  
Antenna Pol. :Vertical  
Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
30.970	Peak	32.10	-9.09	23.00	40.00	-17.00
48.430	Peak	28.16	-8.12	20.04	40.00	-19.96
165.800	Peak	28.15	-7.50	20.65	43.50	-22.85
247.280	Peak	27.85	-7.96	19.88	46.00	-26.12
358.830	Peak	27.77	-4.91	22.86	46.00	-23.14
445.160	Peak	28.08	-2.57	25.52	46.00	-20.48

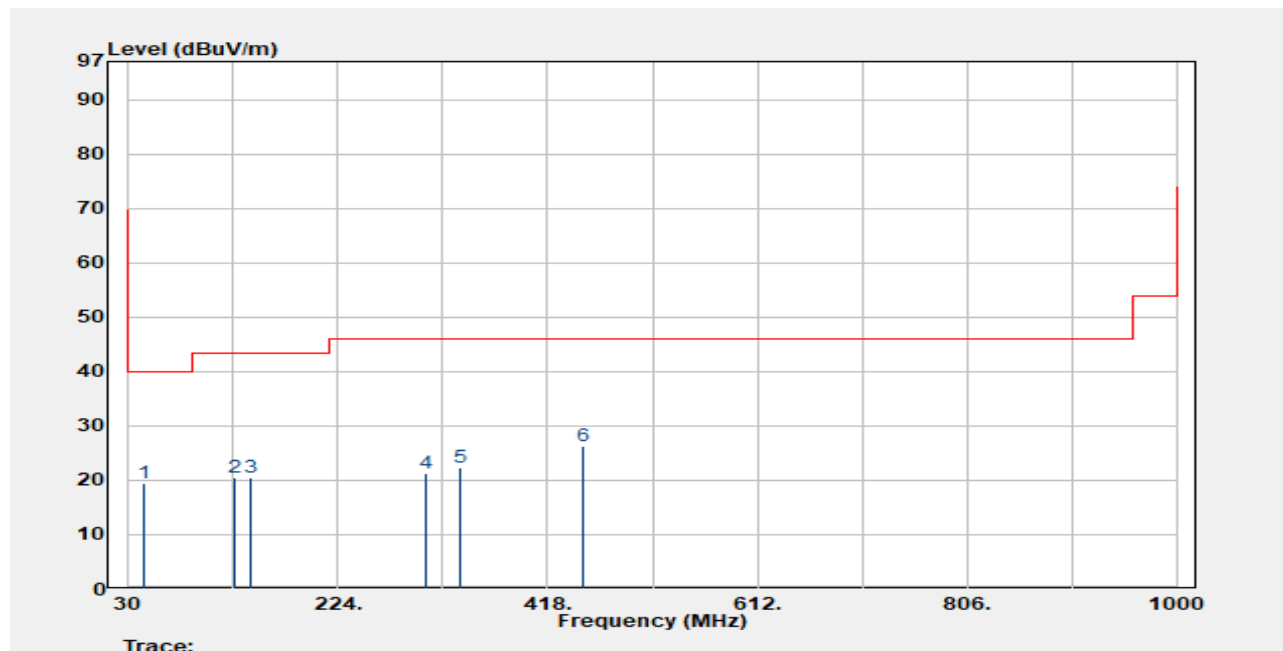
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Report Number :ER-2021-B0046  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
43.580	Peak	27.60	-8.14	19.46	40.00	-20.54
128.940	Peak	29.20	-8.75	20.45	43.50	-23.05
143.490	Peak	27.93	-7.50	20.43	43.50	-23.07
304.510	Peak	27.30	-6.01	21.29	46.00	-24.71
336.520	Peak	27.34	-5.00	22.34	46.00	-23.66
450.980	Peak	28.94	-2.53	26.40	46.00	-19.60

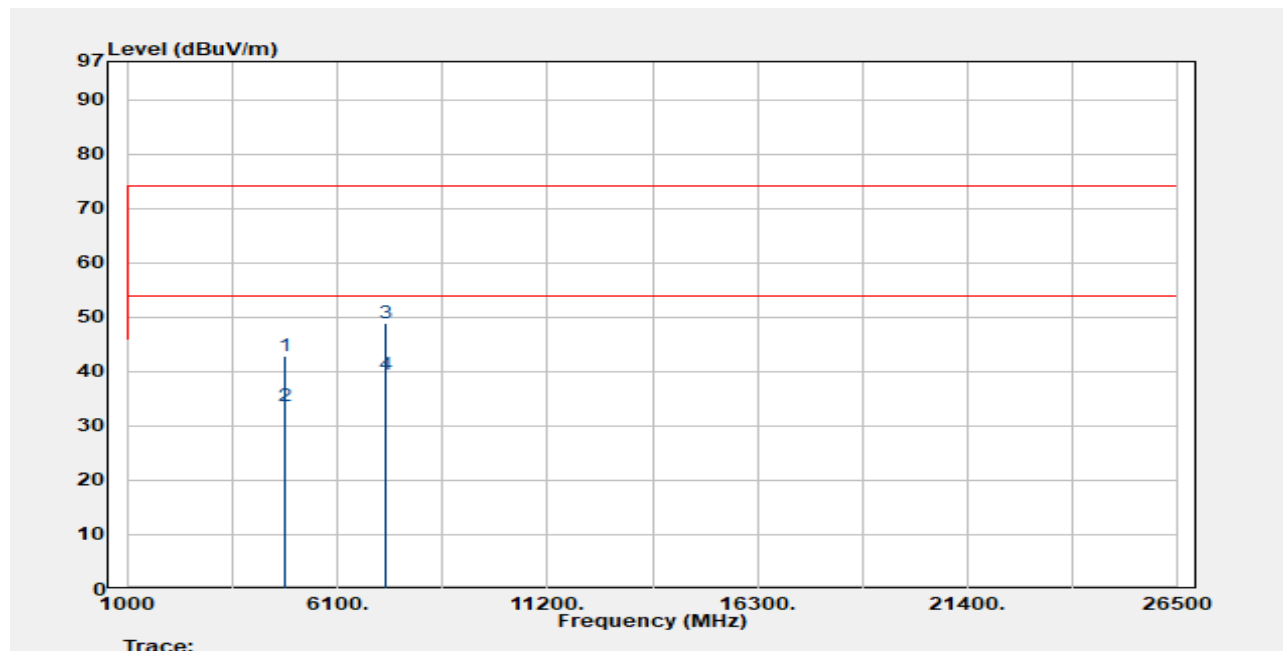
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Report Number :ER-2021-B0046  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	35.65	7.13	42.78	74.00	-31.22
4824.000	Average	26.50	7.13	33.63	54.00	-20.37
7236.000	Peak	34.62	14.33	48.95	74.00	-25.05
7236.000	Average	25.06	14.33	39.39	54.00	-14.61

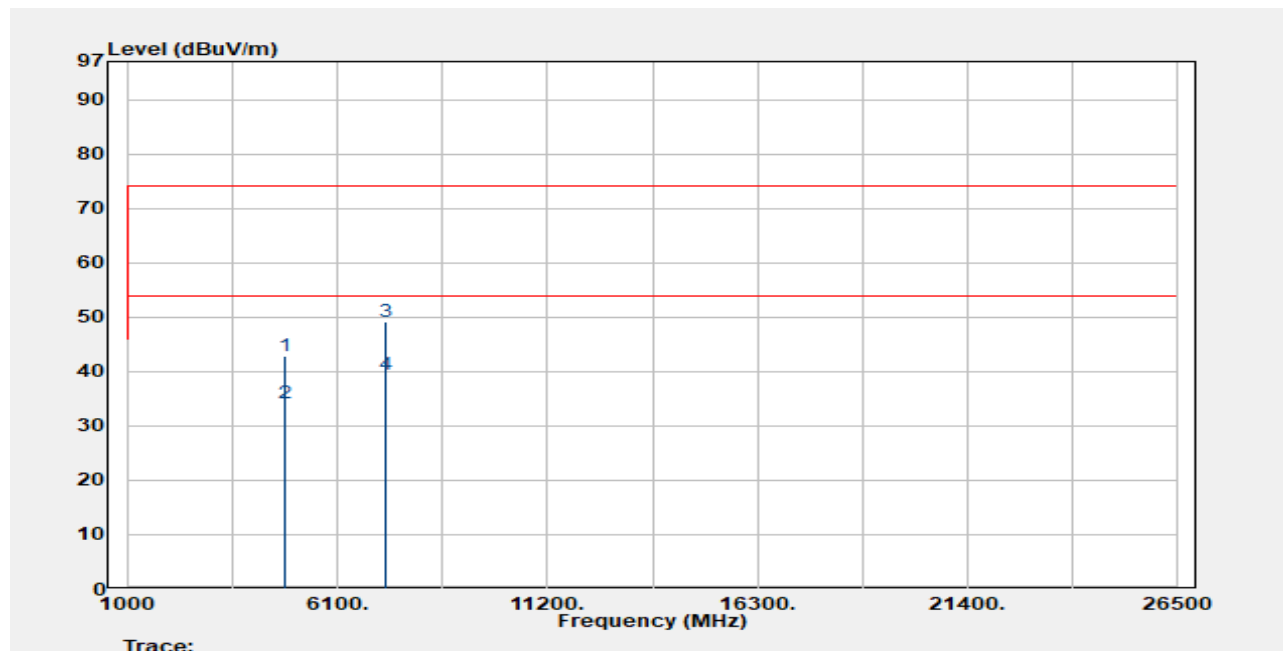
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Report Number :ER-2021-B0046  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	35.63	7.13	42.77	74.00	-31.23
4824.000	Average	27.14	7.13	34.27	54.00	-19.73
7236.000	Peak	34.71	14.33	49.04	74.00	-24.96
7236.000	Average	24.97	14.33	39.30	54.00	-14.70

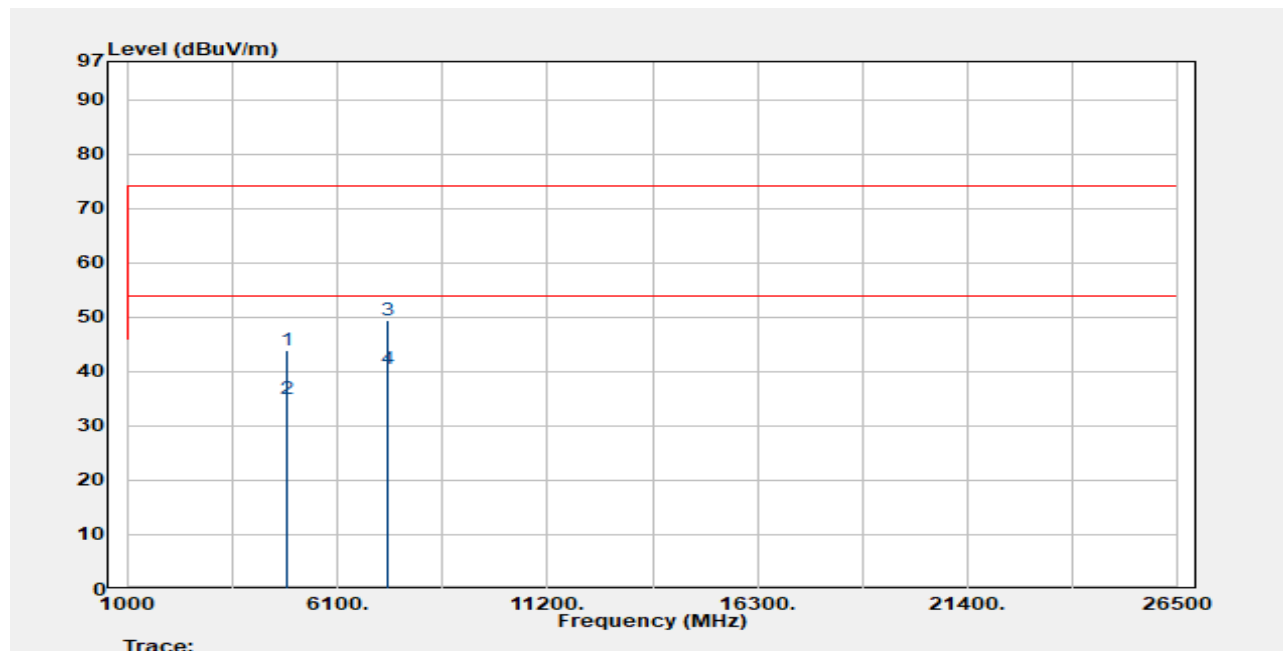
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Report Number :ER-2021-B0046  
 Operation Mode :802.11b  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	36.31	7.51	43.82	74.00	-30.18
4874.000	Average	27.46	7.51	34.97	54.00	-19.03
7311.000	Peak	33.98	15.41	49.38	74.00	-24.62
7311.000	Average	25.02	15.41	40.43	54.00	-13.57

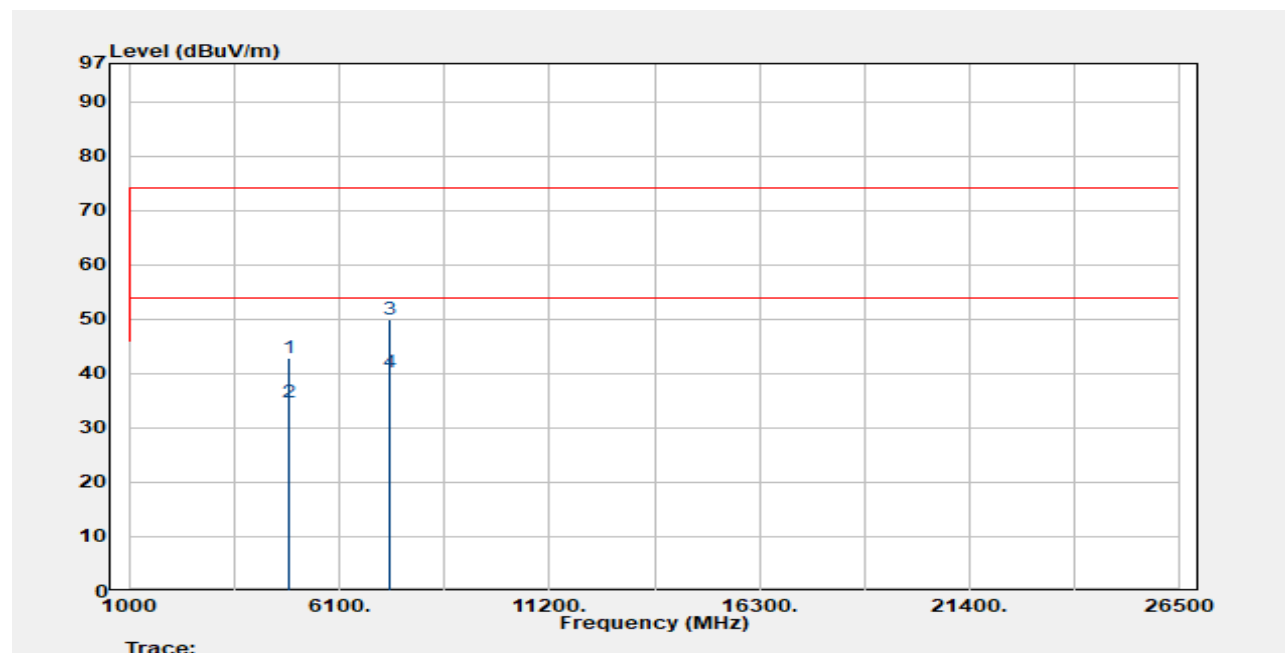
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Report Number :ER-2021-B0046  
 Operation Mode :802.11b  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	35.24	7.51	42.75	74.00	-31.25
4874.000	Average	27.28	7.51	34.79	54.00	-19.21
7311.000	Peak	34.56	15.41	49.97	74.00	-24.03
7311.000	Average	24.92	15.41	40.33	54.00	-13.67

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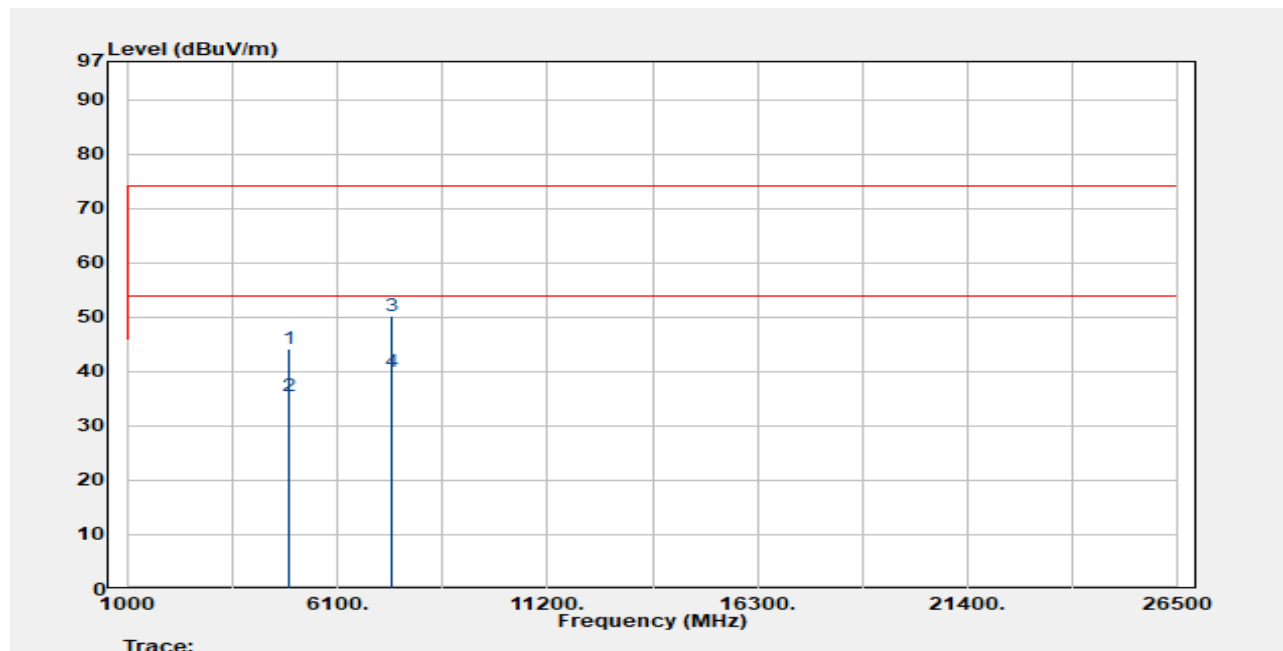
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Report Number :ER-2021-B0046  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Peak	36.32	7.84	44.16	74.00	-29.84
4924.000	Average	27.70	7.84	35.54	54.00	-18.46
7386.000	Peak	35.45	14.75	50.20	74.00	-23.80
7386.000	Average	25.30	14.75	40.05	54.00	-13.95

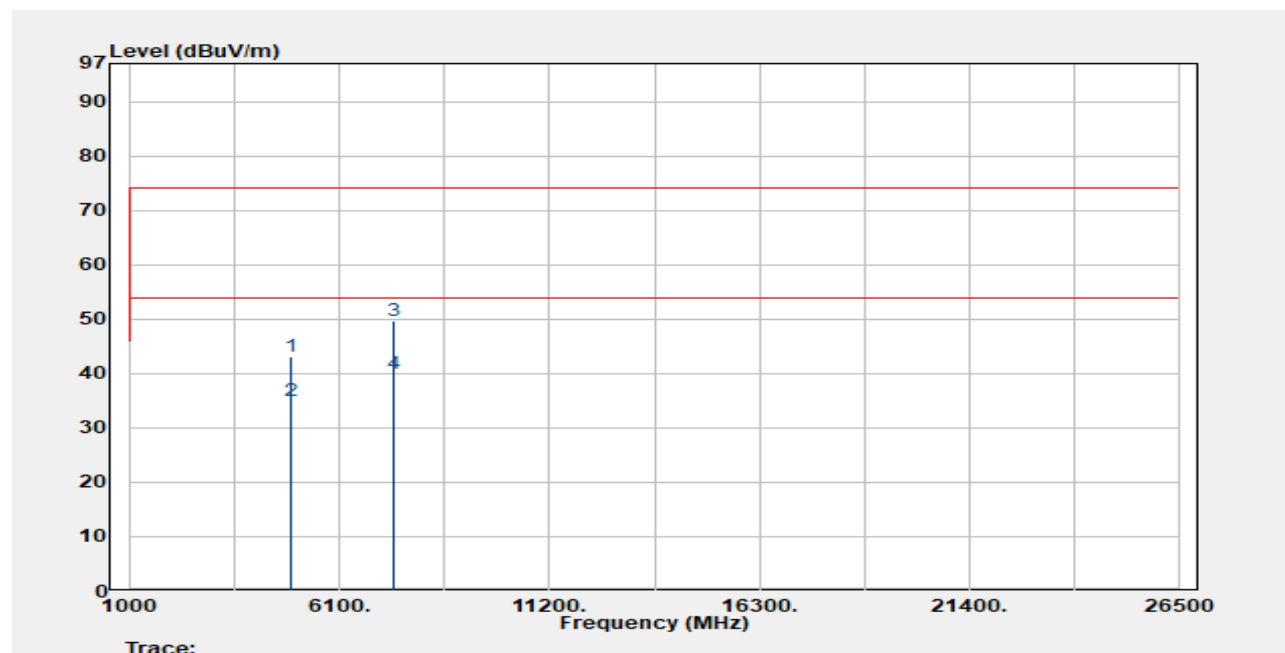
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Report Number :ER-2021-B0046  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Peak	35.28	7.84	43.12	74.00	-30.88
4924.000	Average	27.10	7.84	34.94	54.00	-19.06
7386.000	Peak	34.87	14.75	49.62	74.00	-24.38
7386.000	Average	25.32	14.75	40.07	54.00	-13.93

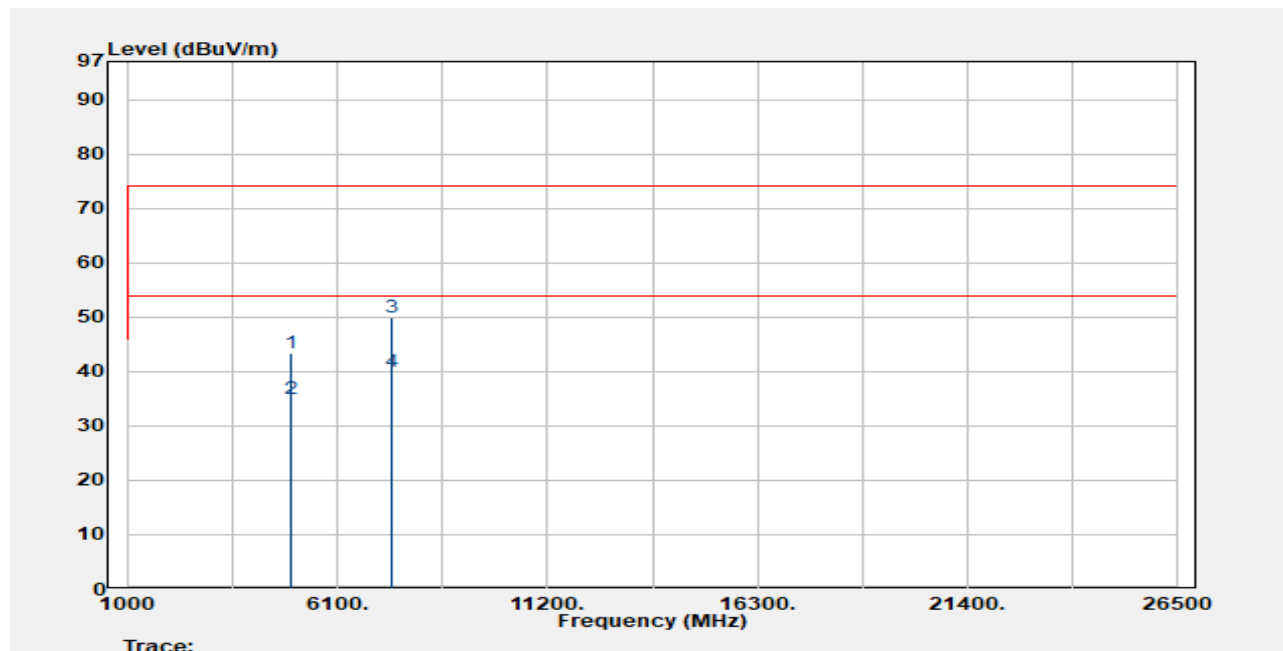
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Report Number :ER-2021-B0046  
Operation Mode :802.11b  
Test Frequency :2467 MHz  
Test Mode :Tx CH High  
EUT Pol :H Plane

Test Site :SAC 3  
Test Date :2021-12-06  
Temp./Humi. :22.4/50  
Antenna Pol. :Vertical  
Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.000	Peak	35.58	7.80	43.38	74.00	-30.62
4934.000	Average	27.23	7.80	35.03	54.00	-18.97
7401.000	Peak	35.16	14.67	49.83	74.00	-24.17
7401.000	Average	25.35	14.67	40.02	54.00	-13.98

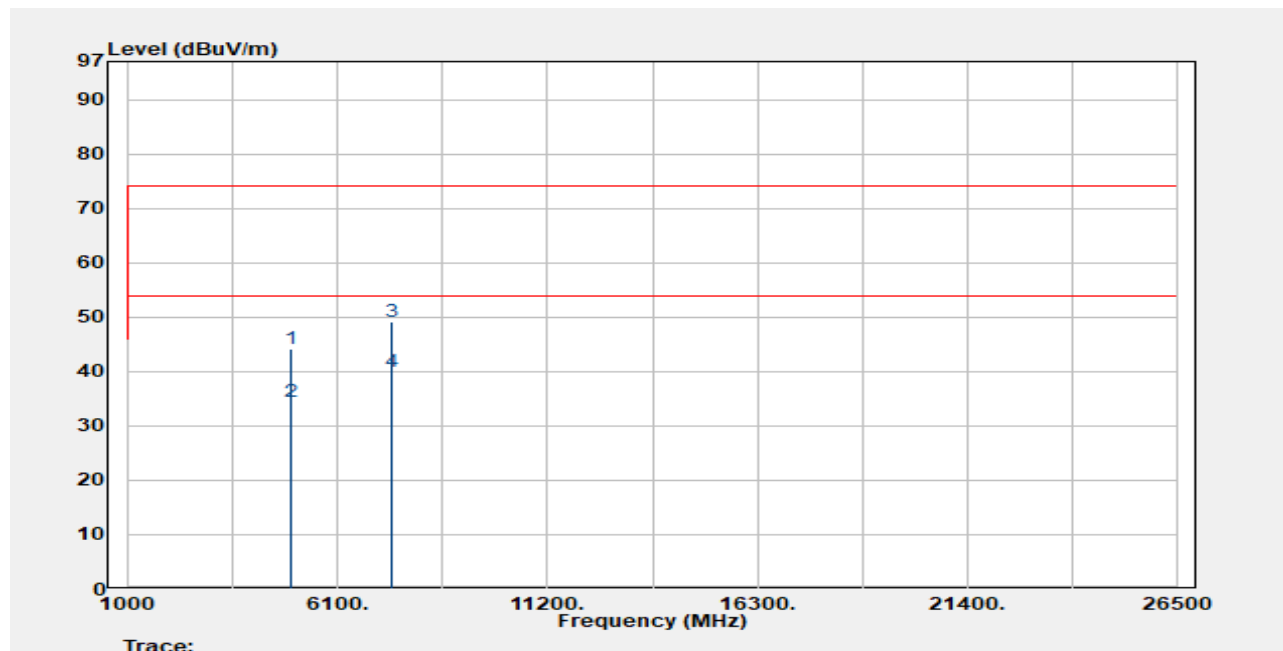
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Report Number :ER-2021-B0046  
 Operation Mode :802.11b  
 Test Frequency :2467 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.000	Peak	36.47	7.80	44.27	74.00	-29.73
4934.000	Average	26.75	7.80	34.55	54.00	-19.45
7401.000	Peak	34.48	14.67	49.15	74.00	-24.85
7401.000	Average	25.32	14.67	39.99	54.00	-14.01

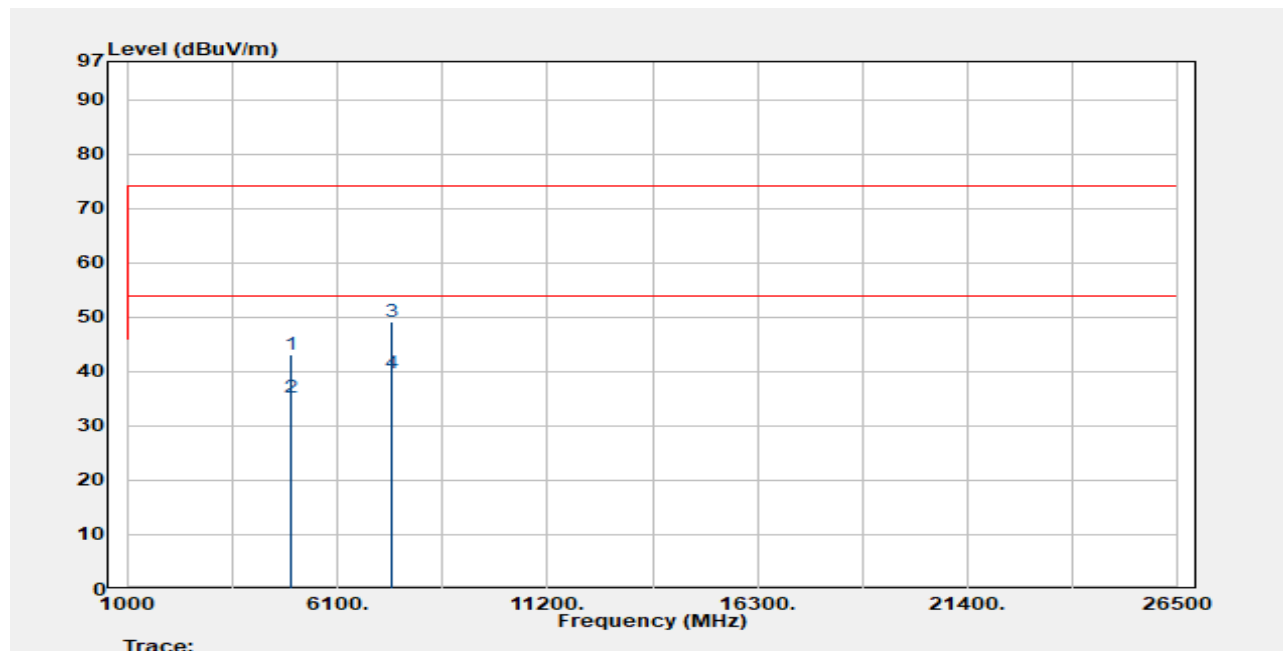
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Report Number :ER-2021-B0046  
 Operation Mode :802.11b  
 Test Frequency :2472 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.000	Peak	35.29	7.76	43.05	74.00	-30.95
4944.000	Average	27.44	7.76	35.20	54.00	-18.80
7416.000	Peak	34.58	14.65	49.23	74.00	-24.77
7416.000	Average	25.13	14.65	39.78	54.00	-14.22

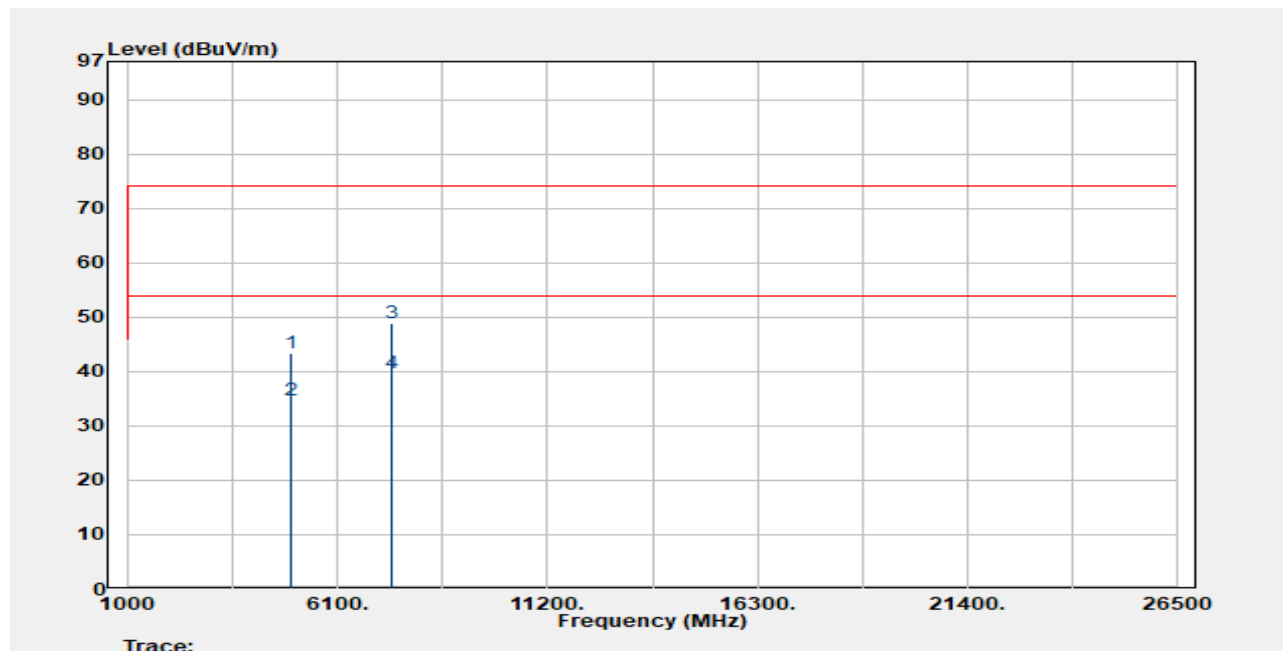
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Report Number :ER-2021-B0046  
Operation Mode :802.11b  
Test Frequency :2472 MHz  
Test Mode :Tx CH High  
EUT Pol :H Plane

Test Site :SAC 3  
Test Date :2021-12-06  
Temp./Humi. :22.4/50  
Antenna Pol. :Horizontal  
Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4944.000	Peak	35.59	7.76	43.35	74.00	-30.65
4944.000	Average	26.81	7.76	34.57	54.00	-19.43
7416.000	Peak	34.24	14.65	48.89	74.00	-25.11
7416.000	Average	25.12	14.65	39.77	54.00	-14.23

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.

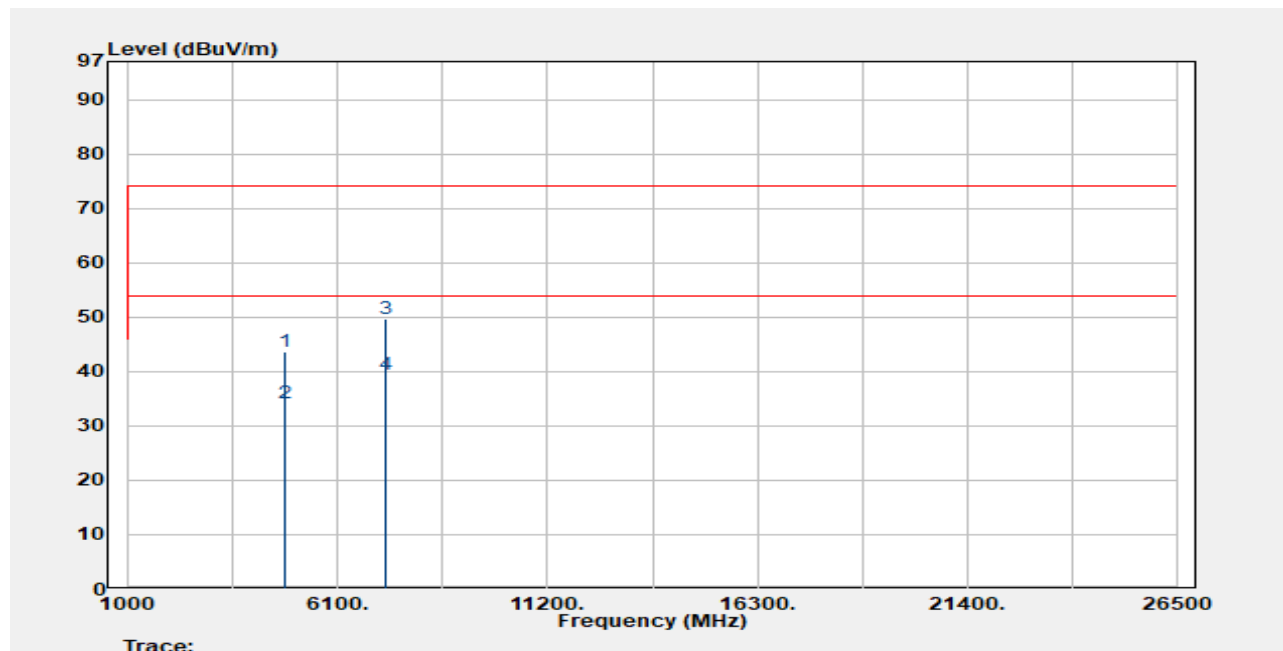
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Report Number :ER-2021-B0046  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	36.38	7.13	43.52	74.00	-30.48
4824.000	Average	27.09	7.13	34.22	54.00	-19.78
7236.000	Peak	35.27	14.33	49.60	74.00	-24.40
7236.000	Average	25.23	14.33	39.56	54.00	-14.44

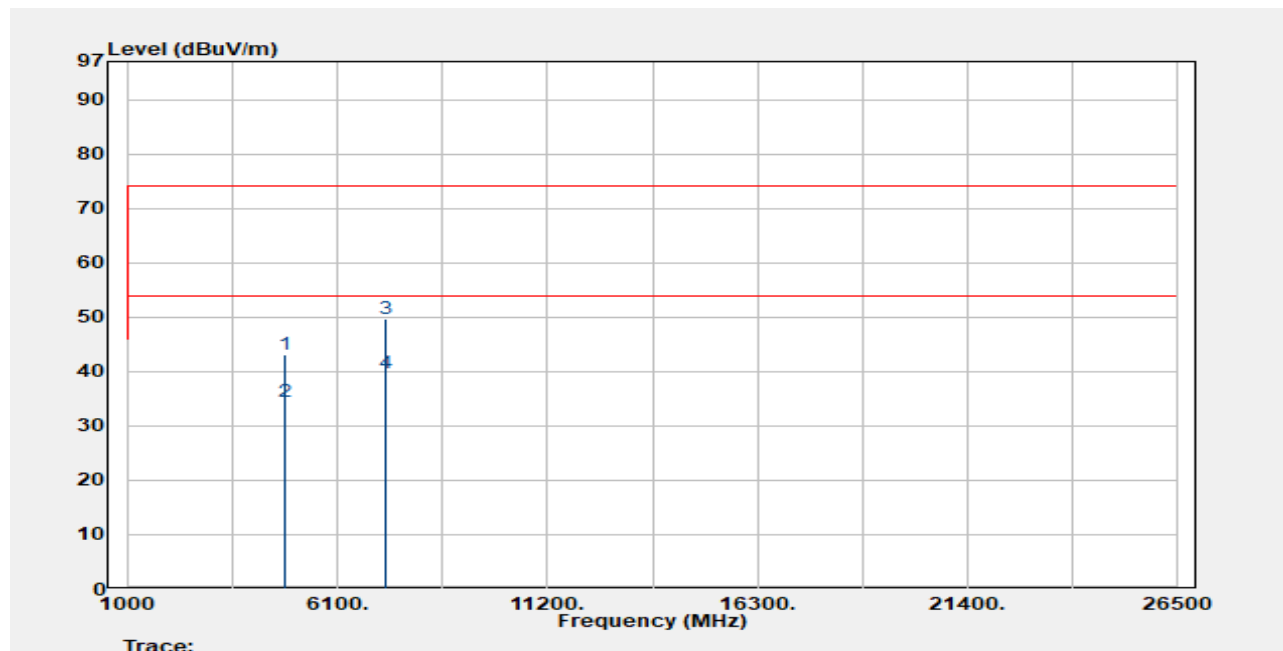
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Report Number :ER-2021-B0046  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	36.08	7.13	43.22	74.00	-30.78
4824.000	Average	27.19	7.13	34.32	54.00	-19.68
7236.000	Peak	35.34	14.33	49.67	74.00	-24.33
7236.000	Average	25.37	14.33	39.70	54.00	-14.30

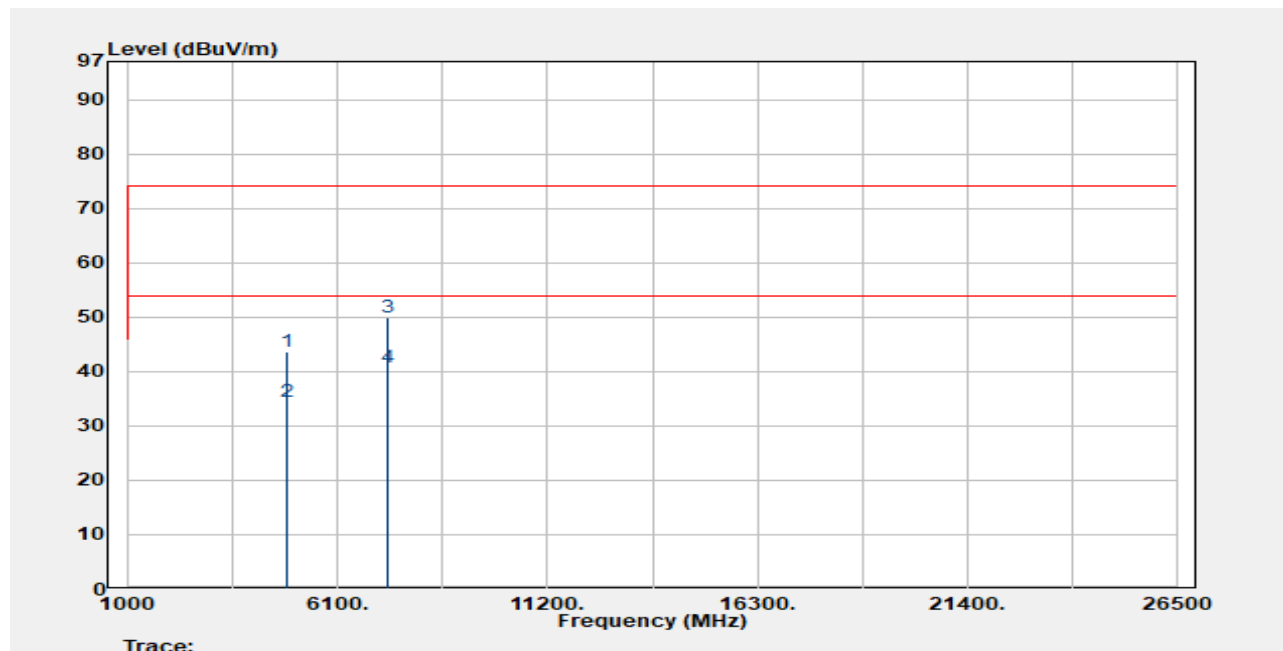
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Report Number :ER-2021-B0046  
Operation Mode :802.11g  
Test Frequency :2437 MHz  
Test Mode :Tx CH Mid  
EUT Pol :H Plane

Test Site :SAC 3  
Test Date :2021-12-06  
Temp./Humi. :22.4/50  
Antenna Pol. :Vertical  
Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	36.18	7.51	43.70	74.00	-30.30
4874.000	Average	27.03	7.51	34.54	54.00	-19.46
7311.000	Peak	34.61	15.41	50.01	74.00	-23.99
7311.000	Average	25.31	15.41	40.72	54.00	-13.28

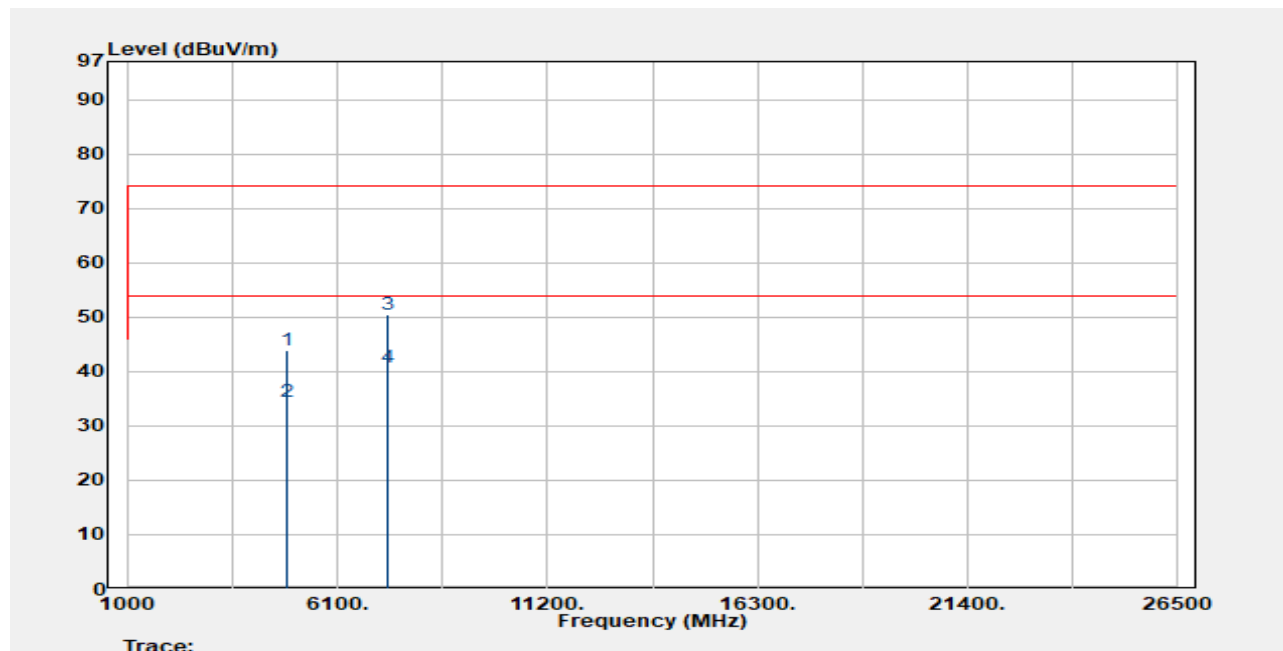
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Report Number :ER-2021-B0046  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	36.47	7.51	43.98	74.00	-30.02
4874.000	Average	26.99	7.51	34.50	54.00	-19.50
7311.000	Peak	34.98	15.41	50.39	74.00	-23.61
7311.000	Average	25.37	15.41	40.78	54.00	-13.22

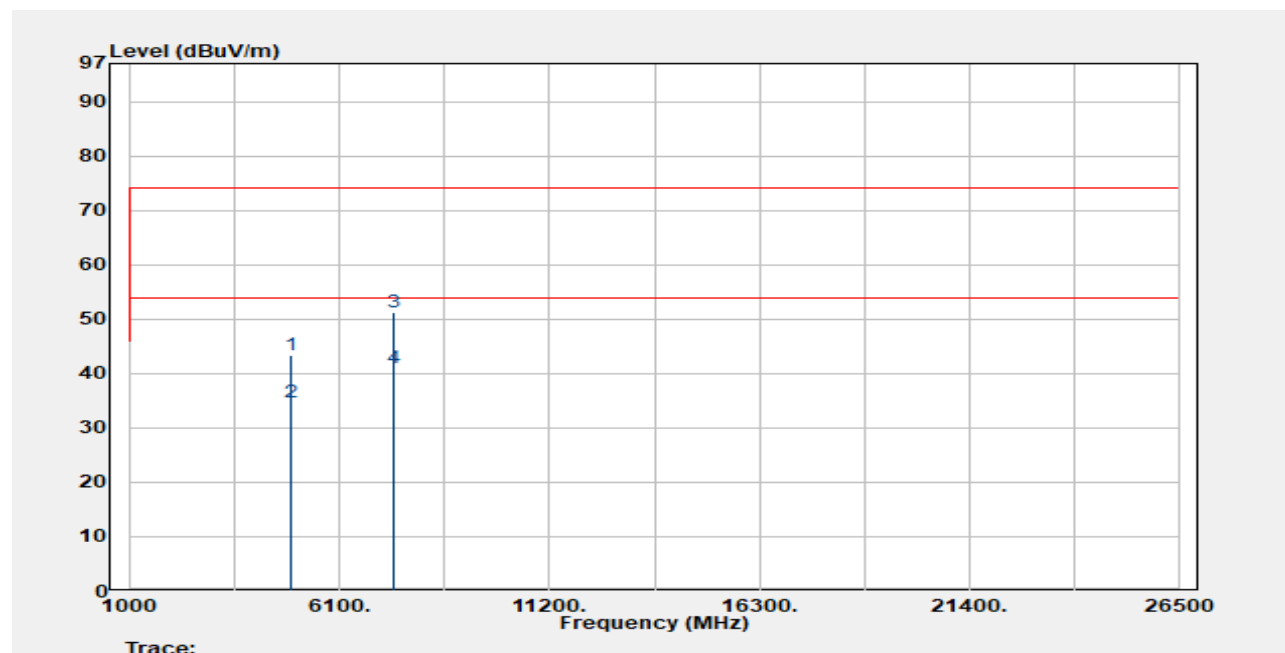
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Report Number :ER-2021-B0046  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Peak	35.56	7.84	43.40	74.00	-30.60
4924.000	Average	26.95	7.84	34.79	54.00	-19.21
7386.000	Peak	36.42	14.75	51.18	74.00	-22.82
7386.000	Average	26.15	14.75	40.90	54.00	-13.10

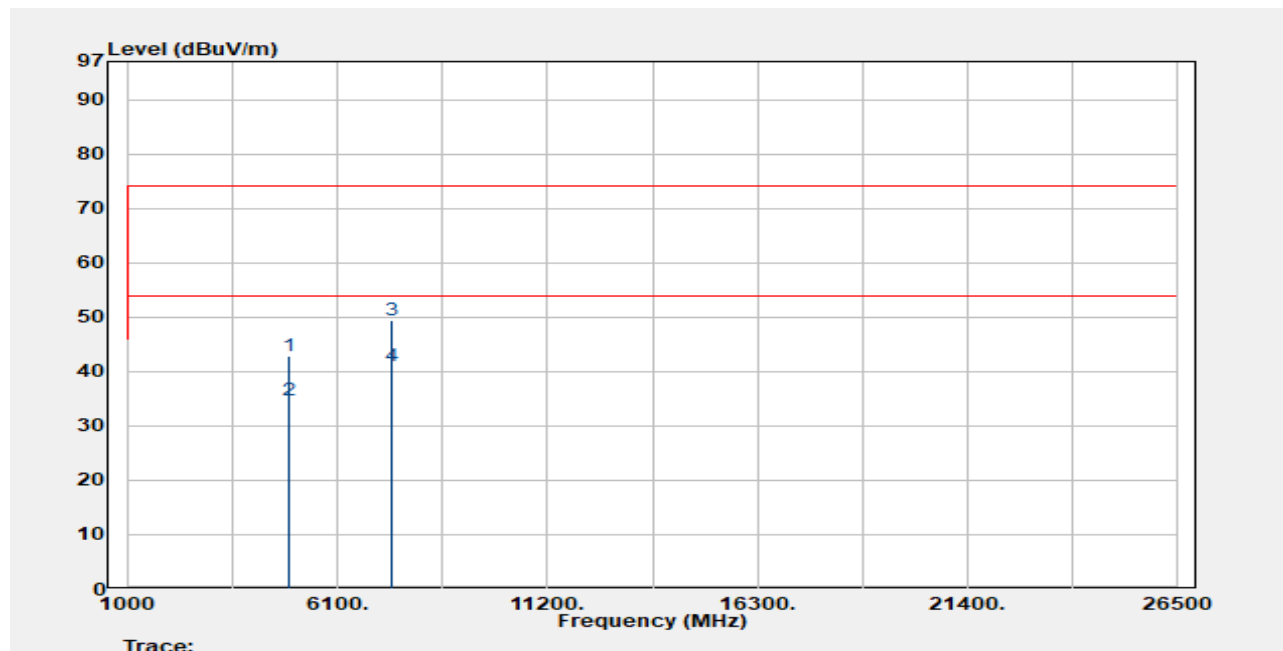
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Report Number :ER-2021-B0046  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Peak	34.98	7.84	42.82	74.00	-31.18
4924.000	Average	26.97	7.84	34.81	54.00	-19.19
7386.000	Peak	34.75	14.75	49.50	74.00	-24.50
7386.000	Average	26.13	14.75	40.88	54.00	-13.12

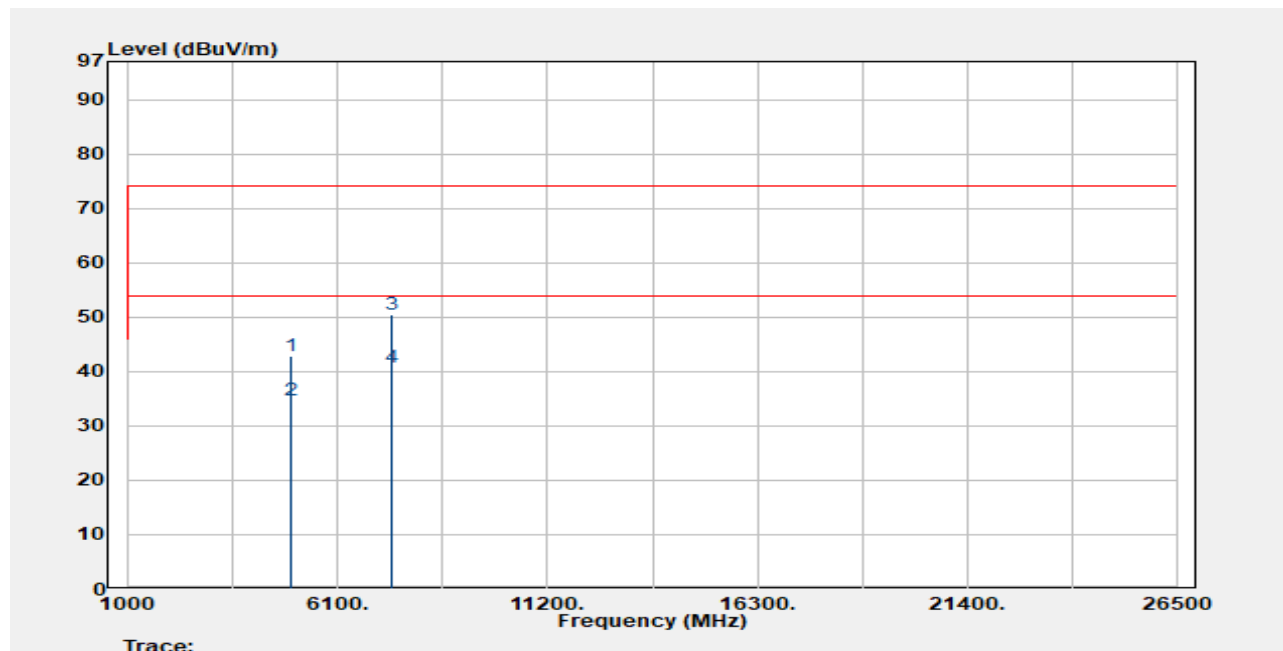
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Report Number :ER-2021-B0046  
 Operation Mode :802.11g  
 Test Frequency :2467 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.000	Peak	35.06	7.80	42.86	74.00	-31.14
4934.000	Average	26.79	7.80	34.59	54.00	-19.41
7401.000	Peak	35.84	14.67	50.51	74.00	-23.49
7401.000	Average	26.16	14.67	40.83	54.00	-13.17

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.

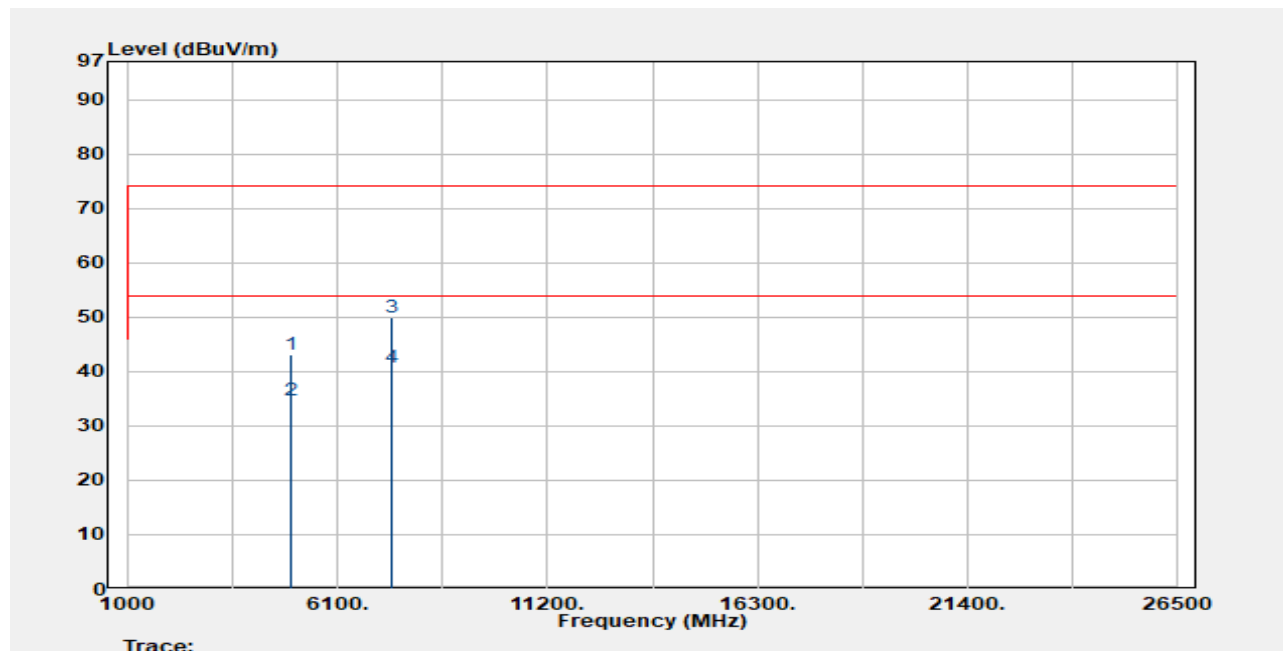
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Report Number :ER-2021-B0046  
 Operation Mode :802.11g  
 Test Frequency :2467 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.000	Peak	35.33	7.80	43.13	74.00	-30.87
4934.000	Average	26.82	7.80	34.62	54.00	-19.38
7401.000	Peak	35.35	14.67	50.02	74.00	-23.98
7401.000	Average	26.03	14.67	40.70	54.00	-13.30

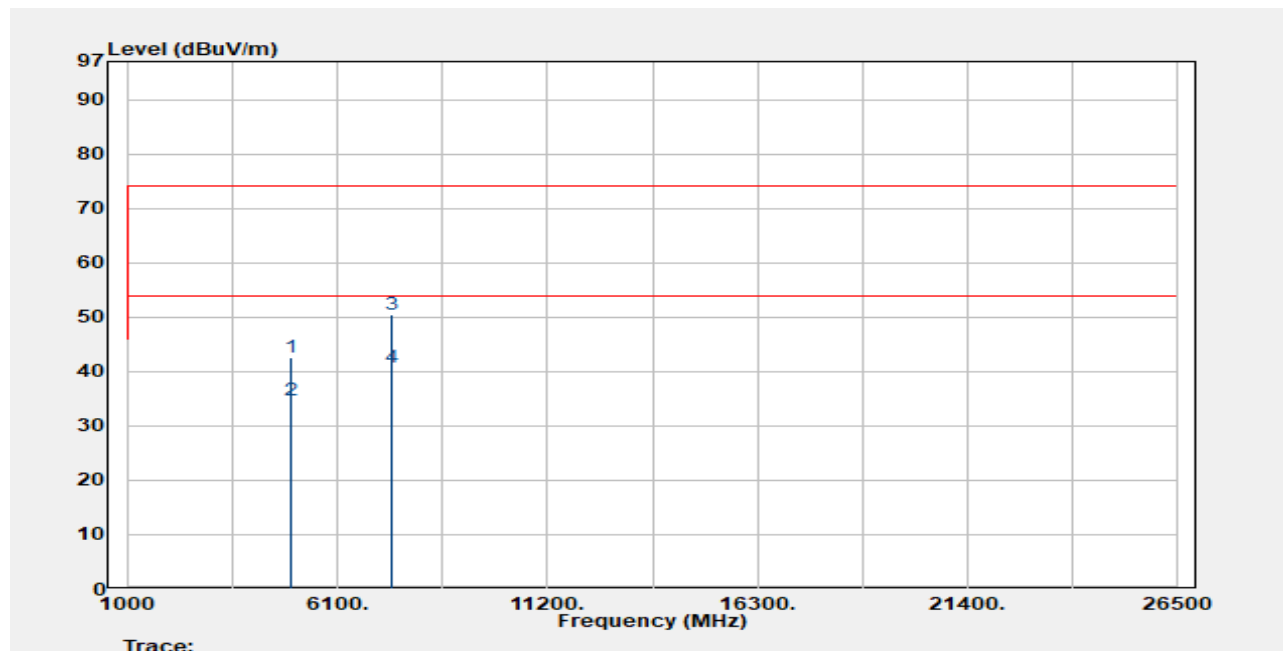
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Report Number :ER-2021-B0046  
Operation Mode :802.11g  
Test Frequency :2472 MHz  
Test Mode :Tx CH High  
EUT Pol :H Plane

Test Site :SAC 3  
Test Date :2021-12-06  
Temp./Humi. :22.4/50  
Antenna Pol. :Vertical  
Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.000	Peak	34.90	7.76	42.66	74.00	-31.34
4944.000	Average	26.86	7.76	34.62	54.00	-19.38
7416.000	Peak	35.74	14.65	50.38	74.00	-23.62
7416.000	Average	26.08	14.65	40.73	54.00	-13.27

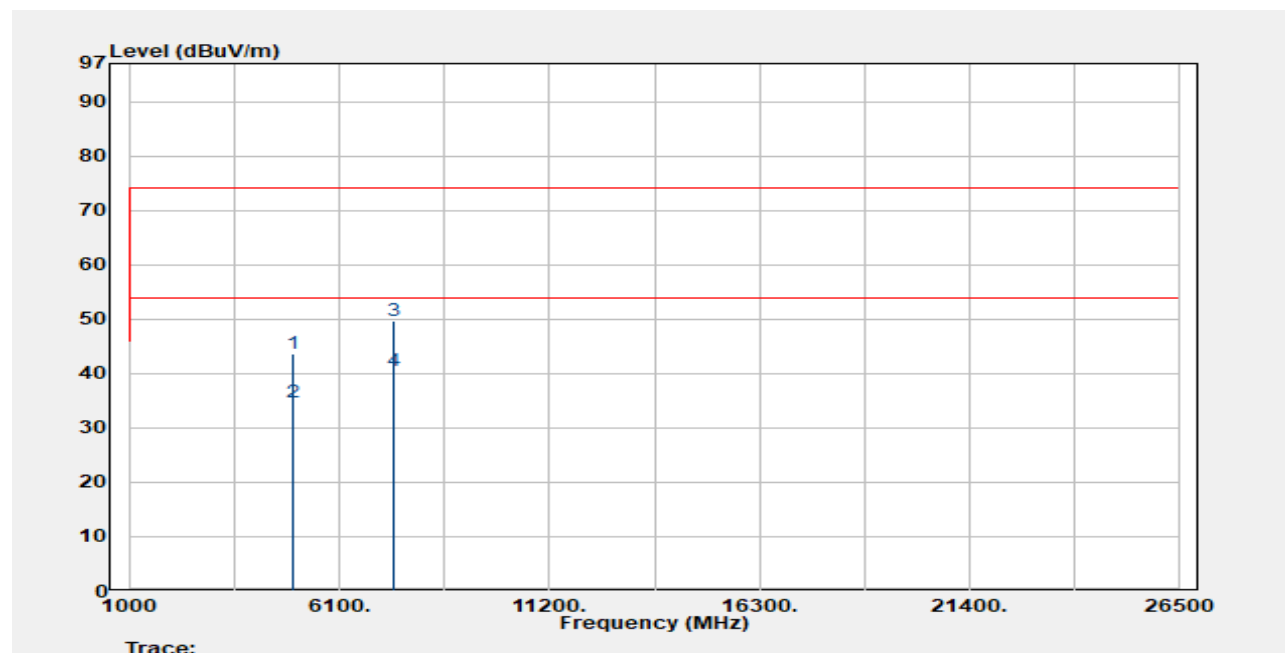
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Report Number :ER-2021-B0046  
 Operation Mode :802.11g  
 Test Frequency :2472 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.000	Peak	35.91	7.76	43.67	74.00	-30.33
4944.000	Average	26.92	7.76	34.68	54.00	-19.32
7416.000	Peak	35.10	14.65	49.74	74.00	-24.26
7416.000	Average	25.96	14.65	40.61	54.00	-13.39

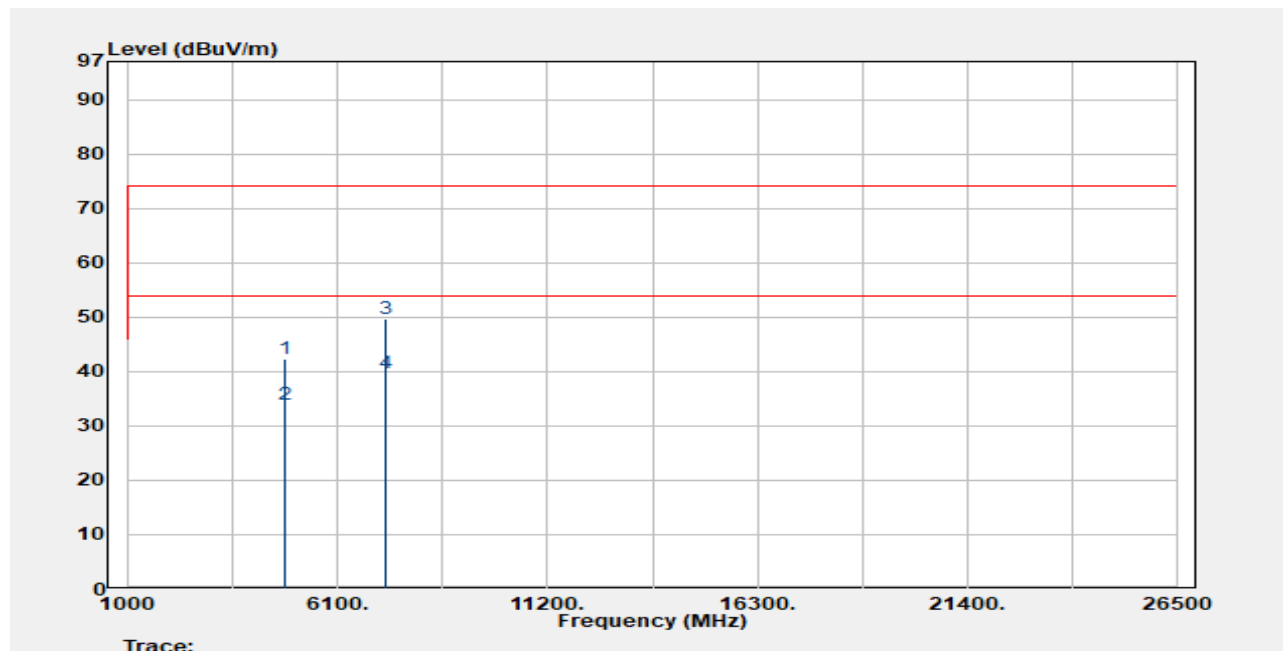
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	35.31	7.13	42.44	74.00	-31.56
4824.000	Average	26.87	7.13	34.00	54.00	-20.00
7236.000	Peak	35.33	14.33	49.66	74.00	-24.34
7236.000	Average	25.29	14.33	39.62	54.00	-14.38

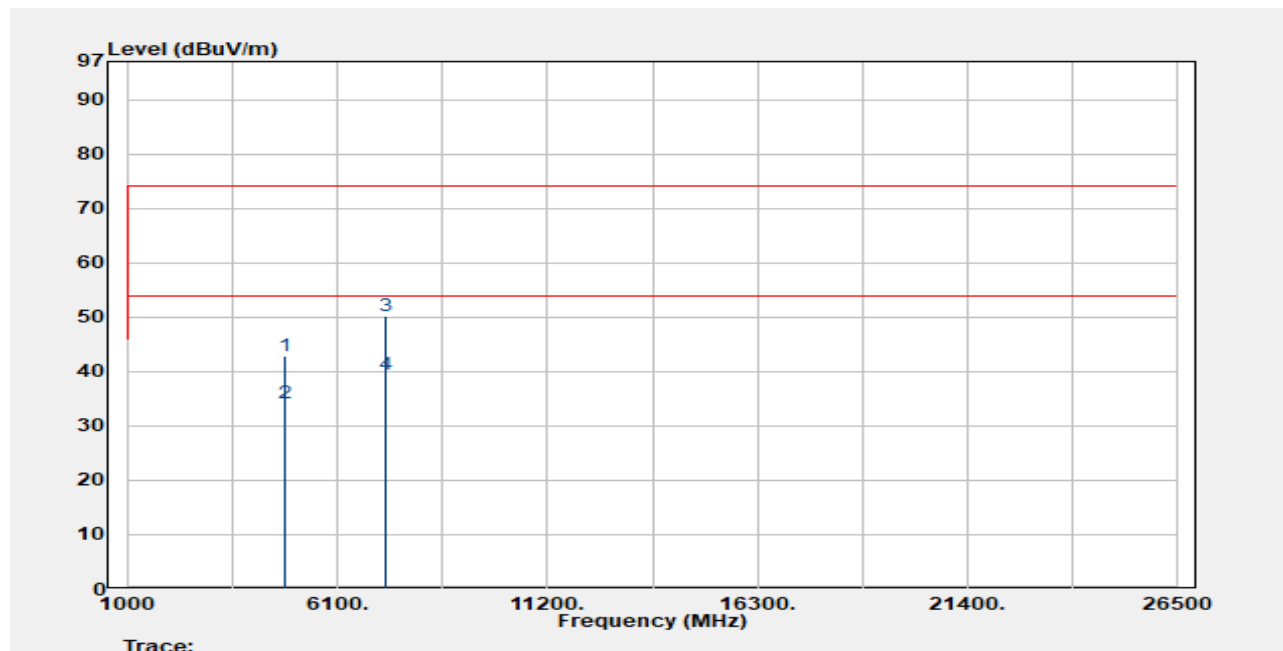
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	35.84	7.13	42.97	74.00	-31.03
4824.000	Average	26.96	7.13	34.09	54.00	-19.91
7236.000	Peak	35.79	14.33	50.12	74.00	-23.88
7236.000	Average	25.21	14.33	39.54	54.00	-14.46

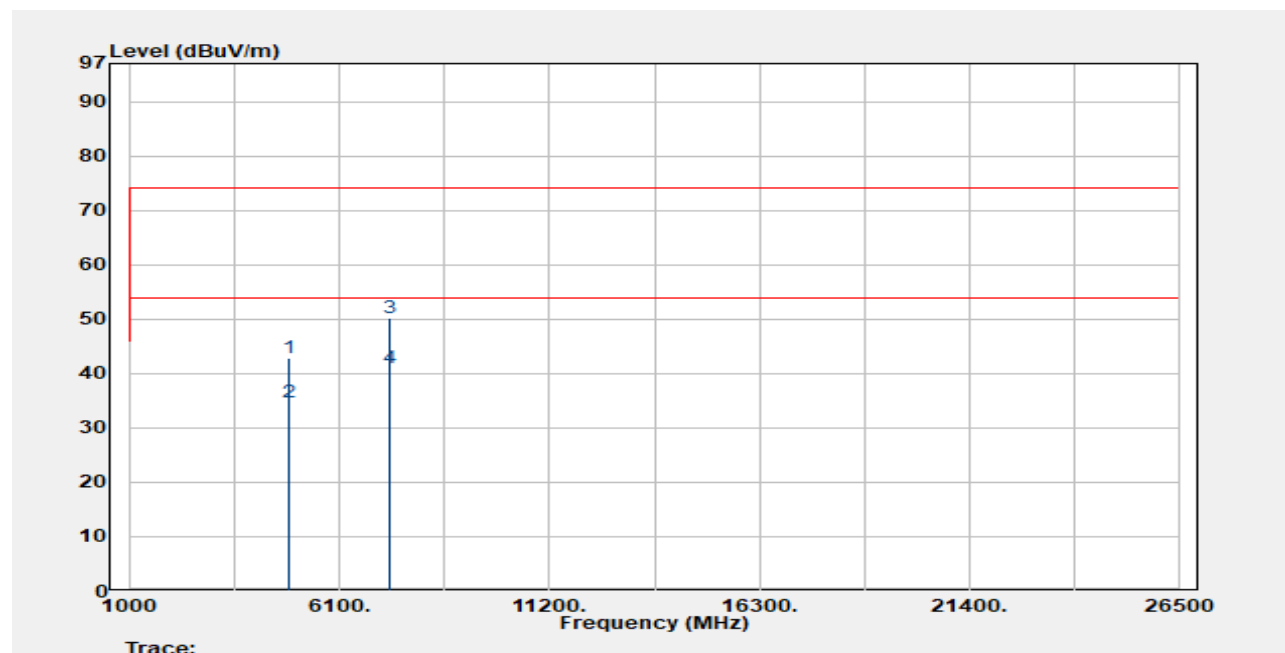
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	35.33	7.51	42.84	74.00	-31.16
4874.000	Average	27.06	7.51	34.57	54.00	-19.43
7311.000	Peak	34.67	15.41	50.08	74.00	-23.92
7311.000	Average	25.53	15.41	40.94	54.00	-13.06

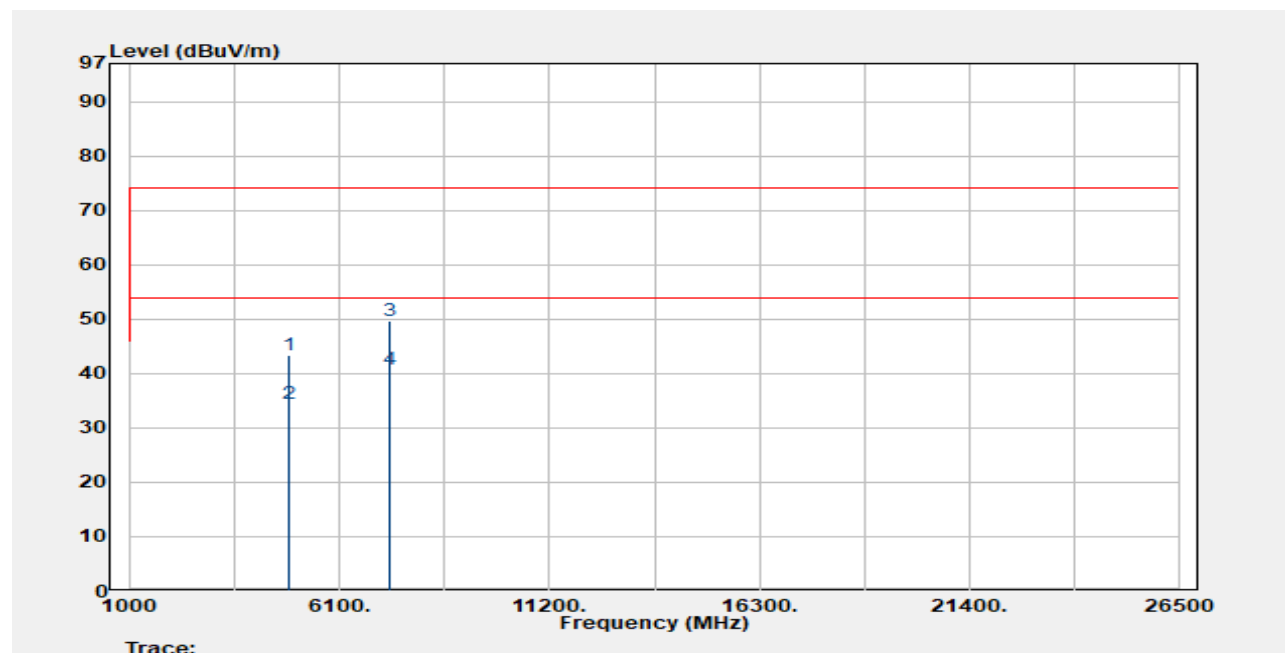
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	35.93	7.51	43.44	74.00	-30.56
4874.000	Average	27.03	7.51	34.54	54.00	-19.46
7311.000	Peak	34.39	15.41	49.80	74.00	-24.20
7311.000	Average	25.39	15.41	40.80	54.00	-13.20

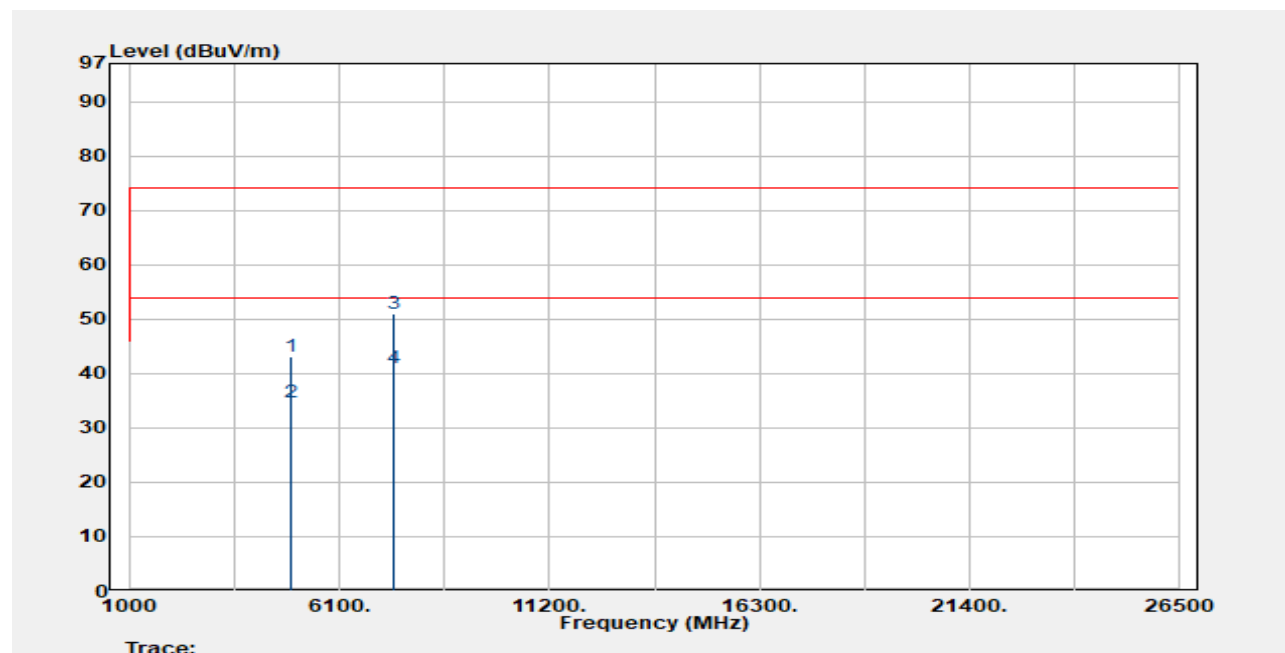
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Peak	35.29	7.84	43.13	74.00	-30.87
4924.000	Average	26.83	7.84	34.67	54.00	-19.33
7386.000	Peak	36.22	14.75	50.97	74.00	-23.03
7386.000	Average	26.29	14.75	41.04	54.00	-12.96

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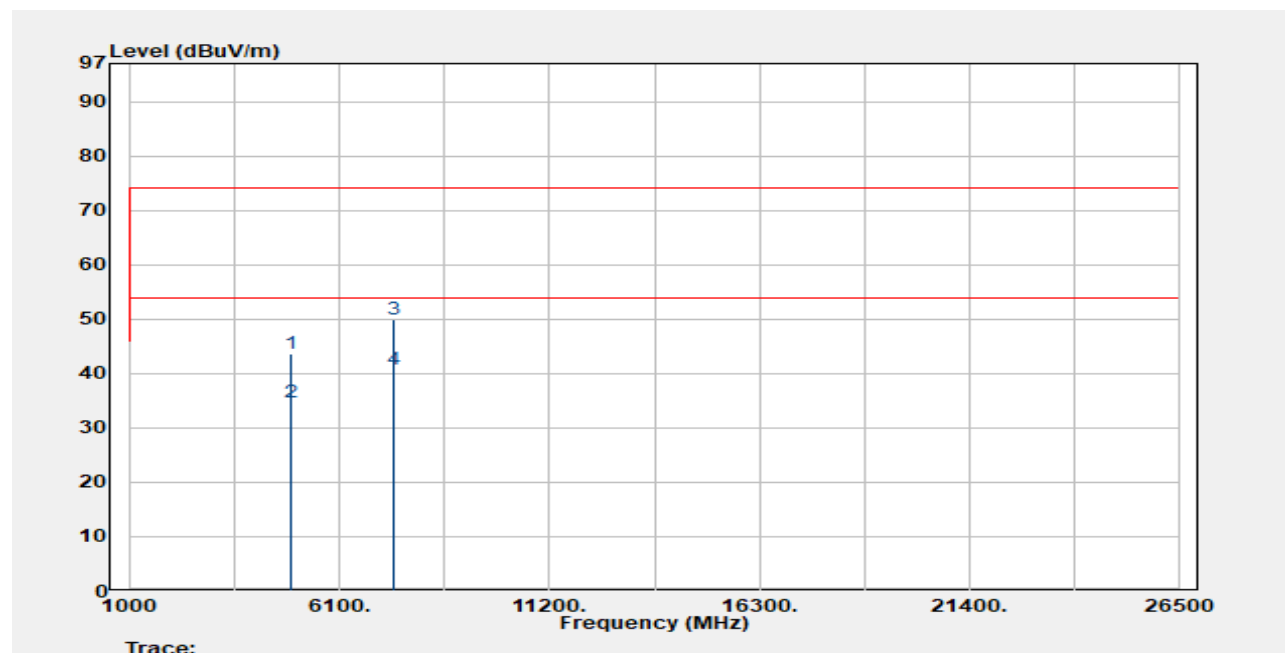
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Peak	35.70	7.84	43.54	74.00	-30.46
4924.000	Average	26.86	7.84	34.70	54.00	-19.30
7386.000	Peak	35.27	14.75	50.02	74.00	-23.98
7386.000	Average	26.09	14.75	40.84	54.00	-13.16

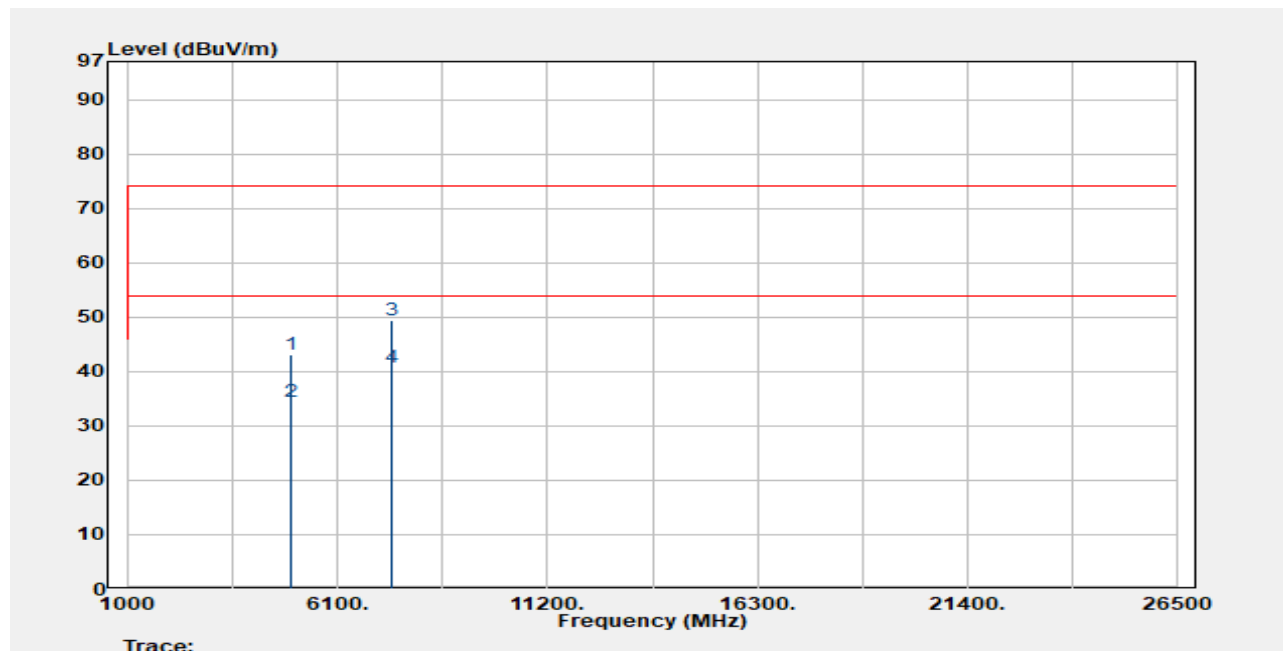
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2467 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.000	Peak	35.20	7.80	43.00	74.00	-31.00
4934.000	Average	26.68	7.80	34.48	54.00	-19.52
7401.000	Peak	34.63	14.67	49.30	74.00	-24.70
7401.000	Average	26.19	14.67	40.86	54.00	-13.14

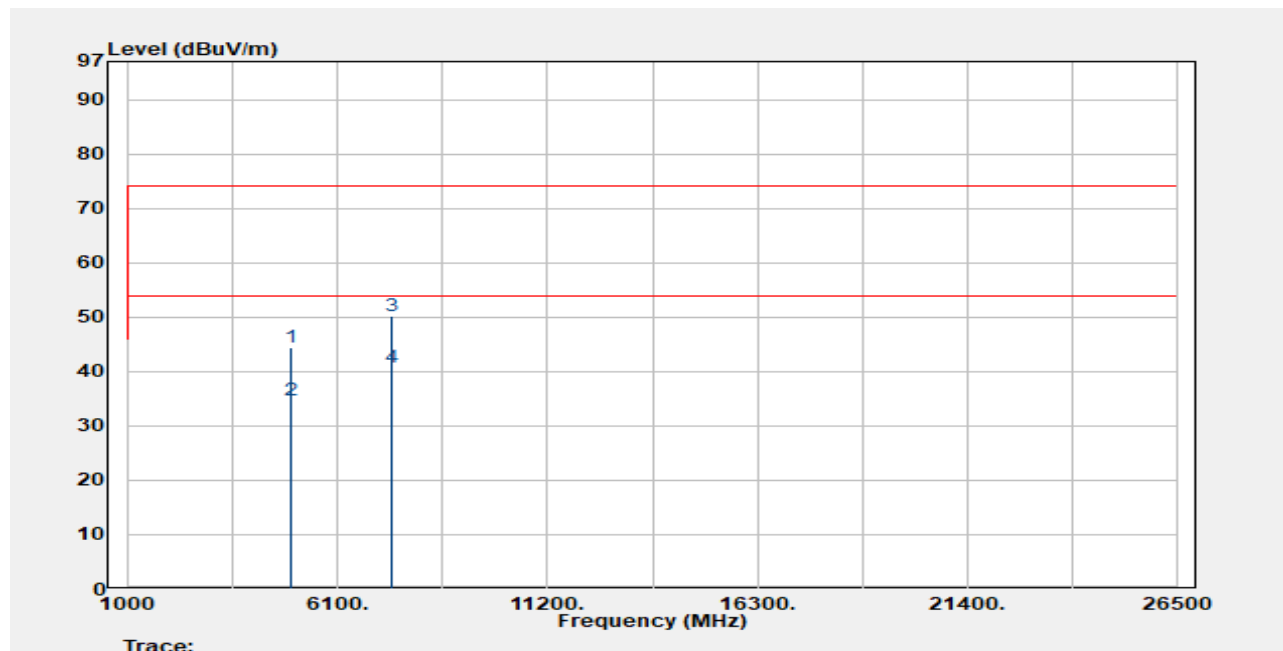
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2467 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.000	Peak	36.52	7.80	44.32	74.00	-29.68
4934.000	Average	26.83	7.80	34.63	54.00	-19.37
7401.000	Peak	35.48	14.67	50.15	74.00	-23.85
7401.000	Average	26.03	14.67	40.70	54.00	-13.30

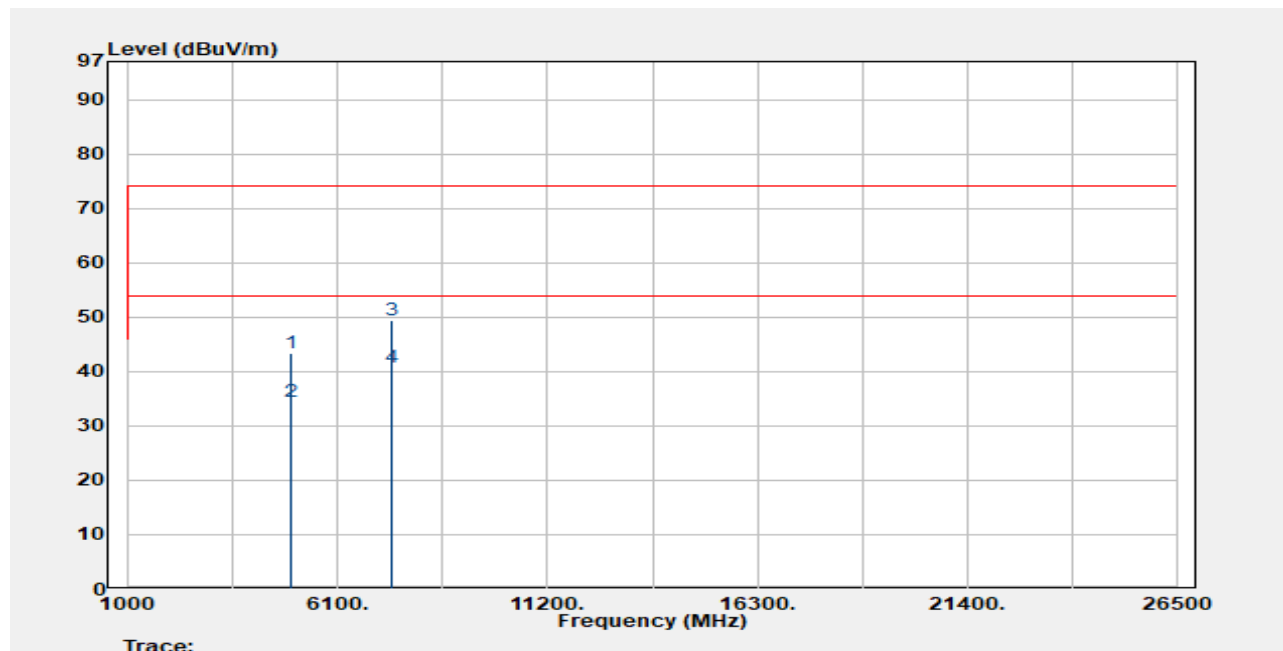
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2472 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.000	Peak	35.53	7.76	43.29	74.00	-30.71
4944.000	Average	26.79	7.76	34.55	54.00	-19.45
7416.000	Peak	34.87	14.65	49.52	74.00	-24.48
7416.000	Average	26.12	14.65	40.77	54.00	-13.23

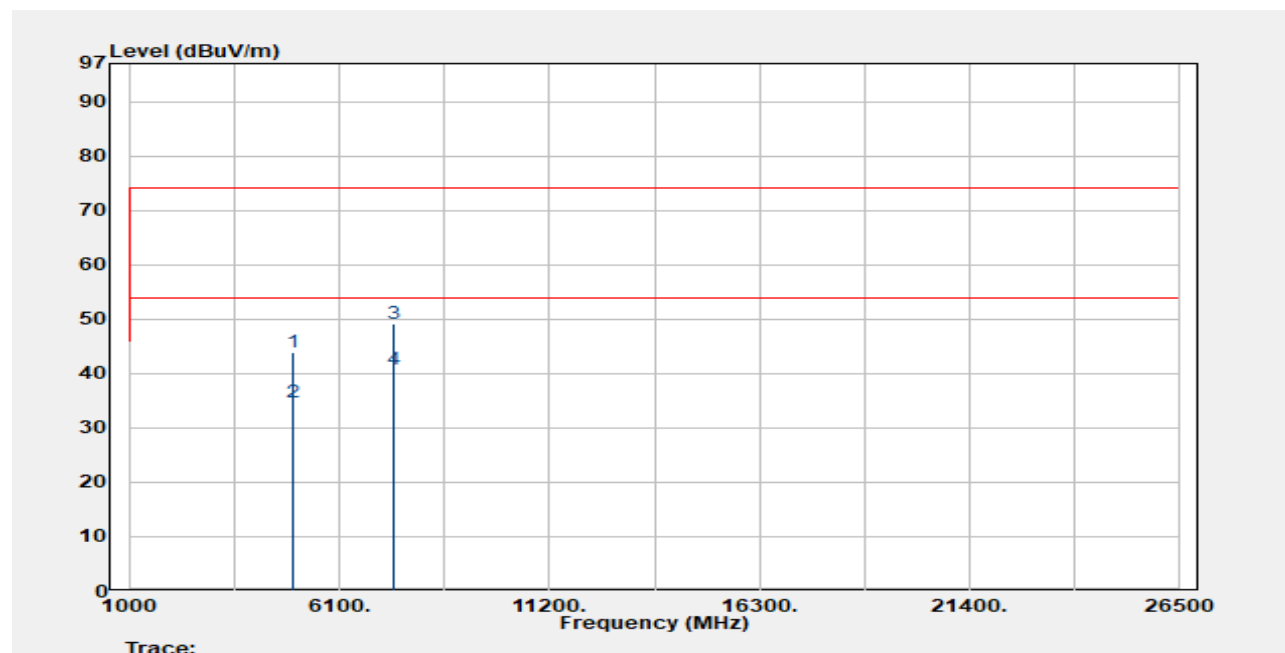
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Report Number :ER-2021-B0046  
 Operation Mode :802.11n20  
 Test Frequency :2472 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-06  
 Temp./Humi. :22.4/50  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.000	Peak	36.11	7.76	43.87	74.00	-30.13
4944.000	Average	26.92	7.76	34.68	54.00	-19.32
7416.000	Peak	34.38	14.65	49.03	74.00	-24.97
7416.000	Average	25.97	14.65	40.62	54.00	-13.38

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## 13 POWER SPECTRAL DENSITY

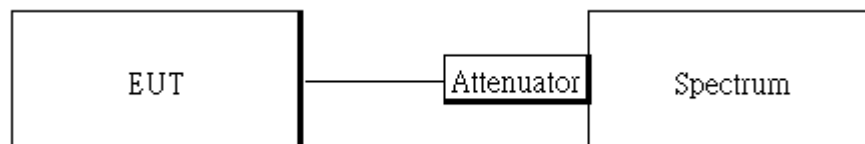
### 13.1 Standard Applicable

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.

### 13.2 Test Setup



### 13.3 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.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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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## 13.4 Power spectral density

POWER DENSITY 802.11b				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-7.99	-7.99	8.00	PASS
2437	-7.95	-7.95	8.00	PASS
2462	-6.85	-6.85	8.00	PASS
2467	-6.65	-6.65	8.00	PASS
2472	-9.51	-9.51	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-16.02	-16.02	8.00	PASS
2437	-16.09	-16.09	8.00	PASS
2462	-15.66	-15.66	8.00	PASS
2467	-15.47	-15.47	8.00	PASS
2472	-24.22	-24.22	8.00	PASS

POWER DENSITY 802.11n HT20				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-14.46	-14.46	8.00	PASS
2437	-16.71	-16.71	8.00	PASS
2462	-15.52	-15.52	8.00	PASS
2467	-15.97	-15.97	8.00	PASS
2472	-23.92	-23.92	8.00	PASS

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