

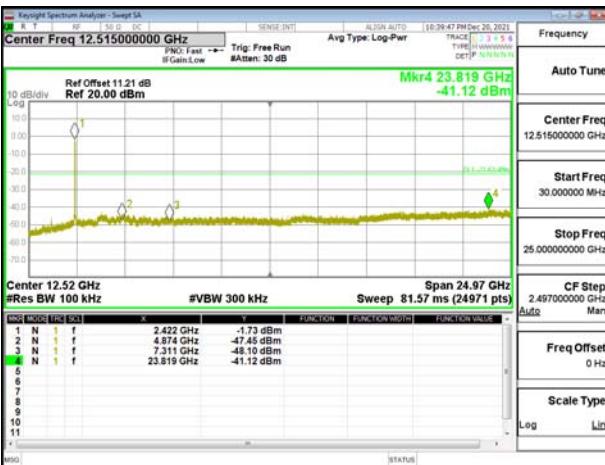
802.11n_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain0_2457MHz



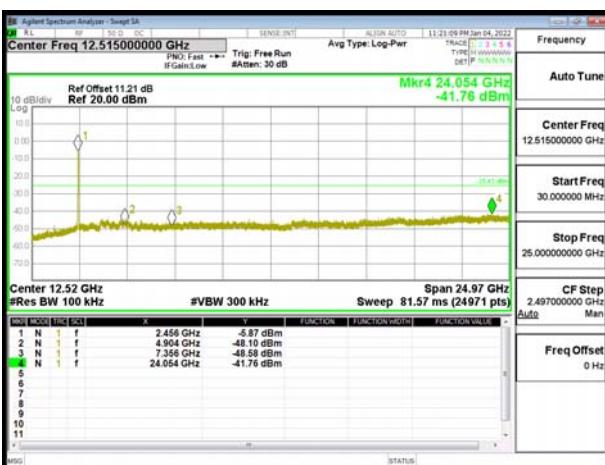
802.11n_40MHz_Chain0_2437MHz



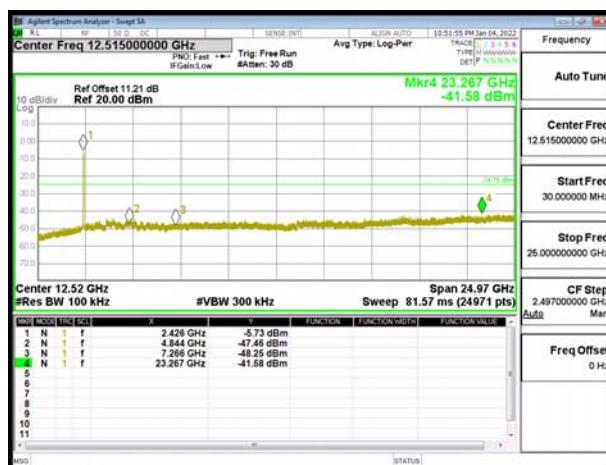
802.11n_40MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



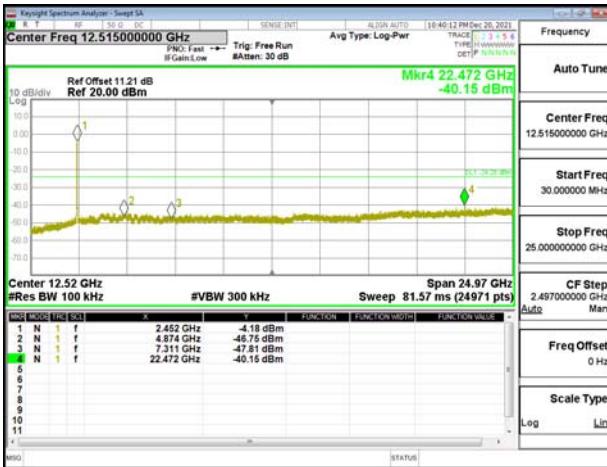
802.11n_40MHz_Chain1_2422MHz



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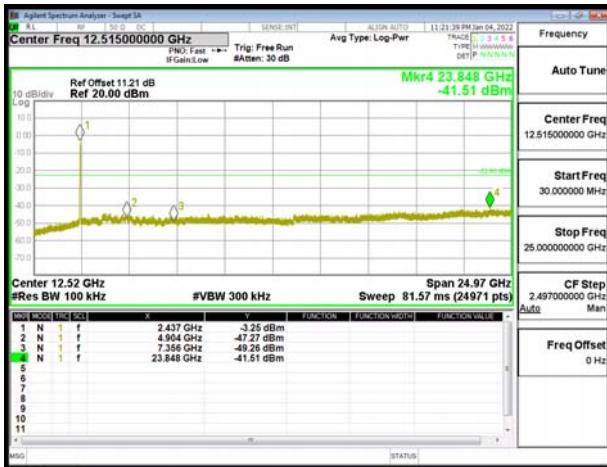
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain1_2462MHz



802.11n_40MHz_Chain1_2452MHz



802.11n_40MHz_Chain1_2457MHz



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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 limit as below.

And according to §15.33(a) (1), 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:

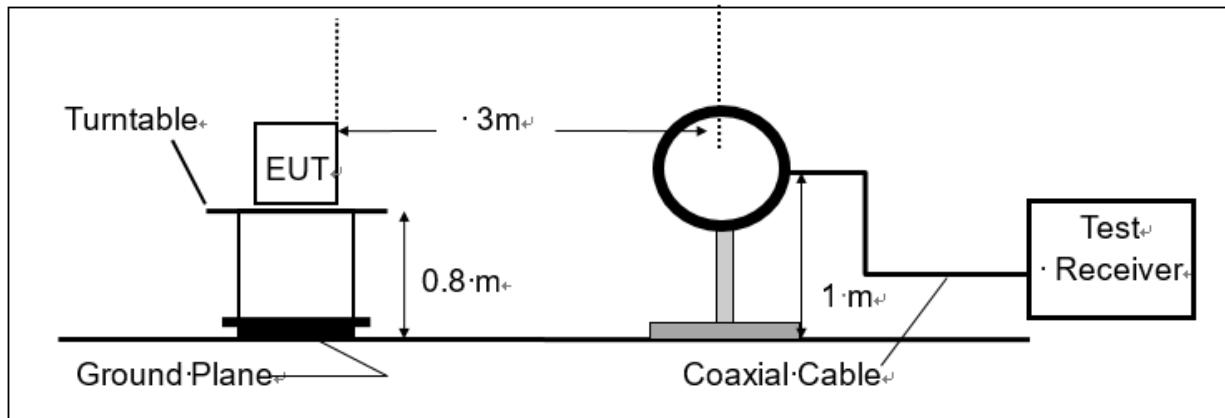
1. The lower limit shall apply at the transition frequencies.

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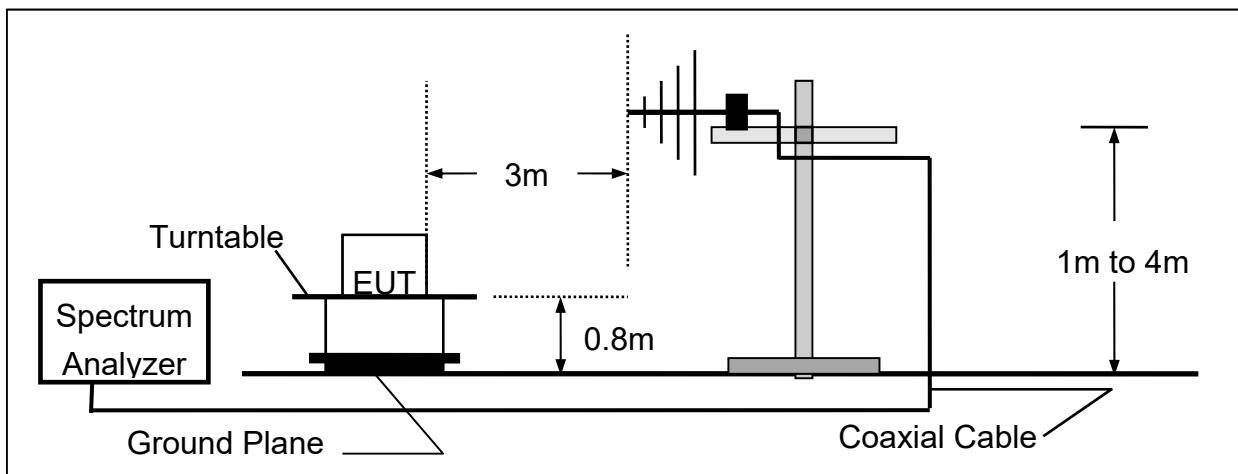
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12.2 Test Setup

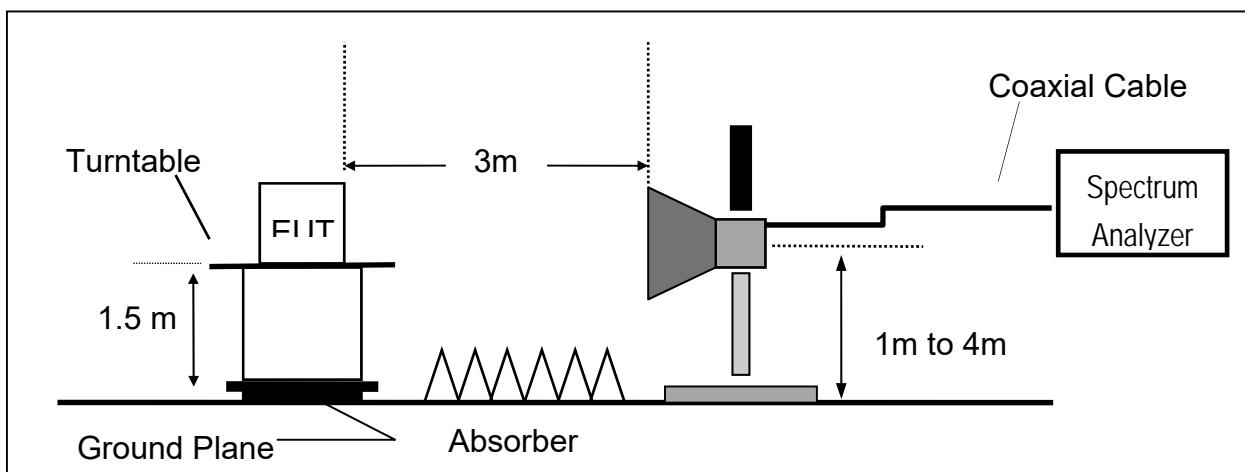
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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 \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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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 $dB\mu V/m$, which converts $20 * \log(\mu V/m)$

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

$Factor(dB) = Antenna\ Factor(dB\mu V/m) + Cable\ Loss(dB) - Pre_Amplifier\ Gain(dB)$

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) was not reported.

12.6 Measurement Result

Note:

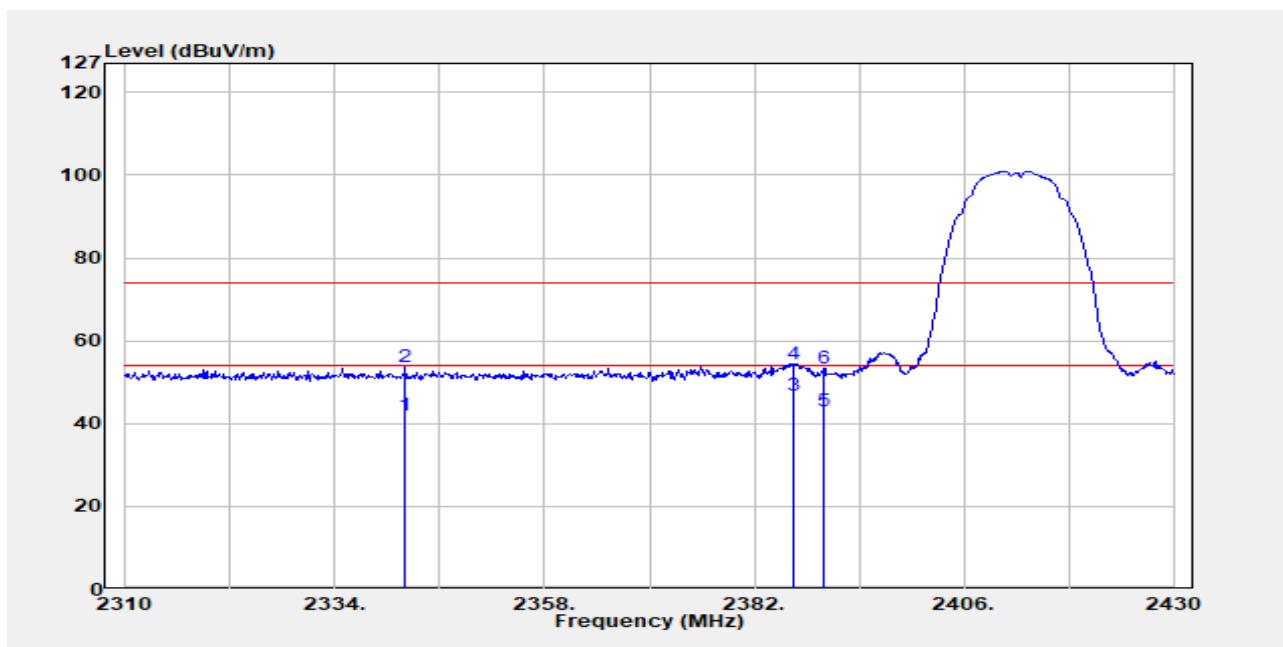
1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

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12.6.1 Radiated Band Edge Measurement Result

Report Number	:ER/2021/C0048	Test Site	:SAC 1
Operation Mode	:802.11b	Test Date	:2021-12-24
Test Frequency	:2412 MHz	Temp./Humi.	:25.0/67
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Neo Tsai



Freq. MHz	Detector Mode	Spectrum	Factor	Actual FS	Limit @3m	Margin
		Reading Level dB μ V				
2342.04	Average	41.51	0.52	42.03	54.00	-11.97
2342.04	Peak	53.16	0.52	53.68	74.00	-20.32
2386.56	Average	46.28	0.37	46.65	54.00	-7.35
2386.56	Peak	54.15	0.37	54.52	74.00	-19.48
2390.00	Average	42.65	0.36	43.01	54.00	-10.99
2390.00	Peak	52.96	0.36	53.31	74.00	-20.69

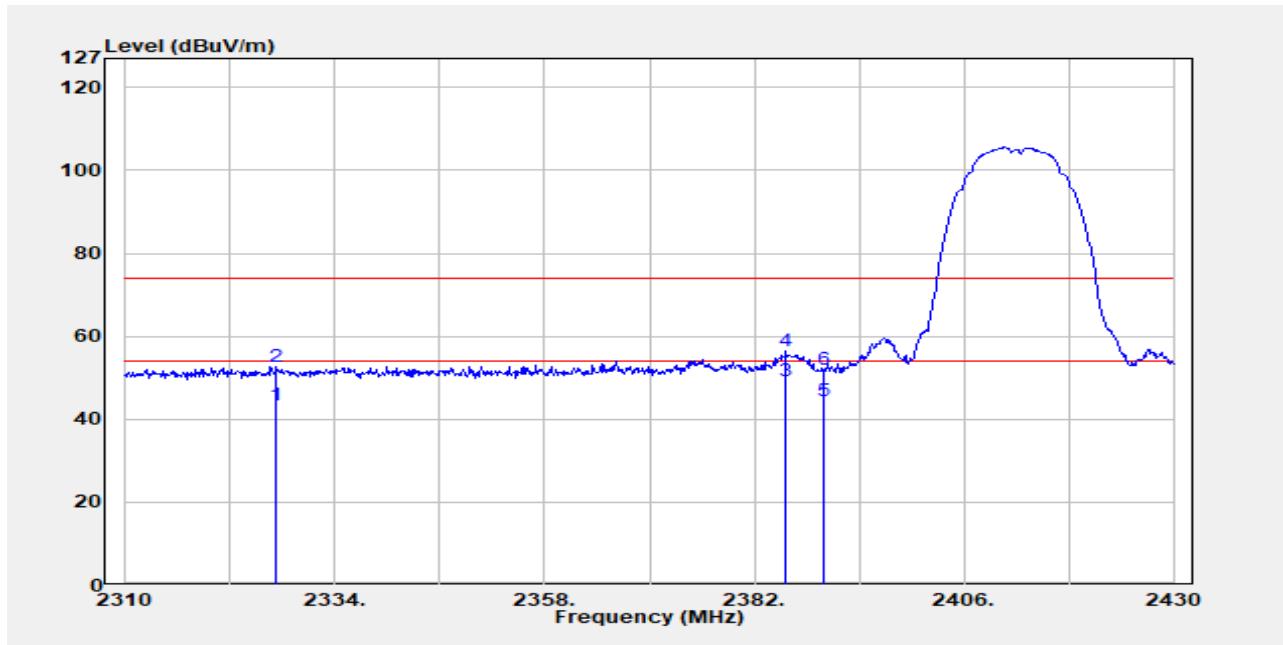
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Report Number :ER/2021/C0048
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Horizontal
 Engineer :Neo Tsai



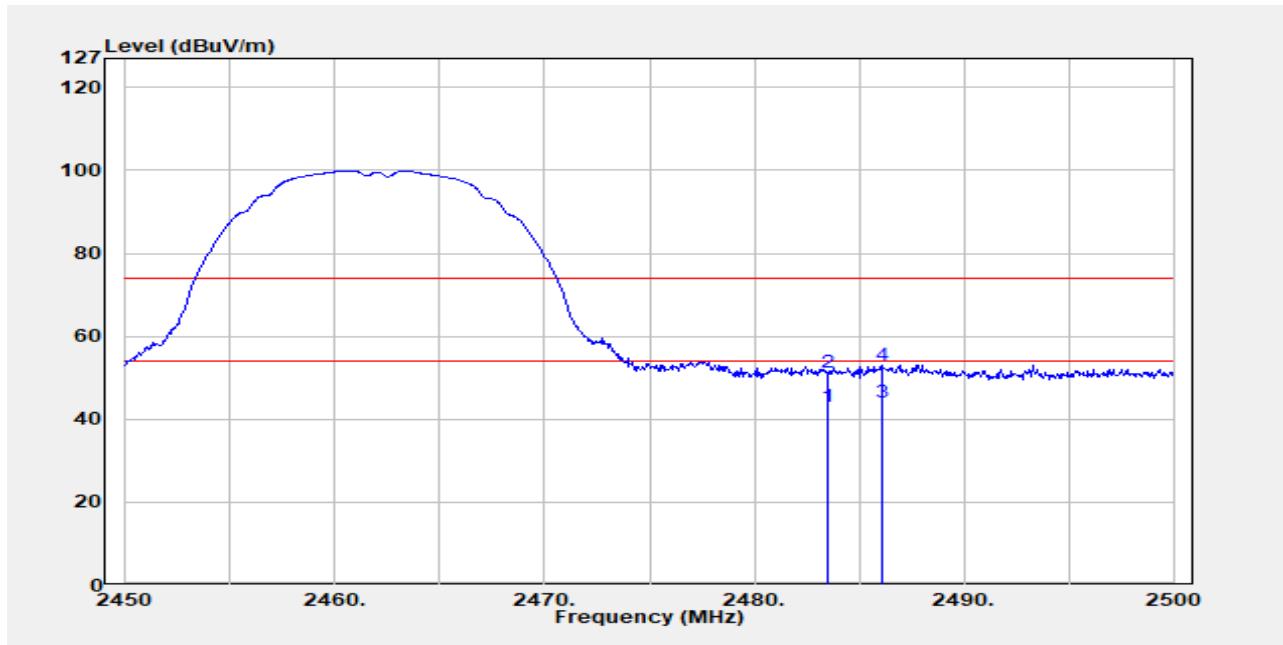
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m	Margin
					dB μ V/m	dB
2327.28	Average	42.69	0.51	43.20	54.00	-10.80
2327.28	Peak	52.09	0.51	52.61	74.00	-21.39
2385.60	Average	49.00	0.38	49.38	54.00	-4.62
2385.60	Peak	55.98	0.38	56.35	74.00	-17.65
2390.00	Average	43.92	0.36	44.28	54.00	-9.72
2390.00	Peak	51.67	0.36	52.03	74.00	-21.97

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Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane
Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Vertical
Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.50	Average	42.76	0.13	42.89	54.00	-11.11
2483.50	Peak	50.99	0.13	51.12	74.00	-22.88
2486.10	Average	43.76	0.14	43.90	54.00	-10.10
2486.10	Peak	53.03	0.14	53.17	74.00	-20.83

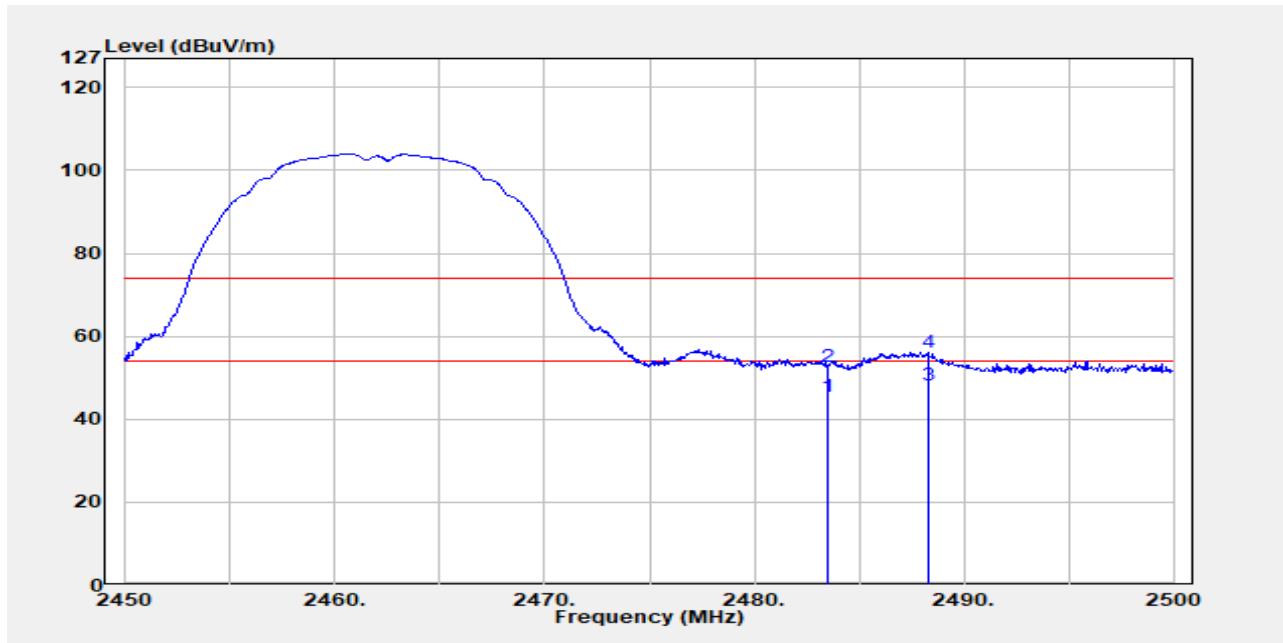
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 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Horizontal
 Engineer :Neo Tsai



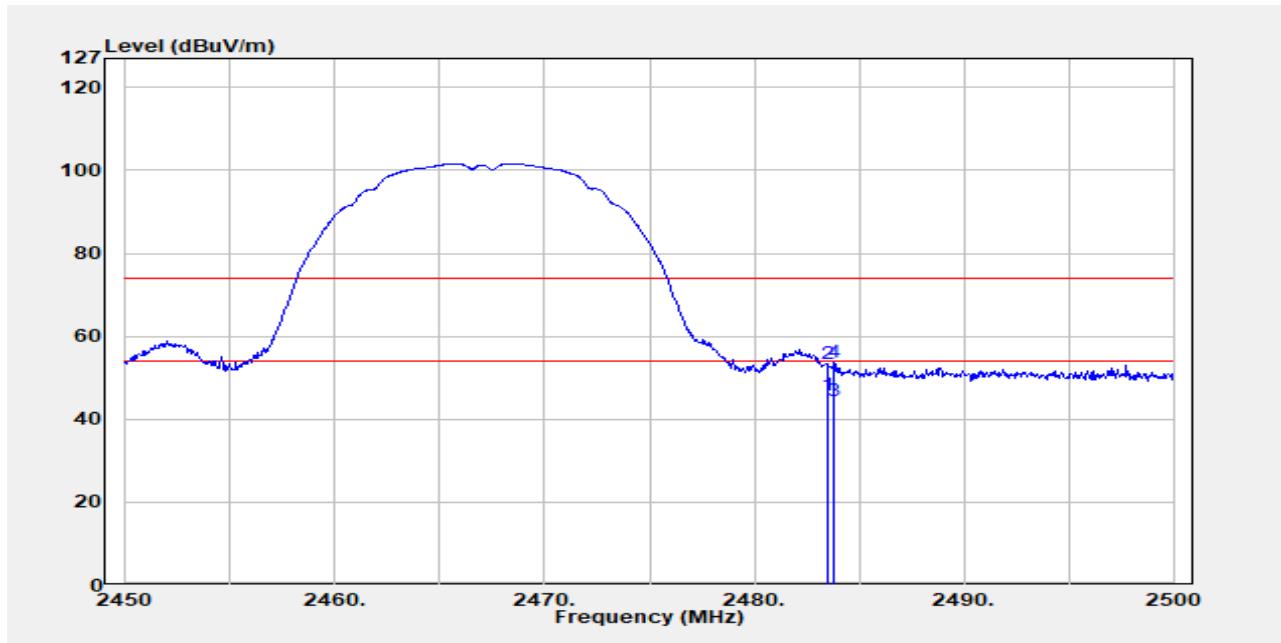
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
PK/QP/AV						
2483.50	Average	45.21	0.13	45.34	54.00	-8.66
2483.50	Peak	52.69	0.13	52.82	74.00	-21.18
2488.30	Average	47.89	0.15	48.04	54.00	-5.96
2488.30	Peak	55.89	0.15	56.05	74.00	-17.95

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Operation Mode :802.11b
Test Frequency :2467 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane
Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Vertical
Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin
						Margin
PK/QP/AV	Margin					
2483.50	Average	45.56	0.13	45.69	54.00	-8.31
2483.50	Peak	53.29	0.13	53.42	74.00	-20.58
2483.80	Average	44.18	0.13	44.31	54.00	-9.69
2483.80	Peak	53.45	0.13	53.58	74.00	-20.42

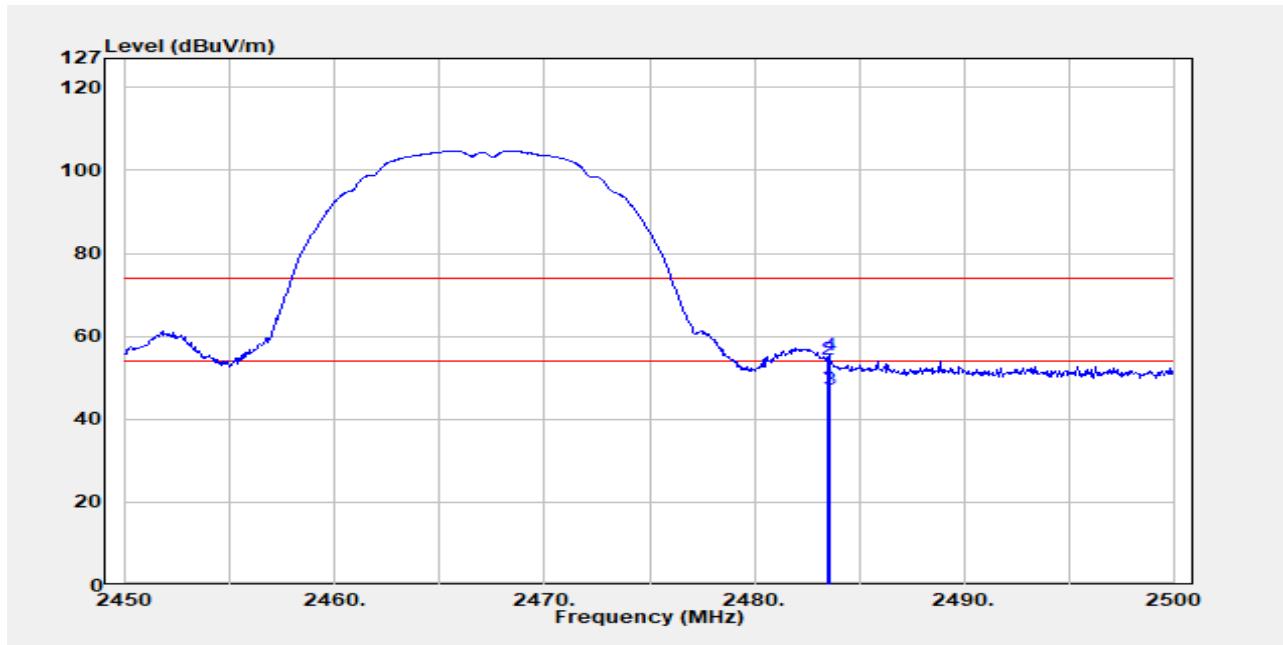
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 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Horizontal
 Engineer :Neo Tsai



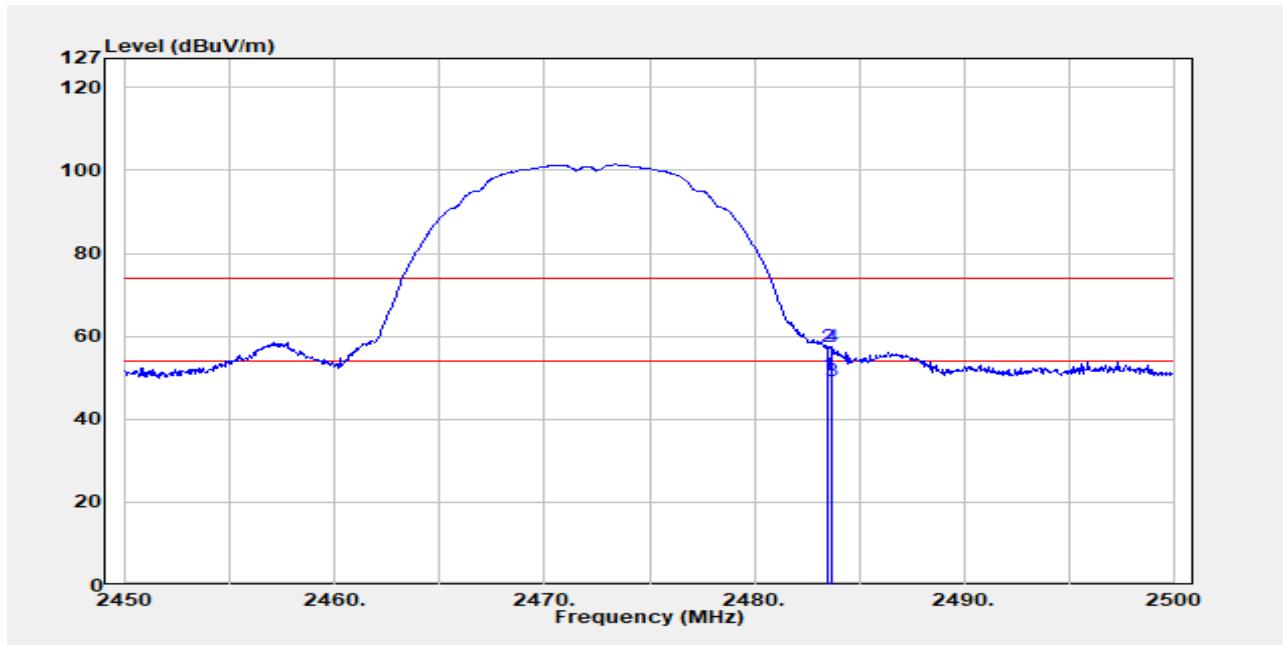
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m	Margin
					dB μ V/m	dB
2483.50	Average	47.81	0.13	47.94	54.00	-6.06
2483.50	Peak	54.40	0.13	54.53	74.00	-19.47
2483.60	Average	47.15	0.13	47.28	54.00	-6.72
2483.60	Peak	55.26	0.13	55.39	74.00	-18.61

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Report Number :ER/2021/C0048
Operation Mode :802.11b
Test Frequency :2472 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane
Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Vertical
Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					FS dB μ V/m	
2483.50	Average	50.31	0.13	50.44	54.00	-3.56
2483.50	Peak	57.20	0.13	57.33	74.00	-16.67
2483.70	Average	49.07	0.13	49.20	54.00	-4.80
2483.70	Peak	57.41	0.13	57.54	74.00	-16.46

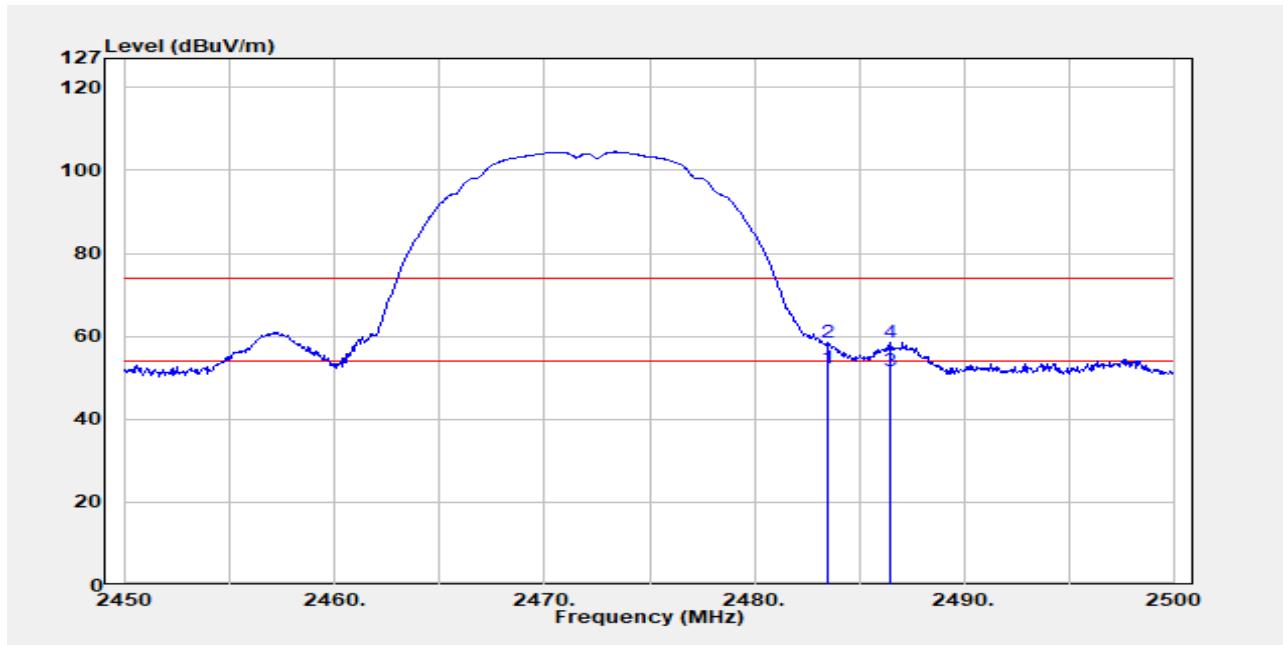
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Report Number :ER/2021/C0048
 Operation Mode :802.11b
 Test Frequency :2472 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Horizontal
 Engineer :Neo Tsai



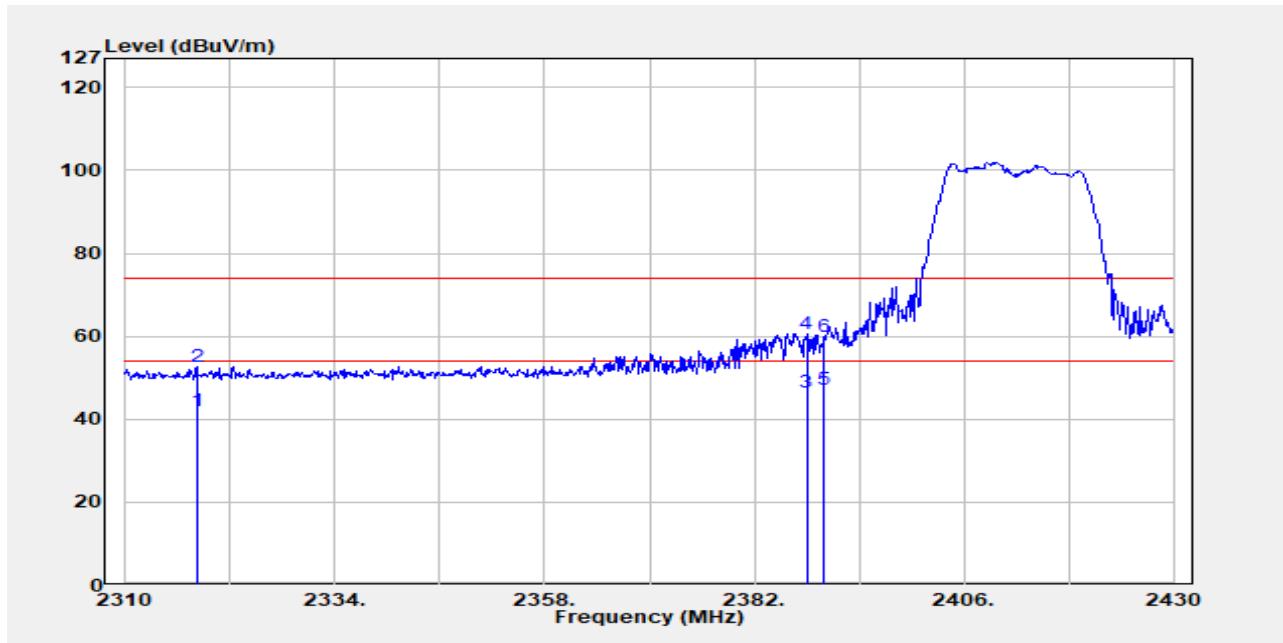
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
2483.50	Average	52.26	0.13	52.39	54.00	-1.61
2483.50	Peak	58.52	0.13	58.64	74.00	-15.36
2486.45	Average	51.60	0.14	51.74	54.00	-2.26
2486.45	Peak	58.29	0.14	58.43	74.00	-15.57

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Report Number :ER/2021/C0048
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane
Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Vertical
Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin	
PK/QP/AV	Margin					
2318.16	Average	41.36	0.50	41.86	54.00	-12.14
2318.16	Peak	52.24	0.50	52.74	74.00	-21.26
2388.00	Average	46.04	0.37	46.41	54.00	-7.59
2388.00	Peak	60.37	0.37	60.74	74.00	-13.26
2390.00	Average	46.67	0.36	47.03	54.00	-6.97
2390.00	Peak	59.69	0.36	60.05	74.00	-13.95

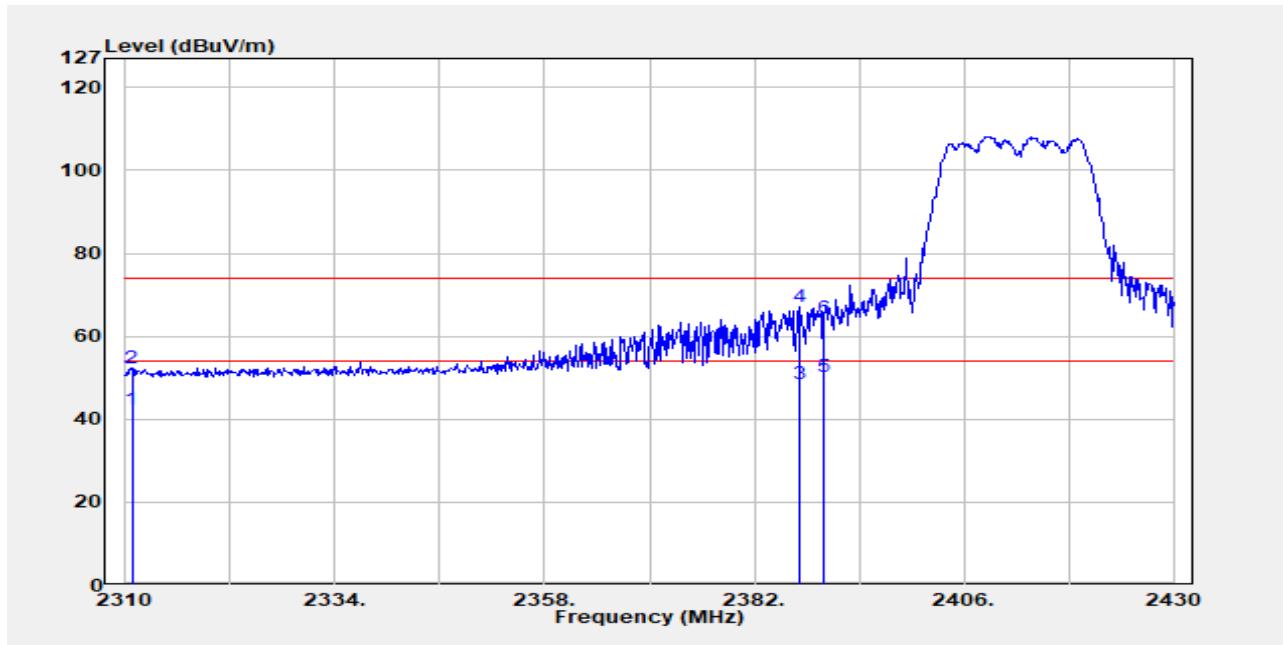
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Report Number :ER/2021/C0048
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Horizontal
 Engineer :Neo Tsai



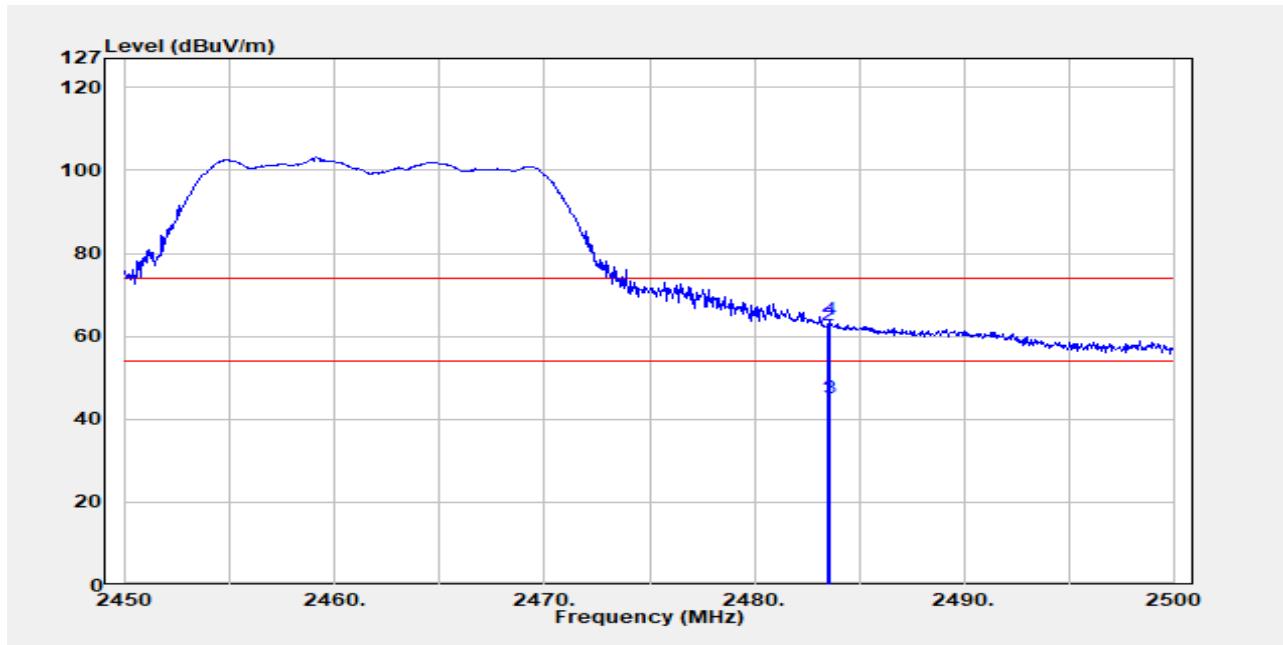
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
	PK/QP/AV					
2310.72	Average	41.72	0.50	42.22	54.00	-11.78
2310.72	Peak	51.96	0.50	52.45	74.00	-21.55
2387.16	Average	48.22	0.37	48.59	54.00	-5.41
2387.16	Peak	66.63	0.37	67.00	74.00	-7.00
2390.00	Average	49.78	0.36	50.14	54.00	-3.86
2390.00	Peak	64.09	0.36	64.45	74.00	-9.55

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Report Number :ER/2021/C0048
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane
Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Vertical
Engineer :Neo Tsai



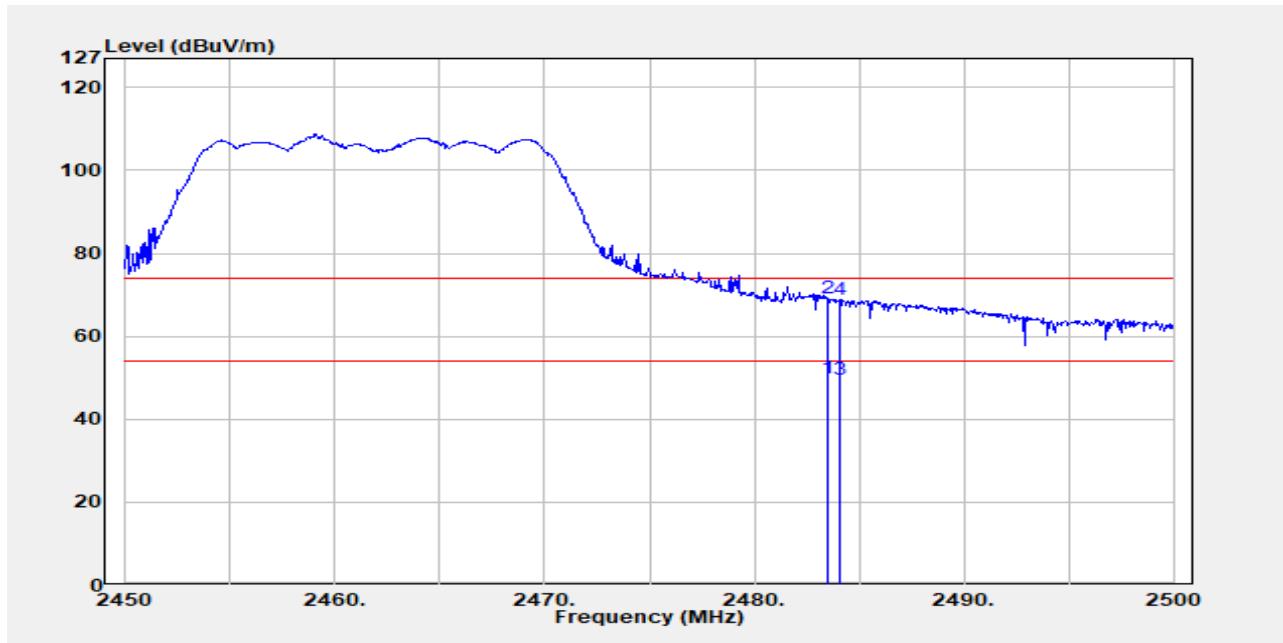
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m	Margin
					dB	dB
2483.50	Average	44.85	0.13	44.98	54.00	-9.02
2483.50	Peak	62.54	0.13	62.67	74.00	-11.33
2483.65	Average	44.79	0.13	44.92	54.00	-9.08
2483.65	Peak	63.87	0.13	64.00	74.00	-10.00

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Report Number :ER/2021/C0048
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane
Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Horizontal
Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
2483.50	Average	49.68	0.13	49.81	54.00	-4.19
2483.50	Peak	68.95	0.13	69.08	74.00	-4.92
2484.05	Average	49.50	0.13	49.63	54.00	-4.37
2484.05	Peak	68.87	0.13	69.00	74.00	-5.00

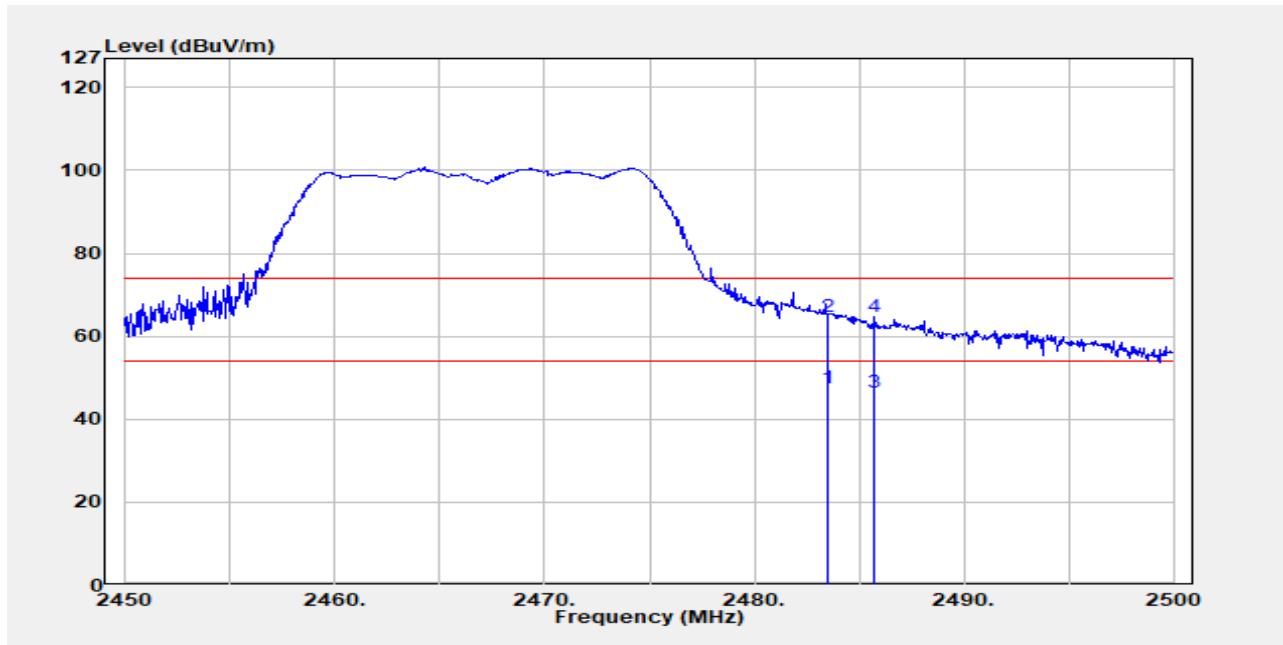
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Report Number :ER/2021/C0048
 Operation Mode :802.11g
 Test Frequency :2467 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Vertical
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m	Margin
					dB μ V/m	dB
2483.50	Average	47.36	0.13	47.49	54.00	-6.51
2483.50	Peak	64.53	0.13	64.66	74.00	-9.34
2485.75	Average	46.30	0.14	46.44	54.00	-7.56
2485.75	Peak	64.54	0.14	64.68	74.00	-9.32

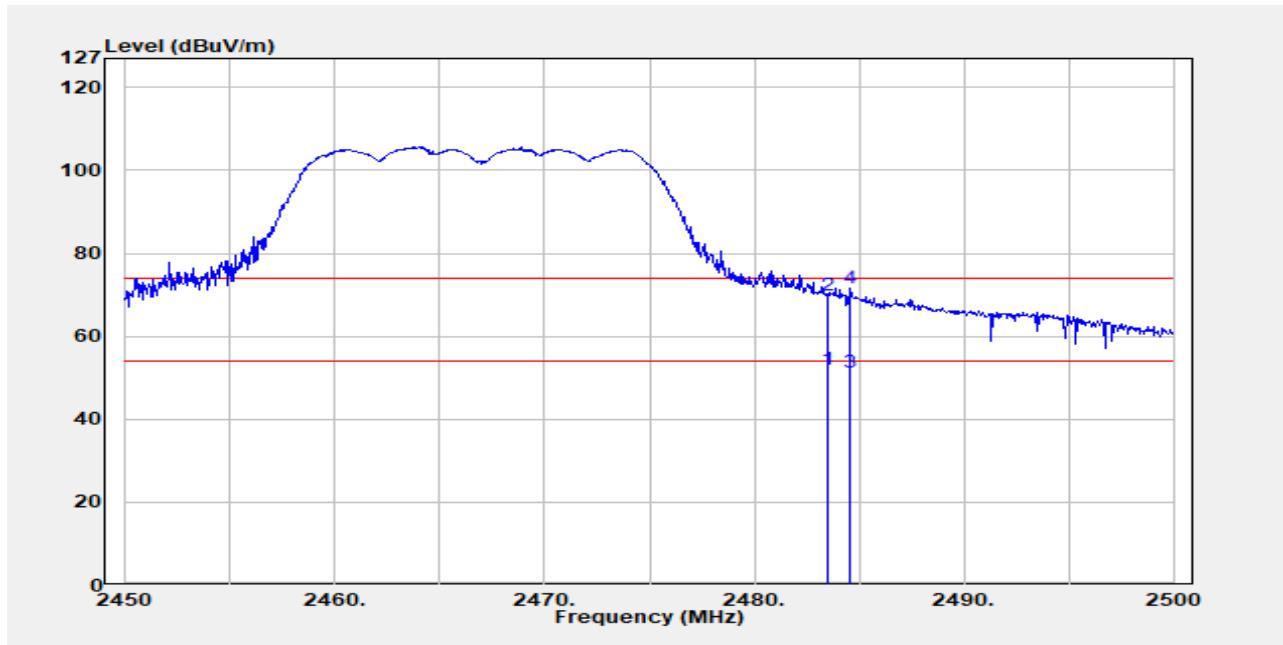
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Report Number :ER/2021/C0048
 Operation Mode :802.11g
 Test Frequency :2467 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Horizontal
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
2483.50	Average	51.78	0.13	51.91	54.00	-2.09
2483.50	Peak	69.82	0.13	69.95	74.00	-4.05
2484.60	Average	51.10	0.13	51.23	54.00	-2.77
2484.60	Peak	71.43	0.13	71.56	74.00	-2.44

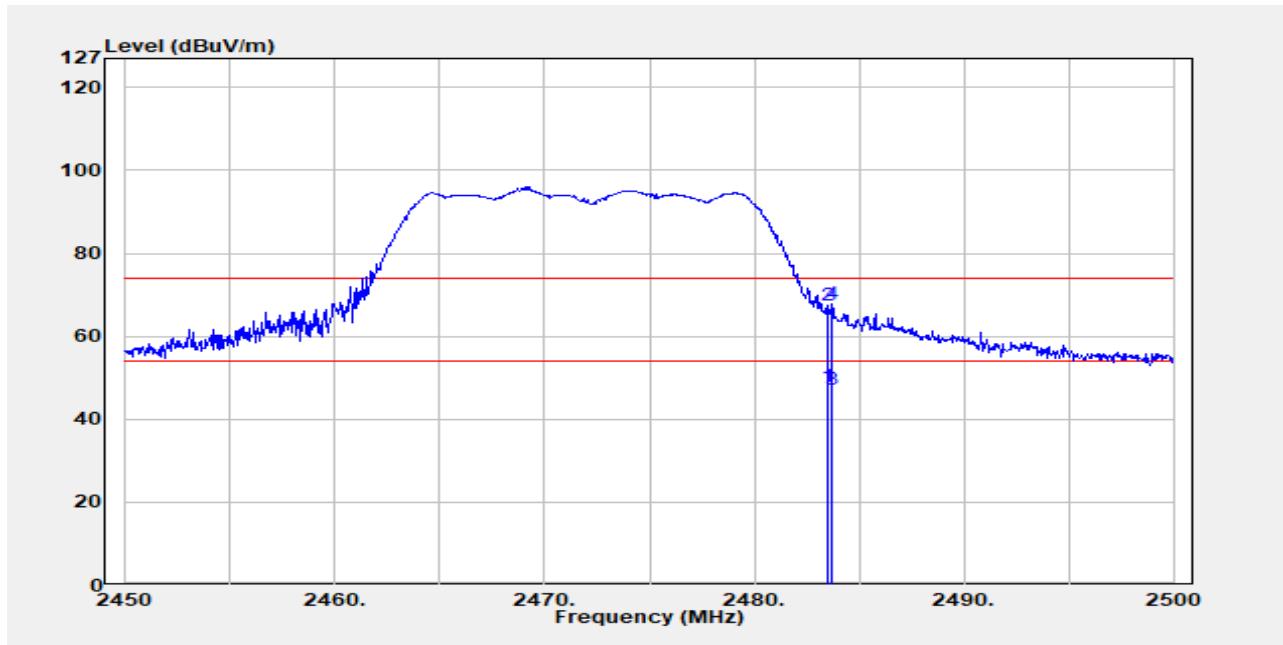
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Report Number :ER/2021/C0048
 Operation Mode :802.11g
 Test Frequency :2472 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Vertical
 Engineer :Neo Tsai



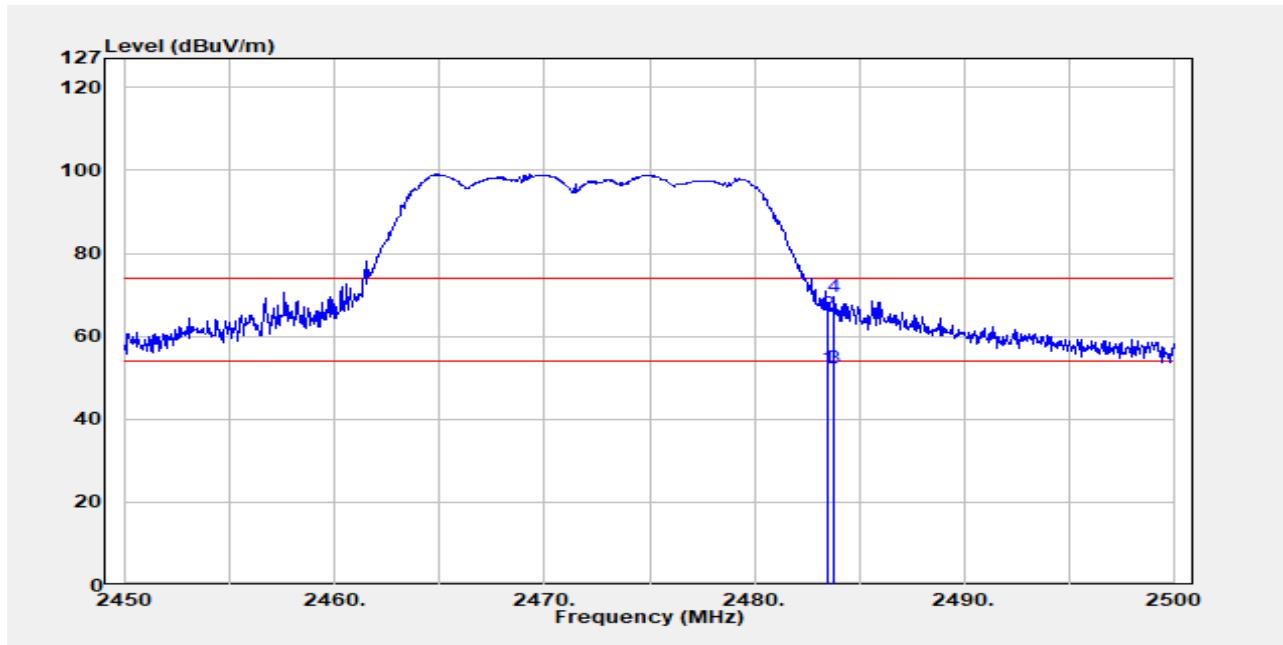
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
2483.50	Average	47.57	0.13	47.70	54.00	-6.30
2483.50	Peak	67.47	0.13	67.60	74.00	-6.40
2483.70	Average	46.91	0.13	47.04	54.00	-6.96
2483.70	Peak	67.57	0.13	67.70	74.00	-6.30

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Report Number :ER/2021/C0048
Operation Mode :802.11g
Test Frequency :2472 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane
Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Horizontal
Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.50	Average	52.32	0.13	52.45	54.00	-1.55
2483.50	Peak	65.37	0.13	65.49	74.00	-8.51
2483.80	Average	52.02	0.13	52.15	54.00	-1.85
2483.80	Peak	69.23	0.13	69.35	74.00	-4.65

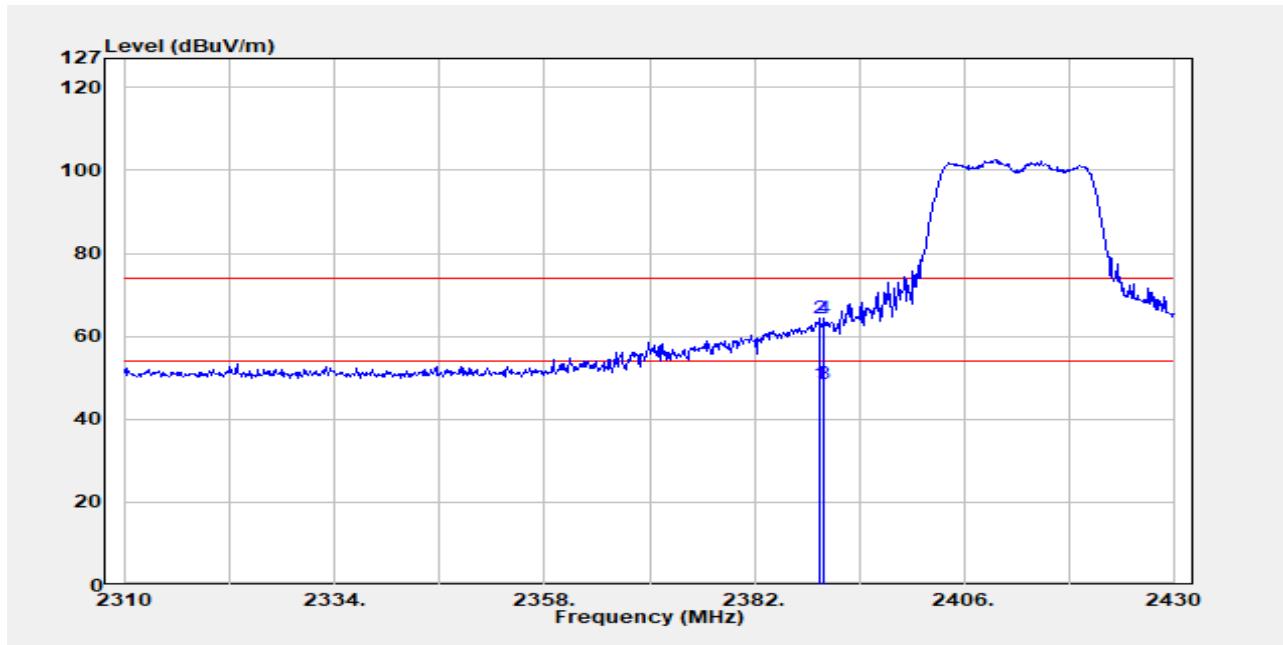
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Report Number :ER/2021/C0048
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Vertical
 Engineer :Neo Tsai



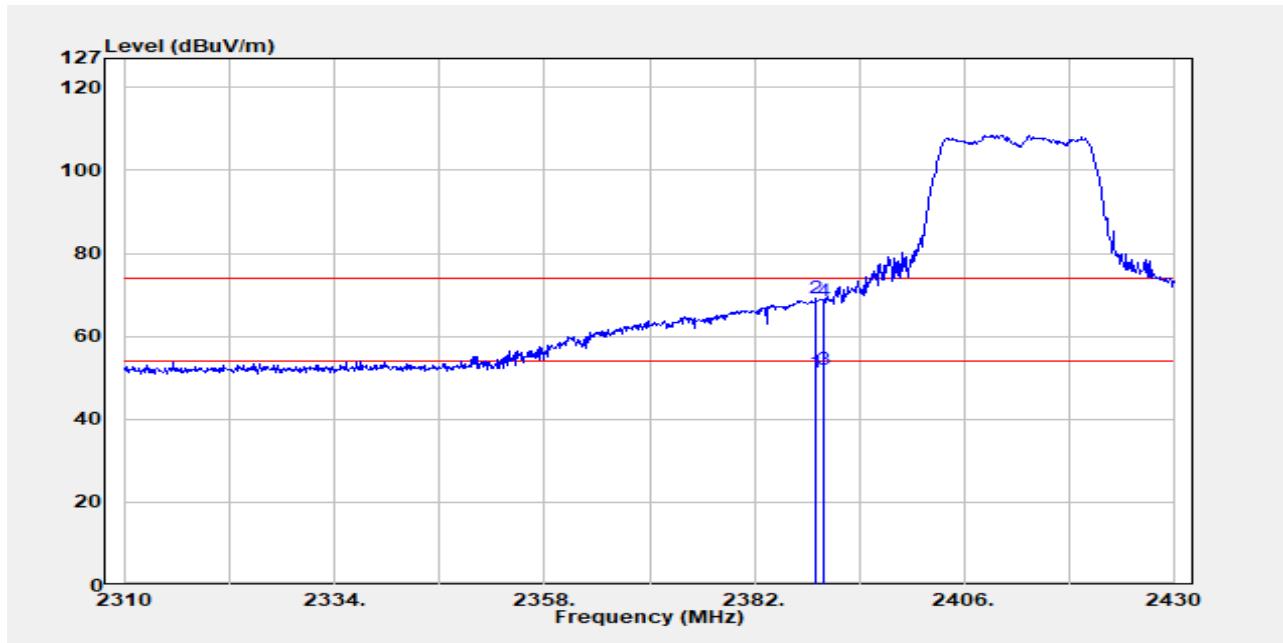
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2389.56	Average	48.20	0.36	48.56	54.00	-5.44
2389.56	Peak	64.04	0.36	64.40	74.00	-9.60
2390.00	Average	48.08	0.36	48.44	54.00	-5.56
2390.00	Peak	63.85	0.36	64.21	74.00	-9.79

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Report Number :ER/2021/C0048
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane
Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Horizontal
Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m	Margin
					dB μ V/m	dB
2389.08	Average	50.93	0.36	51.29	54.00	-2.71
2389.08	Peak	68.65	0.36	69.01	74.00	-4.99
2390.00	Average	51.70	0.36	52.06	54.00	-1.94
2390.00	Peak	68.20	0.36	68.56	74.00	-5.44

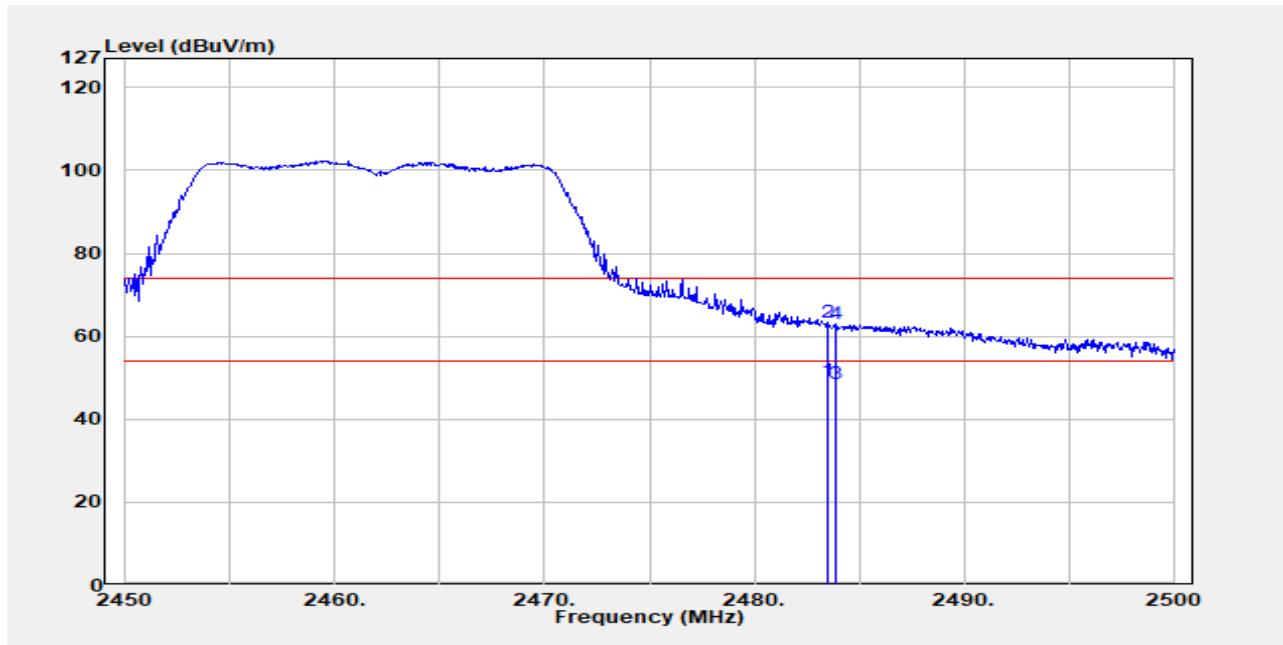
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Report Number :ER/2021/C0048
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Vertical
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.50	Average	49.03	0.13	49.16	54.00	-4.84
2483.50	Peak	63.22	0.13	63.34	74.00	-10.66
2483.90	Average	48.51	0.13	48.64	54.00	-5.36
2483.90	Peak	62.94	0.13	63.07	74.00	-10.93

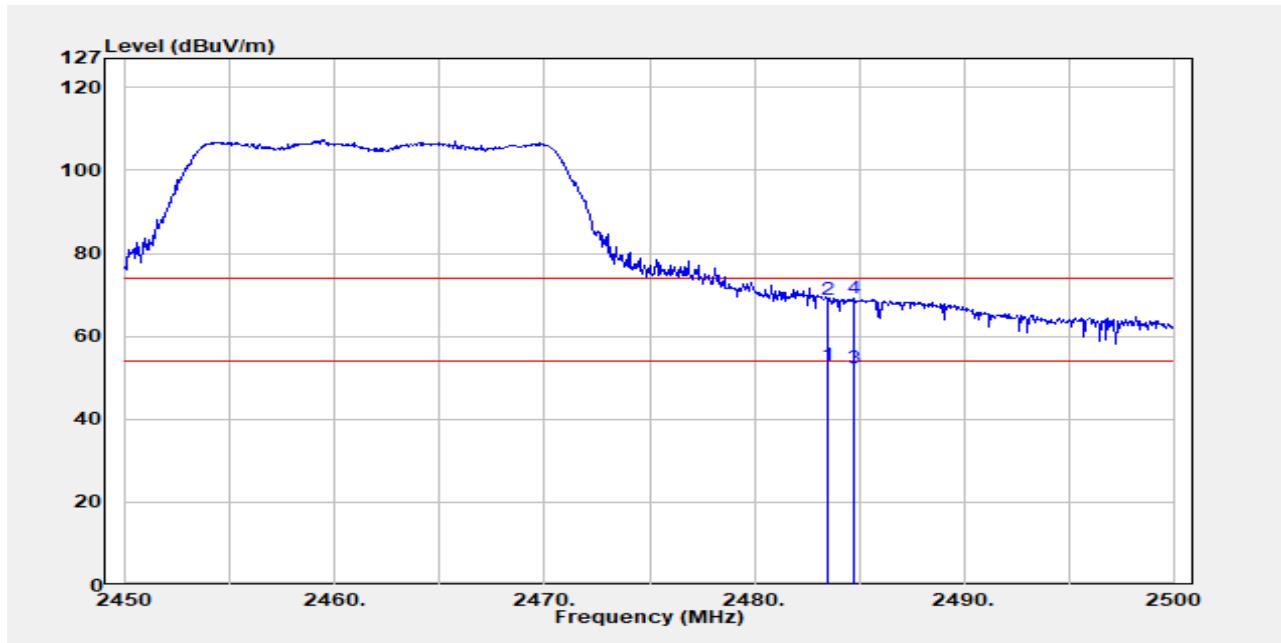
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Report Number :ER/2021/C0048
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Horizontal
 Engineer :Neo Tsai



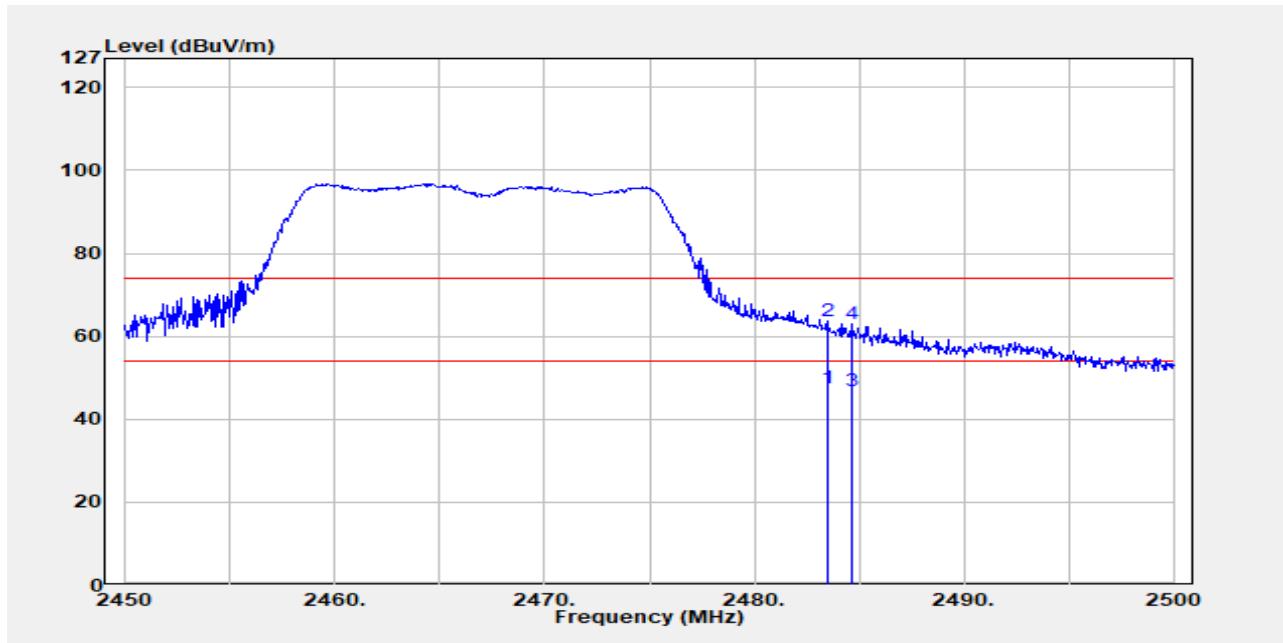
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit @3m	Margin
				FS dB μ V/m	dB μ V/m	dB
2483.50	Average	52.74	0.13	52.87	54.00	-1.13
2483.50	Peak	68.74	0.13	68.86	74.00	-5.14
2484.75	Average	52.05	0.13	52.18	54.00	-1.82
2484.75	Peak	68.95	0.13	69.09	74.00	-4.91

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Report Number :ER/2021/C0048
Operation Mode :802.11n20
Test Frequency :2467 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane
Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Vertical
Engineer :Neo Tsai



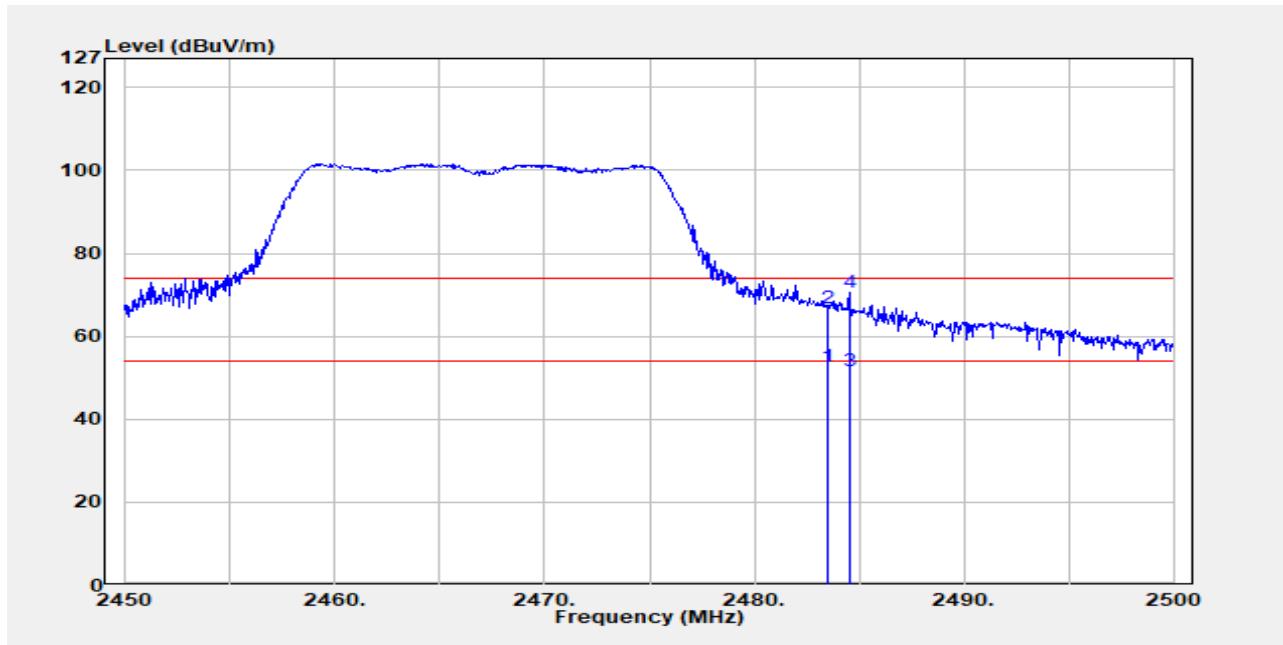
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.50	Average	47.39	0.13	47.52	54.00	-6.48
2483.50	Peak	63.48	0.13	63.61	74.00	-10.39
2484.70	Average	46.75	0.13	46.88	54.00	-7.12
2484.70	Peak	62.87	0.13	63.01	74.00	-10.99

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Report Number :ER/2021/C0048
Operation Mode :802.11n20
Test Frequency :2467 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane
Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Horizontal
Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
2483.50	Average	52.53	0.13	52.66	54.00	-1.34
2483.50	Peak	66.67	0.13	66.80	74.00	-7.20
2484.55	Average	51.45	0.13	51.58	54.00	-2.42
2484.55	Peak	70.31	0.13	70.44	74.00	-3.56

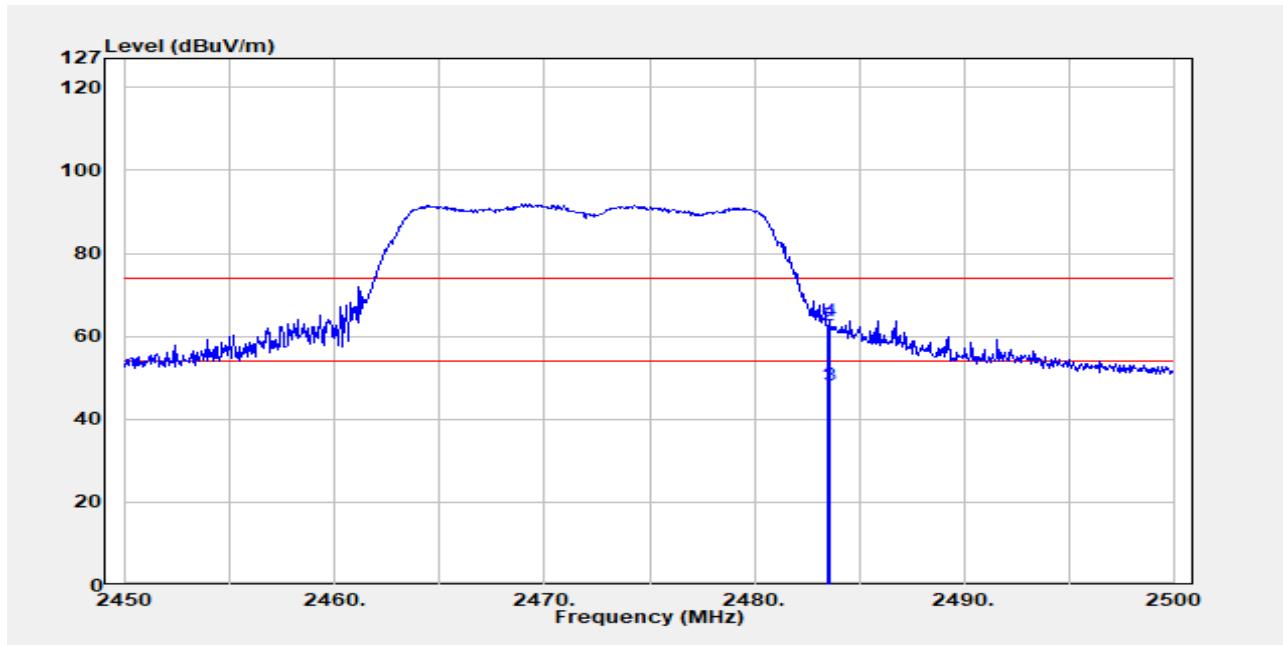
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Report Number :ER/2021/C0048
 Operation Mode :802.11n20
 Test Frequency :2472 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Vertical
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m	Margin
					dB μ V/m	dB
2483.50	Average	48.09	0.13	48.22	54.00	-5.78
2483.50	Peak	62.37	0.13	62.49	74.00	-11.51
2483.65	Average	47.90	0.13	48.03	54.00	-5.97
2483.65	Peak	63.63	0.13	63.75	74.00	-10.25

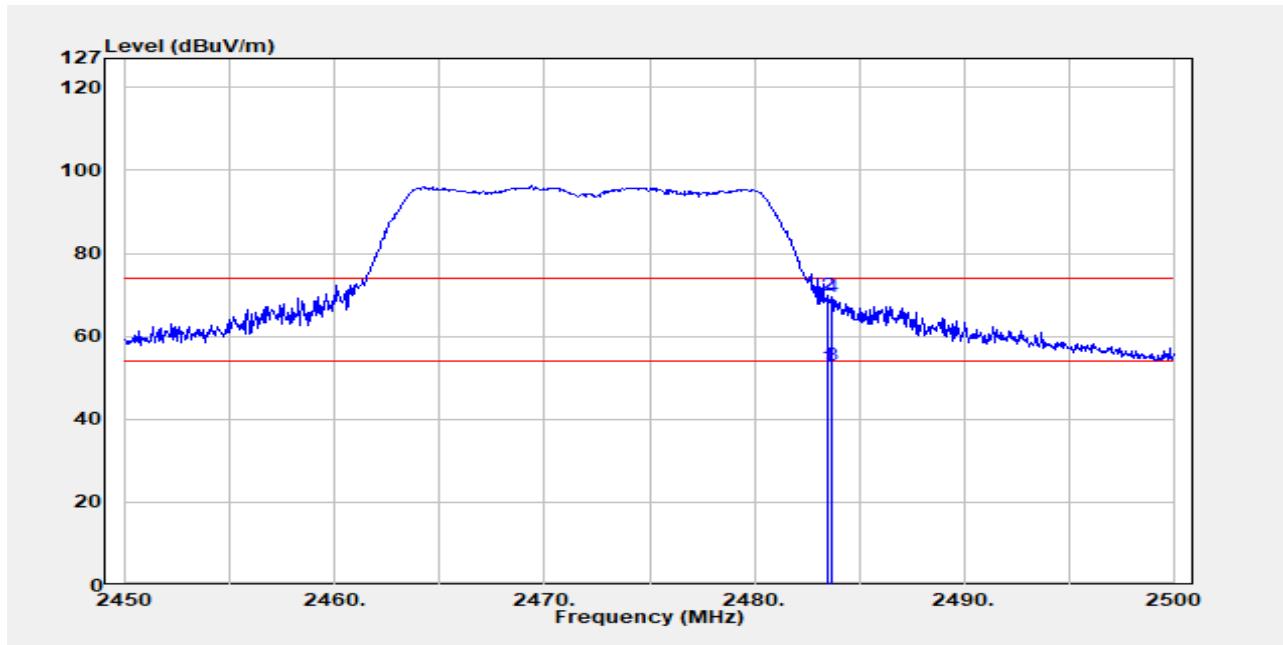
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Report Number :ER/2021/C0048
Operation Mode :802.11n20
Test Frequency :2472 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Horizontal
Engineer :Neo Tsai



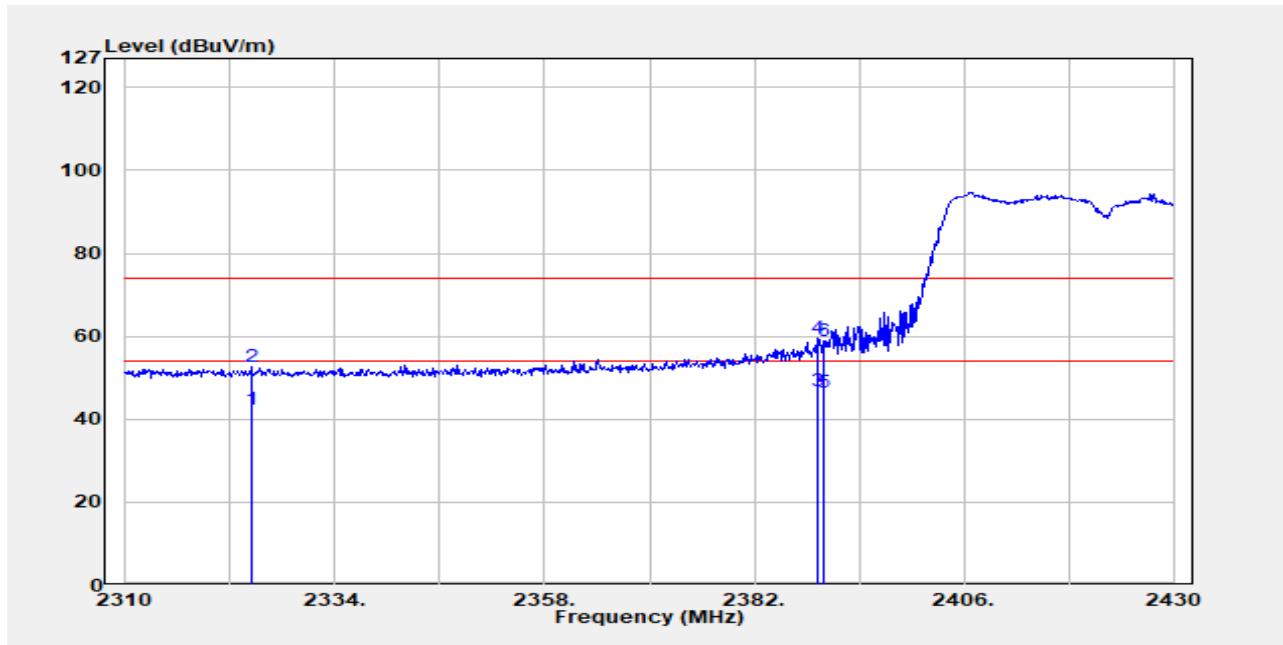
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.50	Average	52.45	0.13	52.58	54.00	-1.42
2483.50	Peak	69.79	0.13	69.92	74.00	-4.08
2483.70	Average	52.83	0.13	52.96	54.00	-1.04
2483.70	Peak	69.54	0.13	69.67	74.00	-4.33

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Report Number :ER/2021/C0048
Operation Mode :802.11n40
Test Frequency :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane
Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Vertical
Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
	PK/QP/AV					
2324.40	Average	41.74	0.51	42.25	54.00	-11.75
2324.40	Peak	52.05	0.51	52.56	74.00	-21.44
2389.20	Average	46.28	0.36	46.64	54.00	-7.36
2389.20	Peak	59.29	0.36	59.66	74.00	-14.34
2390.00	Average	46.23	0.36	46.59	54.00	-7.41
2390.00	Peak	58.41	0.36	58.77	74.00	-15.23

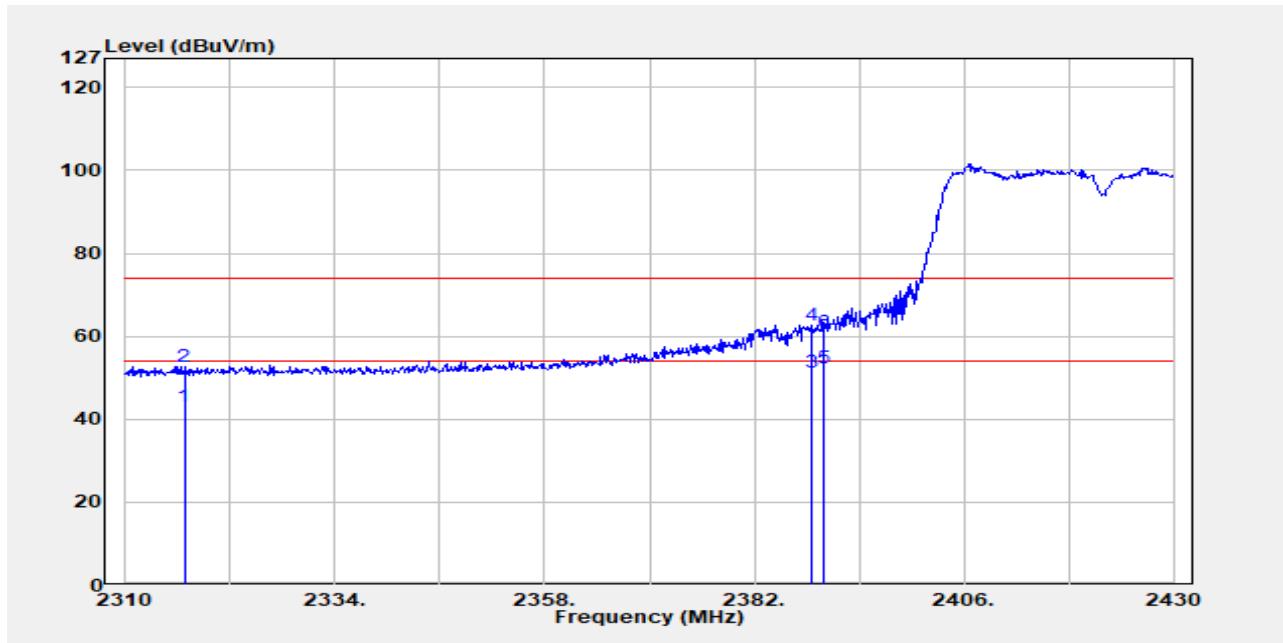
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Report Number :ER/2021/C0048
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Horizontal
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m	Margin
					dB μ V/m	dB
2316.72	Average	42.39	0.50	42.89	54.00	-11.11
2316.72	Peak	52.29	0.50	52.79	74.00	-21.21
2388.48	Average	50.88	0.37	51.25	54.00	-2.75
2388.48	Peak	62.34	0.37	62.70	74.00	-11.30
2390.00	Average	51.95	0.36	52.31	54.00	-1.69
2390.00	Peak	60.67	0.36	61.03	74.00	-12.97

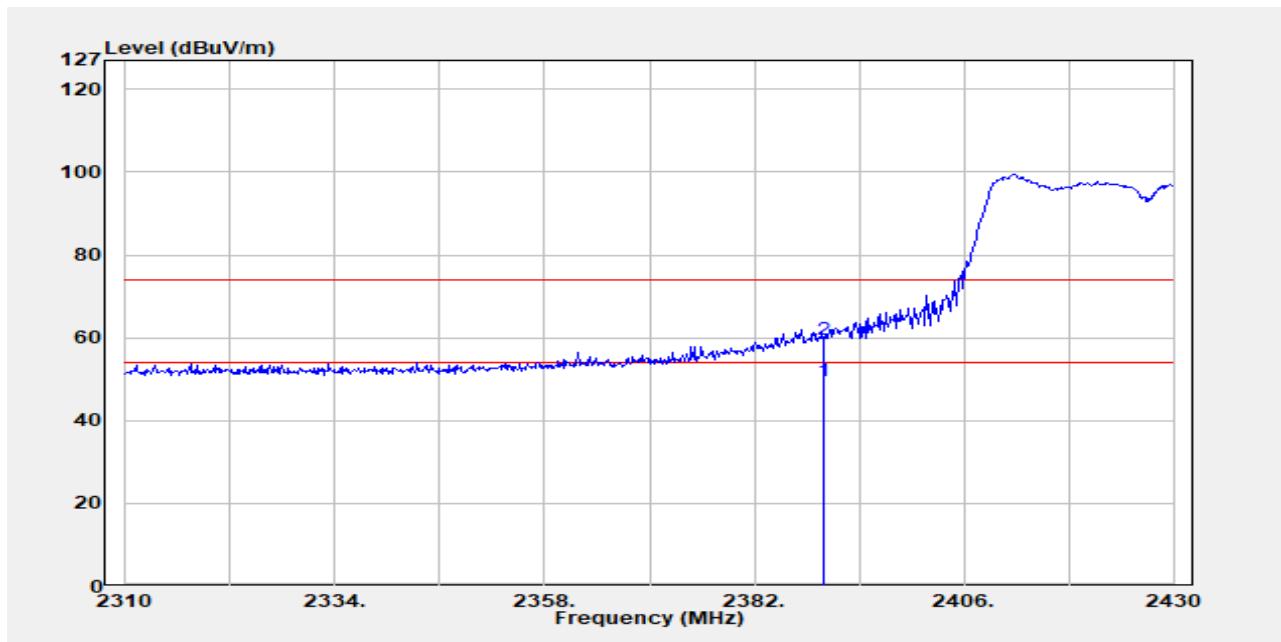
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Report Number :ER/2021/C0048
Operation Mode :802.11n40
Test Frequency :2427 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Vertical
Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2390.00	Average	49.28	0.36	49.64	54.00	-4.36
2390.00	Peak	59.03	0.36	59.39	74.00	-14.61

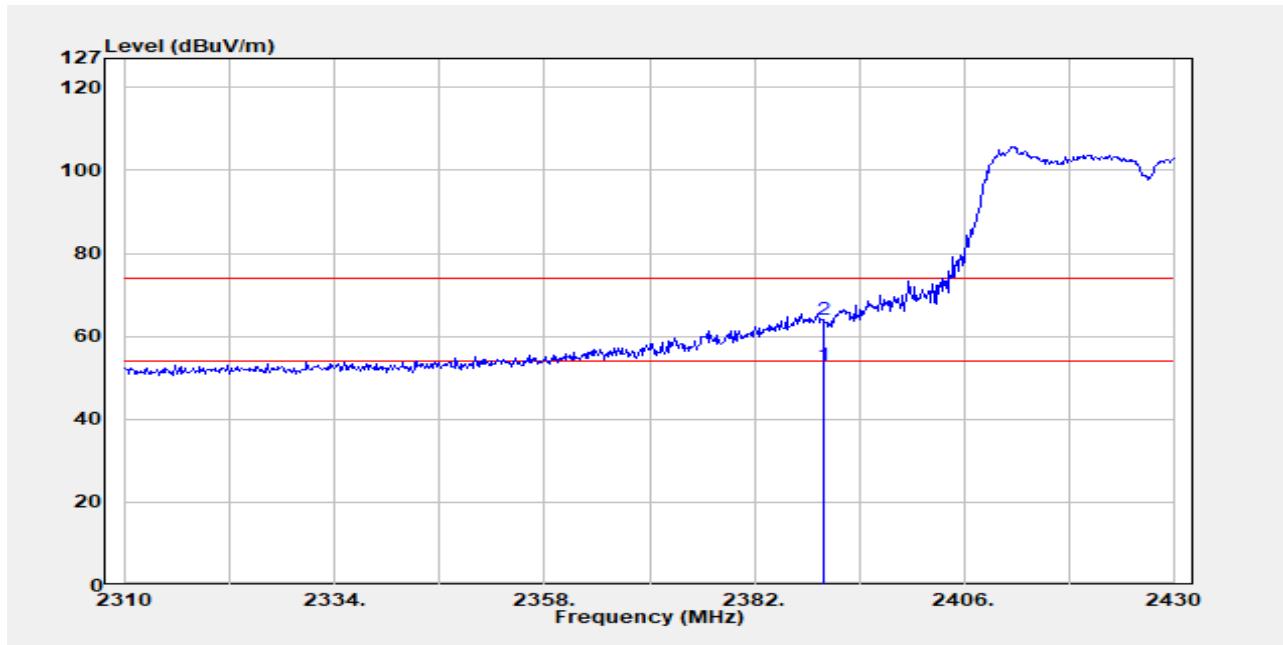
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Report Number :ER/2021/C0048
 Operation Mode :802.11n40
 Test Frequency :2427 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Horizontal
 Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin dB	
2390.00	Average	52.55	0.36	52.91	54.00	-1.09
2390.00	Peak	63.66	0.36	64.02	74.00	-9.98

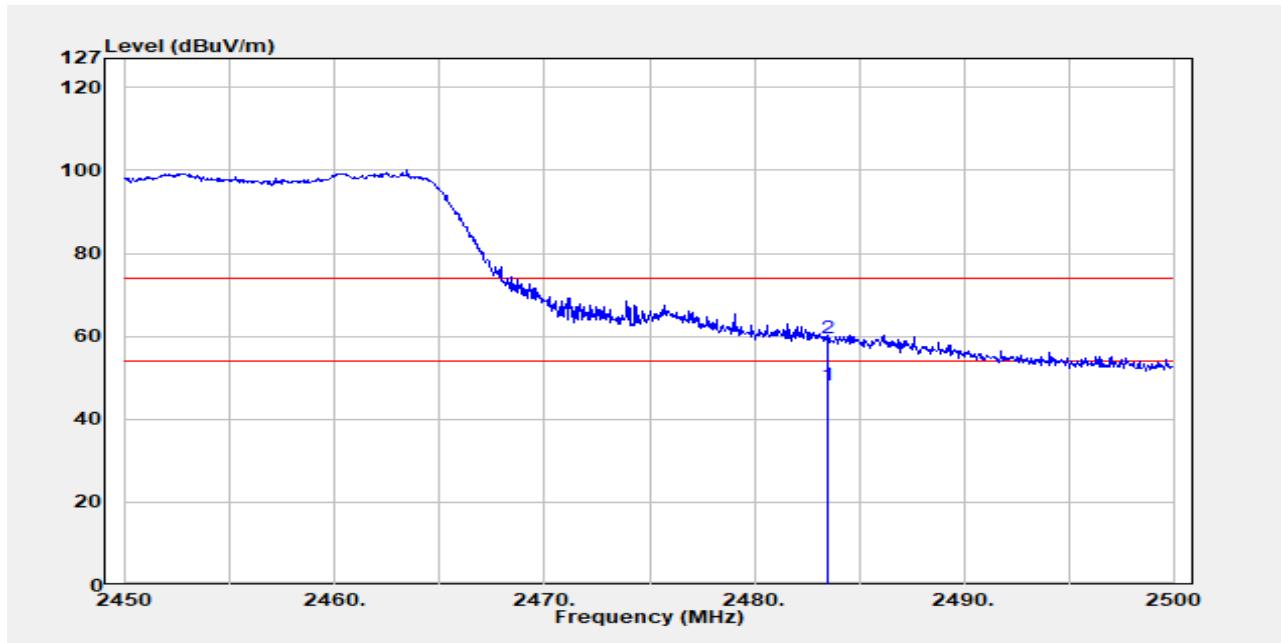
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Report Number :ER/2021/C0048
Operation Mode :802.11n40
Test Frequency :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Vertical
Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.50	Average	48.21	0.13	48.34	54.00	-5.66
2483.50	Peak	59.44	0.13	59.57	74.00	-14.43

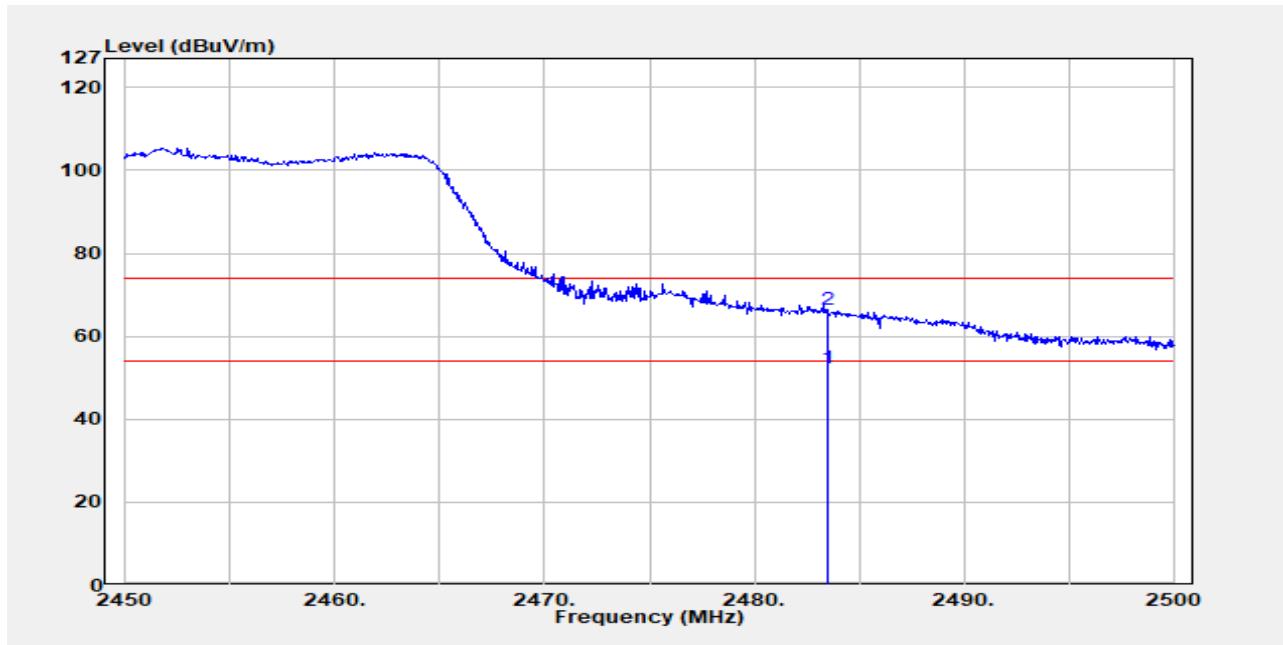
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Report Number :ER/2021/C0048
Operation Mode :802.11n40
Test Frequency :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Horizontal
Engineer :Neo Tsai



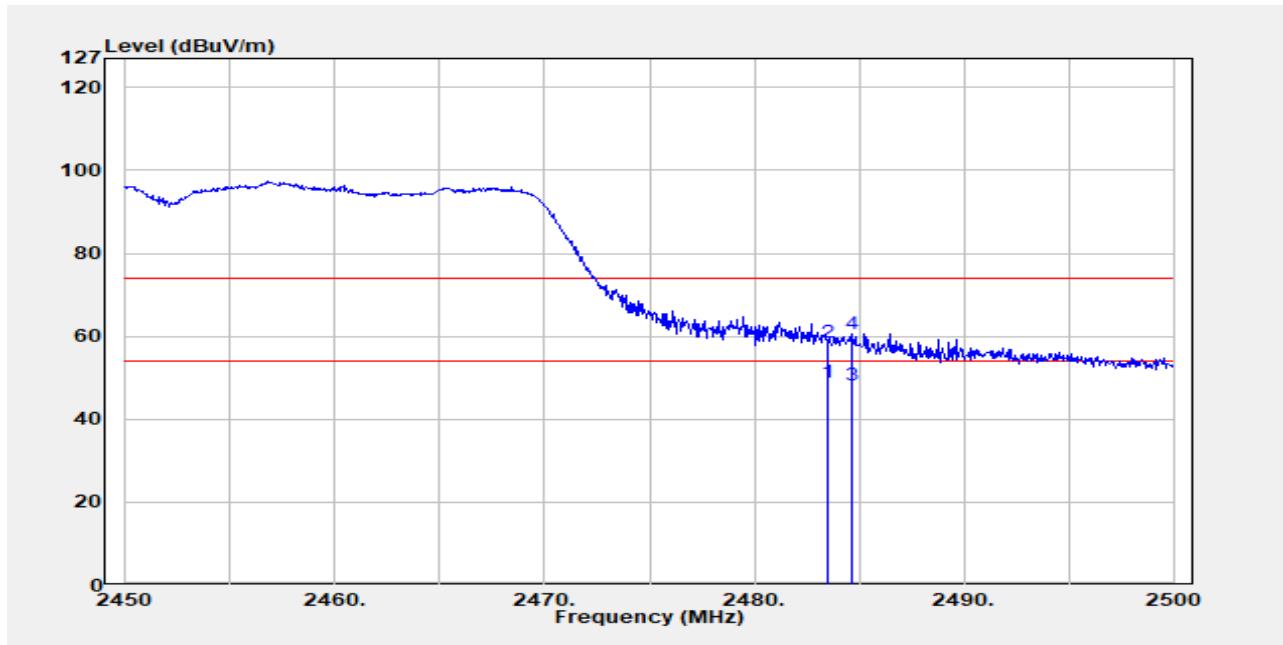
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
2483.50	Average	52.33	0.13	52.46	54.00	-1.54
2483.50	Peak	66.26	0.13	66.38	74.00	-7.62

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Report Number :ER/2021/C0048
Operation Mode :802.11n40
Test Frequency :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane
Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Vertical
Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m	Margin
					dB μ V/m	dB
2483.50	Average	48.89	0.13	49.02	54.00	-4.98
2483.50	Peak	58.48	0.13	58.60	74.00	-15.40
2484.70	Average	47.95	0.13	48.08	54.00	-5.92
2484.70	Peak	60.40	0.13	60.53	74.00	-13.47

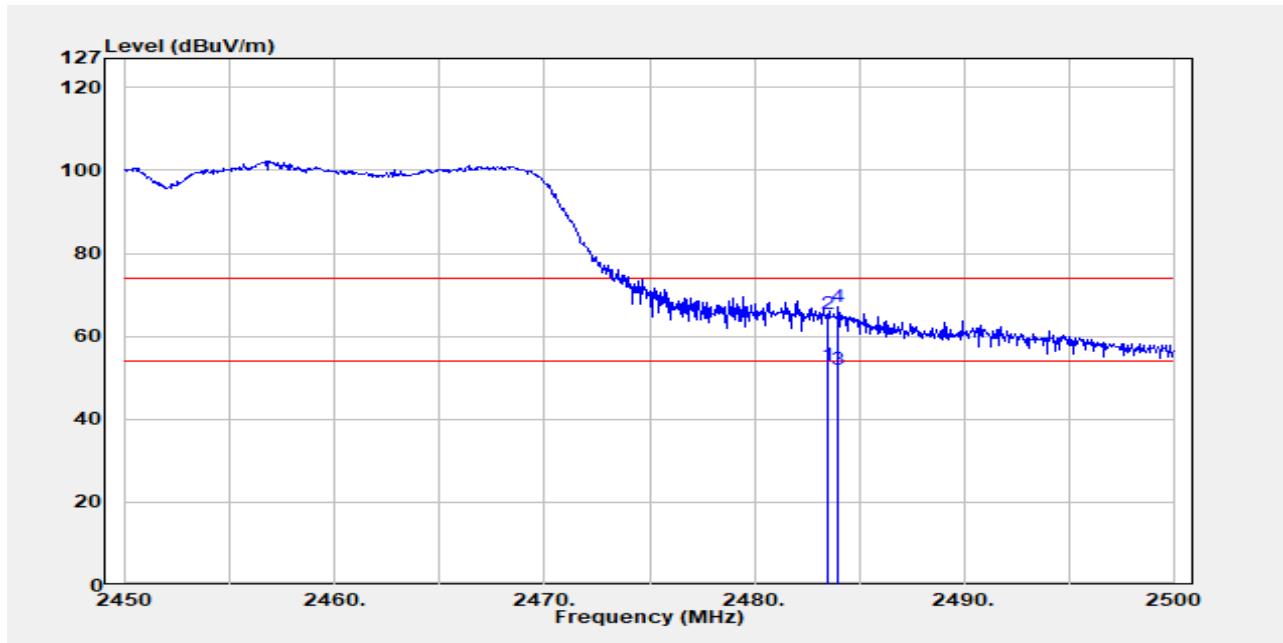
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Report Number :ER/2021/C0048
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Horizontal
 Engineer :Neo Tsai



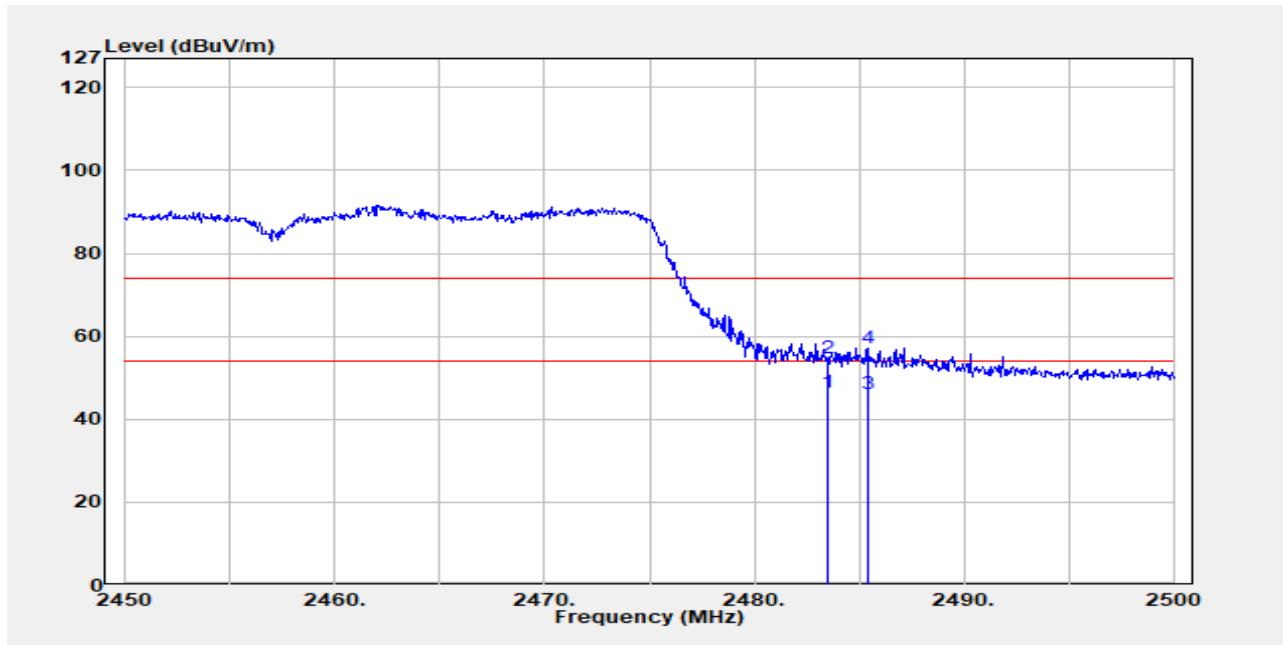
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m	Margin
					dB μ V/m	dB
2483.50	Average	52.83	0.13	52.96	54.00	-1.04
2483.50	Peak	65.34	0.13	65.46	74.00	-8.54
2484.00	Average	51.97	0.13	52.10	54.00	-1.90
2484.00	Peak	66.97	0.13	67.10	74.00	-6.90

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Report Number :ER/2021/C0048
Operation Mode :802.11n40
Test Frequency :2457 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane
Test Site :SAC 1
Test Date :2021-12-24
Temp./Humi. :25.0/67
Antenna Pol. :Vertical
Engineer :Neo Tsai



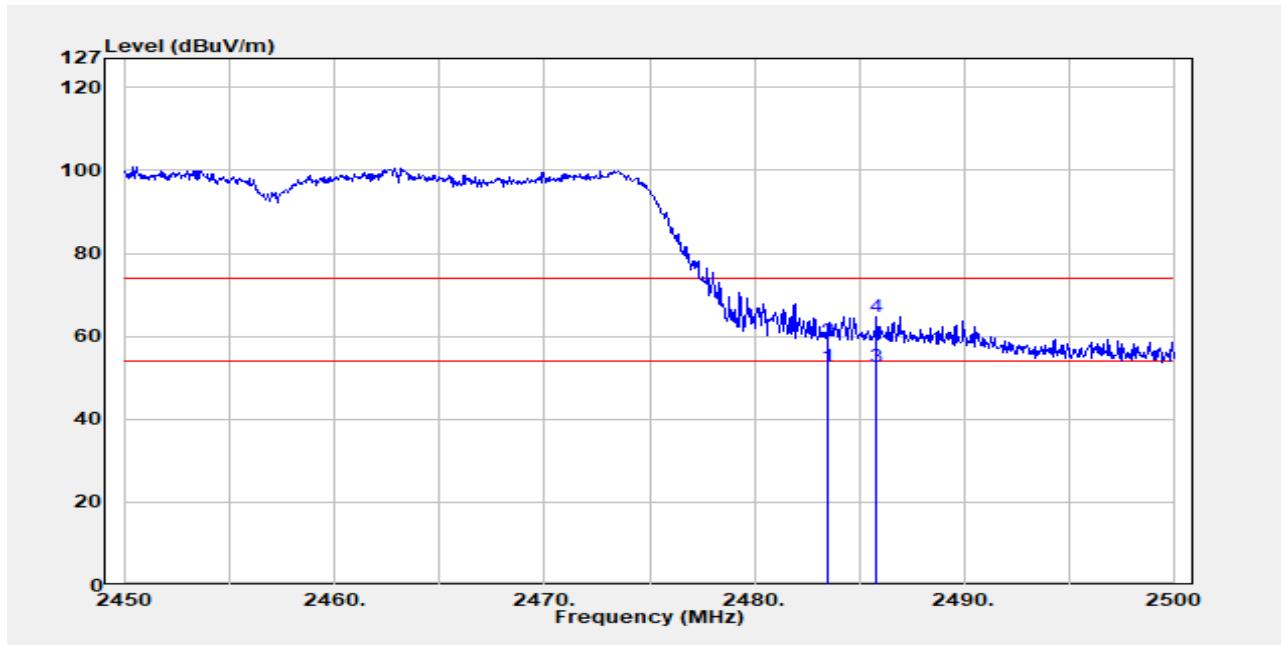
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
	PK/QP/AV					
2483.50	Average	46.27	0.13	46.40	54.00	-7.60
2483.50	Peak	54.76	0.13	54.88	74.00	-19.12
2485.40	Average	46.06	0.14	46.20	54.00	-7.80
2485.40	Peak	56.97	0.14	57.11	74.00	-16.89

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Report Number :ER/2021/C0048
 Operation Mode :802.11n40
 Test Frequency :2457 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Horizontal
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m	Margin
					dB μ V/m	dB
2483.50	Average	52.39	0.13	52.52	54.00	-1.48
2483.50	Peak	58.74	0.13	58.87	74.00	-15.13
2485.85	Average	52.66	0.14	52.80	54.00	-1.20
2485.85	Peak	64.71	0.14	64.85	74.00	-9.15

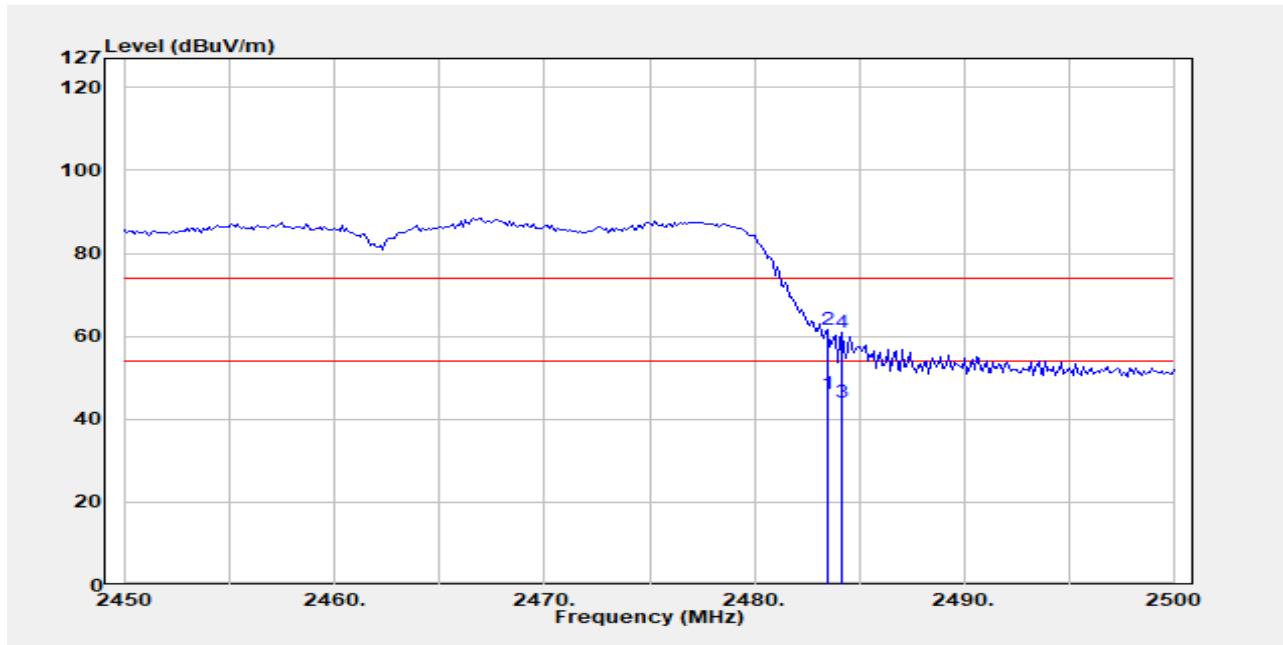
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Report Number :ER/2021/C0048
 Operation Mode :802.11n40
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Vertical
 Engineer :Neo Tsai



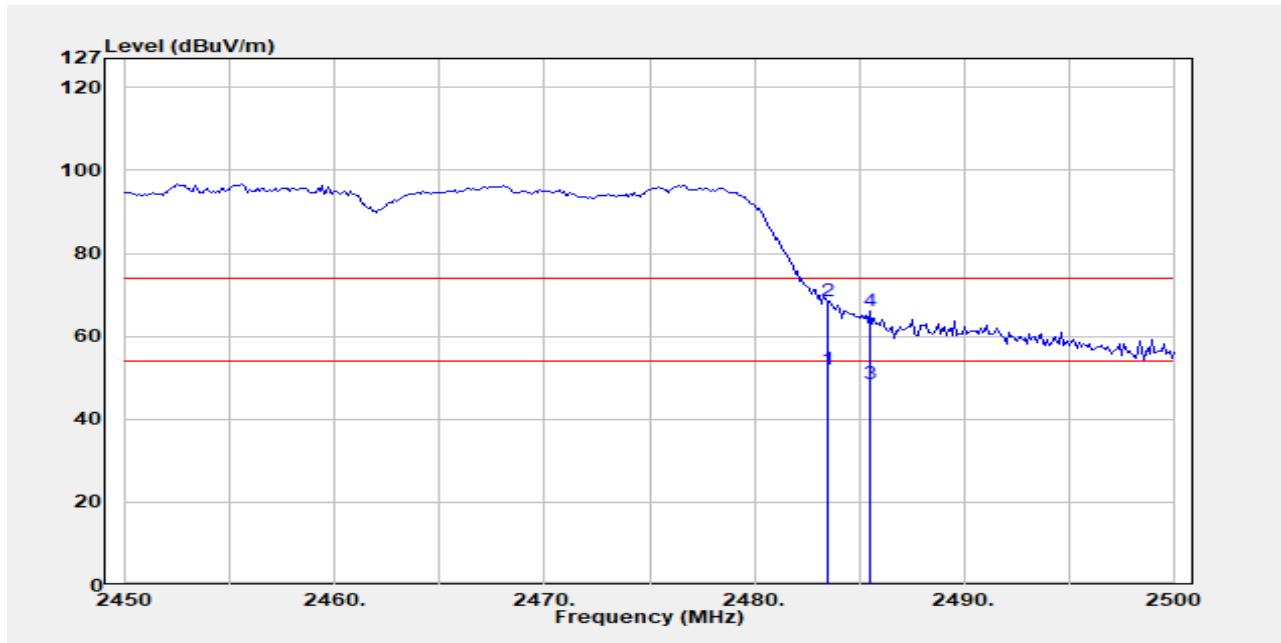
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m	Margin
					dB μ V/m	dB
2483.50	Average	45.96	0.13	46.09	54.00	-7.91
2483.50	Peak	61.42	0.13	61.54	74.00	-12.46
2484.20	Average	44.09	0.13	44.22	54.00	-9.78
2484.20	Peak	60.91	0.13	61.04	74.00	-12.96

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Report Number :ER/2021/C0048
 Operation Mode :802.11n40
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-24
 Temp./Humi. :25.0/67
 Antenna Pol. :Horizontal
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
2483.50	Average	51.88	0.13	52.01	54.00	-1.99
2483.50	Peak	68.38	0.13	68.50	74.00	-5.50
2485.50	Average	48.36	0.14	48.50	54.00	-5.50
2485.50	Peak	65.89	0.14	66.03	74.00	-7.97

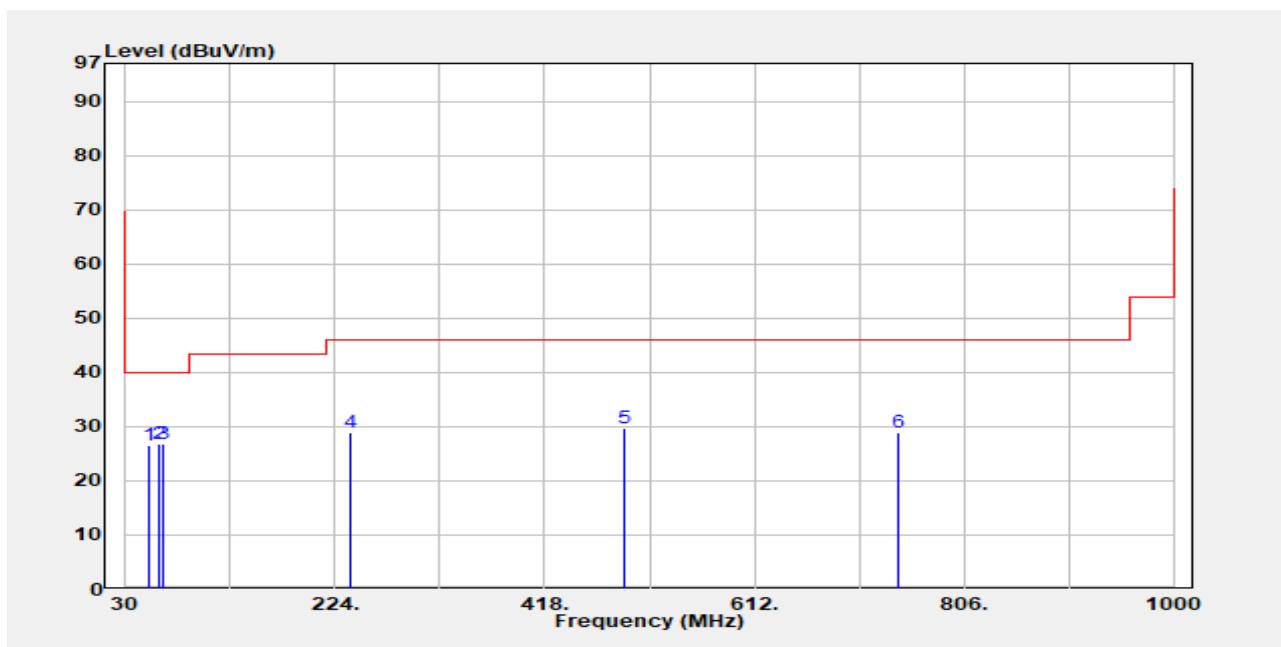
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12.6.2 Spurious Emission:

Report Number	:ER/2021/C0048	Test Site	:SAC 1
Operation Mode	:802.11g	Test Date	:2021-12-30
Test Frequency	:2437 MHz	Temp./Humi.	:22.8/64
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Neo Tsai



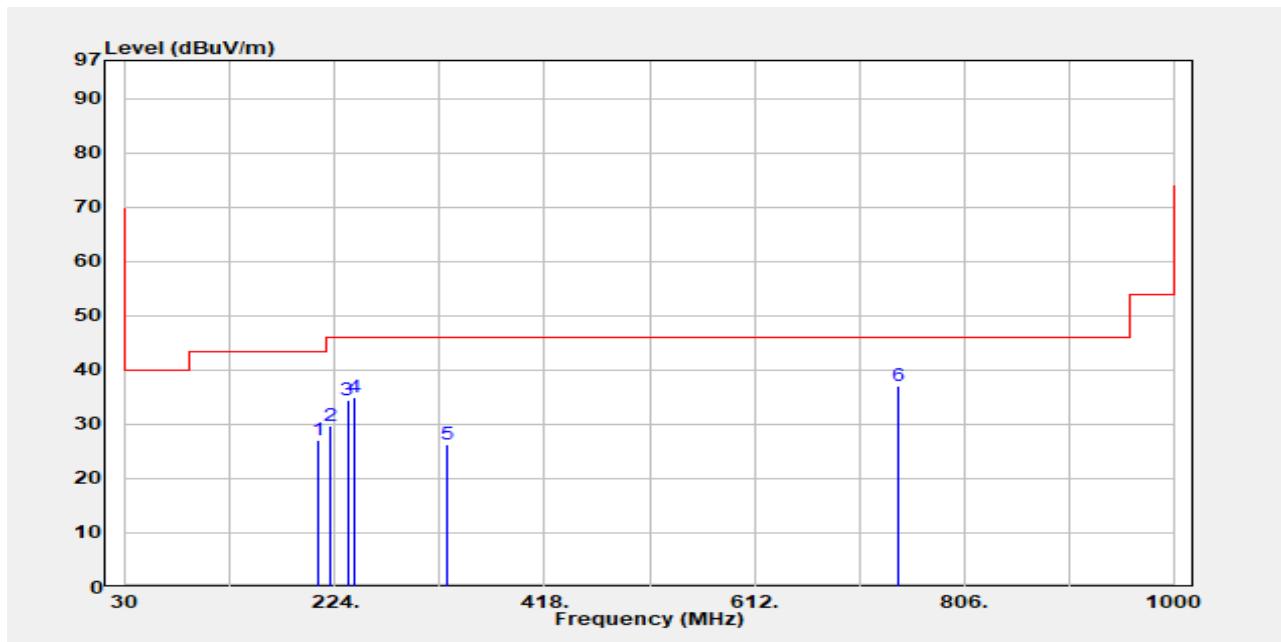
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit @3m	Margin
				FS dB μ V/m	dB μ V/m	dB
51.02	Peak	42.84	-16.21	26.62	40.00	-13.38
60.72	Peak	44.81	-17.97	26.84	40.00	-13.16
65.57	Peak	44.82	-18.06	26.77	40.00	-13.23
238.55	Peak	40.31	-11.45	28.86	46.00	-17.14
492.37	Peak	35.55	-5.85	29.70	46.00	-16.30
746.18	Peak	31.67	-2.80	28.87	46.00	-17.13

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Report Number :ER/2021/C0048
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Site :SAC 1
Test Date :2021-12-30
Temp./Humi. :22.8/64
Antenna Pol. :Horizontal
Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
207.83	Peak	40.42	-13.44	26.98	43.50	-16.52
219.15	Peak	43.26	-13.63	29.64	46.00	-16.36
235.32	Peak	46.42	-11.89	34.53	46.00	-11.47
241.78	Peak	45.97	-11.05	34.92	46.00	-11.08
327.47	Peak	35.04	-8.70	26.33	46.00	-19.67
746.18	Peak	39.78	-2.80	36.97	46.00	-9.03

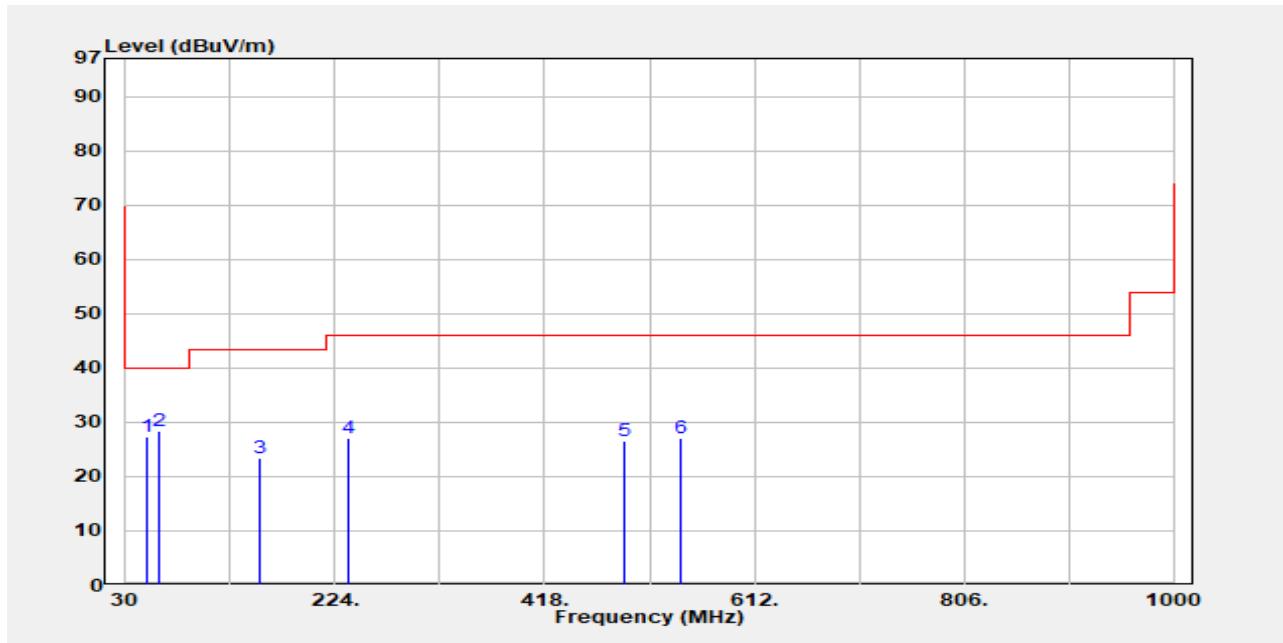
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Report Number :ER/2021/C0048
 Operation Mode :800.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-30
 Temp./Humi. :22.8/64
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
49.40	Peak	42.81	-15.44	27.37	40.00	-12.63
60.72	Peak	46.33	-17.97	28.36	40.00	-11.64
154.48	Peak	36.39	-12.99	23.40	43.50	-20.10
236.93	Peak	38.82	-11.67	27.16	46.00	-18.84
492.37	Peak	32.47	-5.85	26.62	46.00	-19.38
544.10	Peak	30.69	-3.62	27.07	46.00	-18.93

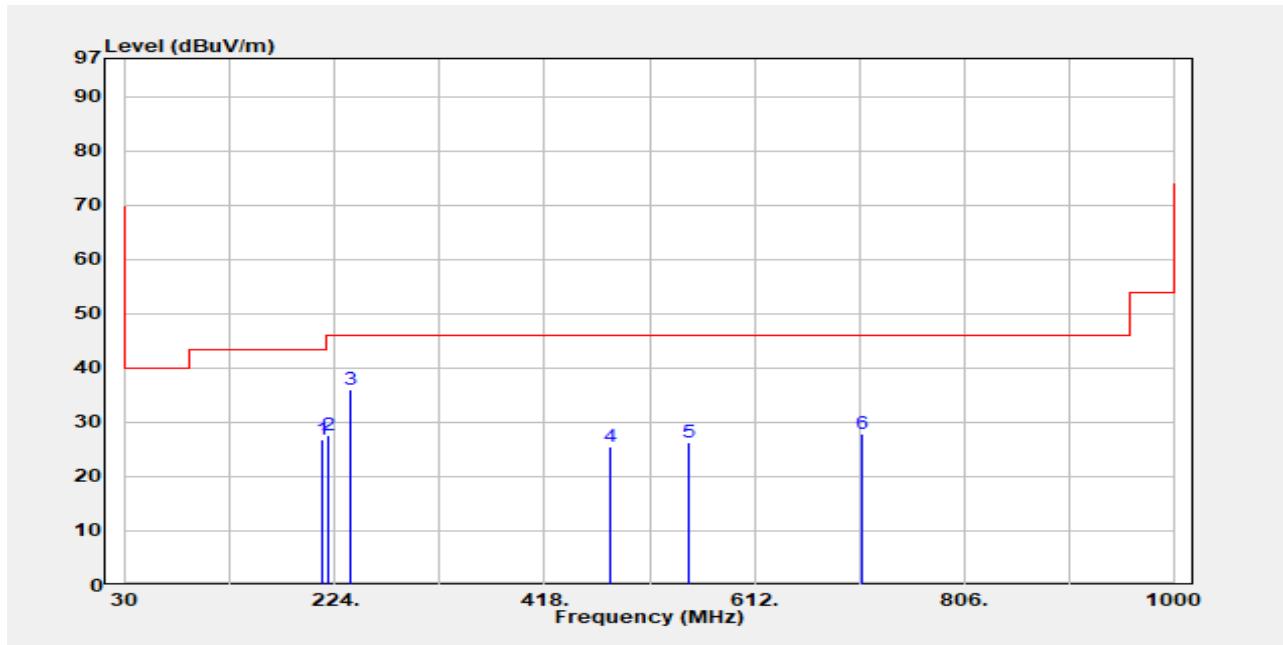
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Report Number :ER/2021/C0048
 Operation Mode :800.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-30
 Temp./Humi. :22.8/64
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
212.68	Peak	40.42	-13.71	26.71	43.50	-16.79
217.53	Peak	41.40	-13.73	27.67	46.00	-18.33
238.55	Peak	47.55	-11.45	36.10	46.00	-9.90
479.43	Peak	31.39	-5.95	25.44	46.00	-20.56
550.57	Peak	30.01	-3.70	26.32	46.00	-19.68
712.23	Peak	31.50	-3.69	27.81	46.00	-18.19

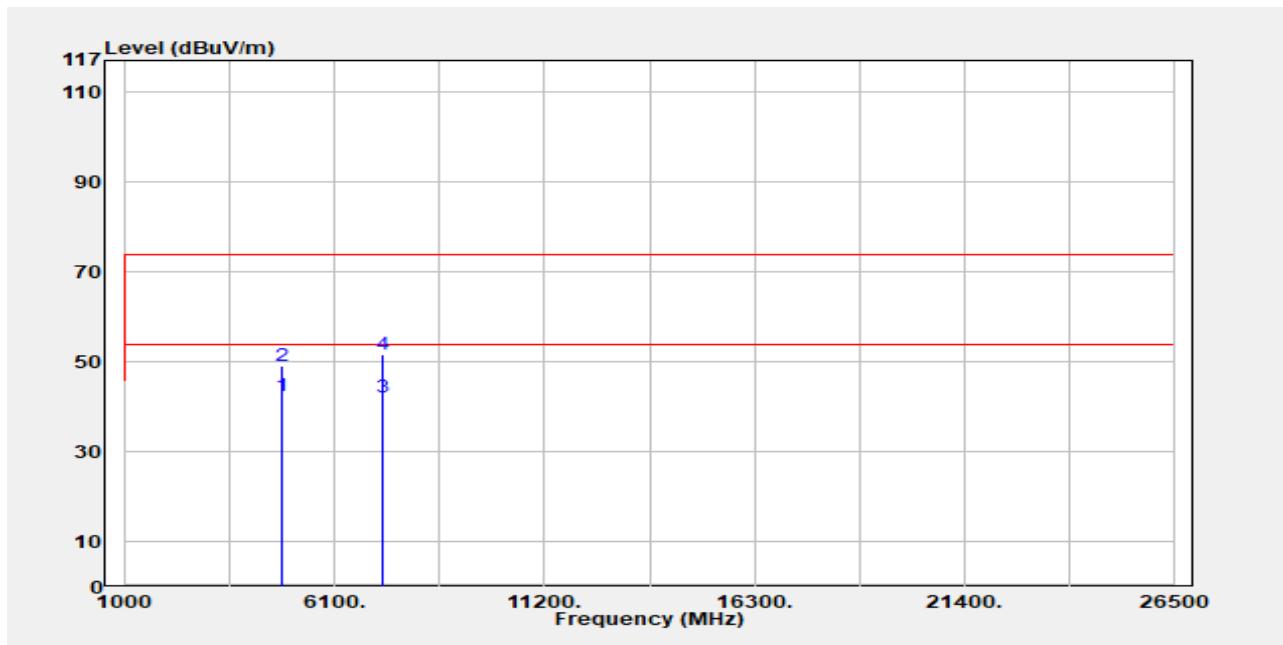
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Report Number :ER/2021/C0048
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



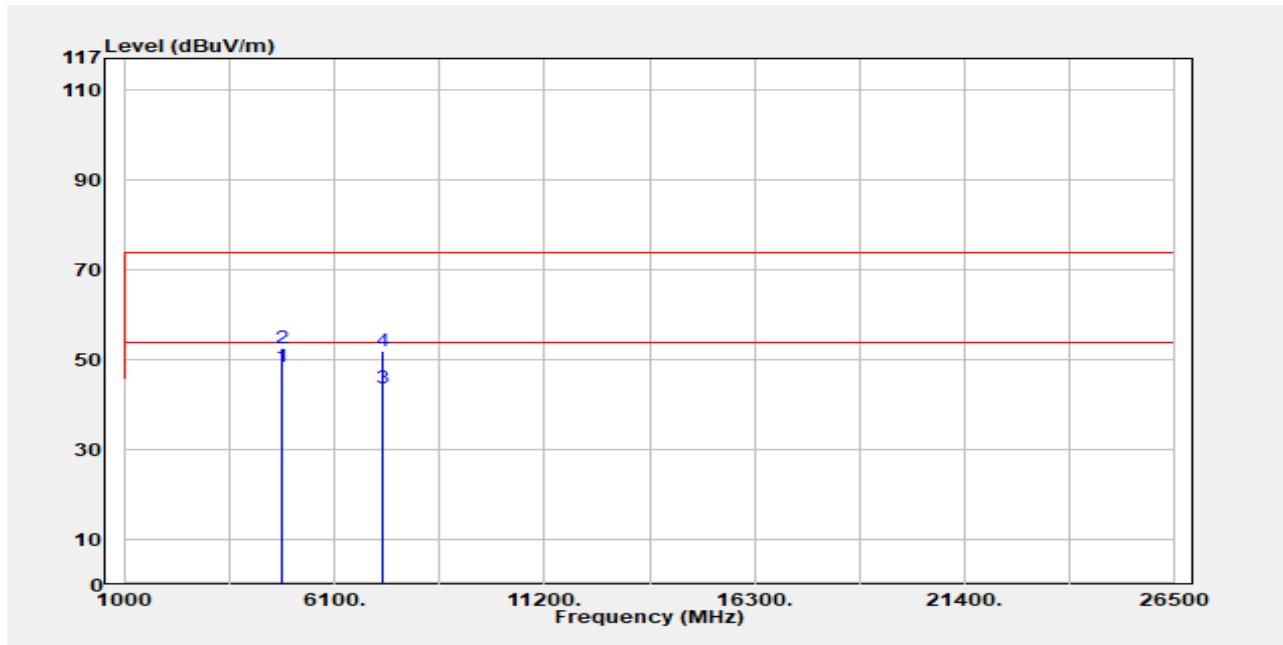
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
	PK/QP/AV					
4824.00	Average	35.54	7.01	42.55	54.00	-11.45
4824.00	Peak	42.06	7.01	49.07	74.00	-24.93
7236.00	Average	26.34	15.68	42.02	54.00	-11.98
7236.00	Peak	36.14	15.68	51.82	74.00	-22.18

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Report Number :ER/2021/C0048
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



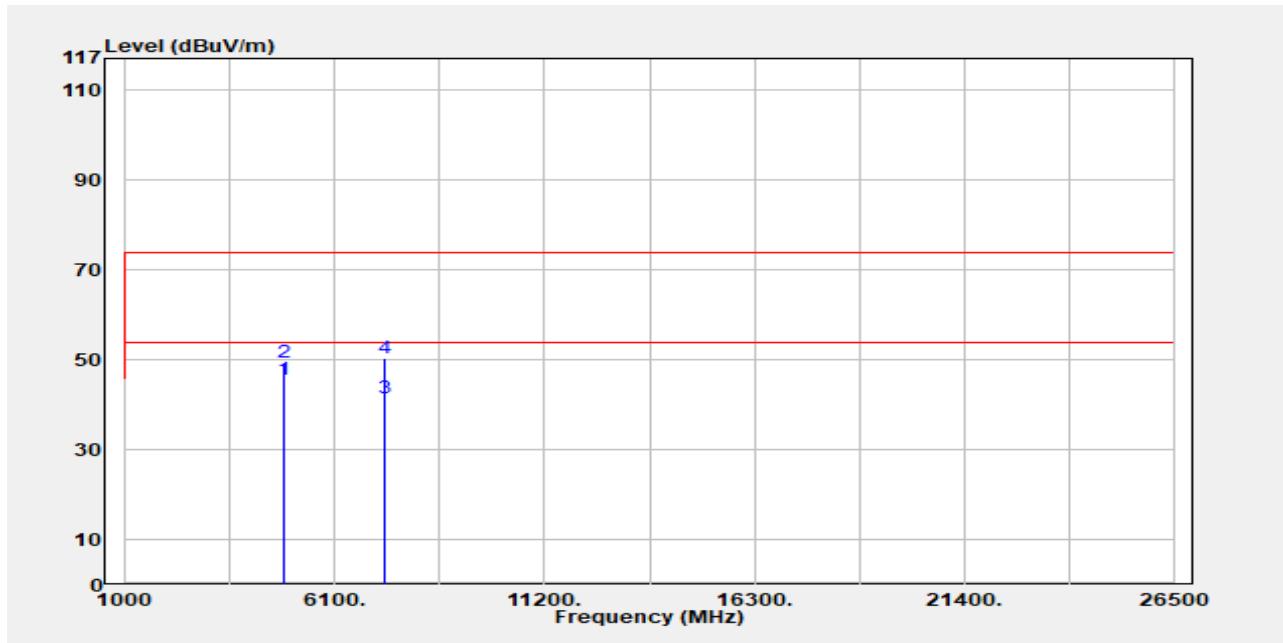
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin	
PK/QP/AV	dB μ V	Margin				
4824.00	Average	41.64	7.01	48.65	54.00	-5.35
4824.00	Peak	45.50	7.01	52.51	74.00	-21.49
7236.00	Average	28.05	15.68	43.73	54.00	-10.27
7236.00	Peak	36.40	15.68	52.07	74.00	-21.93

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Report Number :ER/2021/C0048
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



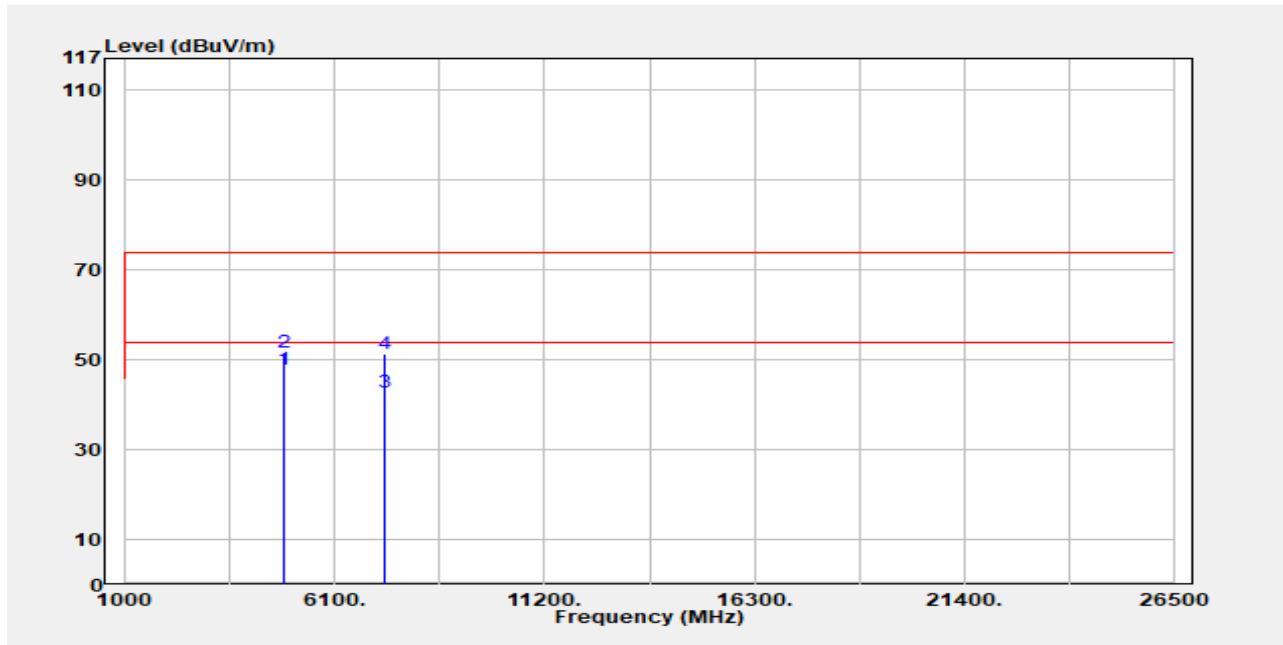
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin dB	
4874.00	Average	38.75	7.03	45.78	54.00	-8.22
4874.00	Peak	42.38	7.03	49.41	74.00	-24.59
7311.00	Average	26.38	15.10	41.48	54.00	-12.52
7311.00	Peak	35.22	15.10	50.32	74.00	-23.68

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Report Number :ER/2021/C0048
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



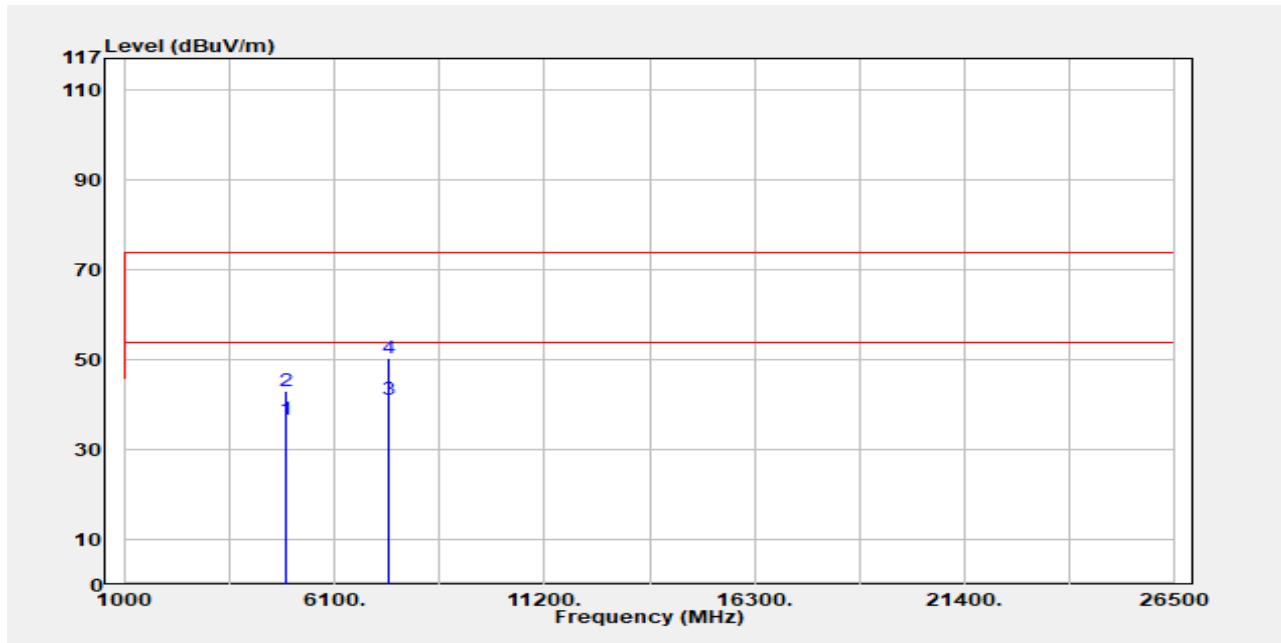
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin dB	
4874.00	Average	41.00	7.03	48.03	54.00	-5.97
4874.00	Peak	44.59	7.03	51.62	74.00	-22.38
7311.00	Average	27.83	15.10	42.93	54.00	-11.07
7311.00	Peak	36.12	15.10	51.22	74.00	-22.78

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Report Number :ER/2021/C0048
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



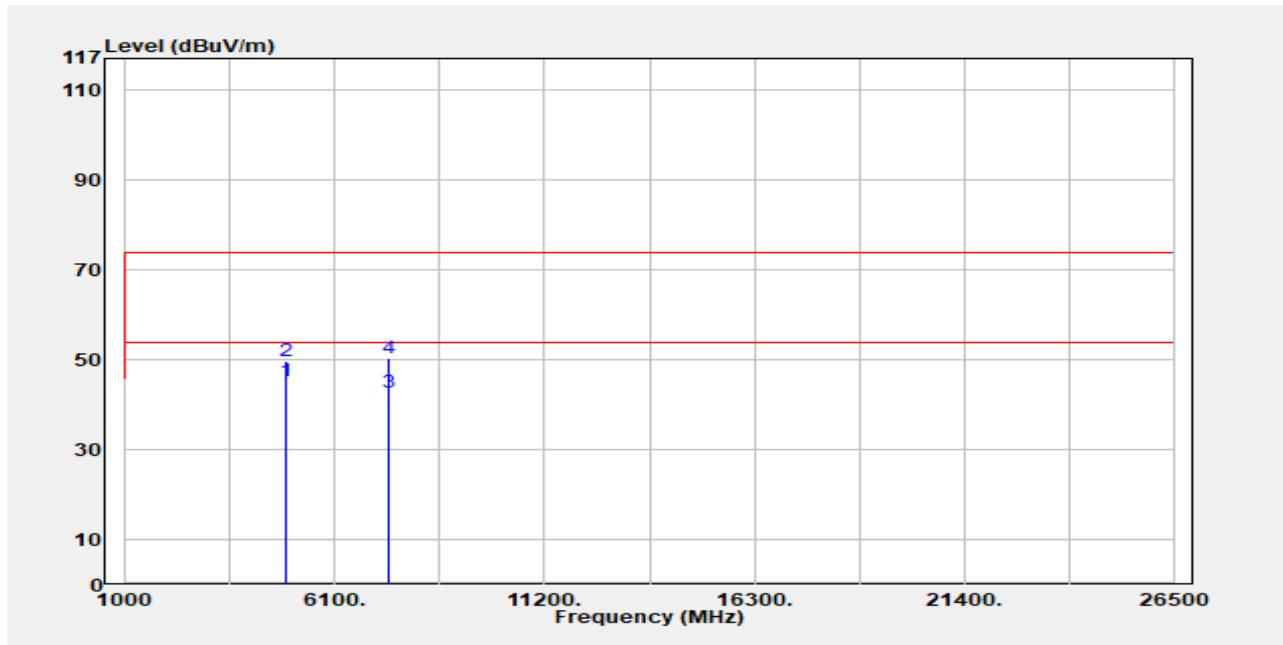
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
4924.00	Average	29.65	7.11	36.76	54.00	-17.24
4924.00	Peak	36.06	7.11	43.17	74.00	-30.83
7386.00	Average	26.66	14.69	41.35	54.00	-12.65
7386.00	Peak	35.68	14.69	50.37	74.00	-23.63

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Report Number :ER/2021/C0048
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



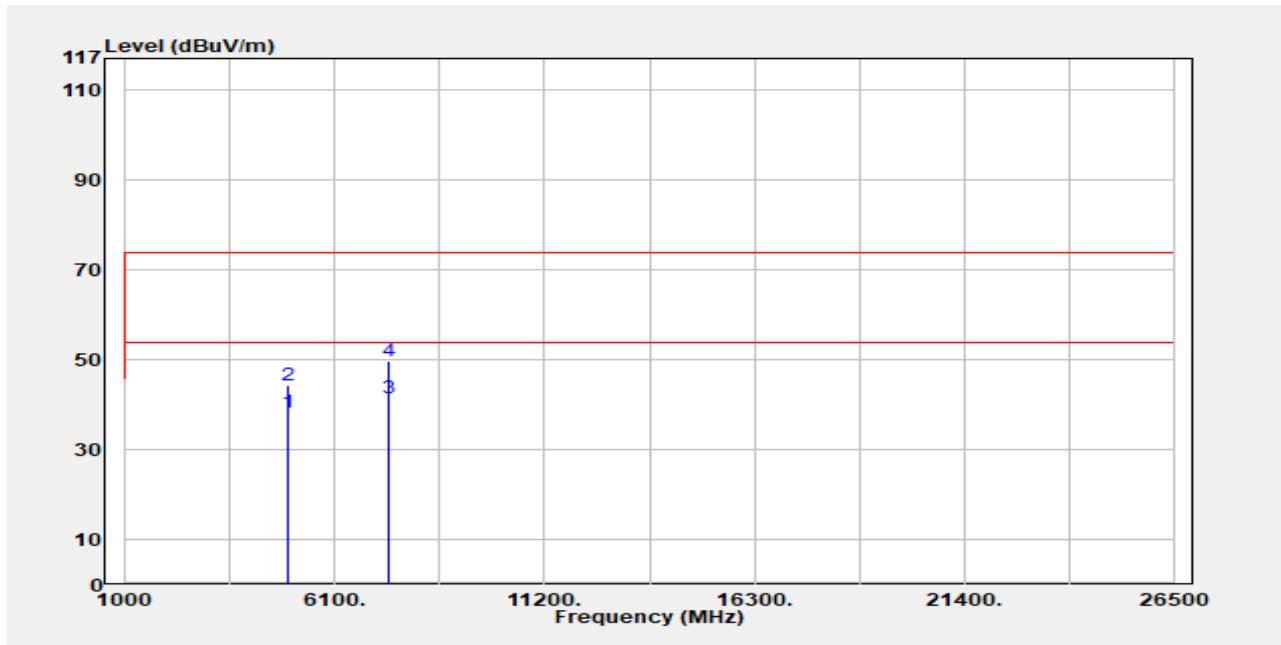
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin dB	
4924.00	Average	38.09	7.11	45.20	54.00	-8.80
4924.00	Peak	42.74	7.11	49.85	74.00	-24.15
7386.00	Average	28.22	14.69	42.91	54.00	-11.09
7386.00	Peak	35.71	14.69	50.40	74.00	-23.60

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Report Number :ER/2021/C0048
 Operation Mode :802.11b
 Test Frequency :2467 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



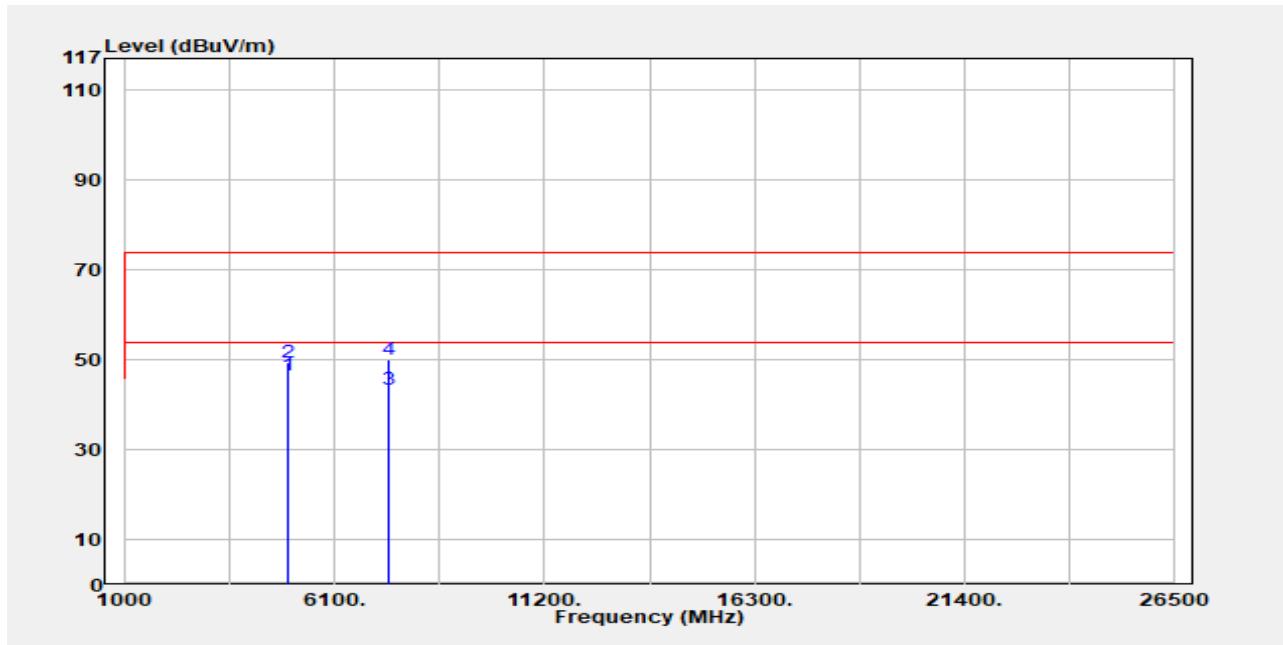
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
4934.00	Average	31.11	7.22	38.33	54.00	-15.67
4934.00	Peak	37.22	7.22	44.44	74.00	-29.56
7401.00	Average	26.97	14.56	41.53	54.00	-12.47
7401.00	Peak	35.36	14.56	49.92	74.00	-24.08

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Report Number :ER/2021/C0048
 Operation Mode :802.11b
 Test Frequency :2467 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



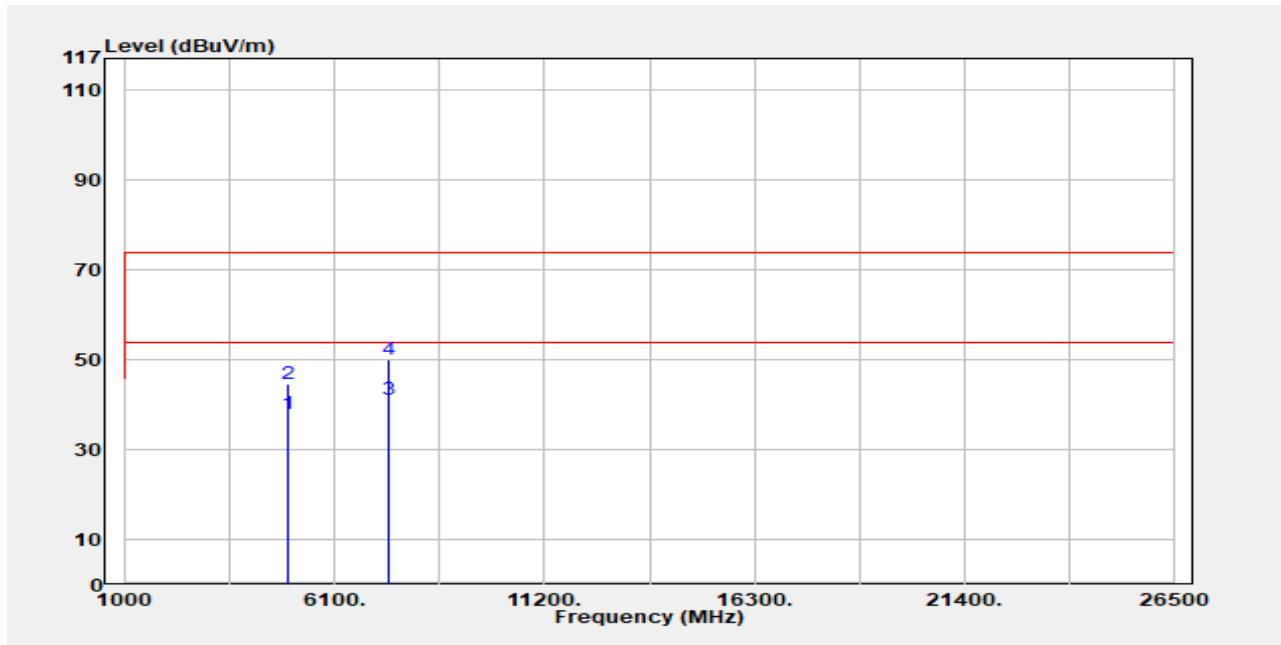
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
4934.00	Average	39.32	7.22	46.54	54.00	-7.46
4934.00	Peak	42.20	7.22	49.42	74.00	-24.58
7401.00	Average	28.82	14.56	43.38	54.00	-10.62
7401.00	Peak	35.47	14.56	50.03	74.00	-23.97

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Report Number :ER/2021/C0048
 Operation Mode :802.11b
 Test Frequency :2472 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



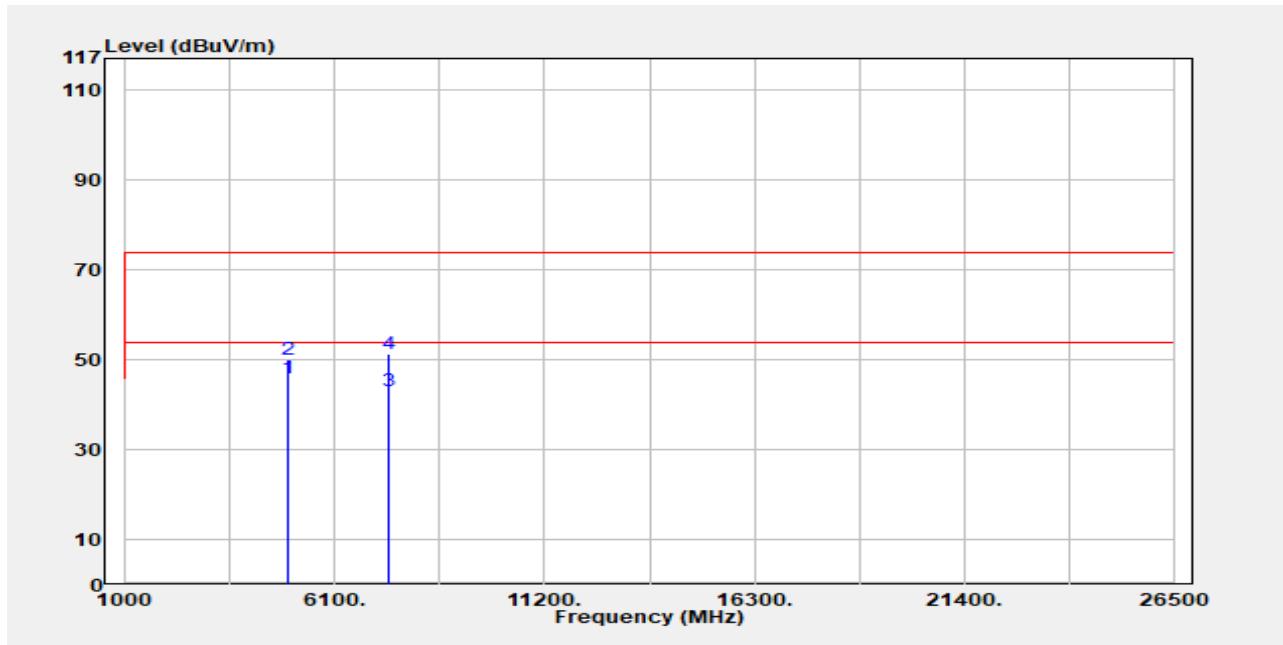
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
4944.00	Average	30.55	7.44	37.99	54.00	-16.01
4944.00	Peak	37.39	7.44	44.83	74.00	-29.17
7416.00	Average	26.70	14.59	41.29	54.00	-12.71
7416.00	Peak	35.56	14.59	50.15	74.00	-23.85

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Report Number :ER/2021/C0048
 Operation Mode :802.11b
 Test Frequency :2472 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
4944.00	Average	38.63	7.44	46.07	54.00	-7.93
4944.00	Peak	42.61	7.44	50.05	74.00	-23.95
7416.00	Average	28.61	14.59	43.20	54.00	-10.80
7416.00	Peak	36.71	14.59	51.30	74.00	-22.70

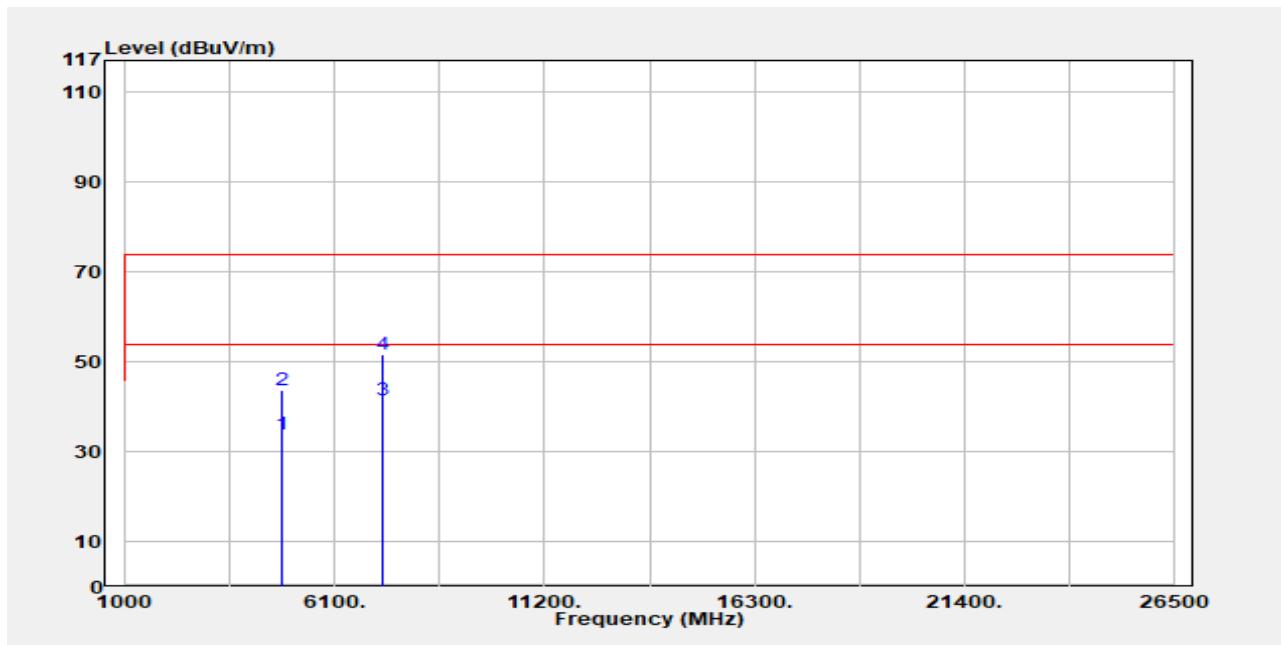
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Report Number :ER/2021/C0048
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
4824.00	Average	27.06	7.01	34.07	54.00	-19.93
4824.00	Peak	36.63	7.01	43.63	74.00	-30.37
7236.00	Average	26.00	15.68	41.68	54.00	-12.32
7236.00	Peak	35.91	15.68	51.59	74.00	-22.41

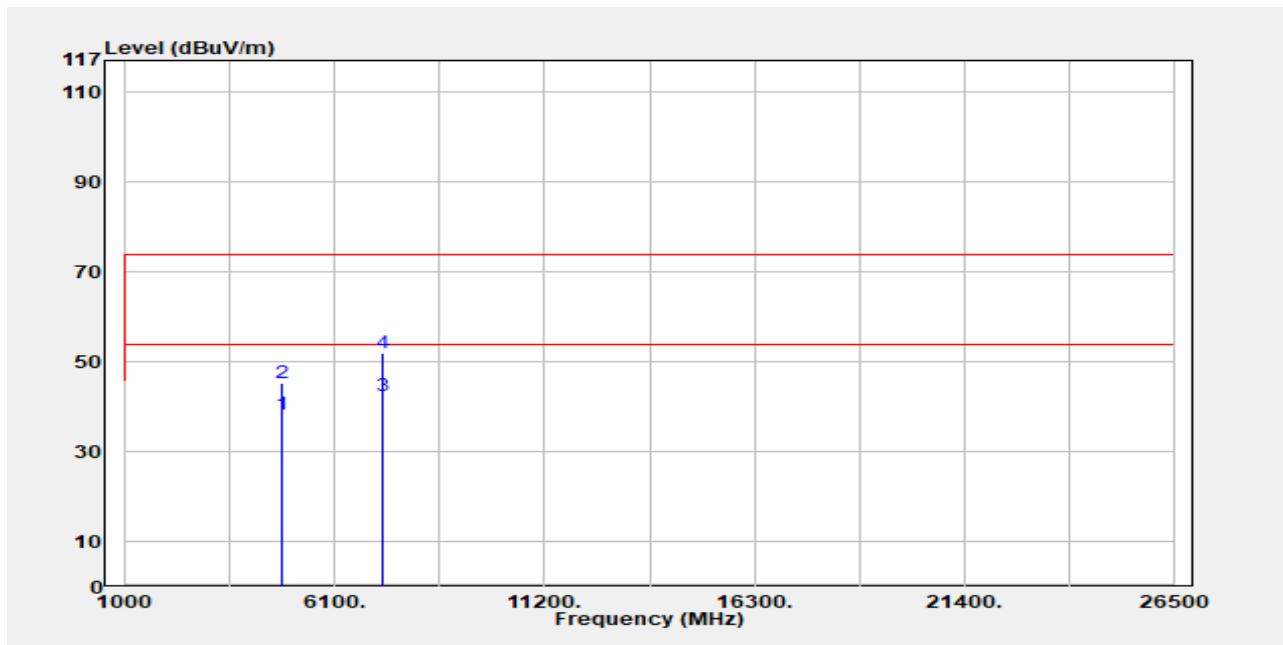
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Report Number :ER/2021/C0048
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



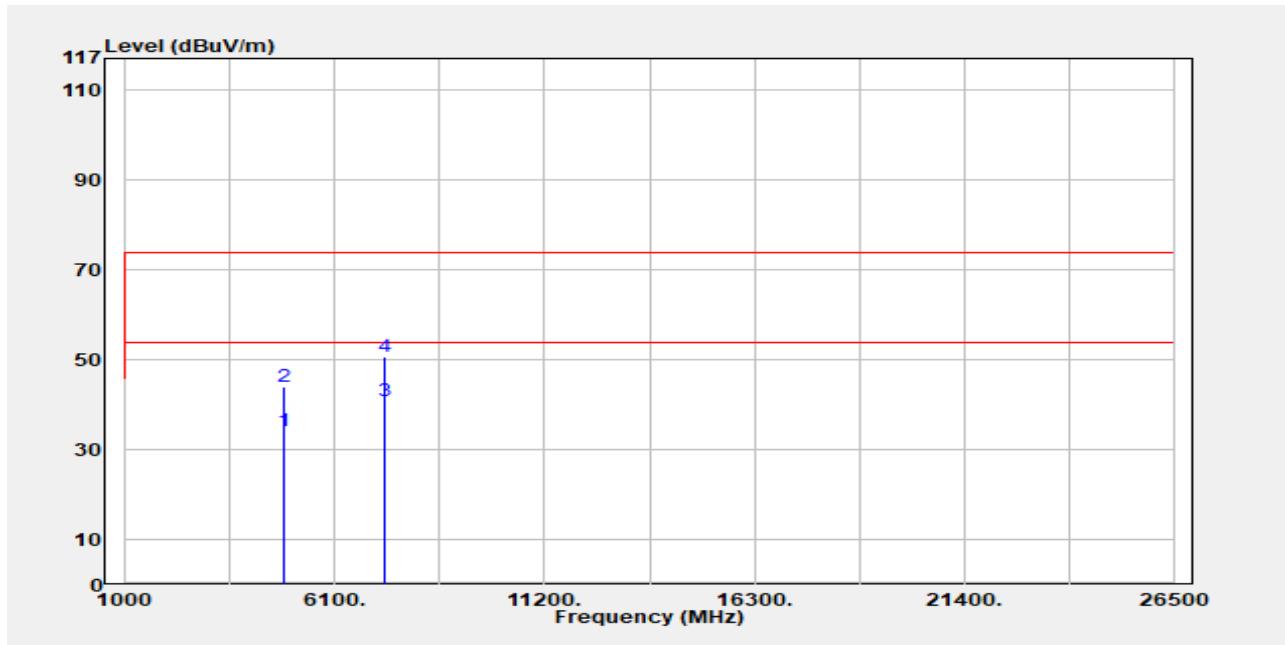
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
4824.00	Average	31.47	7.01	38.48	54.00	-15.52
4824.00	Peak	38.48	7.01	45.49	74.00	-28.51
7236.00	Average	26.69	15.68	42.37	54.00	-11.63
7236.00	Peak	36.25	15.68	51.93	74.00	-22.07

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Report Number :ER/2021/C0048
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



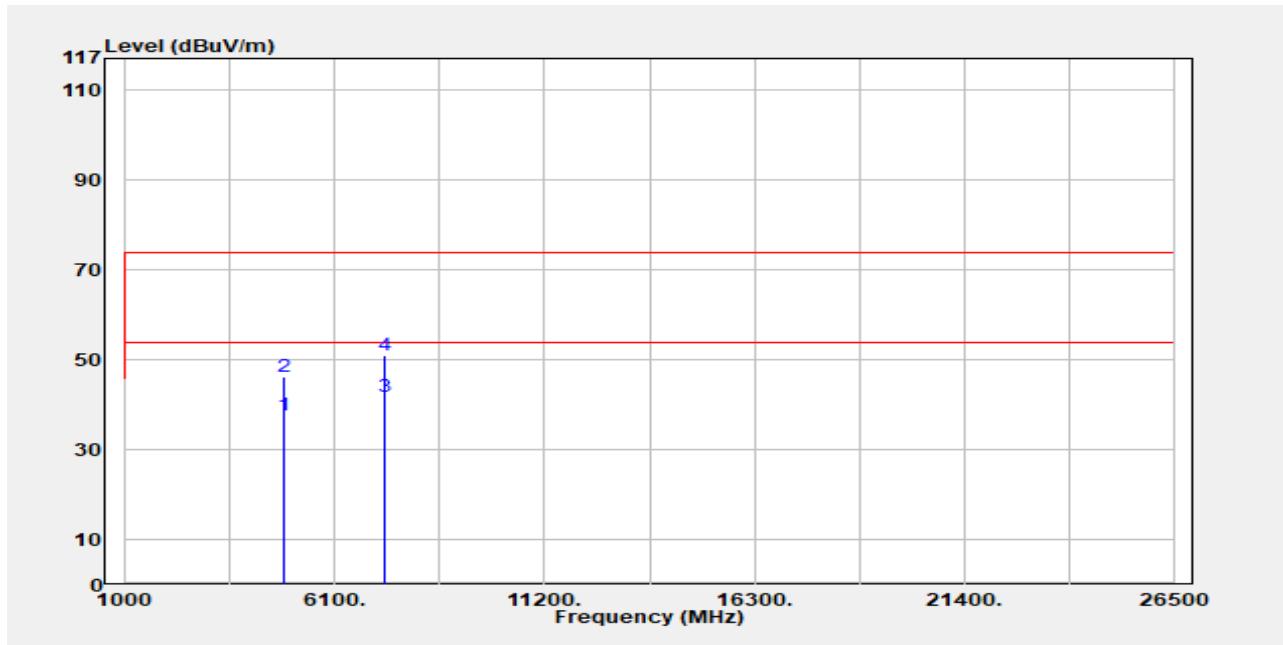
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin dB	
4874.00	Average	27.16	7.03	34.19	54.00	-19.81
4874.00	Peak	37.03	7.03	44.05	74.00	-29.95
7311.00	Average	25.91	15.10	41.01	54.00	-12.99
7311.00	Peak	35.53	15.10	50.63	74.00	-23.37

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Report Number :ER/2021/C0048
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



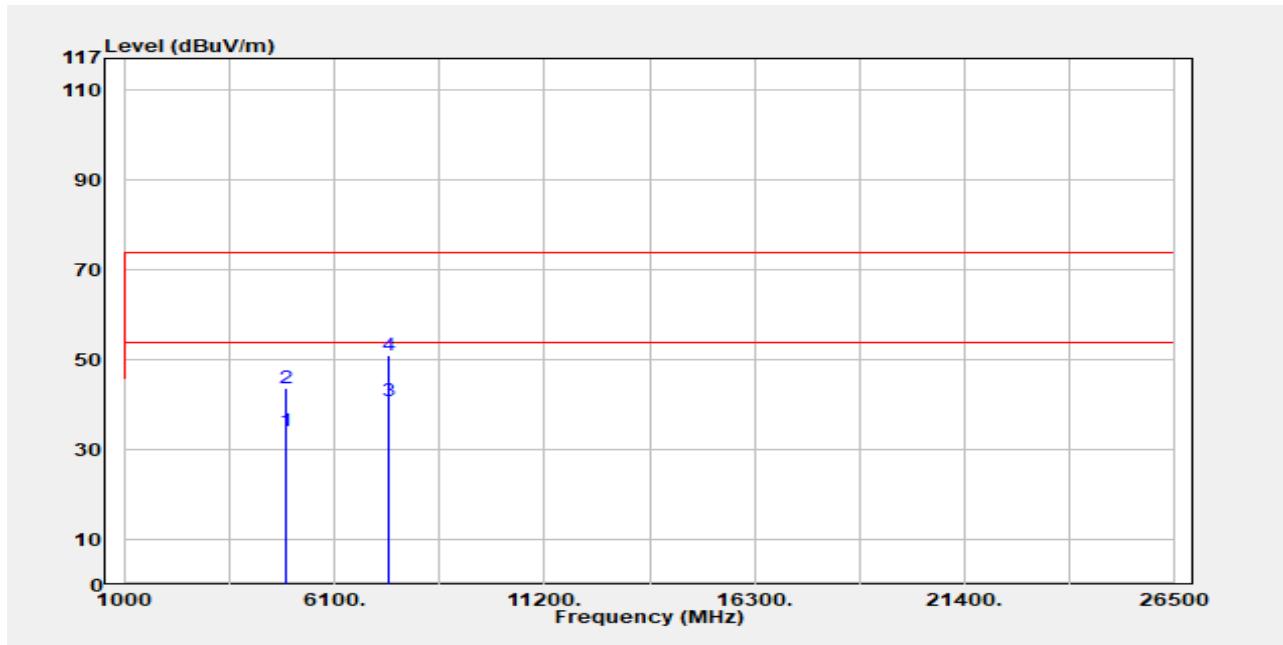
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin dB	
4874.00	Average	30.80	7.03	37.83	54.00	-16.17
4874.00	Peak	39.14	7.03	46.16	74.00	-27.84
7311.00	Average	26.78	15.10	41.88	54.00	-12.12
7311.00	Peak	35.91	15.10	51.01	74.00	-22.99

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Report Number :ER/2021/C0048
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



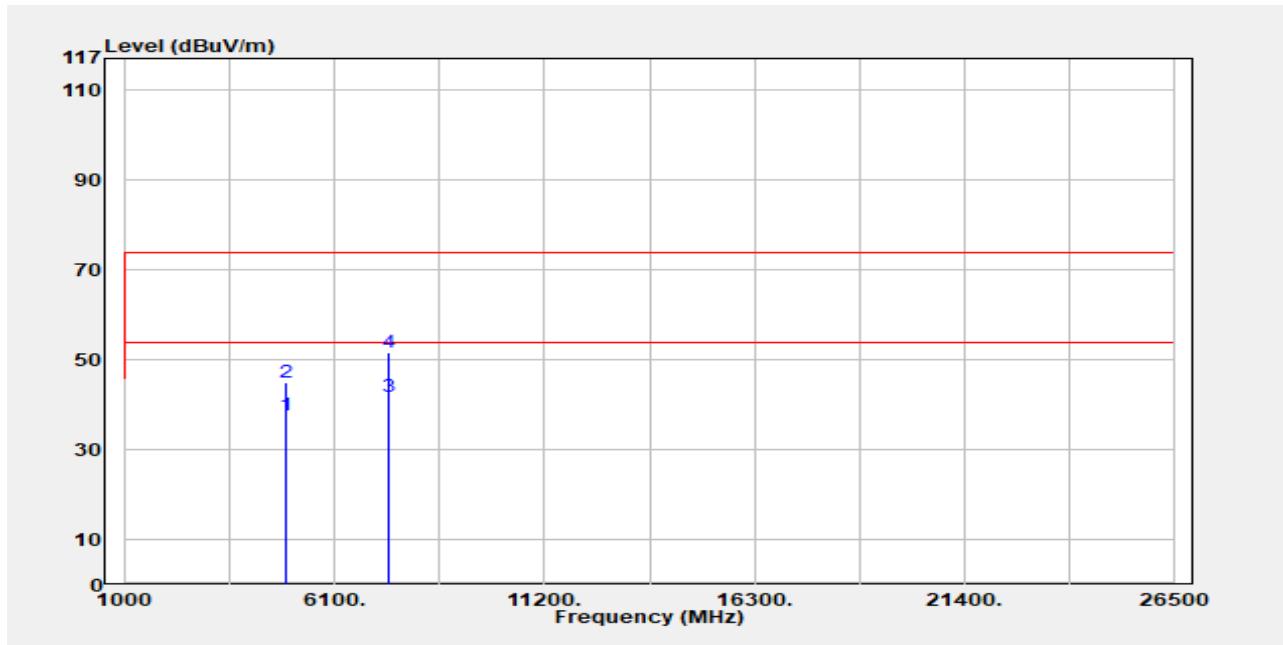
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
4924.00	Average	27.04	7.11	34.15	54.00	-19.85
4924.00	Peak	36.78	7.11	43.89	74.00	-30.11
7386.00	Average	26.23	14.69	40.92	54.00	-13.08
7386.00	Peak	36.29	14.69	50.98	74.00	-23.02

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Report Number :ER/2021/C0048
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Limit @3m dB μ V/m	Margin dB
4924.00	Average	30.61	7.11	37.72	54.00	-16.28
4924.00	Peak	37.95	7.11	45.06	74.00	-28.94
7386.00	Average	27.11	14.69	41.80	54.00	-12.20
7386.00	Peak	36.91	14.69	51.60	74.00	-22.40

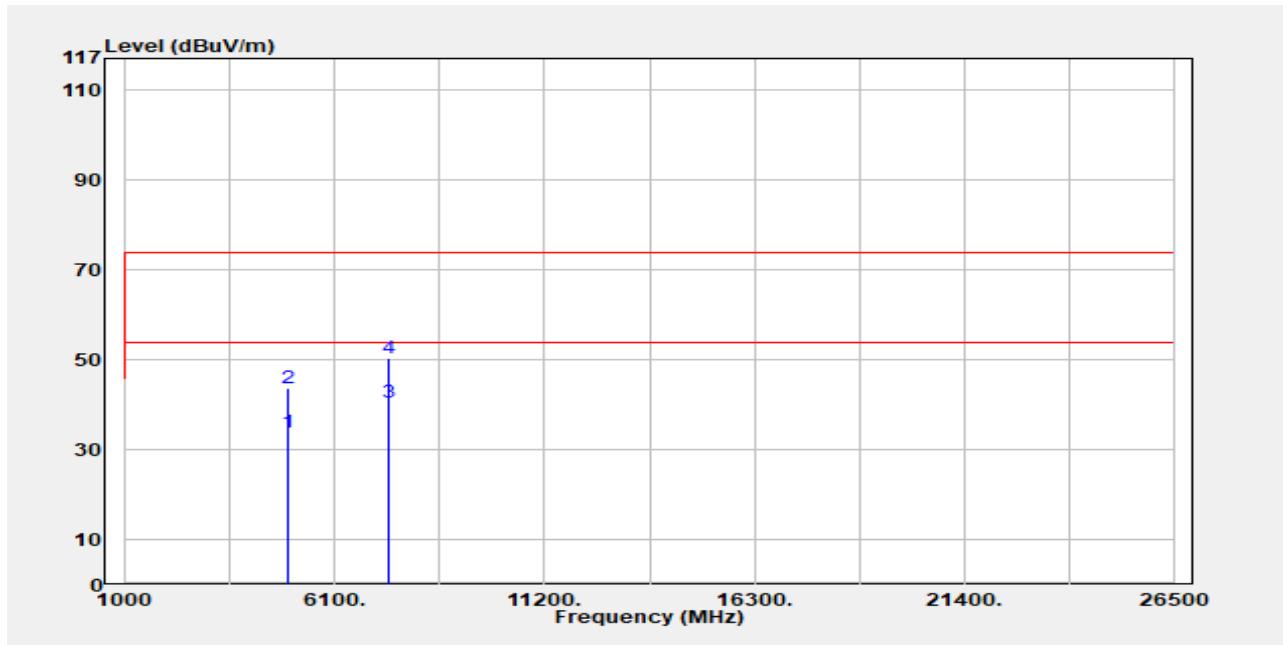
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Report Number :ER/2021/C0048
 Operation Mode :802.11g
 Test Frequency :2467 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



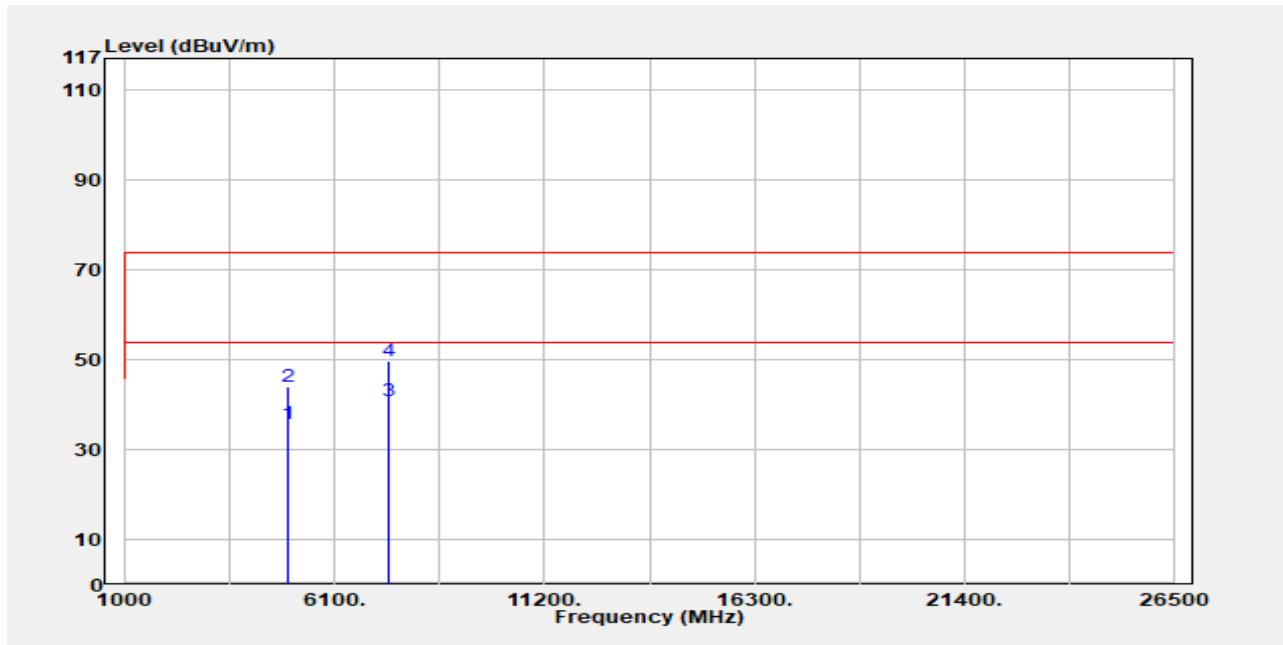
Freq. MHz	Detector Mode	Spectrum Reading Level	Factor	Actual FS dB ^μ V/m	Limit @3m dB ^μ V/m	Margin
	PK/QP/AV	dB ^μ V	dB			
4934.00	Average	26.71	7.22	33.93	54.00	-20.07
4934.00	Peak	36.48	7.22	43.70	74.00	-30.30
7401.00	Average	26.04	14.56	40.60	54.00	-13.40
7401.00	Peak	35.92	14.56	50.48	74.00	-23.52

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Report Number :ER/2021/C0048
 Operation Mode :802.11g
 Test Frequency :2467 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



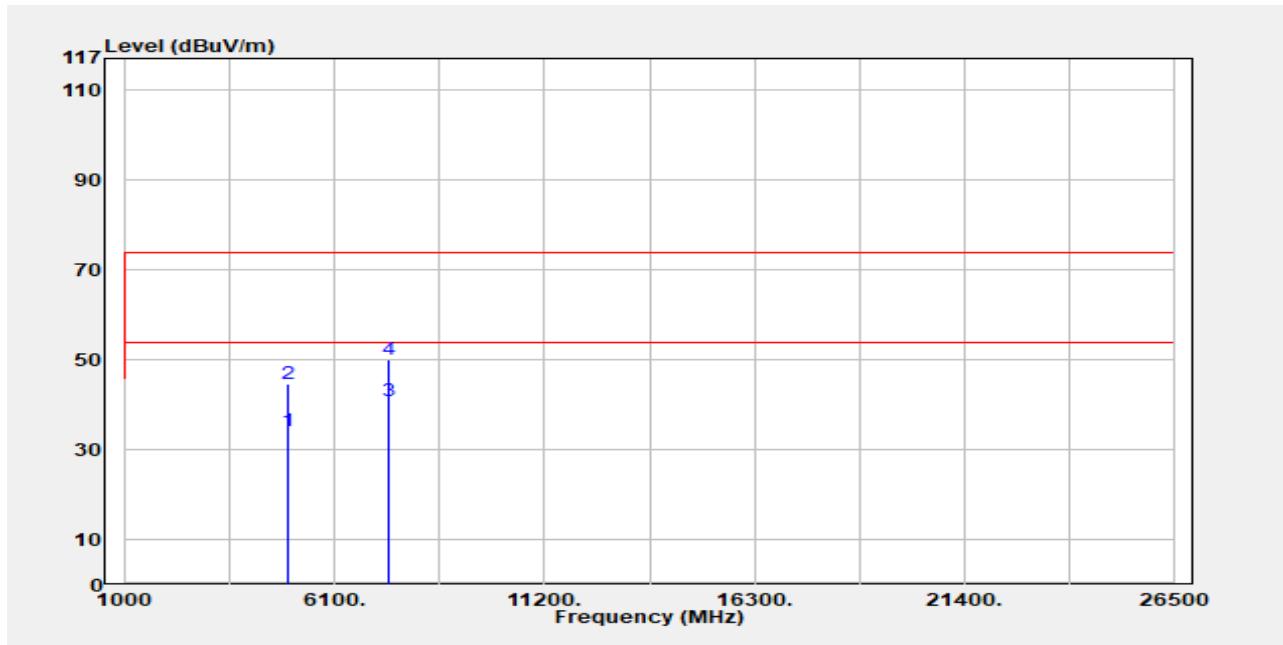
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin	
PK/QP/AV	Margin					
4934.00	Average	28.65	7.22	35.87	54.00	-18.13
4934.00	Peak	36.71	7.22	43.93	74.00	-30.07
7401.00	Average	26.32	14.56	40.88	54.00	-13.12
7401.00	Peak	35.12	14.56	49.68	74.00	-24.32

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Report Number :ER/2021/C0048
 Operation Mode :802.11g
 Test Frequency :2472 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



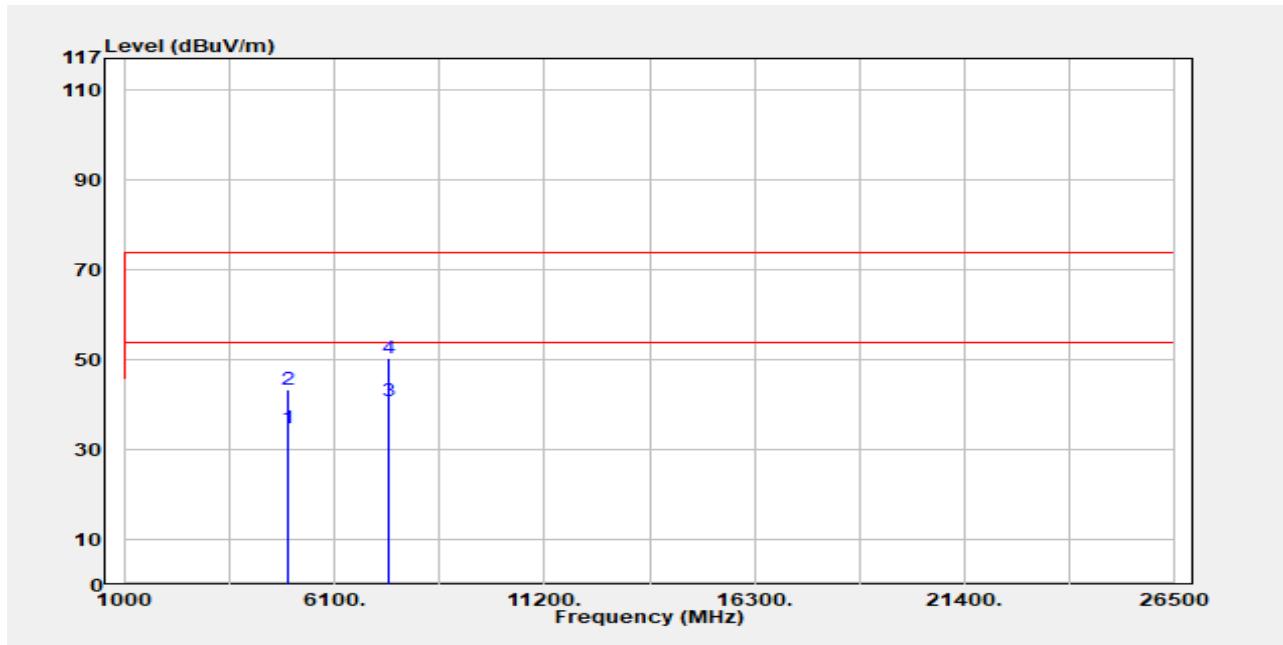
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
4944.00	Average	26.70	7.44	34.14	54.00	-19.86
4944.00	Peak	37.25	7.44	44.69	74.00	-29.31
7416.00	Average	26.16	14.59	40.75	54.00	-13.25
7416.00	Peak	35.48	14.59	50.08	74.00	-23.92

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Report Number :ER/2021/C0048
 Operation Mode :802.11g
 Test Frequency :2472 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin	
PK/QP/AV	Margin					
4944.00	Average	27.39	7.44	34.83	54.00	-19.17
4944.00	Peak	36.13	7.44	43.57	74.00	-30.43
7416.00	Average	26.20	14.59	40.79	54.00	-13.21
7416.00	Peak	35.88	14.59	50.47	74.00	-23.53

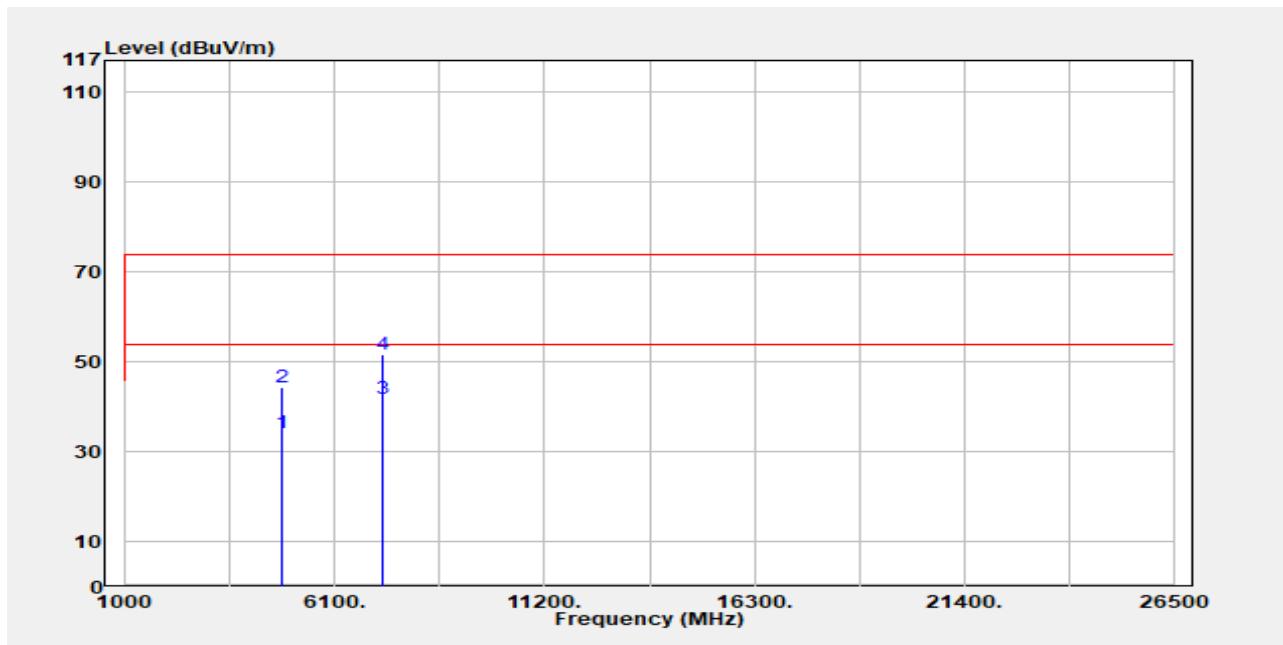
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Report Number :ER/2021/C0048
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
4824.00	Average	27.12	7.01	34.13	54.00	-19.87
4824.00	Peak	37.39	7.01	44.39	74.00	-29.61
7236.00	Average	26.19	15.68	41.87	54.00	-12.13
7236.00	Peak	36.10	15.68	51.77	74.00	-22.23

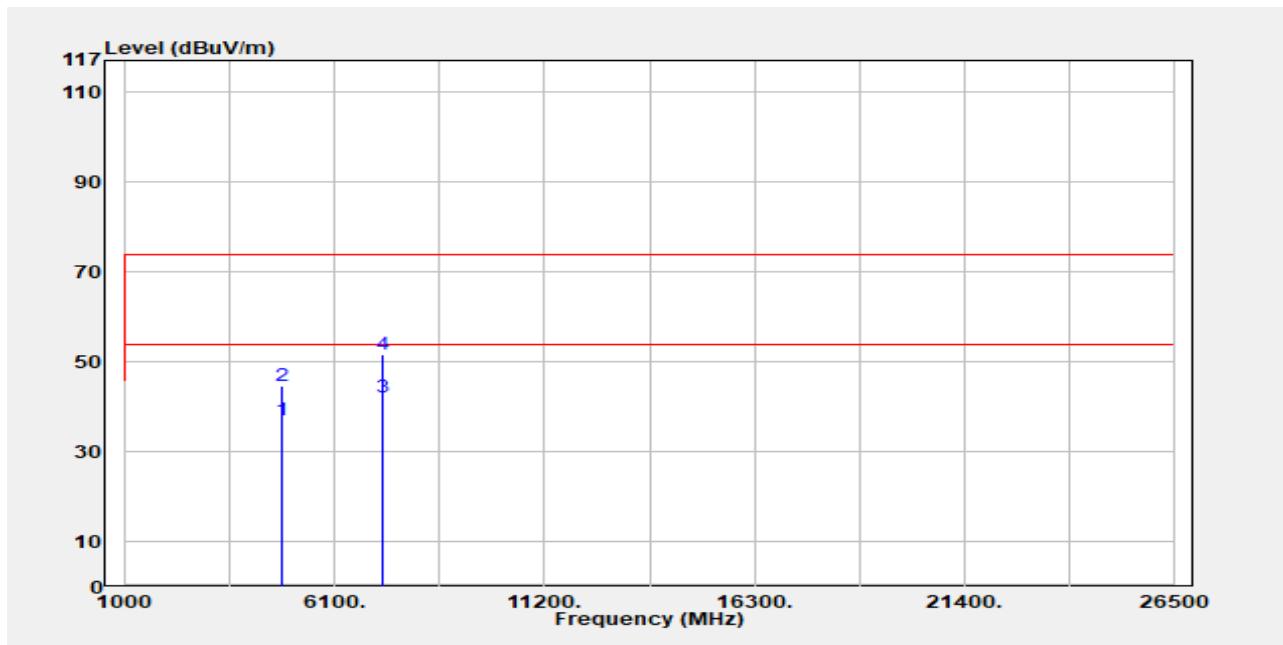
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Report Number :ER/2021/C0048
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					FS dB μ V/m	
4824.00	Average	30.02	7.01	37.03	54.00	-16.97
4824.00	Peak	37.64	7.01	44.64	74.00	-29.36
7236.00	Average	26.61	15.68	42.29	54.00	-11.71
7236.00	Peak	36.14	15.68	51.82	74.00	-22.18

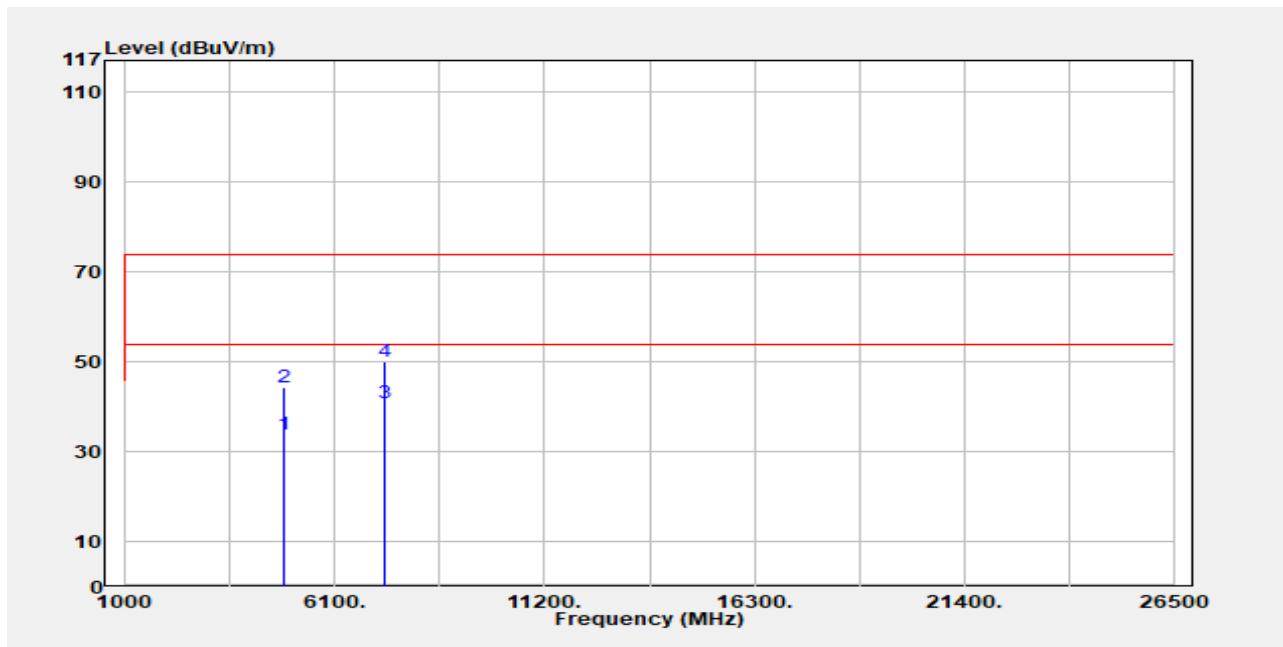
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Report Number :ER/2021/C0048
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



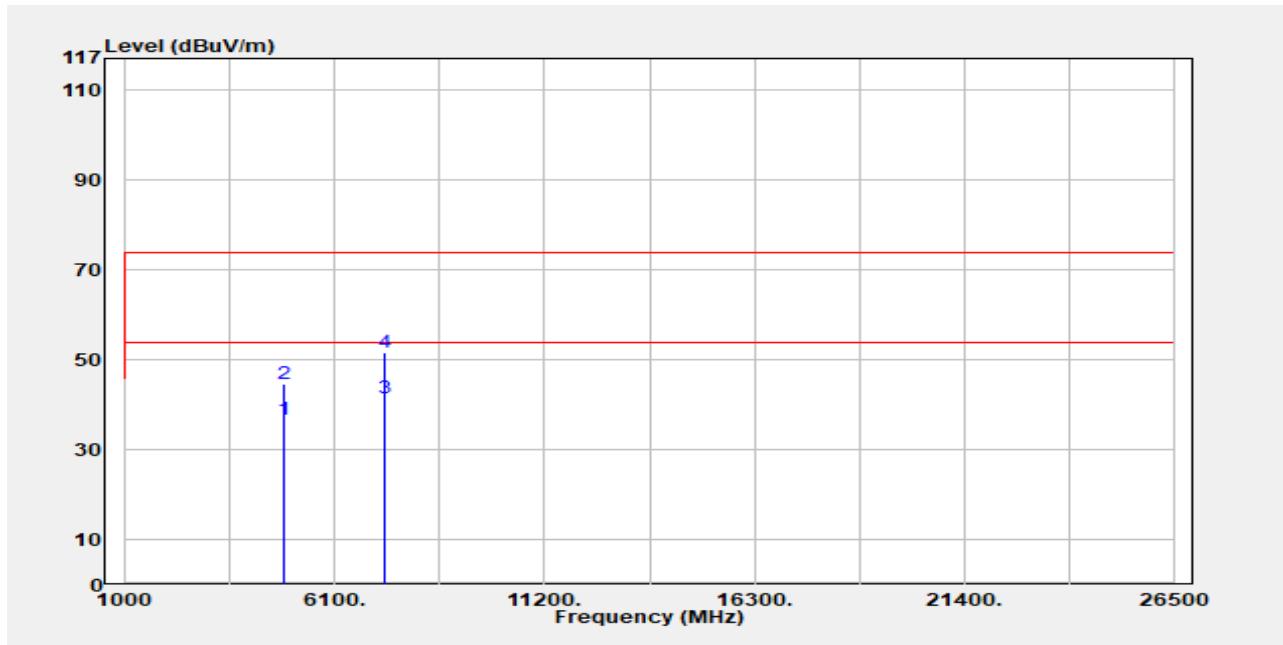
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
4874.00	Average	26.99	7.03	34.02	54.00	-19.98
4874.00	Peak	37.22	7.03	44.25	74.00	-29.75
7311.00	Average	25.95	15.10	41.05	54.00	-12.95
7311.00	Peak	35.16	15.10	50.25	74.00	-23.75

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Report Number :ER/2021/C0048
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin	
PK/QP/AV	Margin					
4874.00	Average	29.64	7.03	36.67	54.00	-17.33
4874.00	Peak	37.77	7.03	44.80	74.00	-29.20
7311.00	Average	26.32	15.10	41.42	54.00	-12.58
7311.00	Peak	36.51	15.10	51.61	74.00	-22.39

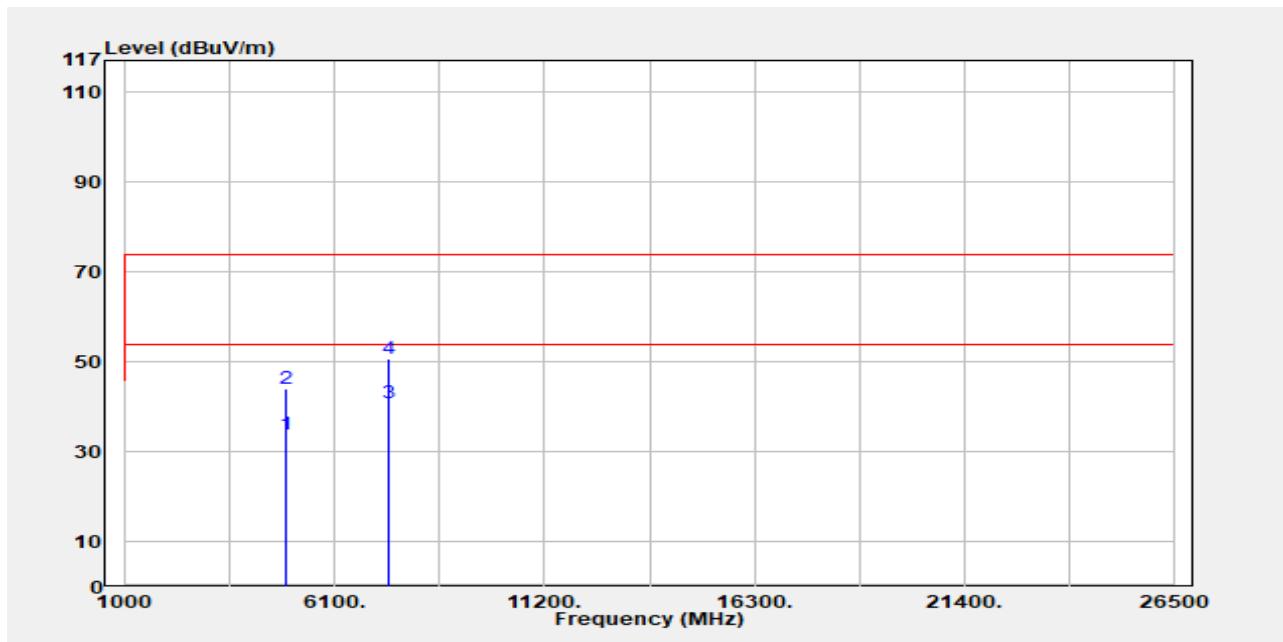
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Report Number :ER/2021/C0048
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Limit @3m dB μ V/m	Margin dB
4924.00	Average	26.79	7.11	33.90	54.00	-20.10
4924.00	Peak	36.95	7.11	44.06	74.00	-29.94
7386.00	Average	26.20	14.69	40.89	54.00	-13.11
7386.00	Peak	35.96	14.69	50.65	74.00	-23.35

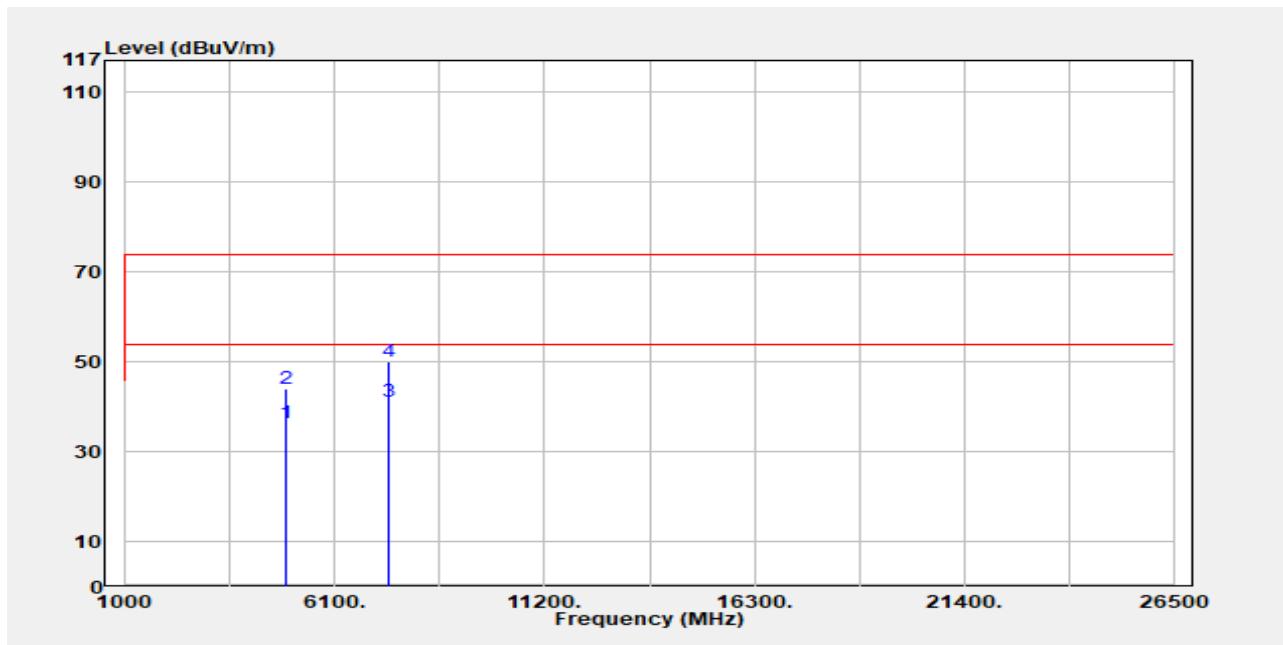
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Report Number :ER/2021/C0048
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
4924.00	Average	29.29	7.11	36.40	54.00	-17.60
4924.00	Peak	37.02	7.11	44.13	74.00	-29.87
7386.00	Average	26.56	14.69	41.25	54.00	-12.75
7386.00	Peak	35.35	14.69	50.04	74.00	-23.96

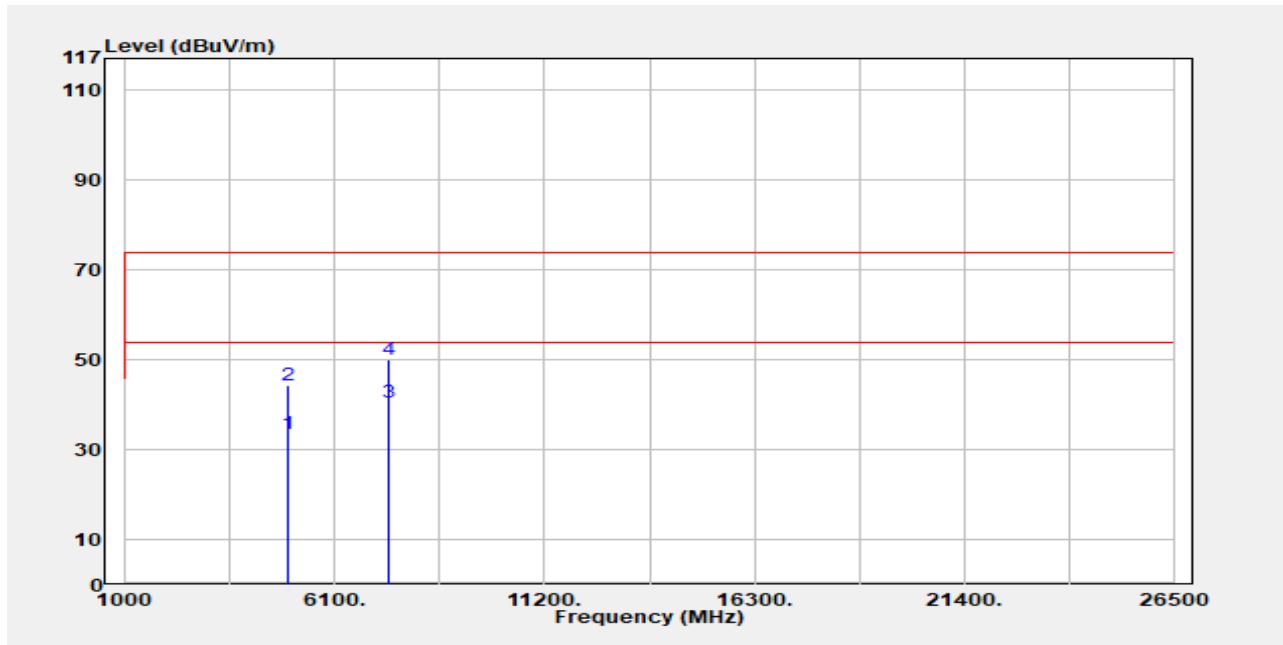
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Report Number :ER/2021/C0048
 Operation Mode :802.11n20
 Test Frequency :2467 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin dB	
4934.00	Average	26.44	7.22	33.65	54.00	-20.35
4934.00	Peak	37.14	7.22	44.36	74.00	-29.64
7401.00	Average	25.95	14.56	40.51	54.00	-13.49
7401.00	Peak	35.56	14.56	50.12	74.00	-23.88

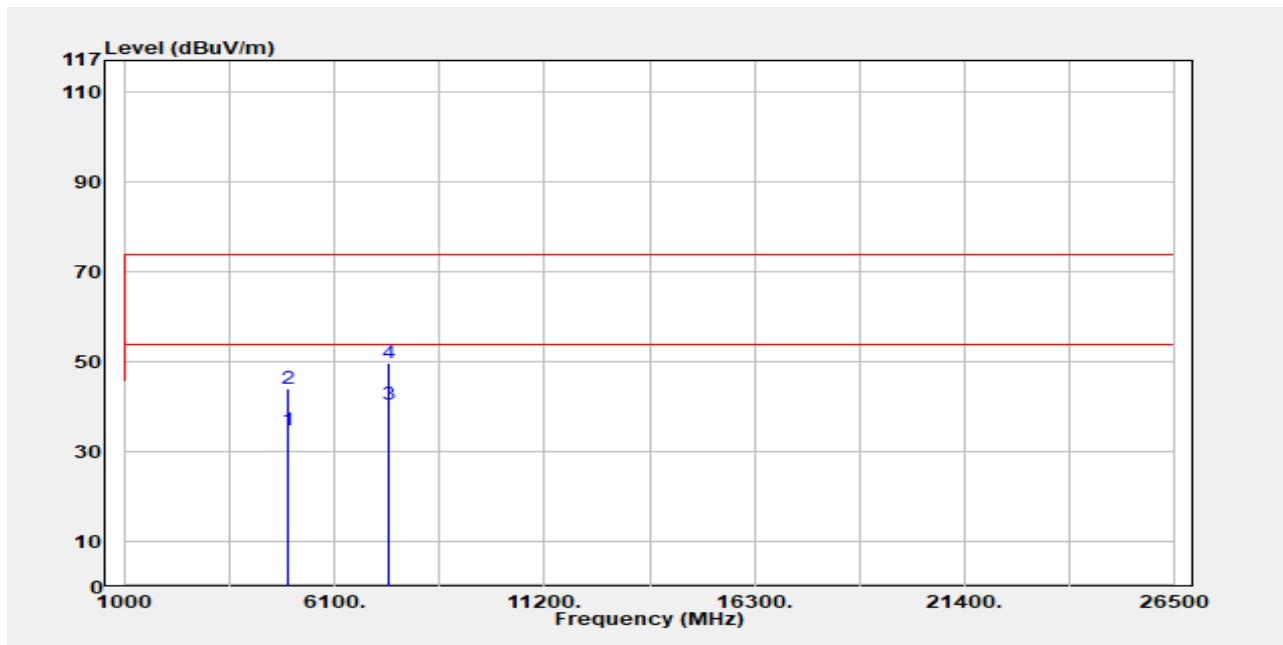
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Report Number :ER/2021/C0048
 Operation Mode :802.11n20
 Test Frequency :2467 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin	
PK/QP/AV	Margin					
4934.00	Average	27.64	7.22	34.86	54.00	-19.14
4934.00	Peak	36.76	7.22	43.98	74.00	-30.02
7401.00	Average	26.10	14.56	40.66	54.00	-13.34
7401.00	Peak	35.34	14.56	49.90	74.00	-24.10

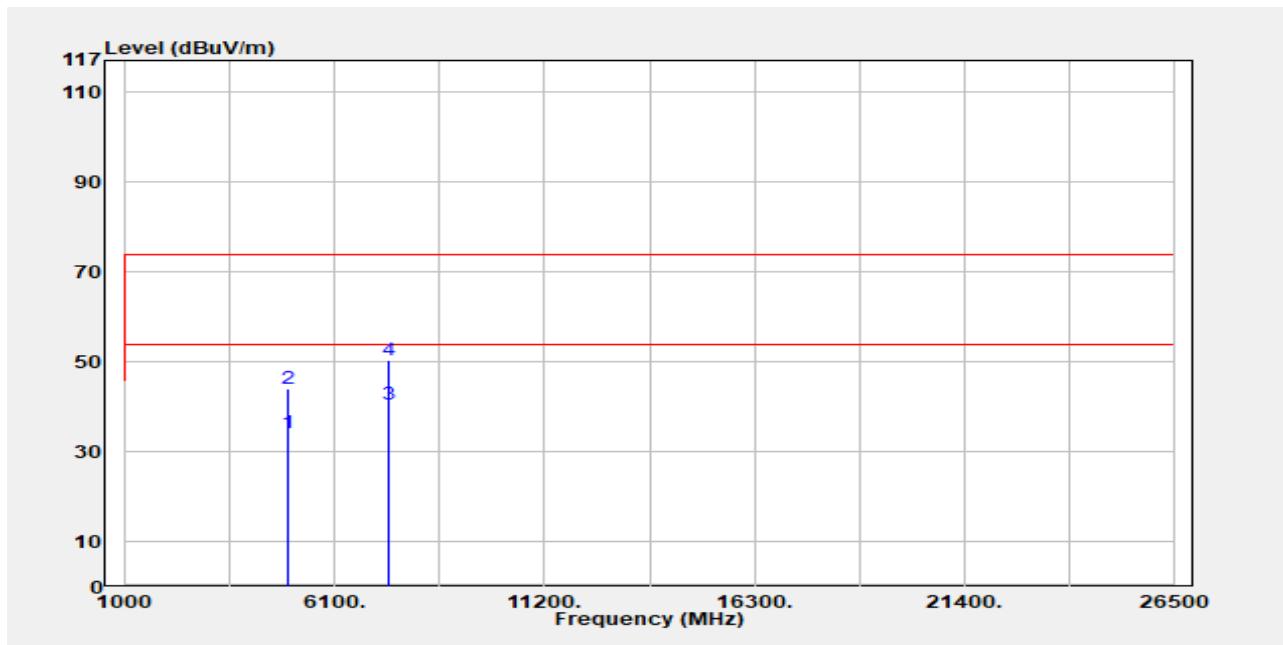
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Report Number :ER/2021/C0048
 Operation Mode :802.11n20
 Test Frequency :2472 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
4944.00	Average	26.78	7.44	34.22	54.00	-19.78
4944.00	Peak	36.54	7.44	43.98	74.00	-30.02
7416.00	Average	26.15	14.59	40.74	54.00	-13.26
7416.00	Peak	35.85	14.59	50.44	74.00	-23.56

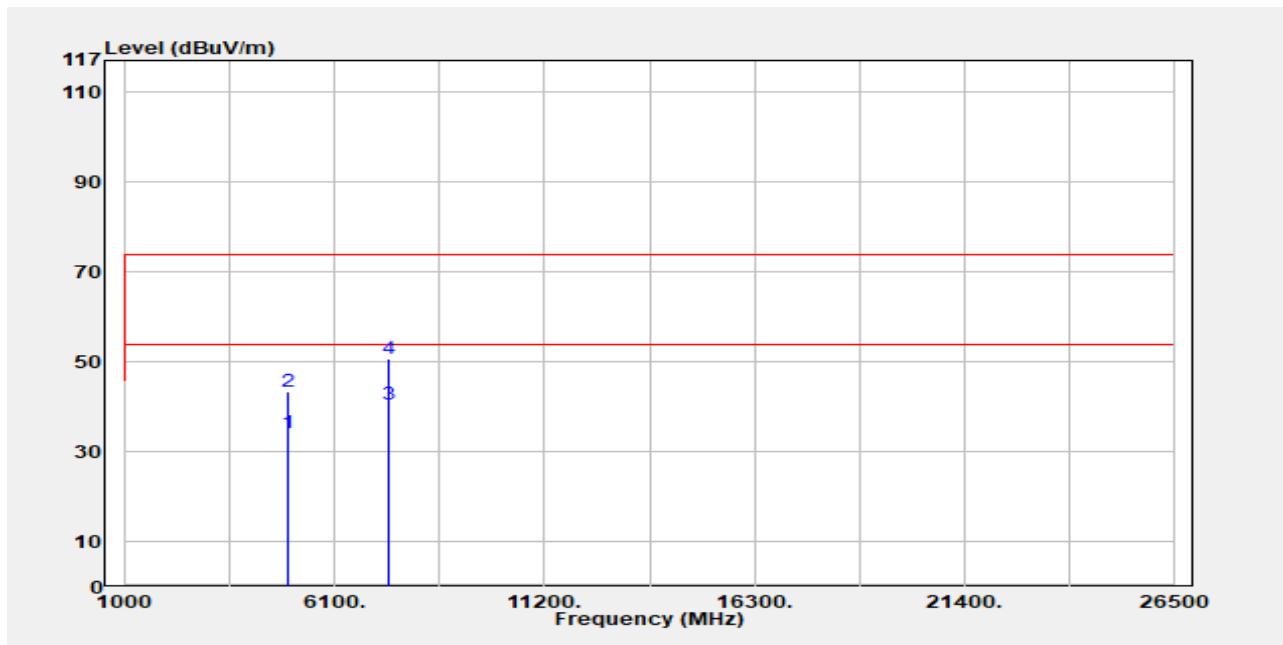
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Report Number :ER/2021/C0048
 Operation Mode :802.11n20
 Test Frequency :2472 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
4944.00	Average	26.86	7.44	34.30	54.00	-19.70
4944.00	Peak	36.16	7.44	43.59	74.00	-30.41
7416.00	Average	26.13	14.59	40.72	54.00	-13.28
7416.00	Peak	36.11	14.59	50.71	74.00	-23.29

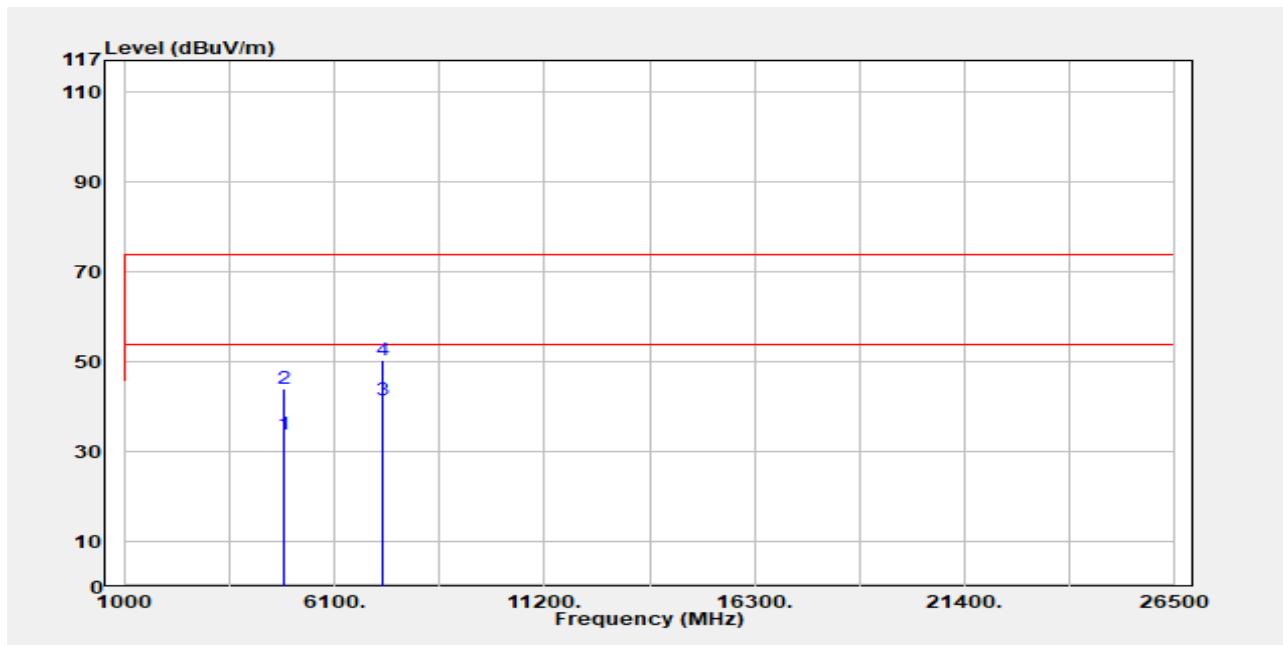
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Report Number :ER/2021/C0048
 Operation Mode :800.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
4844.00	Average	26.85	7.01	33.86	54.00	-20.14
4844.00	Peak	37.21	7.01	44.23	74.00	-29.77
7266.00	Average	26.04	15.37	41.41	54.00	-12.59
7266.00	Peak	35.12	15.37	50.49	74.00	-23.51

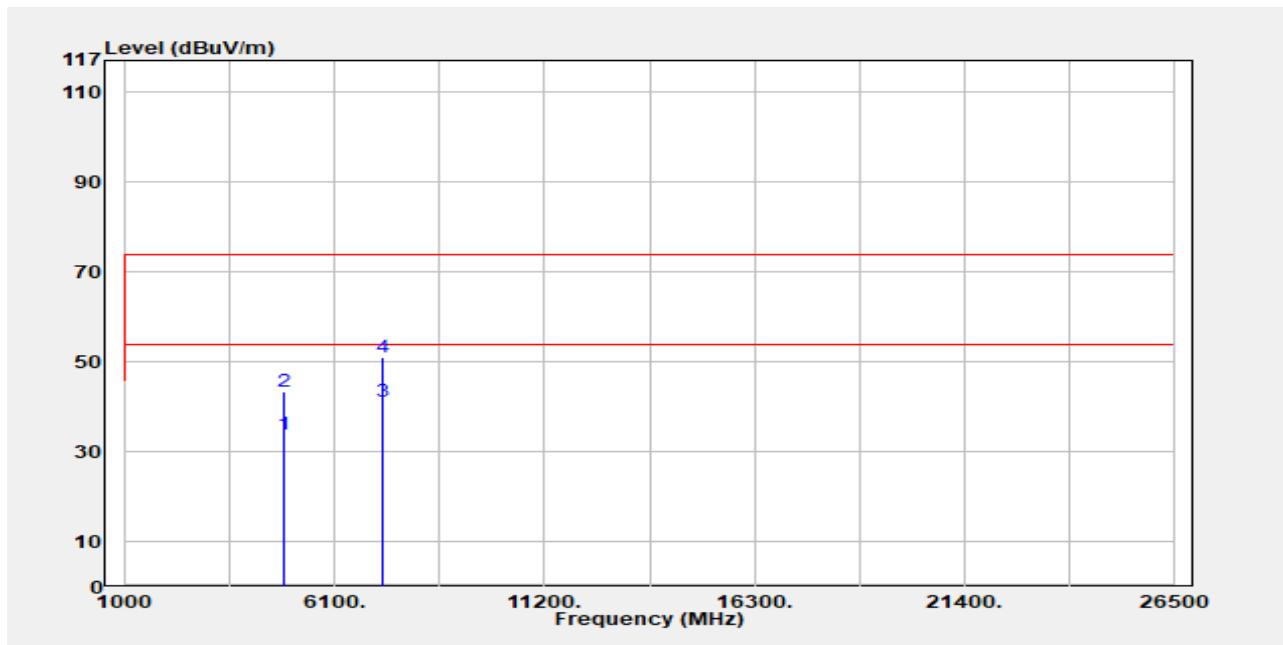
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Report Number :ER/2021/C0048
 Operation Mode :800.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



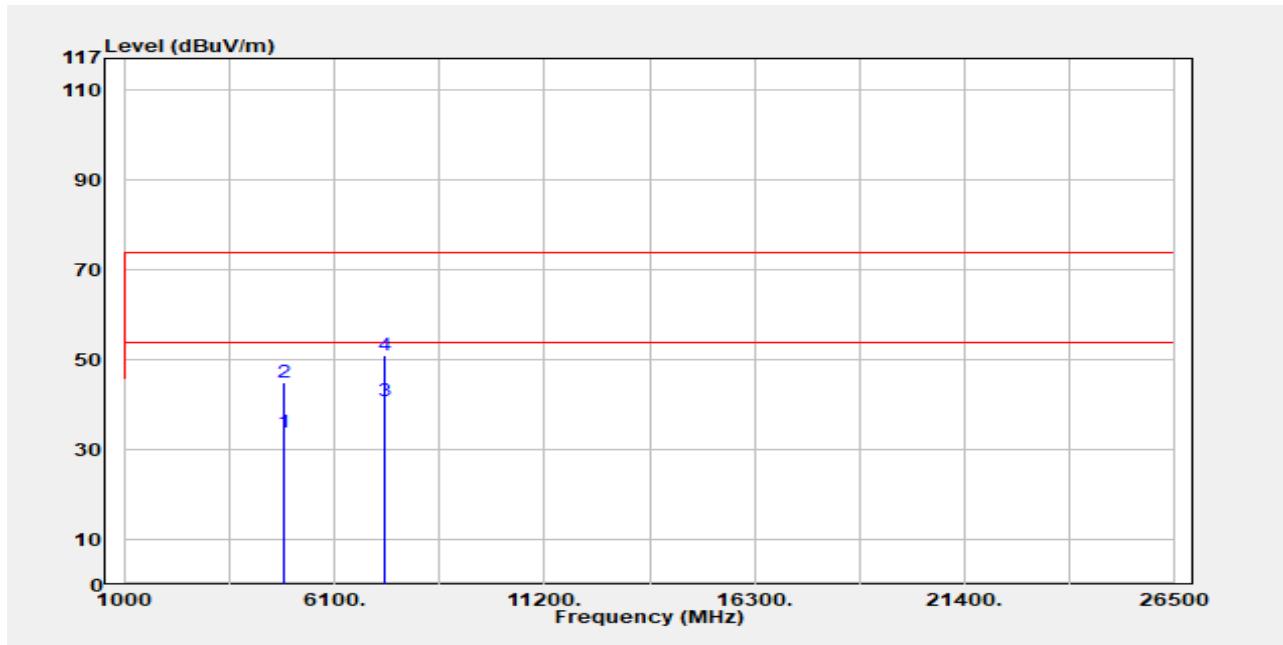
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
4844.00	Average	27.07	7.01	34.08	54.00	-19.92
4844.00	Peak	36.53	7.01	43.54	74.00	-30.46
7266.00	Average	25.98	15.37	41.35	54.00	-12.65
7266.00	Peak	35.58	15.37	50.95	74.00	-23.05

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Report Number :ER/2021/C0048
 Operation Mode :800.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



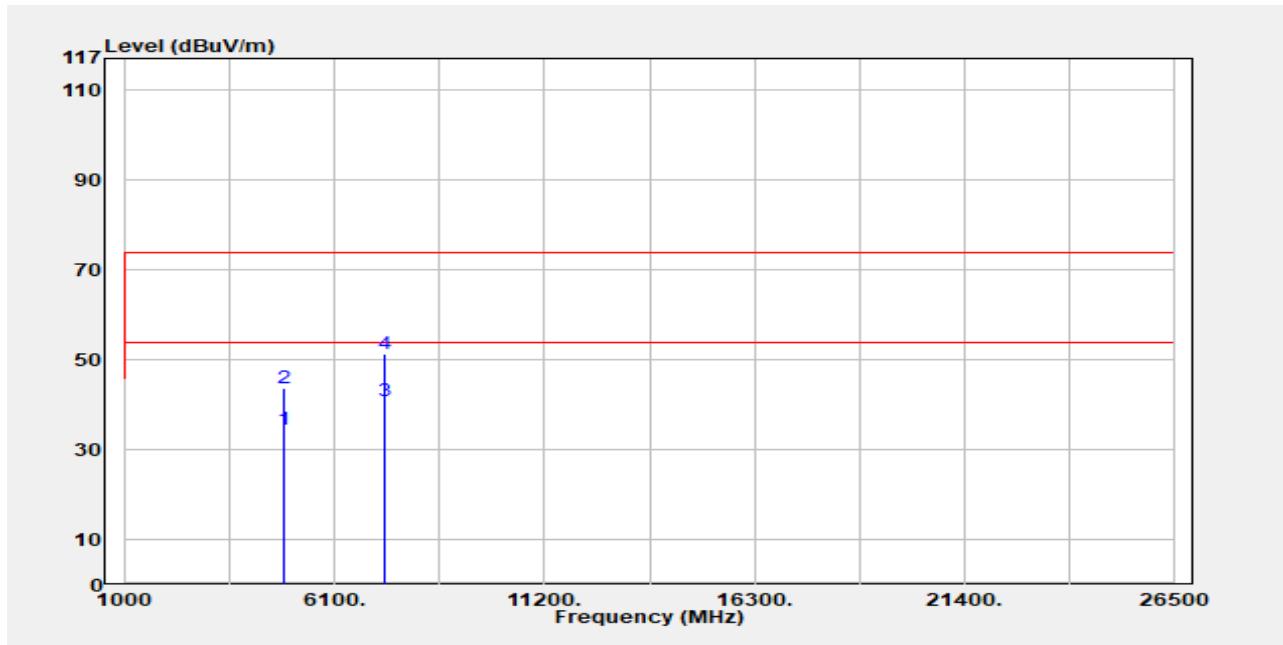
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit	Margin
				FS dB μ V/m	@3m dB μ V/m	dB
4874.00	Average	26.95	7.03	33.98	54.00	-20.02
4874.00	Peak	37.93	7.03	44.96	74.00	-29.04
7311.00	Average	25.90	15.10	41.00	54.00	-13.00
7311.00	Peak	35.93	15.10	51.03	74.00	-22.97

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Report Number :ER/2021/C0048
Operation Mode :800.11n40
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Site :SAC 1
Test Date :2021-12-27
Temp./Humi. :22.5/55
Antenna Pol. :HORIZONTAL
Engineer :Neo Tsai



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	27.49	7.03	34.52	54.00	-19.48
4874.00	Peak	36.67	7.03	43.70	74.00	-30.30
7311.00	Average	25.94	15.10	41.04	54.00	-12.96
7311.00	Peak	36.12	15.10	51.21	74.00	-22.79

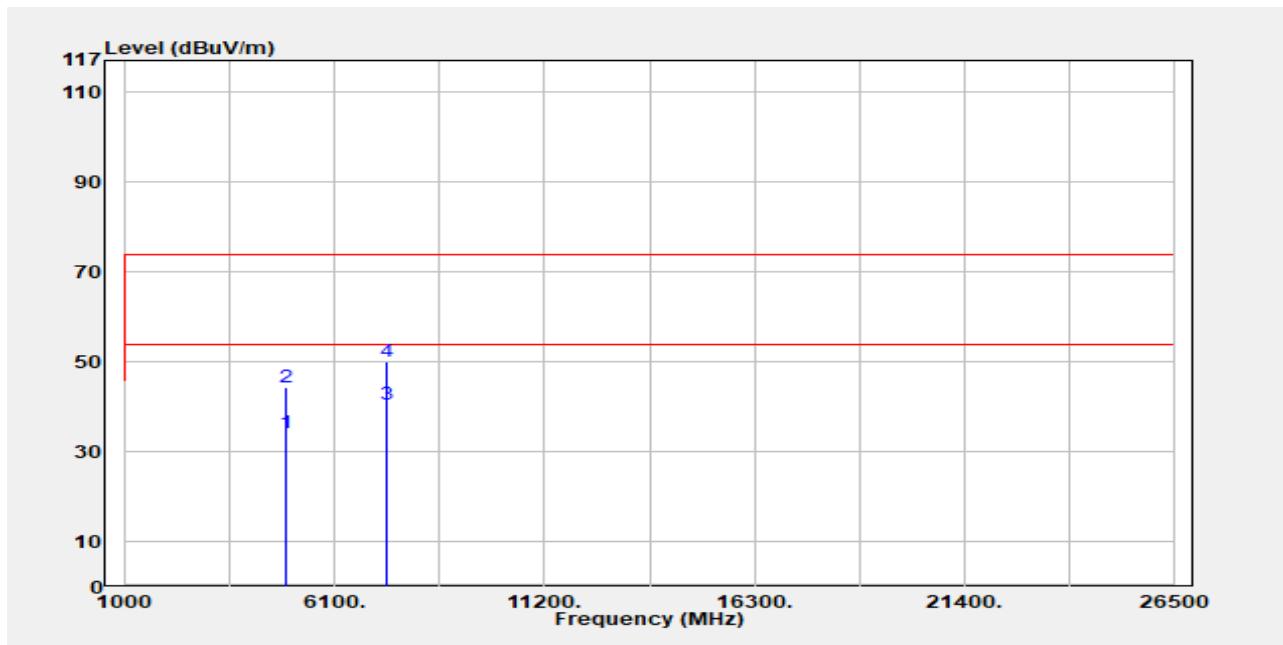
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Report Number :ER/2021/C0048
 Operation Mode :800.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



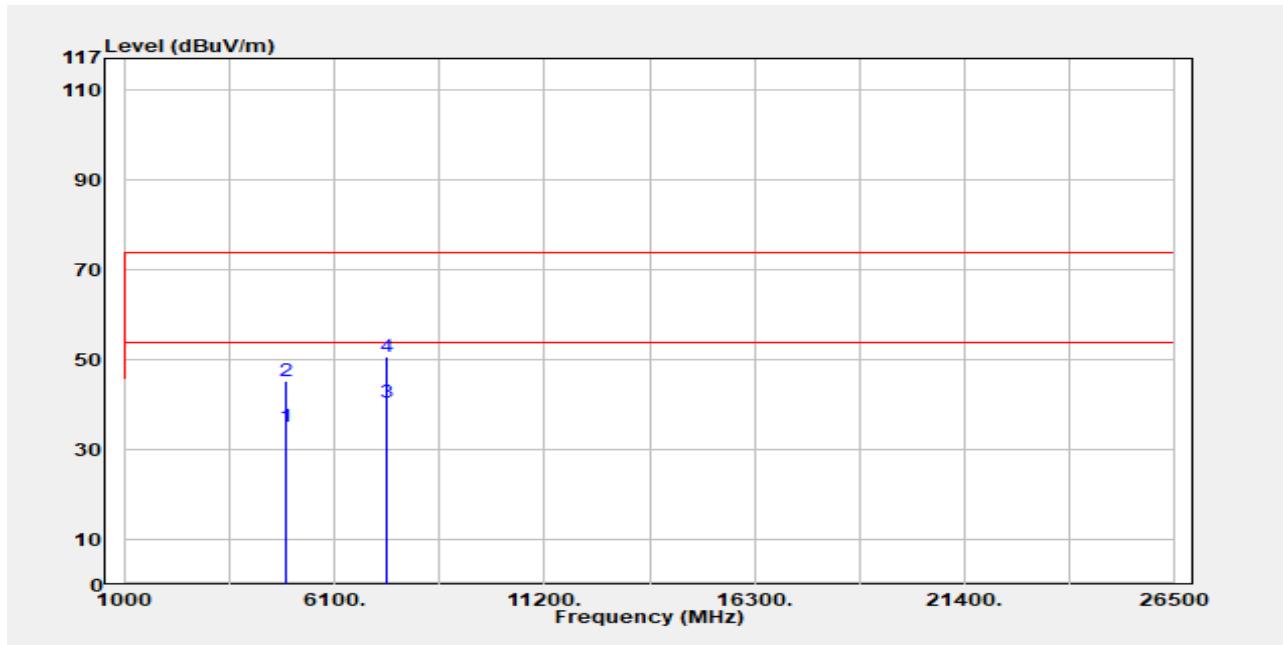
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Factor dB	Margin dB
4904.00	Average	27.03	7.14	34.17	54.00	-19.83
4904.00	Peak	37.30	7.14	44.44	74.00	-29.56
7356.00	Average	25.84	14.78	40.62	54.00	-13.38
7356.00	Peak	35.38	14.78	50.16	74.00	-23.84

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Report Number :ER/2021/C0048
 Operation Mode :800.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin dB	
4904.00	Average	28.14	7.14	35.28	54.00	-18.72
4904.00	Peak	38.06	7.14	45.20	74.00	-28.80
7356.00	Average	25.96	14.78	40.74	54.00	-13.26
7356.00	Peak	35.88	14.78	50.66	74.00	-23.34

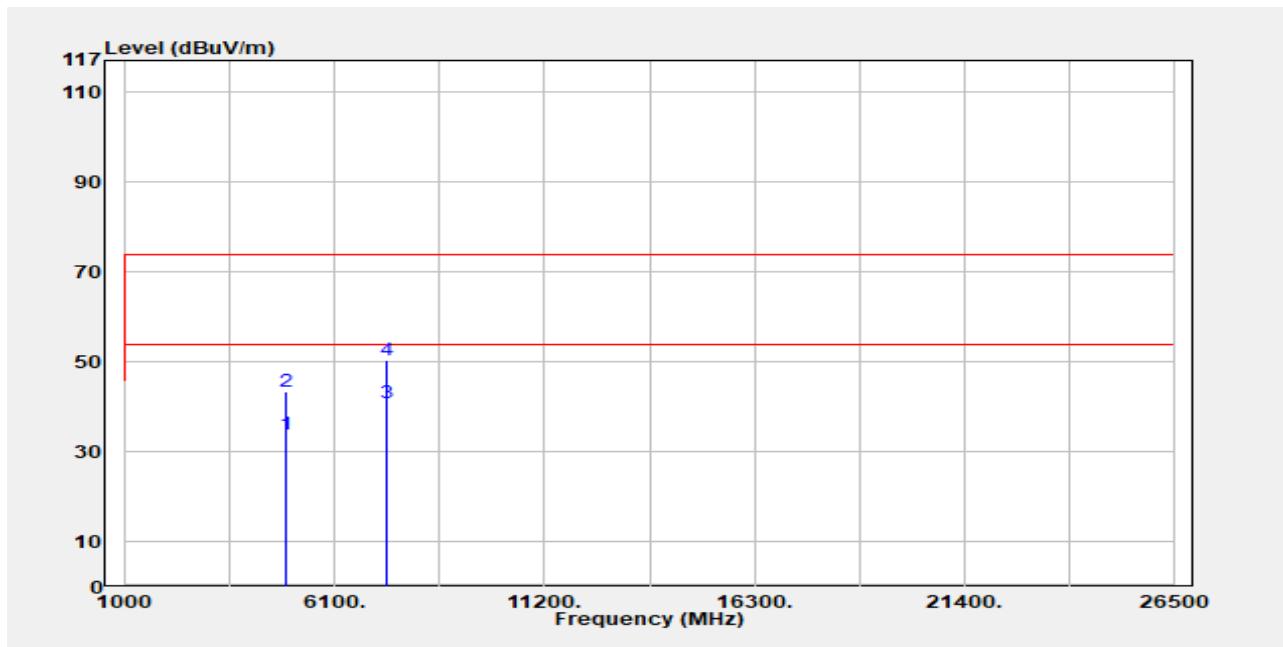
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Report Number :ER/2021/C0048
 Operation Mode :800.11n40
 Test Frequency :2457 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin dB	
4914.00	Average	26.89	7.13	34.02	54.00	-19.98
4914.00	Peak	36.35	7.13	43.48	74.00	-30.52
7371.00	Average	26.00	14.82	40.82	54.00	-13.18
7371.00	Peak	35.57	14.82	50.39	74.00	-23.61

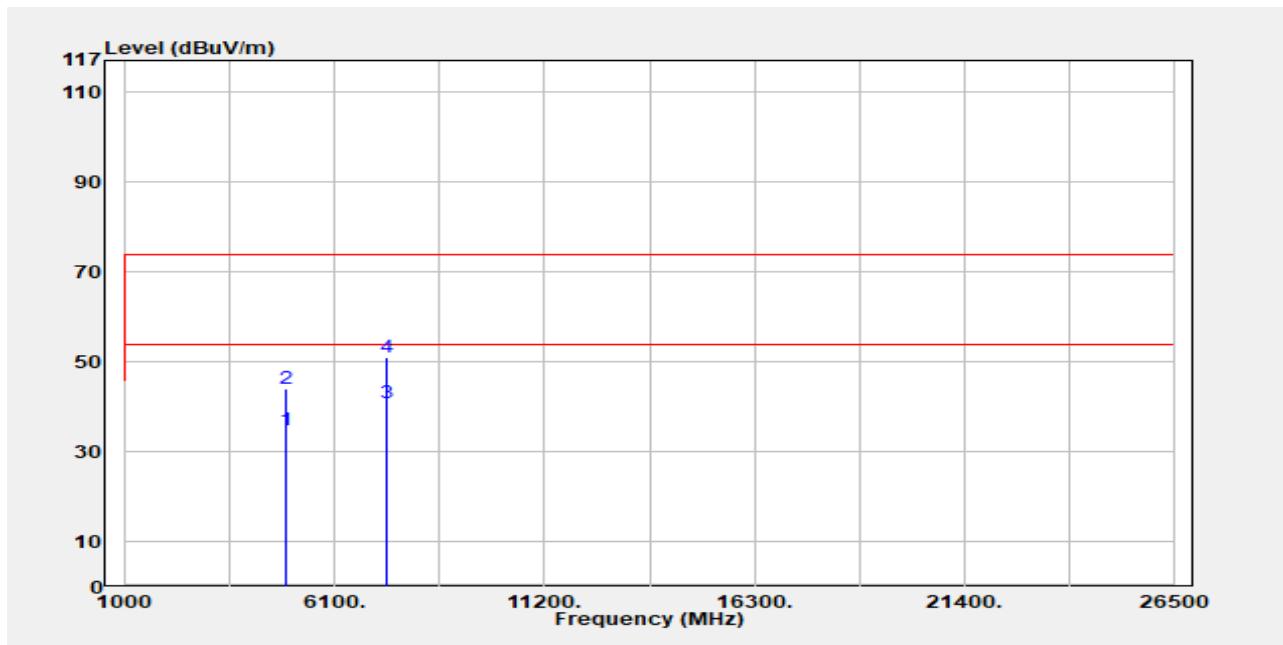
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Report Number :ER/2021/C0048
 Operation Mode :800.11n40
 Test Frequency :2457 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin dB	
4914.00	Average	27.69	7.13	34.82	54.00	-19.18
4914.00	Peak	36.93	7.13	44.06	74.00	-29.94
7371.00	Average	26.02	14.82	40.84	54.00	-13.16
7371.00	Peak	36.39	14.82	51.21	74.00	-22.79

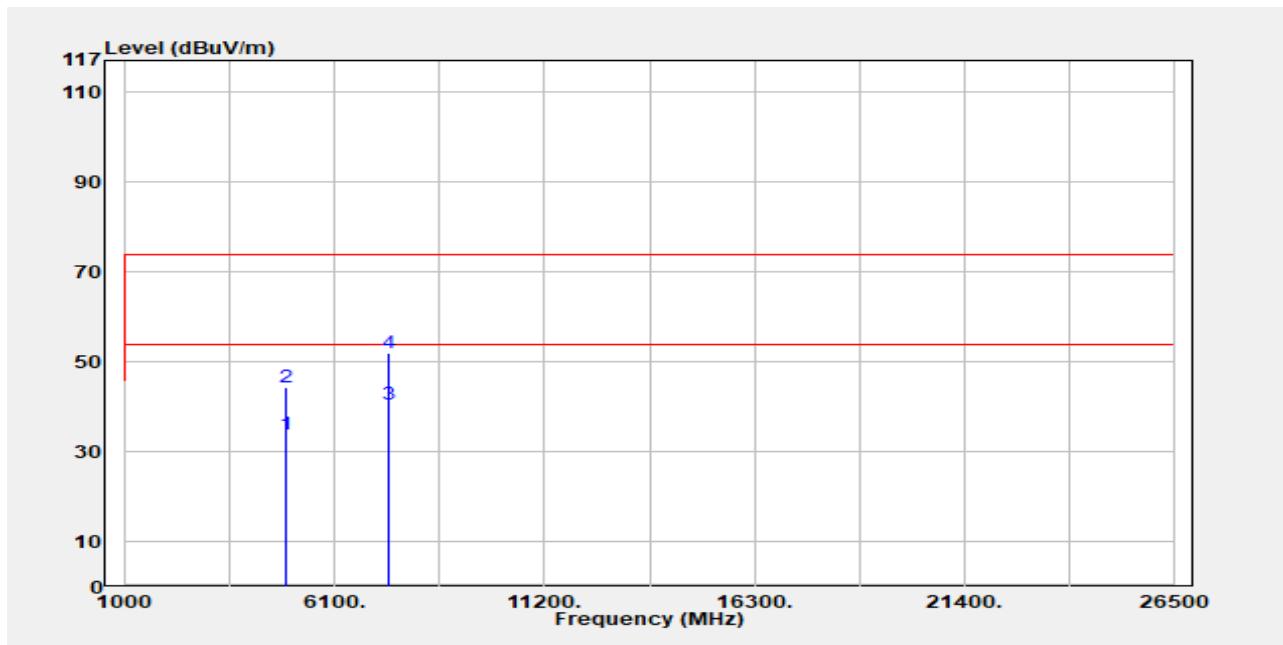
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Report Number :ER/2021/C0048
 Operation Mode :800.11n40
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :VERTICAL
 Engineer :Neo Tsai



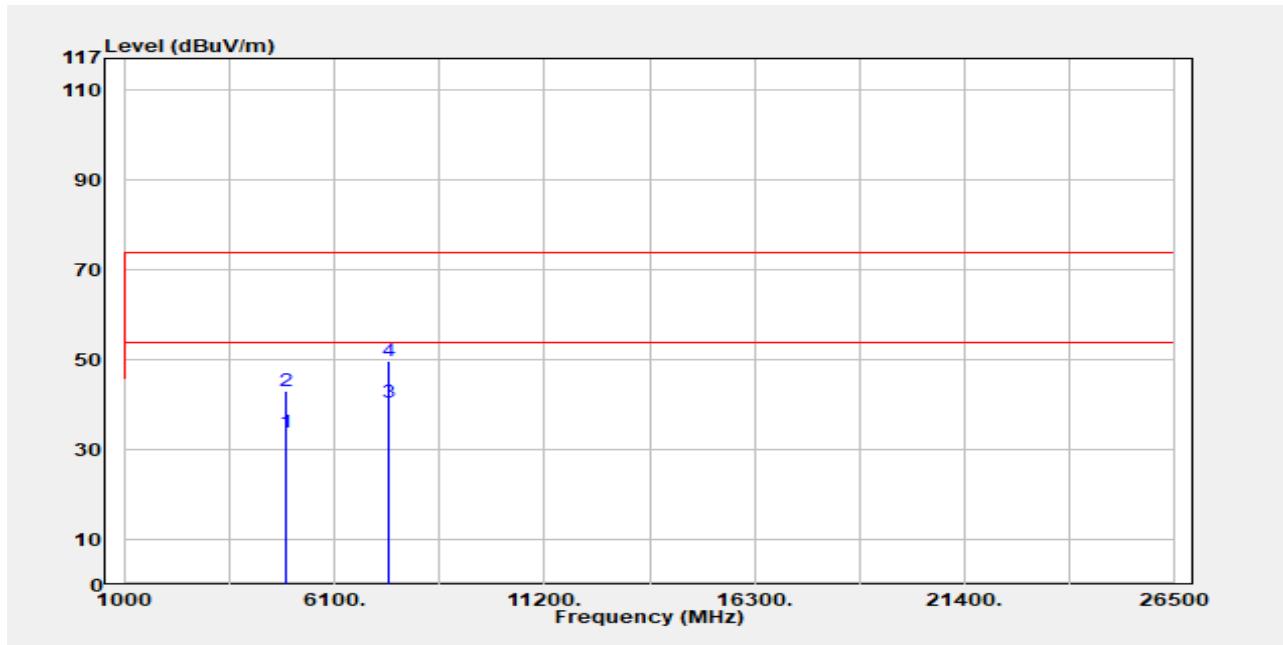
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					FS dB μ V/m	
4924.00	Average	26.66	7.11	33.77	54.00	-20.23
4924.00	Peak	37.38	7.11	44.49	74.00	-29.51
7386.00	Average	26.05	14.69	40.74	54.00	-13.26
7386.00	Peak	37.30	14.69	51.99	74.00	-22.01

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Report Number :ER/2021/C0048
 Operation Mode :800.11n40
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Site :SAC 1
 Test Date :2021-12-27
 Temp./Humi. :22.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
					Margin dB	
4924.00	Average	26.81	7.11	33.92	54.00	-20.08
4924.00	Peak	35.94	7.11	43.05	74.00	-30.95
7386.00	Average	26.05	14.69	40.74	54.00	-13.26
7386.00	Peak	35.18	14.69	49.87	74.00	-24.13

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13 POWER SPECTRAL DENSITY

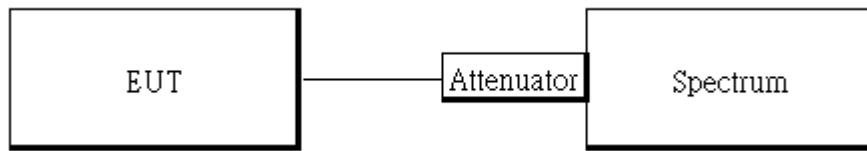
13.1 Standard Applicable

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.

10. MIMO mode: offset is set with "measure and add 10 Log (N)" to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

Cable Loss Offset (dB)
11.21

Note:

For the test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main An-

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tenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

13.4 As per FCC KDB 662911 D01

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

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

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13.5 Power spectral density

POWER DENSITY 802.11b					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-6.26	-8.02	-4.04	8.00	PASS
2437	-8.90	-6.33	-4.42	8.00	PASS
2462	-6.67	-6.50	-3.57	8.00	PASS
2467	-7.67	-5.48	-3.43	8.00	PASS
2472	-6.24	-6.09	-3.15	8.00	PASS

POWER DENSITY 802.11g					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-14.69	-12.67	-10.55	8.00	PASS
2437	-14.79	-12.51	-10.49	8.00	PASS
2462	-13.56	-13.14	-10.33	8.00	PASS
2467	-18.41	-16.51	-14.35	8.00	PASS
2472	-23.79	-22.75	-20.23	8.00	PASS

POWER DENSITY 802.11n HT20					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-15.11	-12.38	-10.52	8.00	PASS
2437	-14.04	-12.49	-10.19	8.00	PASS
2462	-14.09	-12.193	-10.03	8.00	PASS
2467	-20.04	-18.61	-16.26	8.00	PASS
2472	-25.17	-24.69	-21.91	8.00	PASS

POWER DENSITY 802.11n HT40					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-22.77	-20.07	-18.20	8.00	PASS
2437	-16.56	-19.47	-14.77	8.00	PASS
2452	-19.54	-17.62	-15.46	8.00	PASS
2457	-21.11	-19.37	-17.14	8.00	PASS
2462	-25.88	-24.46	-22.10	8.00	PASS

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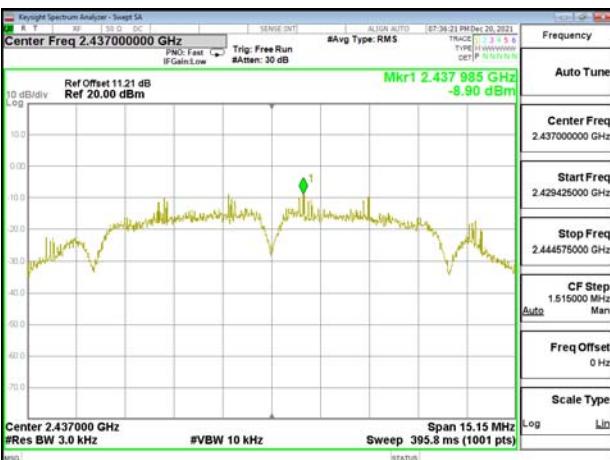
802.11b_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2467MHz



802.11b_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2472MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2412MHz



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802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain1_2472MHz



802.11b_20MHz_Chain1_2462MHz



802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain1_2467MHz



802.11g_20MHz_Chain0_2437MHz

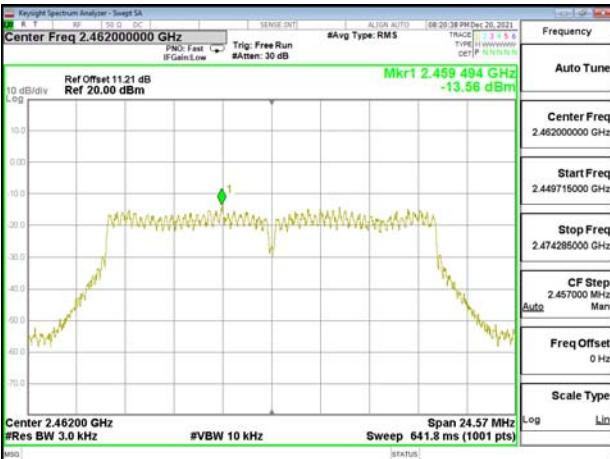


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802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2412MHz



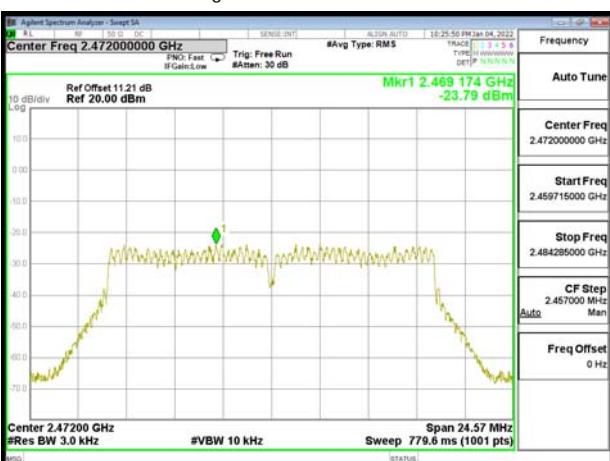
802.11g_20MHz_Chain0_2467MHz



802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2472MHz



802.11g_20MHz_Chain1_2462MHz



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802.11g_20MHz_Chain1_2467MHz



802.11n_20MHz_Chain0_2437MHz



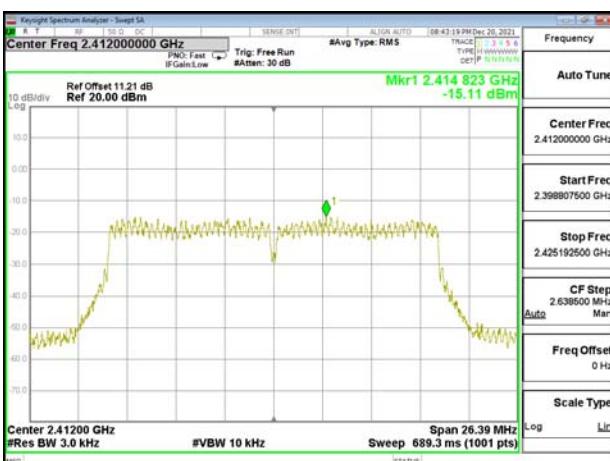
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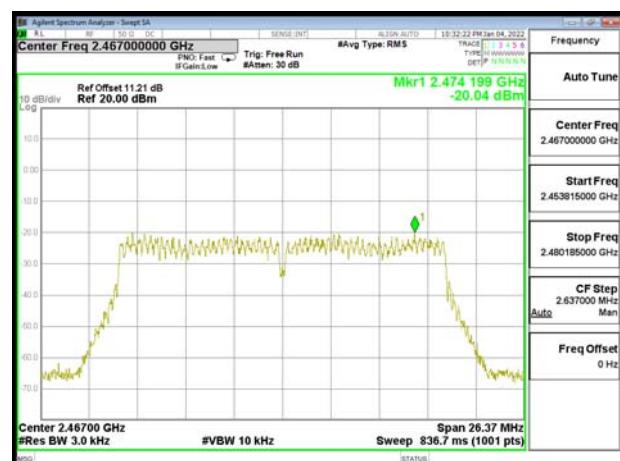
802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain0_2412MHz



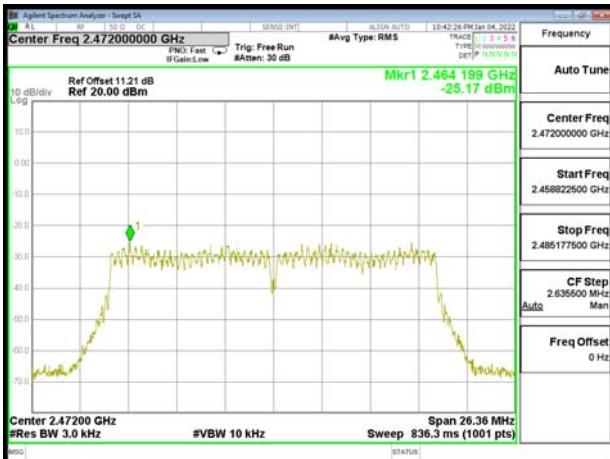
802.11n_20MHz_Chain0_2467MHz



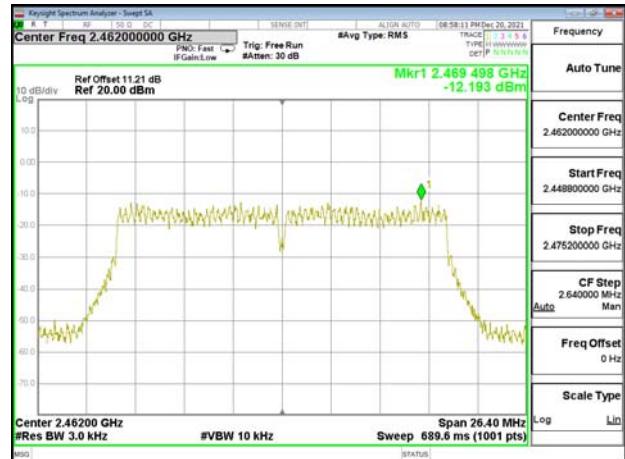
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802.11n_20MHz_Chain0_2472MHz



802.11n_20MHz_Chain1_2462MHz



802.11n_20MHz_Chain1_2412MHz



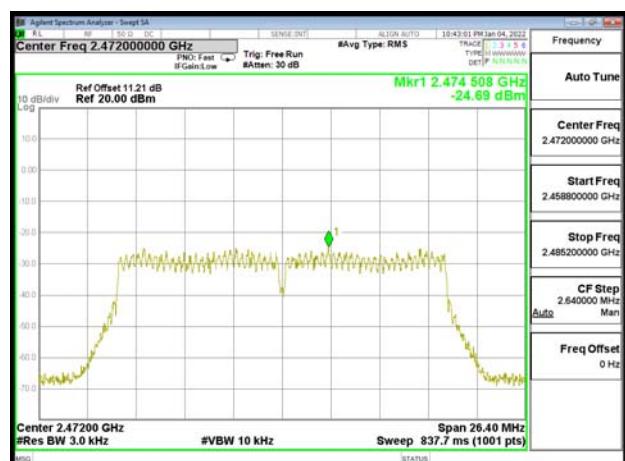
802.11n_20MHz_Chain1_2467MHz



802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain1_2472MHz

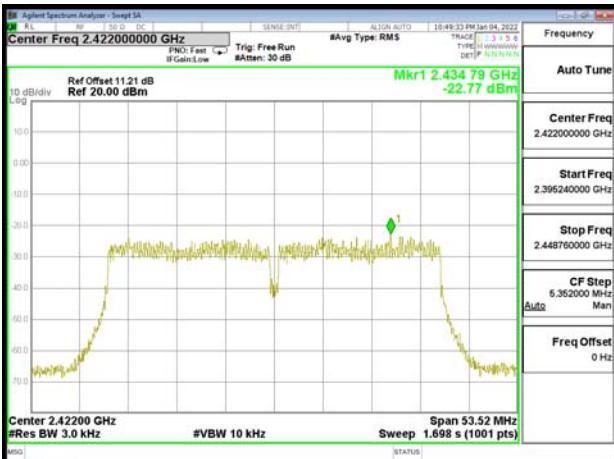


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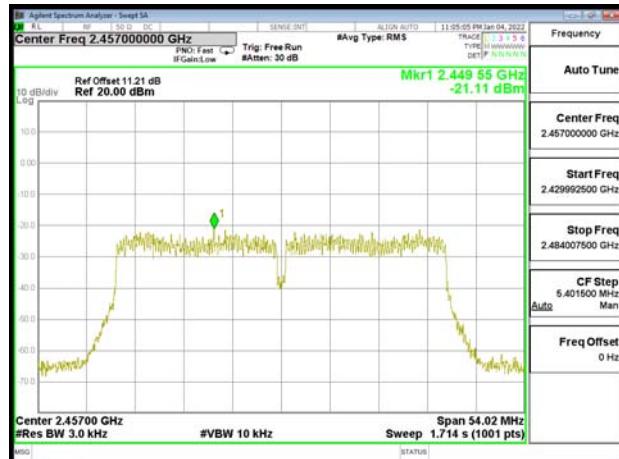
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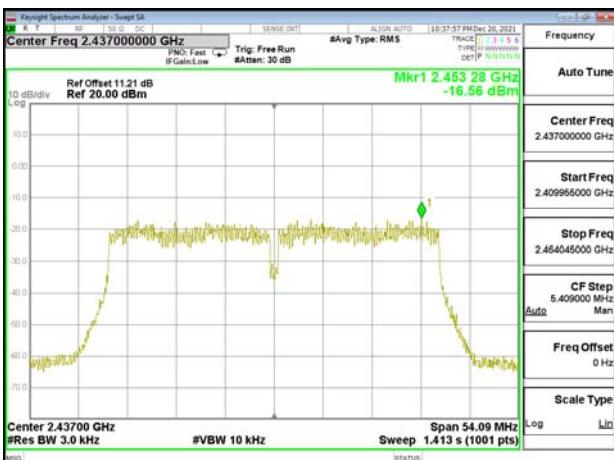
802.11n_40MHz_Chain0_2422MHz



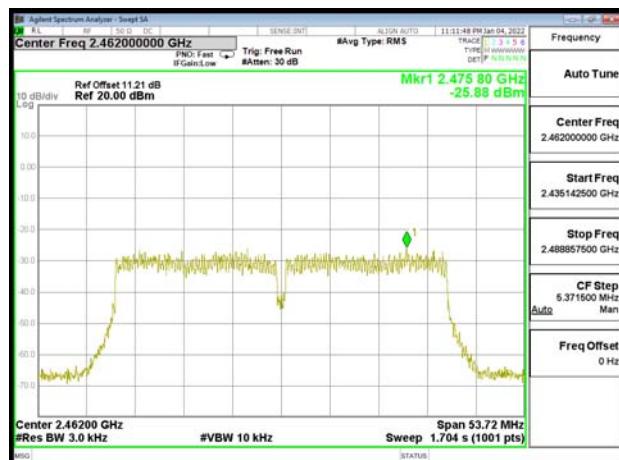
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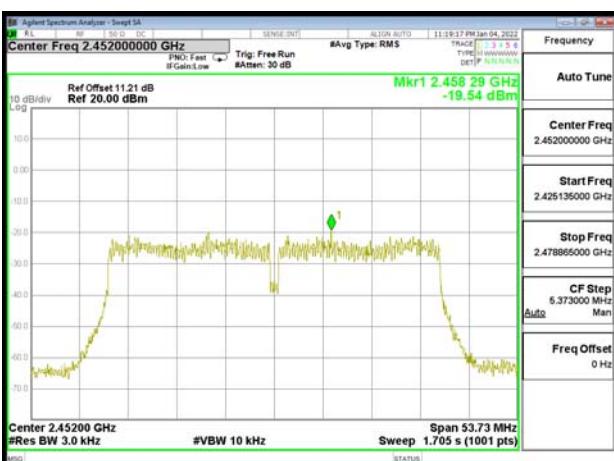
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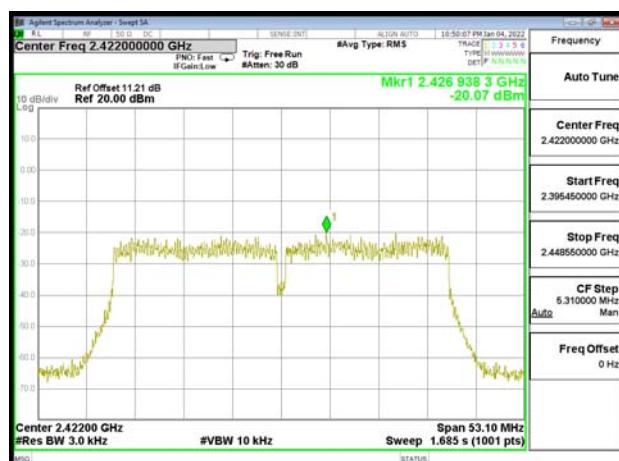
802.11n_40MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2422MHz

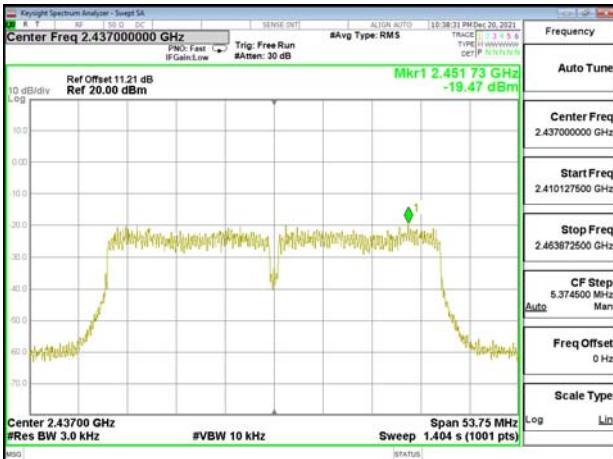


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

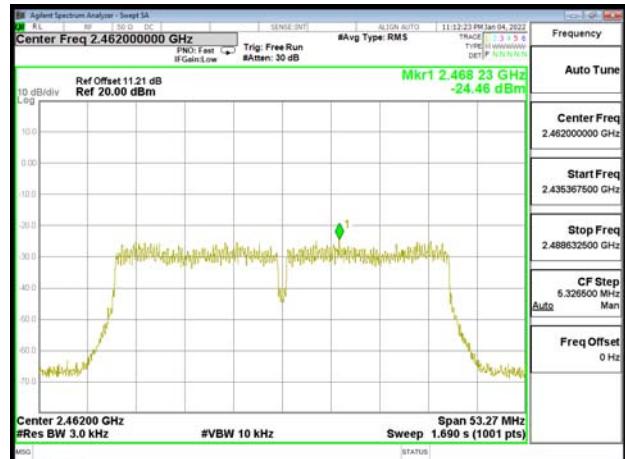
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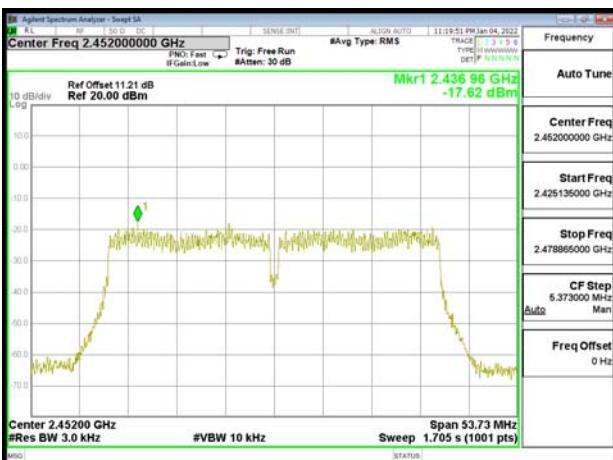
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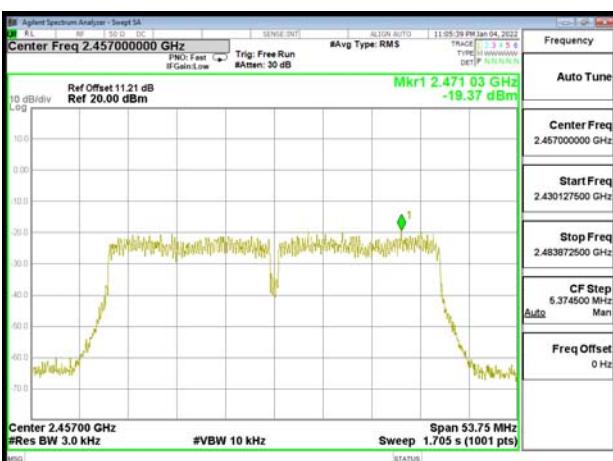
802.11n_40MHz_Chain1_2462MHz



802.11n_40MHz_Chain1_2452MHz



802.11n_40MHz_Chain1_2457MHz



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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

14.2 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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