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802.11ax_40MHz_Chain0_2422MHz



802.11ax_40MHz_Chain0_2437MHz



802.11ax 40MHz Chain0 2452MHz



802.11ax_40MHz_Chain1_2422MHz



802.11ax_40MHz_Chain1_2437MHz



802.11ax 40MHz Chain1 2452MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 **Standard Applicable**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

Note:

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

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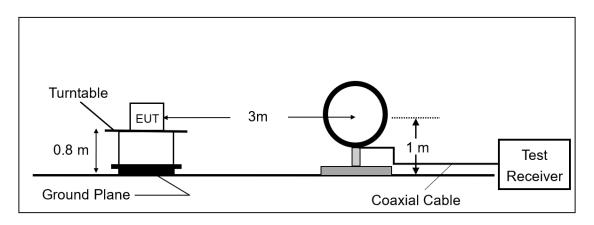
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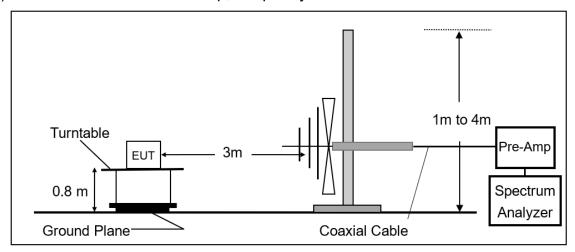
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11.2 **Test Setup**

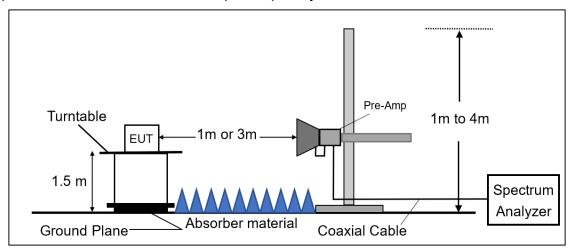
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.3 **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.

11.4 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*log(uV/m)

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Actual $FS(dB\mu V/m) = SPA$. Reading level $(dB\mu V) + Factor(dB)$ Factor $(dB) = Antenna\ Factor(dB\mu V/m) + Cable\ Loss(dB) - Pre_Amplifier\ Gain(dB)$

11.5 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.

11.6 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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Test Mode

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Antenna Pol. :Vertical

11.6.1 **Radiated Band Edge Measurement Result**

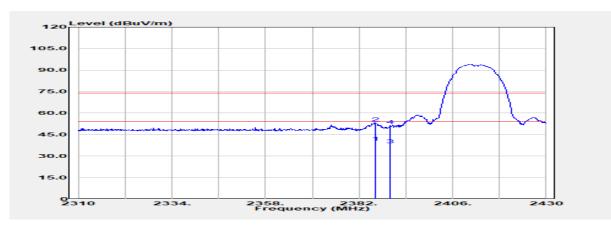
:BE CH LOW

Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11b Test Date :2022-02-14

Test Frequency :2412 MHz Temp./Humi. :18.8/63

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2386.080	Average	45.45	-5.68	39.77	54.00	-14.23
2386.080	Peak	59.05	-5.68	53.37	74.00	-20.63
2390.000	Average	43.73	-5.69	38.04	54.00	-15.96
2390.000	Peak	57.06	-5.69	51.37	74.00	-22.63

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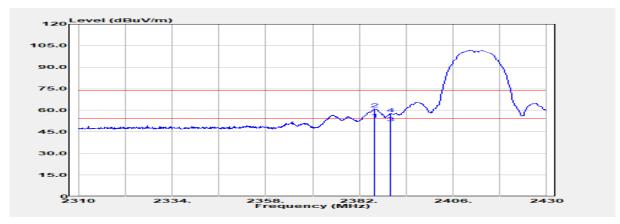
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11b **Test Date** :2022-02-14

Test Frequency :2412 MHz Temp./Humi.: 18.8/63

Test Mode :BE CH LOW Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2385.960	Average	59.50	-5.68	53.82	54.00	-0.18
2385.960	Peak	66.67	-5.68	60.99	74.00	-13.01
2390.000	Average	57.16	-5.69	51.47	54.00	-2.53
2390.000	Peak	63.49	-5.69	57.80	74.00	-16.20

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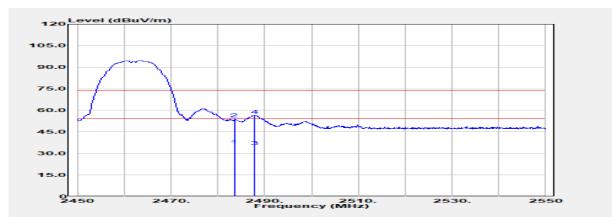
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11b **Test Date** :2022-02-14

Test Frequency :2462 MHz Temp./Humi.: 18.8/63 Antenna Pol. :Vertical Test Mode :BE CH HIGH

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	41.35	-5.94	35.41	54.00	-18.59
2483.500	Peak	60.15	-5.94	54.21	74.00	-19.79
2487.900	Average	40.98	-5.95	35.02	54.00	-18.98
2487.900	Peak	62.58	-5.95	56.63	74.00	-17.37

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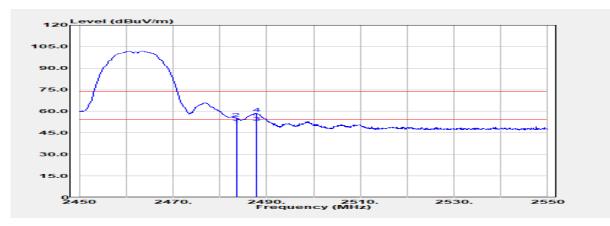
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11b **Test Date** :2022-02-14

Test Frequency :2462 MHz Temp./Humi.: 18.8/63

Test Mode :BE CH HIGH Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	56.39	-5.94	50.45	54.00	-3.55
2483.500	Peak	60.99	-5.94	55.05	74.00	-18.95
2487.700	Average	58.21	-5.95	52.26	54.00	-1.74
2487.700	Peak	64.59	-5.95	58.64	74.00	-15.36

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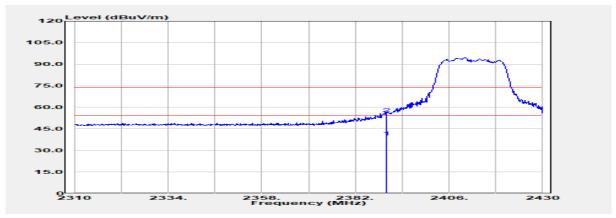
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode :802.11g Test Date :2022-02-14

Test Frequency :2412 MHz Temp./Humi. :18.8/63
Test Mode :BE CH LOW Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	45.06	-5.69	39.37	54.00	-14.63
2390.000	Peak	61.31	-5.69	55.62	74.00	-18.38

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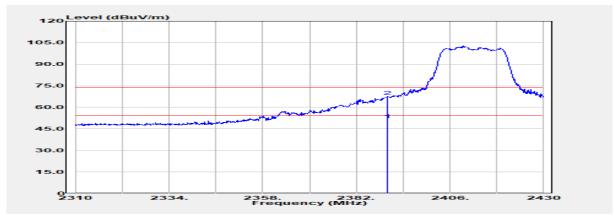
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11g **Test Date** :2022-02-15

Test Frequency :2412 MHz Temp./Humi. :19.8/60

Test Mode :BE CH LOW Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



F	req.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
N	ИHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
239	000.00	Average	57.24	-5.69	51.54	54.00	-2.46
239	90.000	Peak	73.33	-5.69	67.64	74.00	-6.36

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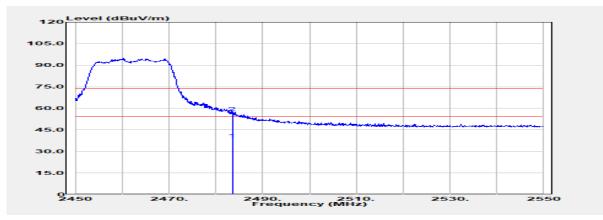
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode :802.11g Test Date :2022-02-15

Test Frequency :2462 MHz Temp./Humi. :19.8/60
Test Mode :BE CH HIGH Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	44.47	-5.94	38.52	54.00	-15.48
2483.500	Peak	63.13	-5.94	57.19	74.00	-16.81

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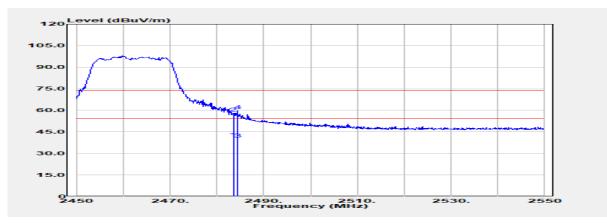
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11g **Test Date** :2022-02-15

Test Frequency :2462 MHz Temp./Humi. :19.8/60

Antenna Pol. :Horizontal Test Mode :BE CH HIGH

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	46.50	-5.94	40.56	54.00	-13.44
2483.500	Peak	63.93	-5.94	57.99	74.00	-16.01
2484.400	Average	45.93	-5.94	39.99	54.00	-14.01
2484.400	Peak	65.68	-5.94	59.74	74.00	-14.26

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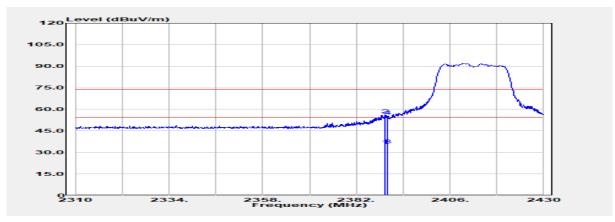
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n20 **Test Date** :2022-02-15

Test Frequency :2412 MHz Temp./Humi. :19.8/60 Test Mode :BE CH LOW Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2389.200	Average	40.53	-5.69	34.84	54.00	-19.16
2389.200	Peak	61.83	-5.69	56.14	74.00	-17.86
2390.000	Average	40.93	-5.69	35.24	54.00	-18.76
2390.000	Peak	61.01	-5.69	55.32	74.00	-18.68

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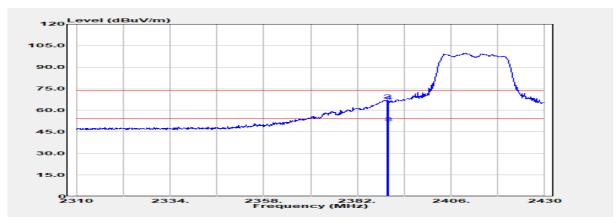
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n20 **Test Date** :2022-02-15

Test Frequency :2412 MHz Temp./Humi. :19.8/60

Test Mode :BE CH LOW Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2389.680	Average	56.62	-5.69	50.93	54.00	-3.07
2389.680	Peak	72.93	-5.69	67.24	74.00	-6.76
2390.000	Average	56.97	-5.69	51.28	54.00	-2.72
2390.000	Peak	72.13	-5.69	66.44	74.00	-7.56

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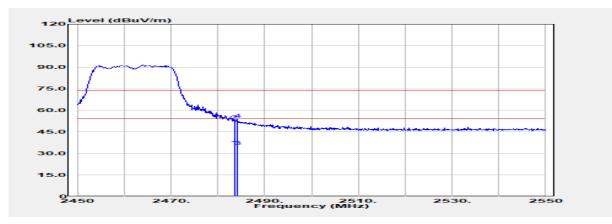
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n20 **Test Date** :2022-02-15

Test Frequency :2462 MHz Temp./Humi. :19.8/60 Test Mode :BE CH HIGH Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	41.04	-5.94	35.10	54.00	-18.90
2483.500	Peak	58.45	-5.94	52.51	74.00	-21.49
2484.100	Average	40.81	-5.94	34.87	54.00	-19.13
2484.100	Peak	59.90	-5.94	53.96	74.00	-20.04

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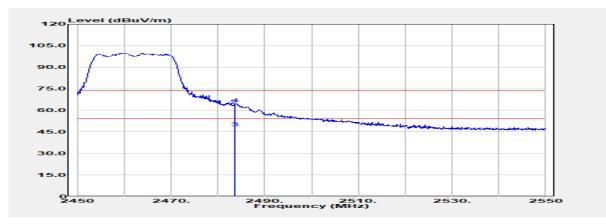
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n20 **Test Date** :2022-02-15

Test Frequency :2462 MHz Temp./Humi. :19.8/60

Test Mode :BE CH HIGH Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	53.92	-5.94	47.98	54.00	-6.02
2483.500	Peak	69.53	-5.94	63.59	74.00	-10.41
2483.700	Average	53.73	-5.94	47.79	54.00	-6.21
2483.700	Peak	70.47	-5.94	64.53	74.00	-9.47

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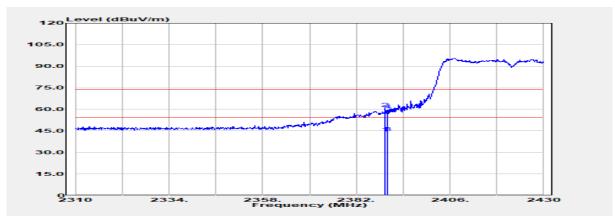
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n40 **Test Date** :2022-02-15

Test Frequency :2422 MHz Temp./Humi. :17.8/62 Antenna Pol. :Vertical Test Mode :BE CH LOW

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2389.320	Average	49.41	-5.69	43.73	54.00	-10.27
2389.320	Peak	66.32	-5.69	60.63	74.00	-13.37
2390.000	Average	49.72	-5.69	44.03	54.00	-9.97
2390.000	Peak	65.22	-5.69	59.53	74.00	-14.47

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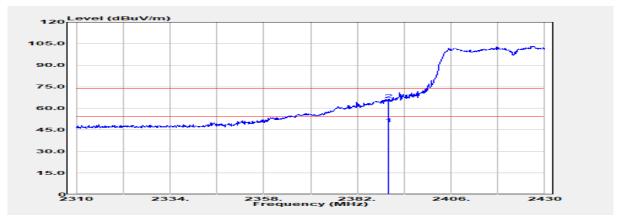
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode :802.11n40 Test Date :2022-02-15

Test Frequency :2422 MHz Temp./Humi. :17.8/62

Test Mode :BE CH LOW Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	54.97	-5.69	49.27	54.00	-4.73
2390.000	Peak	71.78	-5.69	66.09	74.00	-7.91

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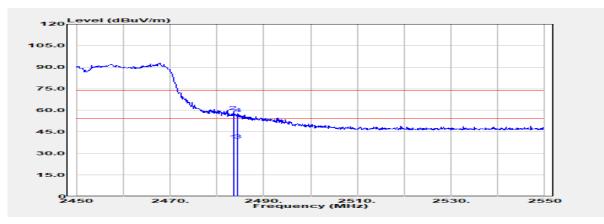
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n40 **Test Date** :2022-02-15

Test Frequency :2452 MHz Temp./Humi. :17.8/62 Antenna Pol. :Vertical Test Mode :BE CH HIGH

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	45.18	-5.94	39.24	54.00	-14.76
2483.500	Peak	65.25	-5.94	59.30	74.00	-14.70
2484.300	Average	45.32	-5.94	39.37	54.00	-14.63
2484.300	Peak	63.63	-5.94	57.69	74.00	-16.31

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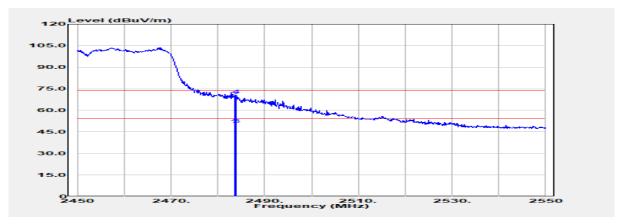
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n40 **Test Date** :2022-02-15

Test Frequency :2452 MHz Temp./Humi. :17.8/62

Test Mode :BE CH HIGH Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	55.72	-5.94	49.78	54.00	-4.22
2483.500	Peak	75.11	-5.94	69.17	74.00	-4.83
2483.800	Average	56.09	-5.94	50.15	54.00	-3.85
2483.800	Peak	76.76	-5.94	70.82	74.00	-3.18

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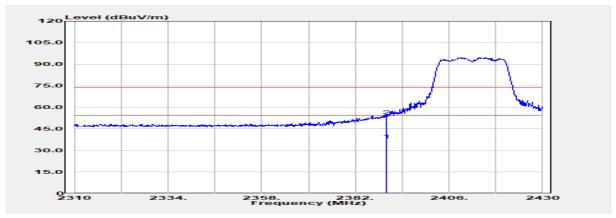
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-02-15

Test Frequency :2412 MHz Temp./Humi. :17.8/62 Antenna Pol. :Vertical Test Mode :BE CH LOW

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	42.89	-5.69	37.20	54.00	-16.80
2390.000	Peak	59.95	-5.69	54.26	74.00	-19.74

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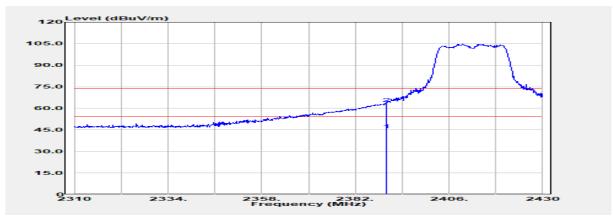
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 Test Date: 2022-02-15

Test Frequency :2412 MHz Temp./Humi. :17.8/62

Test Mode :BE CH LOW Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	50.76	-5.69	45.06	54.00	-8.94
2390.000	Peak	69.27	-5.69	63.58	74.00	-10.42

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Test Mode

Report No.: E2/2022/10038

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Antenna Pol. :Vertical

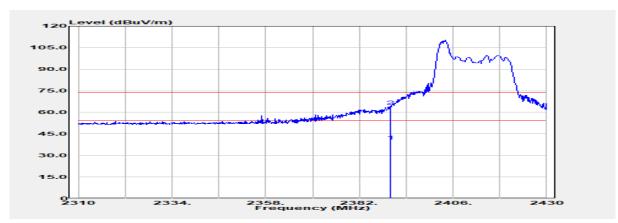
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-29

Test Frequency :2412 MHz Temp./Humi. :21.8/56

:BE CH LOW RU 26/0

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	45.75	-5.69	40.05	54.00	-13.95
2390.000	Peak	70.17	-5.69	64.48	74.00	-9.52

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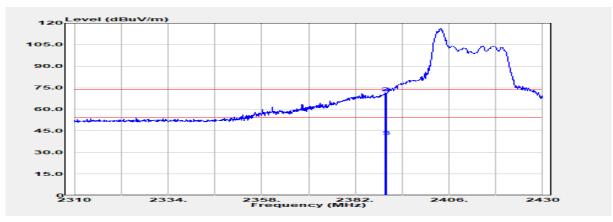
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-29

Test Frequency :2412 MHz Temp./Humi. :21.8/56

Test Mode :BE CH LOW RU 26/0 Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2389.680	Average	46.73	-5.69	41.04	54.00	-12.96
2389.680	Peak	77.18	-5.69	71.49	74.00	-2.51
2390.000	Average	46.83	-5.69	41.14	54.00	-12.86
2390.000	Peak	76.87	-5.69	71.18	74.00	-2.82

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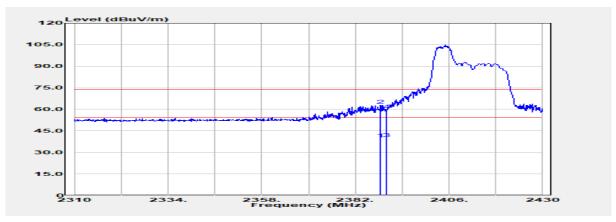
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-29

Test Frequency :2412 MHz Temp./Humi. :21.8/56

Test Mode :BE CH LOW RU 52/37 Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2388.480	Average	44.99	-5.69	39.31	54.00	-14.69
2388.480	Peak	68.61	-5.69	62.92	74.00	-11.08
2390.000	Average	45.26	-5.69	39.57	54.00	-14.43
2390.000	Peak	65.21	-5.69	59.52	74.00	-14.48

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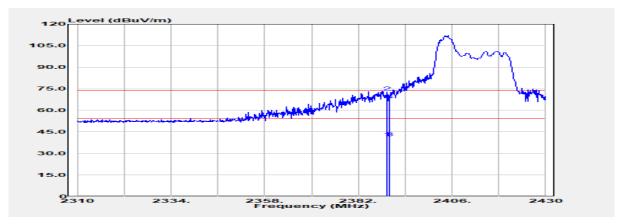
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 Test Date: 2022-03-29

Test Frequency :2412 MHz Temp./Humi. :21.8/56

Test Mode :BE CH LOW RU 52/37 Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2389.440	Average	46.63	-5.69	40.94	54.00	-13.06
2389.440	Peak	78.34	-5.69	72.65	74.00	-1.35
2390.000	Average	46.70	-5.69	41.01	54.00	-12.99
2390.000	Peak	73.01	-5.69	67.32	74.00	-6.68

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Test Mode

Report No.: E2/2022/10038

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Antenna Pol. :Vertical

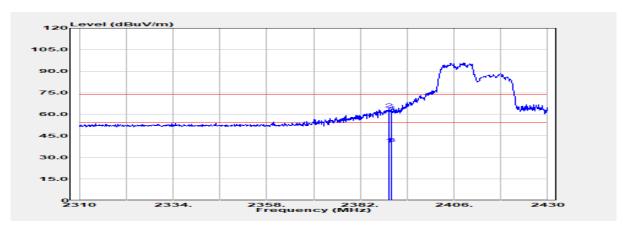
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-29

Test Frequency :2412 MHz Temp./Humi. :21.8/56

:BE CH LOW RU 106/53

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2389.200	Average	44.96	-5.69	39.27	54.00	-14.73
2389.200	Peak	69.52	-5.69	63.83	74.00	-10.17
2390.000	Average	45.48	-5.69	39.79	54.00	-14.21
2390.000	Peak	67.51	-5.69	61.81	74.00	-12.19

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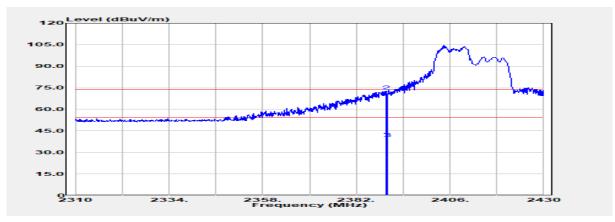
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-29

Test Frequency :2412 MHz Temp./Humi. :21.8/56

Test Mode :BE CH LOW RU 106/53 Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2389.800	Average	46.02	-5.69	40.33	54.00	-13.67
2389.800	Peak	78.43	-5.69	72.74	74.00	-1.26
2390.000	Average	45.43	-5.69	39.74	54.00	-14.26
2390.000	Peak	74.95	-5.69	69.26	74.00	-4.74

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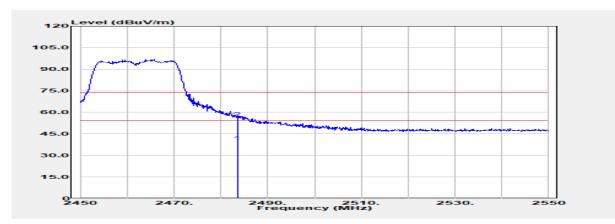
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 Test Date: 2022-02-15

Test Frequency :2462 MHz Temp./Humi. :17.8/62
Test Mode :BE CH HIGH Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	45.66	-5.94	39.72	54.00	-14.28
2483.500	Peak	62.07	-5.94	56.13	74.00	-17.87

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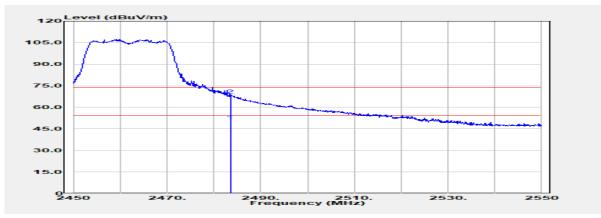
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-02-15

Test Frequency :2462 MHz Temp./Humi. :17.8/62

Test Mode :BE CH HIGH Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	56.84	-5.94	50.90	54.00	-3.10
2483.500	Peak	74.55	-5.94	68.61	74.00	-5.39

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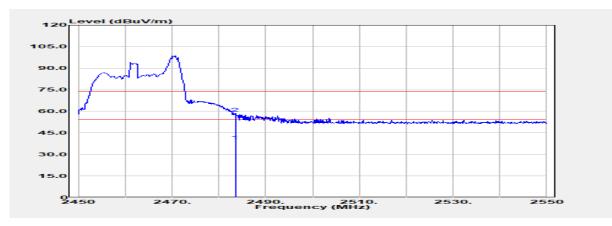
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-29

Test Frequency :2462 MHz Temp./Humi. :21.8/56

Test Mode :BE CH HIGH RU 26/8 Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
 MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	45.35	-5.94	39.41	54.00	-14.59
2483.500	Peak	64.59	-5.94	58.65	74.00	-15.35

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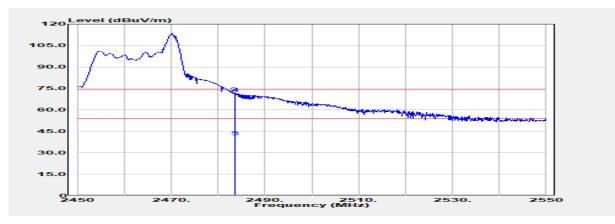
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-29

Test Frequency :2462 MHz Temp./Humi. :21.8/56

Test Mode :BE CH HIGH RU 26/8 Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
2483.500	Average	46.88	-5.94	40.94	54.00	-13.06
2483.500	Peak	77.86	-5.94	71.92	74.00	-2.08
2483.700	Average	47.15	-5.94	41.21	54.00	-12.79
2483.700	Peak	77.57	-5.94	71.63	74.00	-2.37

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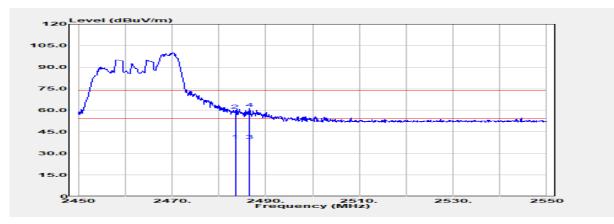
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-29

Test Frequency :2462 MHz Temp./Humi. :21.8/56 Test Mode :BE CH HIGH RU 52/40 Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	45.04	-5.94	39.10	54.00	-14.90
2483.500	Peak	66.05	-5.94	60.11	74.00	-13.89
2486.400	Average	45.16	-5.95	39.21	54.00	-14.79
2486.400	Peak	67.25	-5.95	61.30	74.00	-12.70

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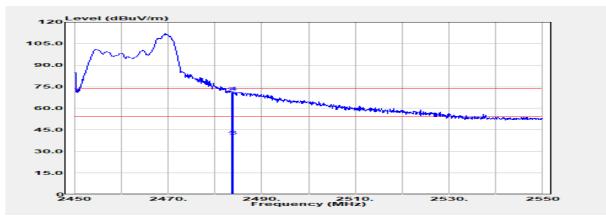
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-29

Test Frequency :2462 MHz Temp./Humi. :21.8/56

Test Mode :BE CH HIGH RU 52/40 Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	46.17	-5.94	40.23	54.00	-13.77
2483.500	Peak	76.76	-5.94	70.82	74.00	-3.18
2484.000	Average	46.42	-5.94	40.48	54.00	-13.52
2484.000	Peak	77.13	-5.94	71.18	74.00	-2.82

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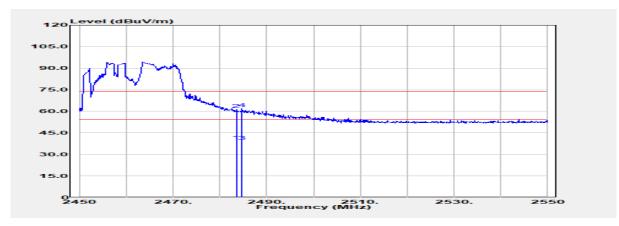
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-29

Test Frequency :2462 MHz Temp./Humi. :21.8/56 Test Mode :BE CH HIGH RU 106/54 Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	45.22	-5.94	39.28	54.00	-14.72
2483.500	Peak	67.32	-5.94	61.38	74.00	-12.62
2484.800	Average	45.05	-5.94	39.11	54.00	-14.89
2484.800	Peak	67.96	-5.94	62.02	74.00	-11.98

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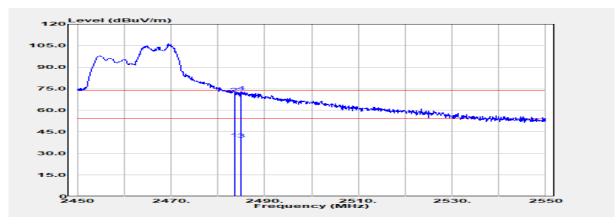
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-29

Test Frequency :2462 MHz Temp./Humi. :21.8/56

Test Mode :BE CH HIGH RU 106/54 Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	46.14	-5.94	40.20	54.00	-13.80
2483.500	Peak	77.82	-5.94	71.88	74.00	-2.12
2484.900	Average	45.90	-5.94	39.95	54.00	-14.05
2484.900	Peak	78.93	-5.94	72.98	74.00	-1.02

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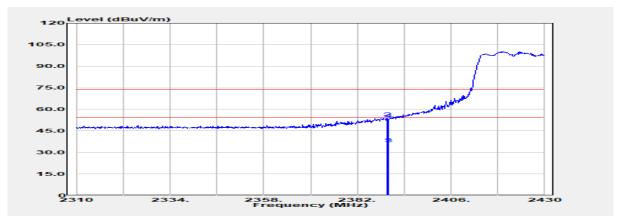
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax40 **Test Date** :2022-02-15

Test Frequency :2422 MHz Temp./Humi. :17.8/62 Antenna Pol. :Vertical Test Mode :BE CH LOW

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2389.560	Average	41.72	-5.69	36.03	54.00	-17.97
2389.560	Peak	59.90	-5.69	54.21	74.00	-19.79
2390.000	Average	41.83	-5.69	36.14	54.00	-17.86
2390.000	Peak	59.00	-5.69	53.31	74.00	-20.69

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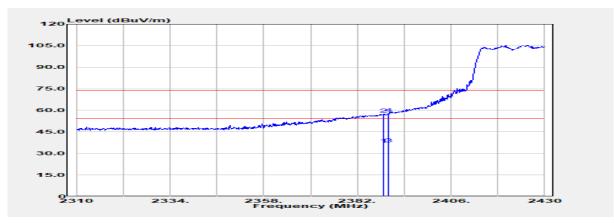
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax40 **Test Date** :2022-02-15

Test Frequency :2422 MHz Temp./Humi. :17.8/62

Test Mode :BE CH LOW Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2388.720	Average	41.94	-5.69	36.25	54.00	-17.75
2388.720	Peak	63.10	-5.69	57.41	74.00	-16.59
2390.000	Average	42.31	-5.69	36.61	54.00	-17.39
2390.000	Peak	63.53	-5.69	57.84	74.00	-16.16

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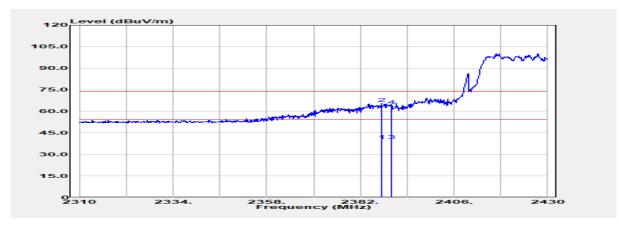
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax40 **Test Date** :2022-03-29

Test Frequency :2422 MHz Temp./Humi. :21.8/56

Test Mode :BE CH LOW RU 242/61 Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2387.400	Average	45.41	-5.68	39.73	54.00	-14.27
2387.400	Peak	71.10	-5.68	65.41	74.00	-8.59
2390.000	Average	45.35	-5.69	39.66	54.00	-14.34
2390.000	Peak	69.69	-5.69	64.00	74.00	-10.00

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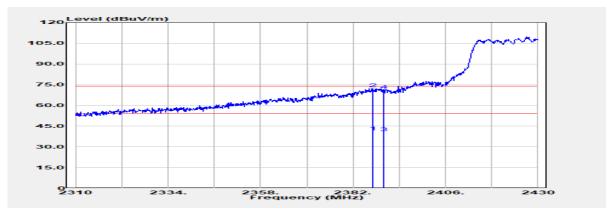
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax40 Test Date :2022-03-29

Test Frequency :2422 MHz Temp./Humi. :21.8/56

Test Mode :BE CH LOW RU 242/61 Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
2387.280	Average	46.58	-5.68	40.90	54.00	-13.10
2387.280	Peak	77.89	-5.68	72.21	74.00	-1.79
2390.000	Average	45.90	-5.69	40.21	54.00	-13.79
2390.000	Peak	76.55	-5.69	70.86	74.00	-3.14

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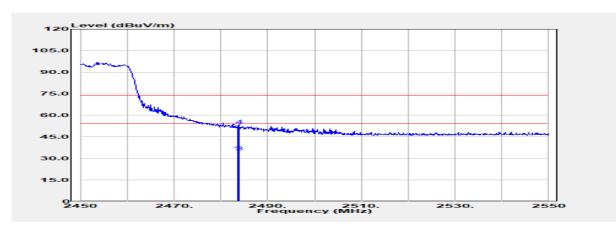
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax40 **Test Date** :2022-02-15

Test Frequency :2452 MHz Temp./Humi. :17.8/62 Antenna Pol. :Vertical Test Mode :BE CH HIGH

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	40.65	-5.94	34.71	54.00	-19.29
2483.500	Peak	56.58	-5.94	50.64	74.00	-23.36
2484.000	Average	40.59	-5.94	34.65	54.00	-19.35
2484.000	Peak	59.26	-5.94	53.32	74.00	-20.68

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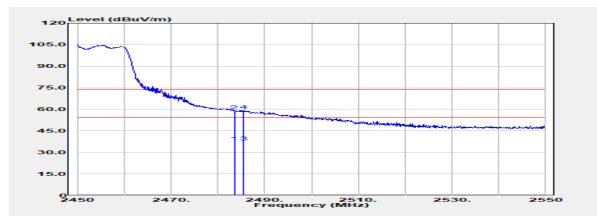
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax40 **Test Date** :2022-02-15

Test Frequency :2452 MHz Temp./Humi. :17.8/62

Test Mode :BE CH HIGH Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	43.36	-5.94	37.41	54.00	-16.59
2483.500	Peak	64.92	-5.94	58.98	74.00	-15.02
2485.400	Average	43.11	-5.95	37.16	54.00	-16.84
2485.400	Peak	65.24	-5.95	59.29	74.00	-14.71

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Test Mode

Report No.: E2/2022/10038

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Antenna Pol. :Vertical

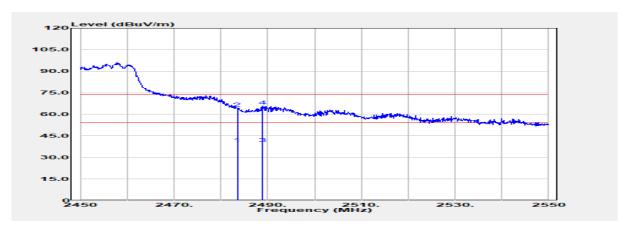
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax40 Test Date: 2022-03-29

Test Frequency :2452 MHz Temp./Humi. :21.8/56

:BE CH HIGH RU 242/62

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	45.73	-5.94	39.79	54.00	-14.21
2483.500	Peak	70.26	-5.94	64.32	74.00	-9.68
2488.900	Average	45.57	-5.96	39.61	54.00	-14.39
2488.900	Peak	71.91	-5.96	65.96	74.00	-8.04

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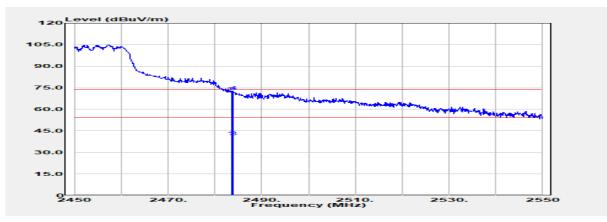
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax40 **Test Date** :2022-03-29

Test Frequency :2452 MHz Temp./Humi. :21.8/56

Test Mode :BE CH HIGH RU 242/62 Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	46.95	-5.94	41.01	54.00	-12.99
2483.500	Peak	77.40	-5.94	71.46	74.00	-2.54
2483.900	Average	46.94	-5.94	40.99	54.00	-13.01
2483.900	Peak	78.56	-5.94	72.62	74.00	-1.38

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Test Mode

Report No.: E2/2022/10038

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Antenna Pol. :Vertical

11.6.2 **Spurious Emission:**

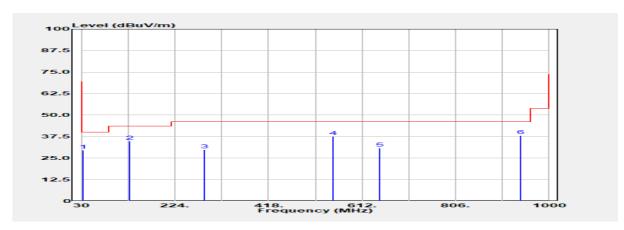
:TX CH MID

Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11g Test Date :2022-03-31

Test Frequency :2437 MHz Temp./Humi. :21.7/63

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
32.910	Peak	49.37	-19.69	29.69	40.00	-10.31
129.910	Peak	53.32	-18.50	34.82	43.50	-8.68
286.080	Peak	46.15	-16.31	29.84	46.00	-16.16
551.860	Peak	48.05	-10.47	37.58	46.00	-8.42
647.890	Peak	39.52	-8.76	30.76	46.00	-15.24
940.830	Peak	42.50	-4.51	37.98	46.00	-8.02

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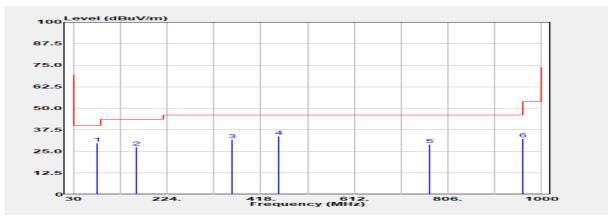
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11g **Test Date** :2022-03-31

Test Frequency :2437 MHz Temp./Humi. :21.7/63

Test Mode :TX CH MID Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
78.500	Peak	51.56	-21.67	29.90	40.00	-10.10
159.980	Peak	43.96	-16.33	27.63	43.50	-15.87
359.800	Peak	46.22	-14.38	31.85	46.00	-14.15
455.830	Peak	45.48	-11.63	33.85	46.00	-12.15
768.170	Peak	35.71	-6.51	29.19	46.00	-16.81
960.230	Peak	36.59	-4.23	32.36	54.00	-21.64

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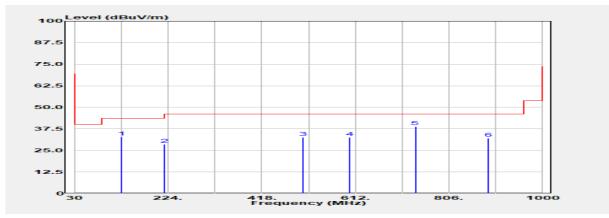
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n40 **Test Date** :2022-03-31

Test Frequency :2437 MHz Temp./Humi. :21.7/63 Test Mode :TX CH MID Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
127.970	Peak	51.66	-18.82	32.84	43.50	-10.66
216.240	Peak	48.62	-19.99	28.63	46.00	-17.37
504.330	Peak	44.25	-11.59	32.66	46.00	-13.34
600.360	Peak	42.23	-9.63	32.61	46.00	-13.39
736.160	Peak	46.39	-7.58	38.80	46.00	-7.20
888.450	Peak	37.99	-5.83	32.16	46.00	-13.84

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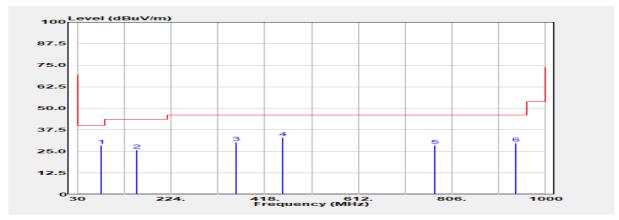
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n40 **Test Date** :2022-03-31

Test Frequency :2437 MHz Temp./Humi. :21.7/63

Test Mode :TX CH MID Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
	79.470	Peak	50.42	-21.85	28.56	40.00	-11.44
	154.160	Peak	42.34	-16.47	25.87	43.50	-17.63
	359.800	Peak	44.72	-14.38	30.34	46.00	-15.66
	455.830	Peak	44.78	-11.63	33.15	46.00	-12.85
	770.110	Peak	35.16	-6.47	28.69	46.00	-17.31
	936.950	Peak	34.30	-4.49	29.81	46.00	-16.19

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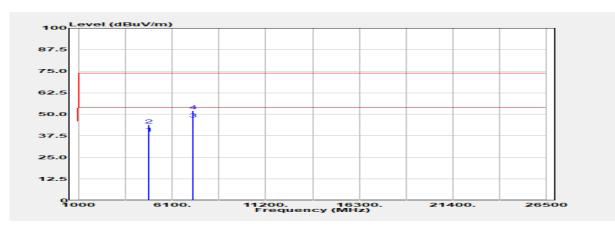
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11b **Test Date** :2022-03-05

Test Frequency :2412 MHz Temp./Humi. :21.9/70 Test Mode :TX CH LOW Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	39.14	-0.10	39.04	54.00	-14.96
4824.000	Peak	44.00	-0.10	43.90	74.00	-30.10
7236.000	Average	39.68	7.57	47.25	54.00	-6.75
7236.000	Peak	44.54	7.57	52.10	74.00	-21.90

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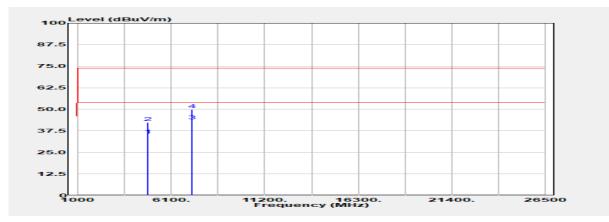
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11b **Test Date** :2022-03-05

Test Frequency :2412 MHz Temp./Humi. :21.9/70

Test Mode :TX CH LOW Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	35.24	-0.10	35.14	54.00	-18.86
4824.000	Peak	42.37	-0.10	42.27	74.00	-31.73
7236.000	Average	35.88	7.57	43.45	54.00	-10.55
7236.000	Peak	42.33	7.57	49.90	74.00	-24.10

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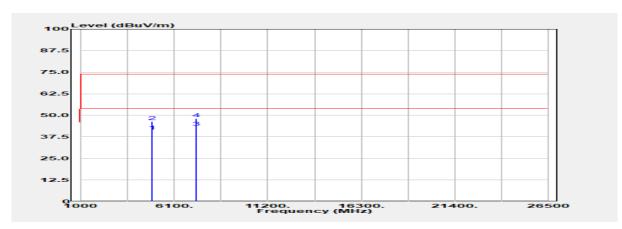
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11b **Test Date** :2022-03-05

Test Frequency :2437 MHz Temp./Humi. :21.9/70 Test Mode :TX CH MID Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	41.16	-0.26	40.90	54.00	-13.10
4874.000	Peak	46.50	-0.26	46.24	74.00	-27.76
7311.000	Average	36.52	6.68	43.20	54.00	-10.80
7311.000	Peak	41.45	6.68	48.13	74.00	-25.87

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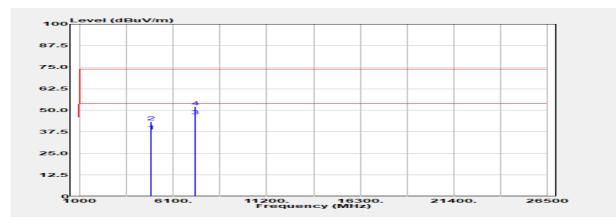
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11b **Test Date** :2022-03-05

Test Frequency :2437 MHz Temp./Humi. :21.9/70

Test Mode :TX CH MID Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	38.43	-0.26	38.17	54.00	-15.83
4874.000	Peak	43.62	-0.26	43.35	74.00	-30.65
7311.000	Average	40.22	6.68	46.90	54.00	-7.10
7311.000	Peak	45.45	6.68	52.13	74.00	-21.87

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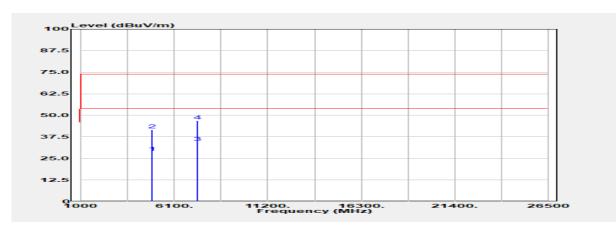
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11b **Test Date** :2022-03-05

Test Frequency :2462 MHz Temp./Humi. :21.9/70 Test Mode :TX CH HIGH Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	28.79	-0.13	28.66	54.00	-25.34
4924.000	Peak	41.68	-0.13	41.55	74.00	-32.45
7386.000	Average	26.77	7.63	34.40	54.00	-19.60
7386.000	Peak	39.33	7.63	46.96	74.00	-27.04

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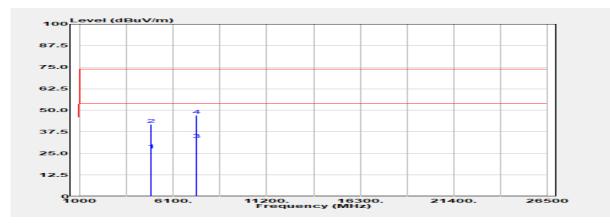
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11b **Test Date** :2022-03-05

Test Frequency :2462 MHz Temp./Humi. :21.9/70

Test Mode :TX CH HIGH Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	27.13	-0.13	27.00	54.00	-27.00
4924.000	Peak	41.94	-0.13	41.81	74.00	-32.19
7386.000	Average	25.43	7.63	33.06	54.00	-20.94
7386.000	Peak	39.58	7.63	47.21	74.00	-26.79

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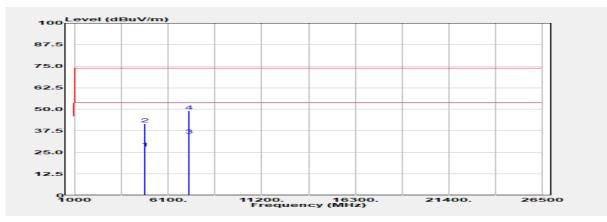
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11g **Test Date** :2022-03-05

Test Frequency :2412 MHz Temp./Humi. :21.9/70 Test Mode :TX CH LOW Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	27.62	-0.10	27.52	54.00	-26.48
4824.000	Peak	41.63	-0.10	41.52	74.00	-32.48
7236.000	Average	27.55	7.57	35.12	54.00	-18.88
7236.000	Peak	41.59	7.57	49.16	74.00	-24.84

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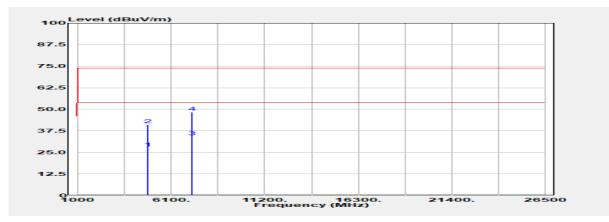
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11g **Test Date** :2022-03-05

Test Frequency :2412 MHz Temp./Humi. :21.9/70

Test Mode :TX CH LOW Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	27.58	-0.10	27.48	54.00	-26.52
4824.000	Peak	41.31	-0.10	41.21	74.00	-32.79
7236.000	Average	26.44	7.57	34.01	54.00	-19.99
7236.000	Peak	40.88	7.57	48.45	74.00	-25.55

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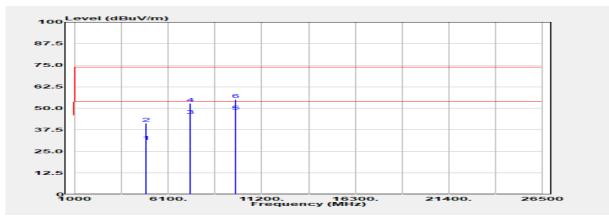
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11g **Test Date** :2022-03-05

Test Frequency :2437 MHz Temp./Humi. :21.9/70 Test Mode :TX CH MID Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
	4874.000	Average	31.14	-0.26	30.87	54.00	-23.13
	4874.000	Peak	41.69	-0.26	41.43	74.00	-32.57
	7311.000	Average	39.16	6.68	45.84	54.00	-8.16
	7311.000	Peak	46.30	6.68	52.98	74.00	-21.02
	9750.000	Average	38.56	9.76	48.32	54.00	-5.68
	9750.000	Peak	45.27	9.76	55.03	74.00	-18.97

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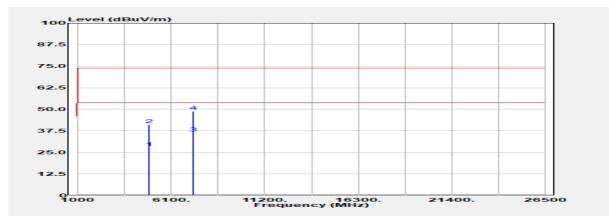
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11g **Test Date** :2022-03-05

Test Frequency :2437 MHz Temp./Humi. :21.9/70

Test Mode :TX CH MID Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	28.13	-0.26	27.87	54.00	-26.13
4874.000	Peak	41.26	-0.26	41.00	74.00	-33.00
7311.000	Average	29.55	6.68	36.23	54.00	-17.77
7311.000	Peak	42.09	6.68	48.77	74.00	-25.23

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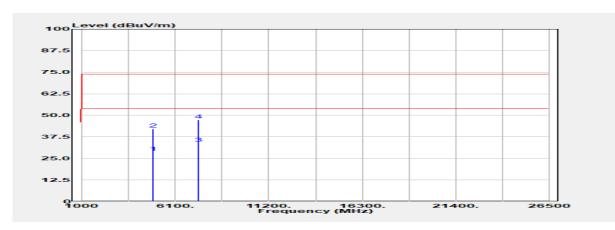
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11g **Test Date** :2022-03-05

Test Frequency :2462 MHz Temp./Humi. :21.9/70 Test Mode :TX CH HIGH Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	28.77	-0.13	28.64	54.00	-25.36
4924.000	Peak	42.13	-0.13	41.99	74.00	-32.01
7386.000	Average	26.23	7.63	33.86	54.00	-20.14
7386.000	Peak	39.81	7.63	47.44	74.00	-26.56

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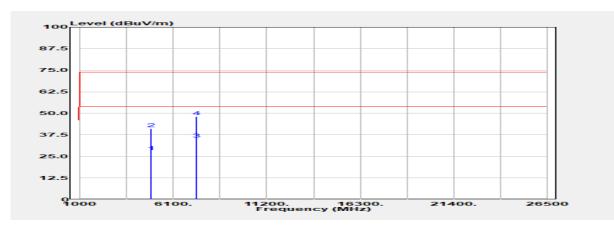
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11g **Test Date** :2022-03-05

Test Frequency :2462 MHz Temp./Humi. :21.9/70

Test Mode :TX CH HIGH Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	28.00	-0.13	27.87	54.00	-26.13
4924.000	Peak	41.21	-0.13	41.07	74.00	-32.93
7386.000	Average	27.52	7.63	35.15	54.00	-18.85
7386.000	Peak	40.52	7.63	48.15	74.00	-25.85

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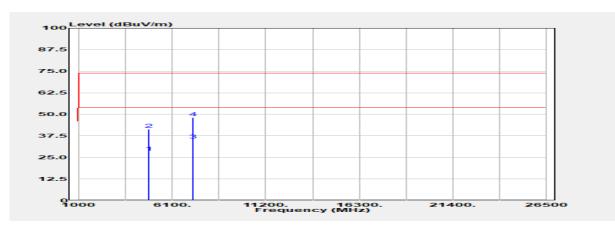
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n20 **Test Date** :2022-03-05

Test Frequency :2412 MHz Temp./Humi. :21.9/70 Test Mode :TX CH LOW Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	28.24	-0.10	28.14	54.00	-25.86
4824.000	Peak	41.54	-0.10	41.44	74.00	-32.56
7236.000	Average	27.43	7.57	35.00	54.00	-19.00
7236.000	Peak	40.68	7.57	48.24	74.00	-25.76

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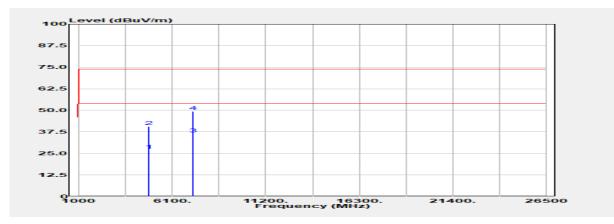
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n20 **Test Date** :2022-03-05

Test Frequency :2412 MHz Temp./Humi. :21.9/70

Test Mode :TX CH LOW Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	27.03	-0.10	26.93	54.00	-27.07
4824.000	Peak	40.65	-0.10	40.54	74.00	-33.46
7236.000	Average	28.67	7.57	36.24	54.00	-17.76
7236.000	Peak	41.89	7.57	49.46	74.00	-24.54

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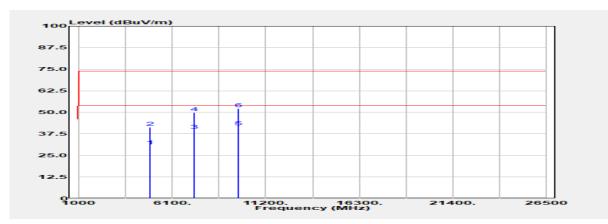
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n20 **Test Date** :2022-03-05

Test Frequency :2437 MHz Temp./Humi. :21.9/70 Test Mode :TX CH MID Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	30.88	-0.26	30.62	54.00	-23.38
4874.000	Peak	41.61	-0.26	41.34	74.00	-32.66
7311.000	Average	32.88	6.68	39.56	54.00	-14.44
7311.000	Peak	43.24	6.68	49.92	74.00	-24.08
9740.000	Average	31.58	9.93	41.51	54.00	-12.49
9740.000	Peak	42.25	9.93	52.18	74.00	-21.82

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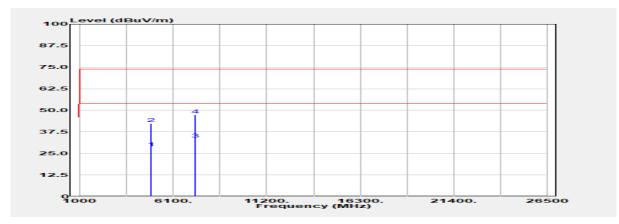
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n20 **Test Date** :2022-03-05

Test Frequency :2437 MHz Temp./Humi. :21.9/70

Test Mode :TX CH MID Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	28.52	-0.26	28.26	54.00	-25.74
4874.000	Peak	42.65	-0.26	42.39	74.00	-31.61
7311.000	Average	26.77	6.68	33.45	54.00	-20.55
7311.000	Peak	40.76	6.68	47.44	74.00	-26.56

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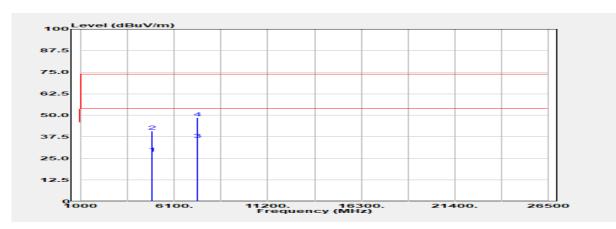
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n20 **Test Date** :2022-03-05

Test Frequency :2462 MHz Temp./Humi. :21.9/70 Test Mode :TX CH HIGH Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	28.11	-0.13	27.98	54.00	-26.02
4924.000	Peak	41.05	-0.13	40.91	74.00	-33.09
7386.000	Average	28.43	7.63	36.06	54.00	-17.94
7386.000	Peak	41.01	7.63	48.64	74.00	-25.36

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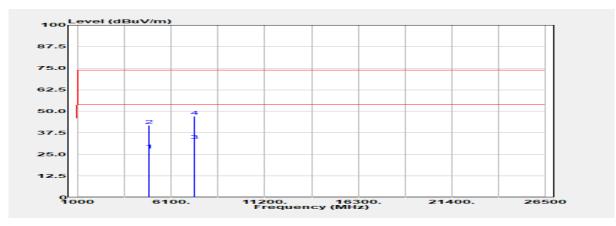
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n20 **Test Date** :2022-03-05

Test Frequency :2462 MHz Temp./Humi. :21.9/70

Test Mode :TX CH HIGH Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	27.58	-0.13	27.45	54.00	-26.55
4924.000	Peak	42.07	-0.13	41.93	74.00	-32.07
7386.000	Average	25.44	7.63	33.07	54.00	-20.93
7386.000	Peak	39.44	7.63	47.07	74.00	-26.93

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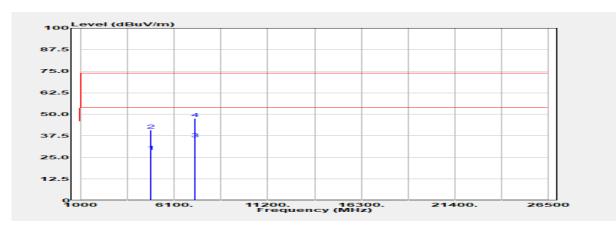
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n40 **Test Date** :2022-03-05

Test Frequency :2422 MHz Temp./Humi. :21.9/70 Test Mode :TX CH LOW Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4844.000	Average	28.61	0.08	28.70	54.00	-25.30
4844.000	Peak	40.67	0.08	40.76	74.00	-33.24
7266.000	Average	28.20	7.53	35.73	54.00	-18.27
7266.000	Peak	40.22	7.53	47.74	74.00	-26.26

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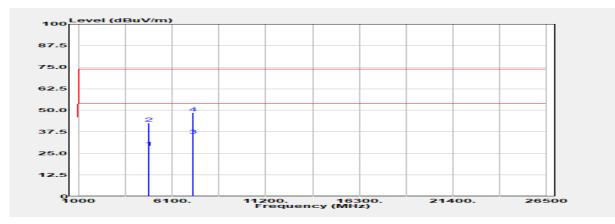
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n40 **Test Date** :2022-03-05

Test Frequency :2422 MHz Temp./Humi. :21.9/70

Test Mode :TX CH LOW Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4844.000	Average	28.50	0.08	28.58	54.00	-25.42
4844.000	Peak	42.43	80.0	42.52	74.00	-31.48
7266.000	Average	27.94	7.53	35.47	54.00	-18.53
7266.000	Peak	41.20	7.53	48.73	74.00	-25.27

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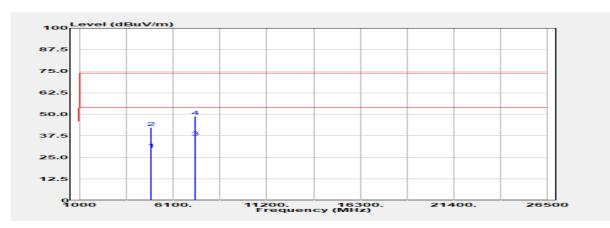
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n40 **Test Date** :2022-03-05

Test Frequency :2437 MHz Temp./Humi. :21.9/70 Test Mode :TX CH MID Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	30.16	-0.26	29.90	54.00	-24.10
4874.000	Peak	42.63	-0.26	42.37	74.00	-31.63
7311.000	Average	30.22	6.68	36.90	54.00	-17.10
7311.000	Peak	42.24	6.68	48.92	74.00	-25.08

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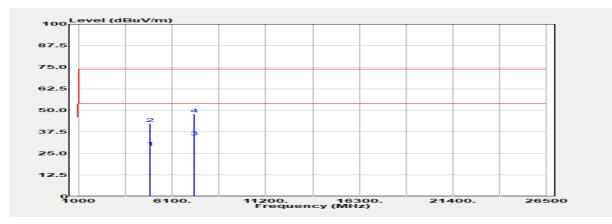
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n40 **Test Date** :2022-03-05

Test Frequency :2437 MHz Temp./Humi. :21.9/70

Test Mode :TX CH MID Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	28.91	-0.26	28.65	54.00	-25.35
4874.000	Peak	42.65	-0.26	42.39	74.00	-31.61
7311.000	Average	27.85	6.68	34.53	54.00	-19.47
7311.000	Peak	41.06	6.68	47.75	74.00	-26.25

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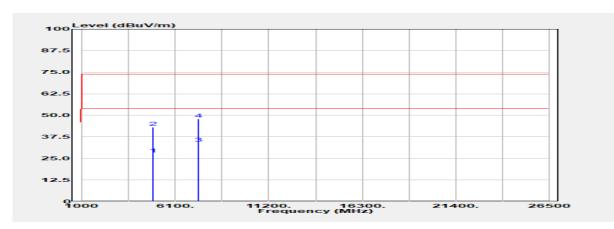
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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n40 **Test Date** :2022-03-05

Test Frequency :2452 MHz Temp./Humi. :21.9/70 Test Mode :TX CH HIGH Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4904.000	Average	28.15	-0.60	27.55	54.00	-26.45
4904.000	Peak	43.63	-0.60	43.02	74.00	-30.98
7356.000	Average	26.34	7.53	33.87	54.00	-20.13
7356.000	Peak	40.29	7.53	47.82	74.00	-26.18

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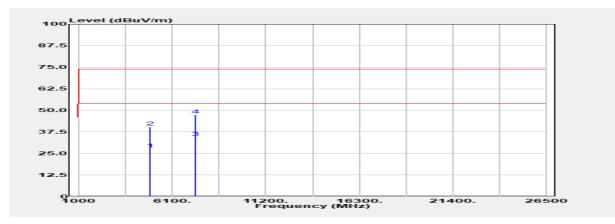
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11n40 **Test Date** :2022-03-05

Test Frequency :2452 MHz Temp./Humi. :21.9/70

Test Mode :TX CH HIGH Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4904.000	Average	28.11	-0.60	27.50	54.00	-26.50
4904.000	Peak	41.04	-0.60	40.43	74.00	-33.57
7356.000	Average	26.77	7.53	34.30	54.00	-19.70
7356.000	Peak	39.88	7.53	47.41	74.00	-26.59

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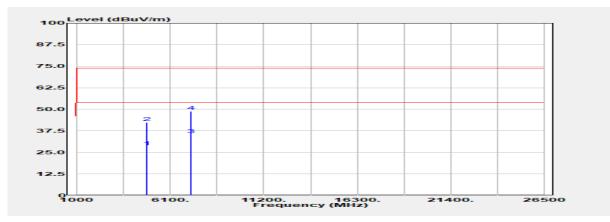
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-05

Test Frequency :2412 MHz Temp./Humi. :21.9/70

Test Mode :TX CH LOW FULL RU Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	28.43	-0.10	28.33	54.00	-25.67
4824.000	Peak	42.53	-0.10	42.43	74.00	-31.57
7236.000	Average	27.83	7.57	35.40	54.00	-18.60
7236.000	Peak	41.22	7.57	48.79	74.00	-25.21

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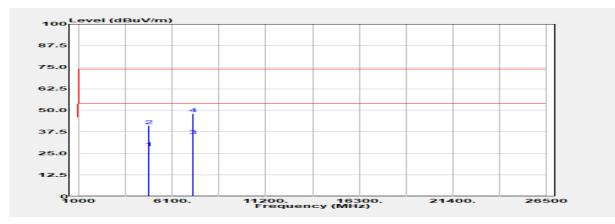
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-05

Test Frequency :2412 MHz Temp./Humi. :21.9/70

Test Mode :TX CH LOW FULL RU Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	28.44	-0.10	28.33	54.00	-25.67
4824.000	Peak	41.11	-0.10	41.01	74.00	-32.99
7236.000	Average	27.70	7.57	35.27	54.00	-18.73
7236.000	Peak	40.67	7.57	48.24	74.00	-25.76

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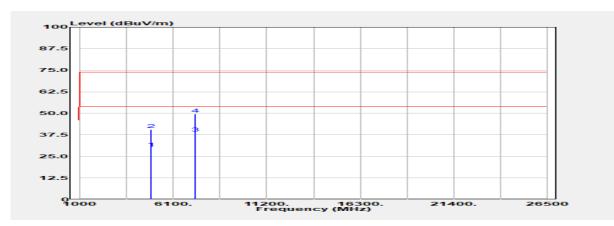
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-07

Test Frequency :2437 MHz Temp./Humi. :18.8/64

Test Mode :TX CH MID FULL RU Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	30.01	-0.26	29.75	54.00	-24.25
4874.000	Peak	40.89	-0.26	40.63	74.00	-33.37
7311.000	Average	31.80	6.68	38.48	54.00	-15.52
7311.000	Peak	42.99	6.68	49.67	74.00	-24.33

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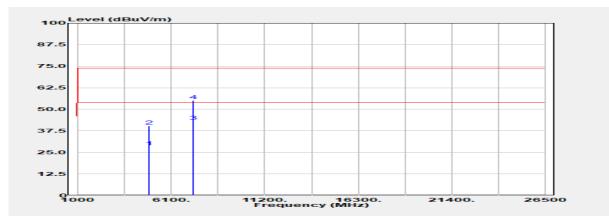
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-07

Test Frequency :2437 MHz Temp./Humi. :18.8/64

Test Mode :TX CH MID FULL RU Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	28.57	-0.26	28.30	54.00	-25.70
4874.000	Peak	40.59	-0.26	40.33	74.00	-33.67
7311.000	Average	36.46	6.68	43.14	54.00	-10.86
7311.000	Peak	48.33	6.68	55.01	74.00	-18.99

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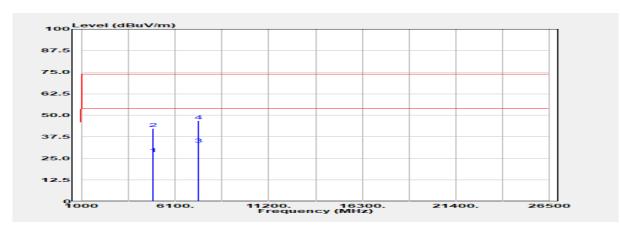
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-07

Test Frequency :2462 MHz Temp./Humi. :18.8/64

Test Mode :TX CH HIGH FULL RU Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	28.05	-0.13	27.92	54.00	-26.08
4924.000	Peak	42.48	-0.13	42.35	74.00	-31.65
7386.000	Average	25.69	7.63	33.32	54.00	-20.68
7386.000	Peak	39.17	7.63	46.80	74.00	-27.20

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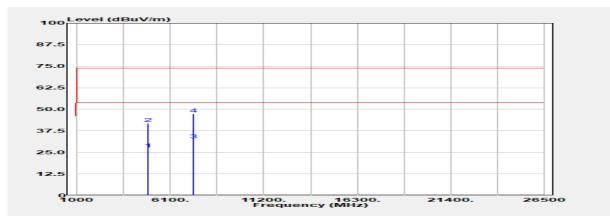
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax20 **Test Date** :2022-03-07

Test Frequency :2462 MHz Temp./Humi. :18.8/64

Test Mode :TX CH HIGH FULL RU Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	27.16	-0.13	27.03	54.00	-26.97
4924.000	Peak	42.00	-0.13	41.87	74.00	-32.13
7386.000	Average	24.78	7.63	32.41	54.00	-21.59
7386.000	Peak	39.85	7.63	47.48	74.00	-26.52

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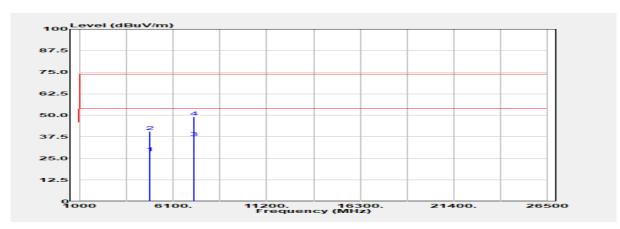
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax40 **Test Date** :2022-03-07

Test Frequency :2422 MHz Temp./Humi. :18.8/64

Test Mode :TX CH LOW FULL RU Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4844.000	Average	28.26	0.08	28.34	54.00	-25.66
4844.000	Peak	40.56	80.0	40.65	74.00	-33.35
7266.000	Average	29.45	7.53	36.98	54.00	-17.02
7266.000	Peak	41.67	7.53	49.20	74.00	-24.80

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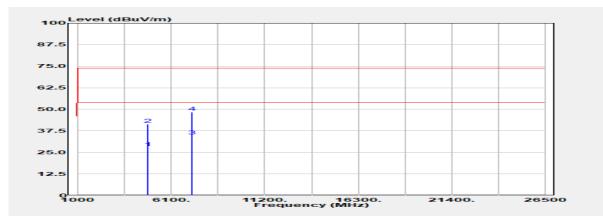
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax40 **Test Date** :2022-03-07

Test Frequency :2422 MHz Temp./Humi. :18.8/64

Test Mode :TX CH LOW FULL RU Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4844.000	Average	27.85	0.08	27.93	54.00	-26.07
4844.000	Peak	41.18	80.0	41.27	74.00	-32.73
7266.000	Average	26.98	7.53	34.51	54.00	-19.49
7266.000	Peak	40.83	7.53	48.36	74.00	-25.64

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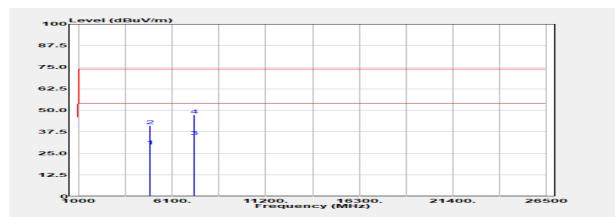
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax40 **Test Date** :2022-03-07

Test Frequency :2437 MHz Temp./Humi. :18.8/64

Test Mode :TX CH MID FULL RU Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	29.53	-0.26	29.27	54.00	-24.73
4874.000	Peak	41.38	-0.26	41.11	74.00	-32.89
7311.000	Average	28.13	6.68	34.81	54.00	-19.19
7311.000	Peak	40.63	6.68	47.31	74.00	-26.69

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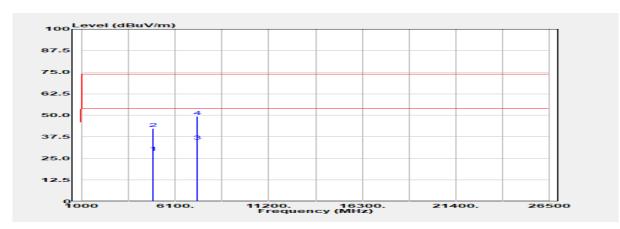
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax40 **Test Date** :2022-03-07

Test Frequency :2437 MHz Temp./Humi. :18.8/64

Test Mode :TX CH MID FULL RU Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	28.75	-0.26	28.49	54.00	-25.51
4874.000	Peak	42.54	-0.26	42.27	74.00	-31.73
7311.000	Average	28.37	6.68	35.05	54.00	-18.95
7311.000	Peak	42.66	6.68	49.34	74.00	-24.66

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Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax40 **Test Date** :2022-03-07

Test Frequency :2452 MHz Temp./Humi. :18.8/64 Test Mode :TX CH HIGH FULL RU Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4904.000	Average	29.82	-0.60	29.21	54.00	-24.79
4904.000	Peak	42.54	-0.60	41.93	74.00	-32.07
7356.000	Average	26.28	7.53	33.81	54.00	-20.19
7356.000	Peak	39.94	7.53	47.46	74.00	-26.54

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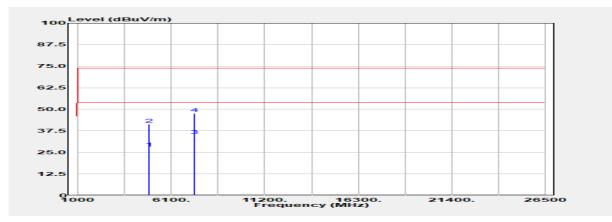
Report Number :E2/2022/10038 Test Site :SAC D

Operation Mode: 802.11ax40 **Test Date** :2022-03-07

Test Frequency :2452 MHz Temp./Humi. :18.8/64

Test Mode :TX CH HIGH FULL RU Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4904.000	Average	28.19	-0.60	27.59	54.00	-26.41
4904.000	Peak	42.02	-0.60	41.42	74.00	-32.58
7356.000	Average	27.22	7.53	34.75	54.00	-19.25
7356.000	Peak	40.07	7.53	47.59	74.00	-26.41

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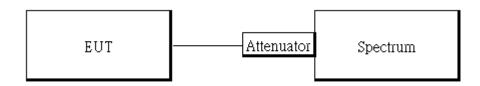
12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall

12.2 Test Setup



12.3 Measurement Procedure

- 1. Set analyzer center frequency to DTS channel center frequency.
- 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.

be used to determine the power spectral density.

- 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.

Note:

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

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12.4 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.

• 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

 $g_{i,k} = /20$ 10Gk 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 grater than 6 dBi and has been taken into account in the test result.

12.5 Power spectral density

POWER DENSITY 802.11b							
Freq.	Ch0	Ch1	PSD	Limit	Result		
(MHz)	PSD	PSD	(dBm/3kHz)	(dBm/3kHz)	Result		
2412	-1.18	-1.72	1.57	7.79	PASS		
2437	-0.2	-1.14	2.37	7.79	PASS		
2462	-2.05	-1.27	1.37	7.79	PASS		

POWER DENSITY 802.11g							
Freq.	Ch0	Ch1	PSD	Limit	Result		
(MHz)	PSD	PSD	(dBm/3kHz)	(dBm/3kHz)	Resuit		
2412	-13.63	-13.89	-10.75	7.79	PASS		
2437	-7.42	-5.84	-3.55	7.79	PASS		
2462	-14.12	-13.17	-10.61	7.79	PASS		

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POWER DENSITY 802.11n HT20							
Freq.	Ch0	Ch1	PSD	Limit	Docult		
(MHz)	PSD	PSD	(dBm/3kHz)	(dBm/3kHz)	Result		
2412	-15.57	-13.46	-11.38	7.79	PASS		
2437	-8.58	-5.98	-4.08	7.79	PASS		
2462	-13.05	-13.18	-10.10	7.79	PASS		

POWER DENSITY 802.11n HT40							
Freq.	Ch0	Ch1	PSD	Limit	Result		
(MHz)	PSD	PSD	(dBm/3kHz)	(dBm/3kHz)	Result		
2422	-18.25	-15.56	-13.69	7.79	PASS		
2437	-18.58	-11.1	-10.39	7.79	PASS		
2452	-19.81	-17.48	-15.48	7.79	PASS		

POWER DENSITY 802.11ax HE20								
Freq.	RU	Ch0	Ch1	PSD	Limit	Result		
(MHz)	Config	PSD	PSD	(dBm/3kHz)	(dBm/3kHz)	Nesuit		
	full	-16.33	-15.32	-12.79	7.79	PASS		
2412	26/0	-10.05	-9.5	-6.76	7.79	PASS		
2412	52/37	-10.88	-10.7	-7.78	7.79	PASS		
	106/53	-13.84	-13.29	-10.55	7.79	PASS		
2437	full	-8.91	-7.51	-5.14	7.79	PASS		
	full	-12.44	-11.48	-8.92	7.79	PASS		
2462	26/8	-8.43	-6.01	-4.04	7.79	PASS		
	52/40	-9.24	-9.17	-6.19	7.79	PASS		
	106/54	-12.68	-12.38	-9.52	7.79	PASS		

POWER DENSITY 802.11ax HE40								
Freq.	RU	Ch0	Ch1	PSD	Limit	Docult		
(MHz)	Config	PSD	PSD	(dBm/3kHz)	(dBm/3kHz)	Result		
2422	full	-18.08	-17.28	-14.65	7.79	PASS		
2422	242/61	-16.28	-16.44	-13.35	7.79	PASS		
2437	full	-18.12	-15.8	-13.80	7.79	PASS		
2452	full	-18.83	-17.95	-15.36	7.79	PASS		
2402	242/62	-18.87	-18.1	-15.46	7.79	PASS		

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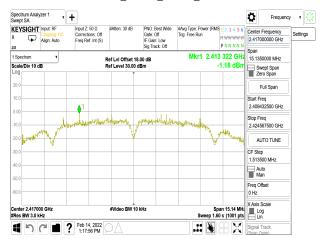
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802.11b_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2437MHz



802.11b 20MHz Chain0 2462MHz



802.11b_20MHz_Chain1_2412MHz



802.11b_20MHz_Chain1_2437MHz



802.11b 20MHz Chain1 2462MHz



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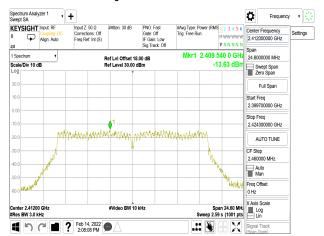
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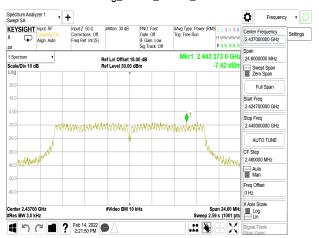


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802.11g_20MHz_Chain0_2412MHz



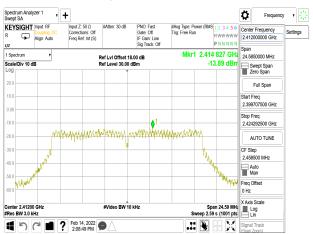
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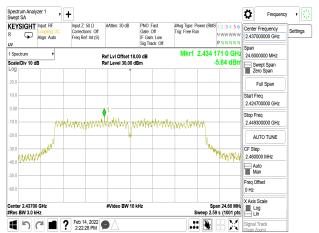
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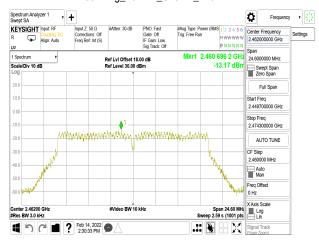
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802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain1_2462MHz



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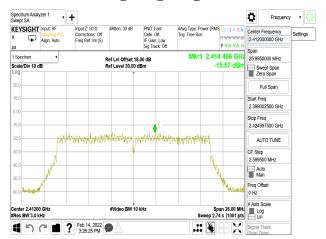
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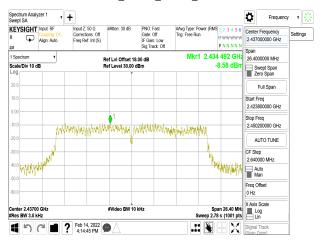


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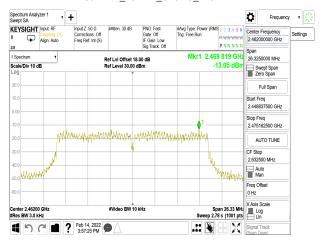
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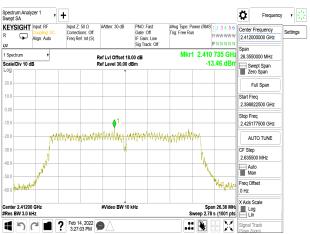
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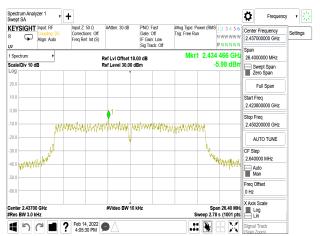
802.11n 20MHz Chain0 2462MHz



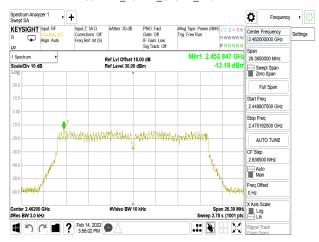
802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain1_2437MHz



802.11n 20MHz Chain1 2462MHz



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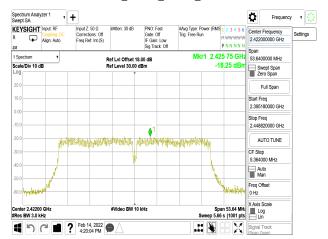
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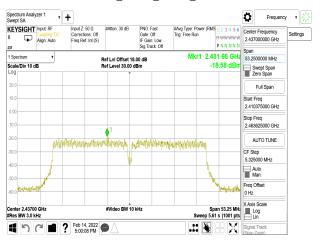


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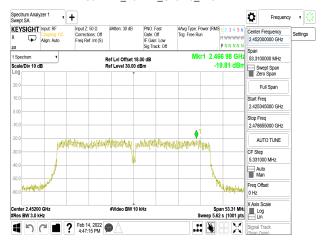
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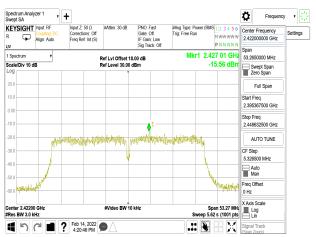
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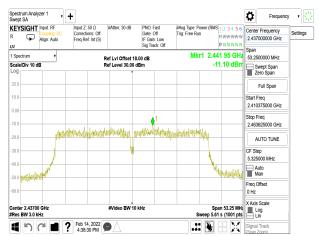
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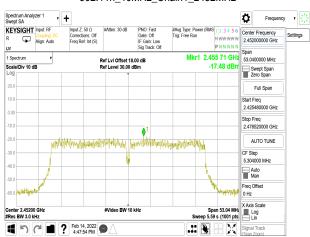
802.11n_40MHz_Chain1_2422MHz



802.11n_40MHz_Chain1_2437MHz



802.11n 40MHz Chain1 2452MHz



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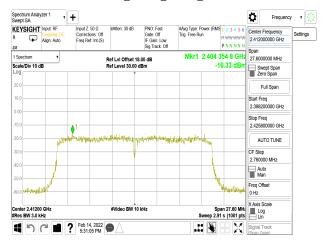
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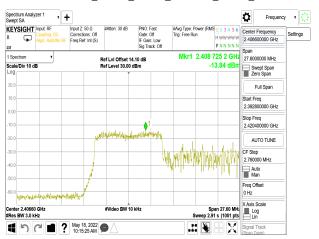


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802.11ax_20MHz_Chain0_2412MHz



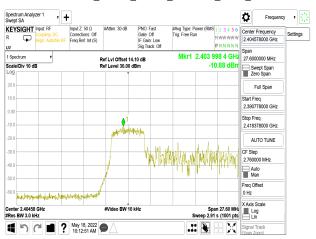
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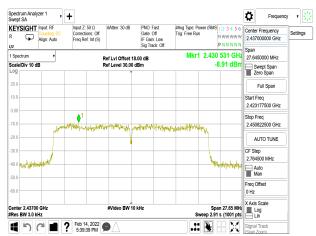
802.11ax 20MHz Chain0 2412MHz RU26 0



802.11ax_20MHz_Chain0_2412MHz_RU52_37



802.11ax_20MHz_Chain0_2437MHz



802.11ax 20MHz Chain0 2462MHz



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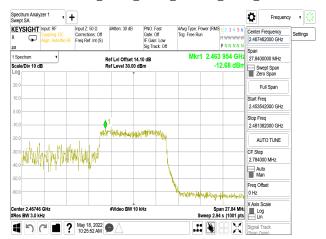
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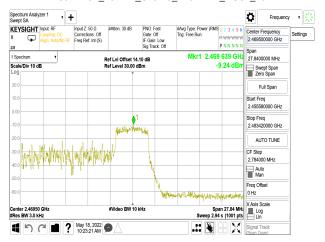
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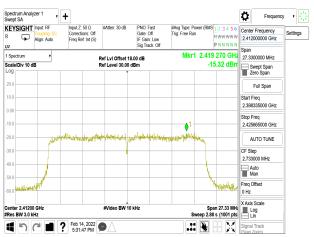
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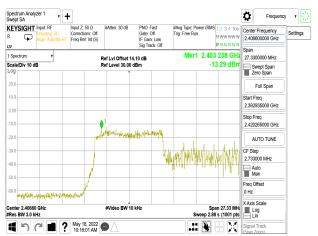
802.11ax 20MHz Chain0 2462MHz RU52 40



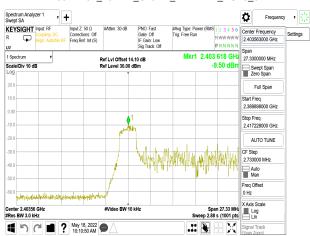
802.11ax_20MHz_Chain1_2412MHz



802.11ax_20MHz_Chain1_2412MHz_RU106_53



802.11ax 20MHz Chain1 2412MHz RU26 0



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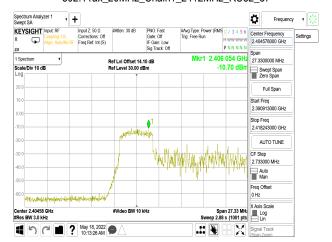
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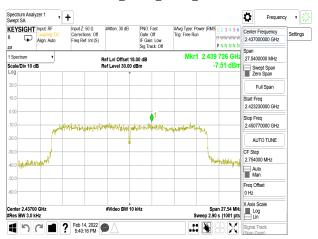


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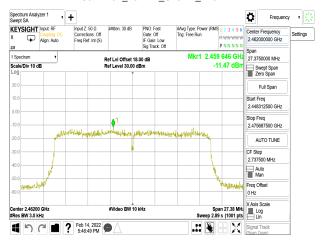
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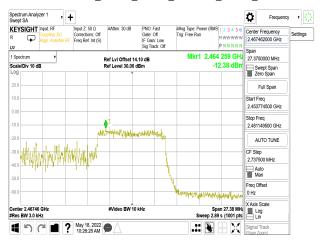
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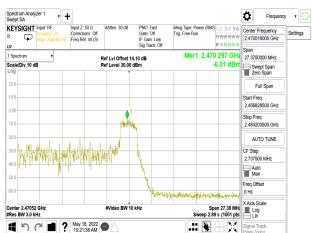
802.11ax_20MHz_Chain1_2462MHz



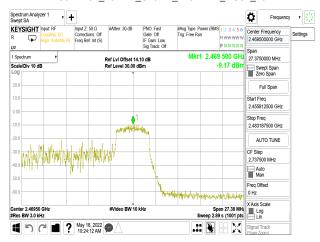
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802.11ax_20MHz_Chain1_2462MHz_RU26_8



802.11ax 20MHz Chain1 2462MHz RU52 40



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