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 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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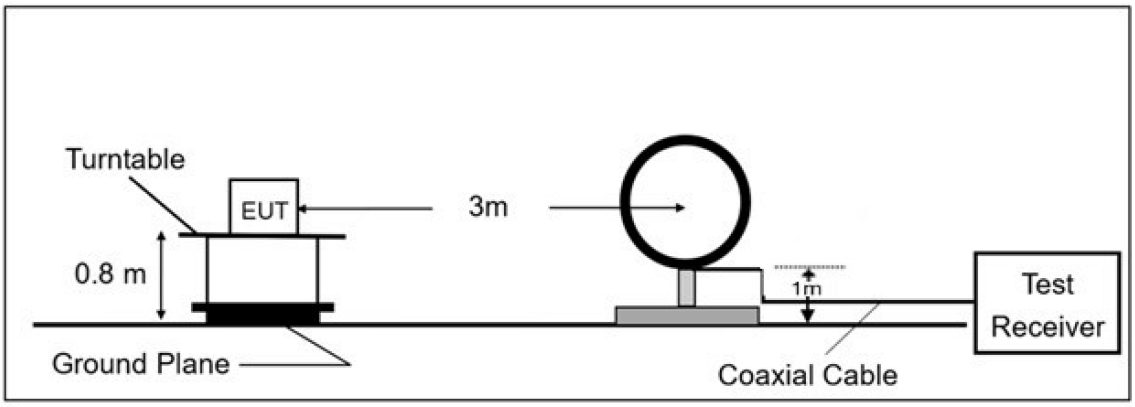
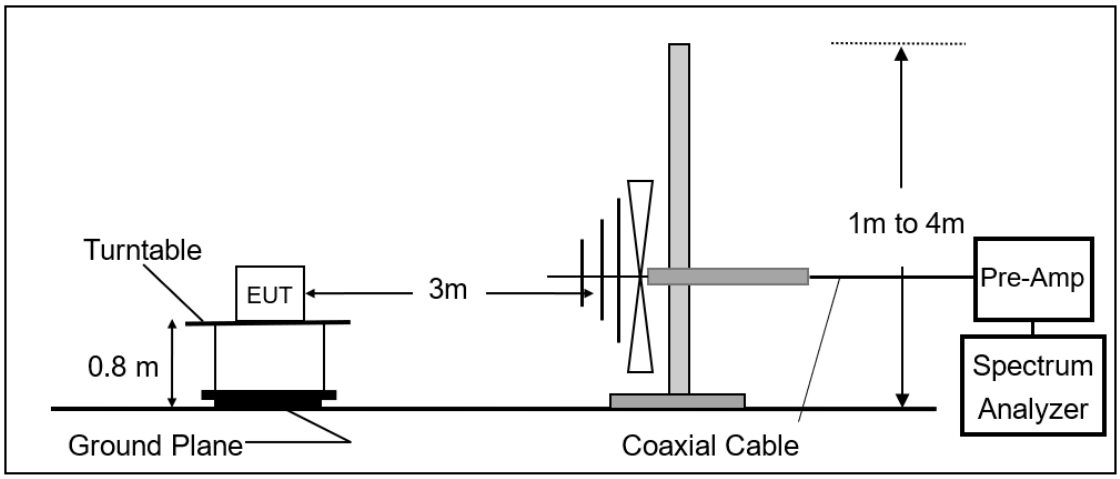
11.2 Test Setup

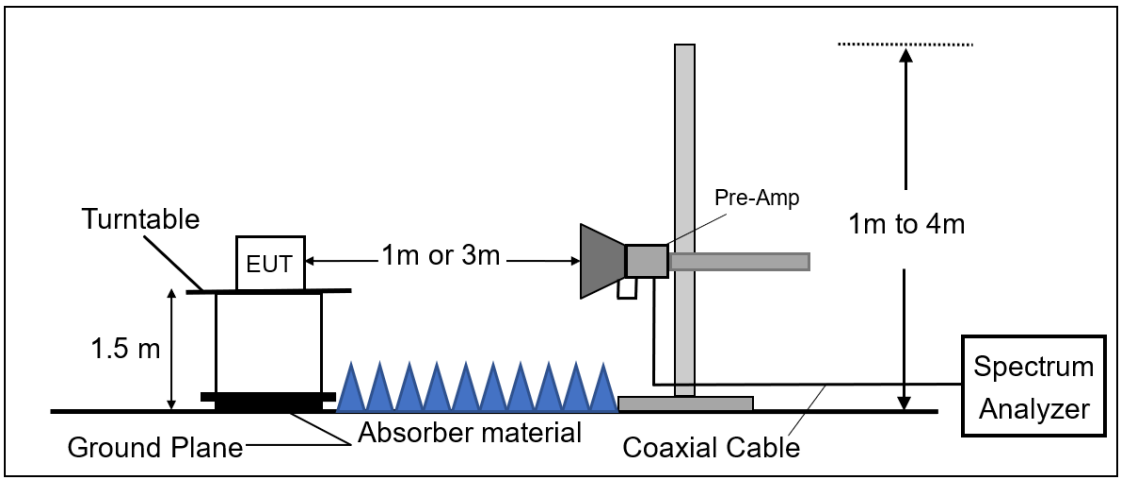
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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.

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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)*

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

Factor(dB) = Antenna Factor(dBµV/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) 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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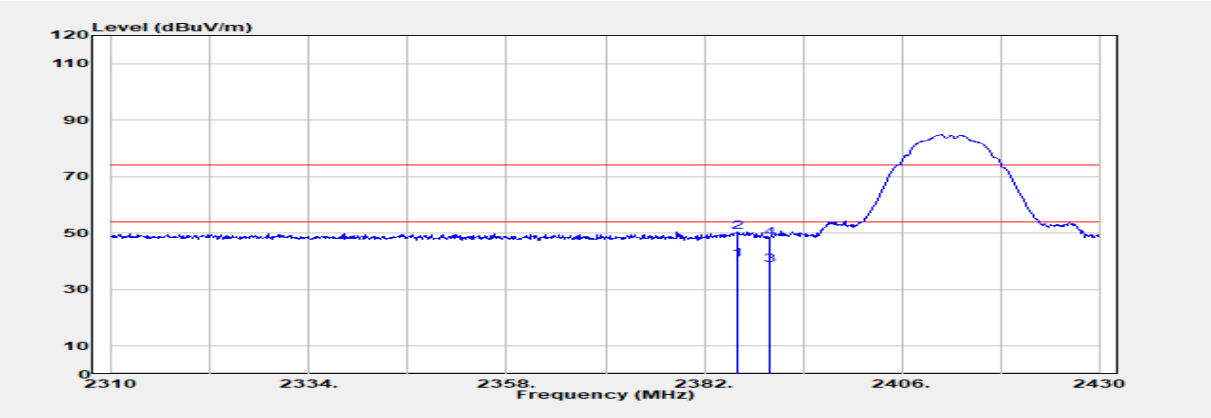
11.6.1 Radiated Band Edge Measurement Result

Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11b	Test Date	:2024-11-07
Test Frequency	:2412 MHz	Temp./Humi.	:21.4℃/58%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2386.080	Average	44.72	-4.22	40.50	54.00	-13.50
2386.080	Peak	54.59	-4.22	50.37	74.00	-23.63
2390.000	Average	43.00	-4.25	38.75	54.00	-15.25
2390.000	Peak	52.36	-4.25	48.12	74.00	-25.88

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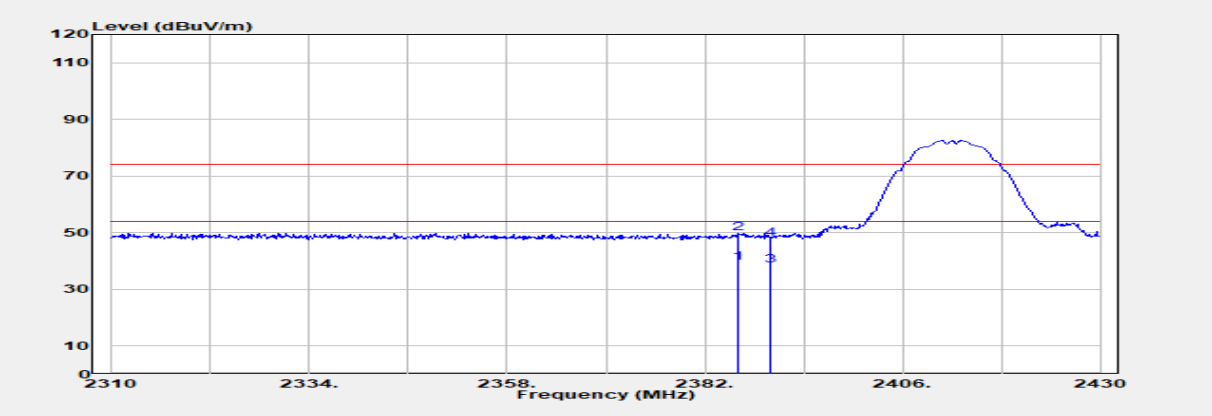
Operation Mode	:802.11b	Test Date	:2024-11-07
Test Frequency	:2412 MHz	Temp./Humi.	:21.4℃/58%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2386.080	Average	43.45	-4.22	39.24	54.00	-14.76
2386.080	Peak	54.08	-4.22	49.87	74.00	-24.13
2390.000	Average	42.77	-4.25	38.52	54.00	-15.48
2390.000	Peak	52.18	-4.25	47.93	74.00	-26.07

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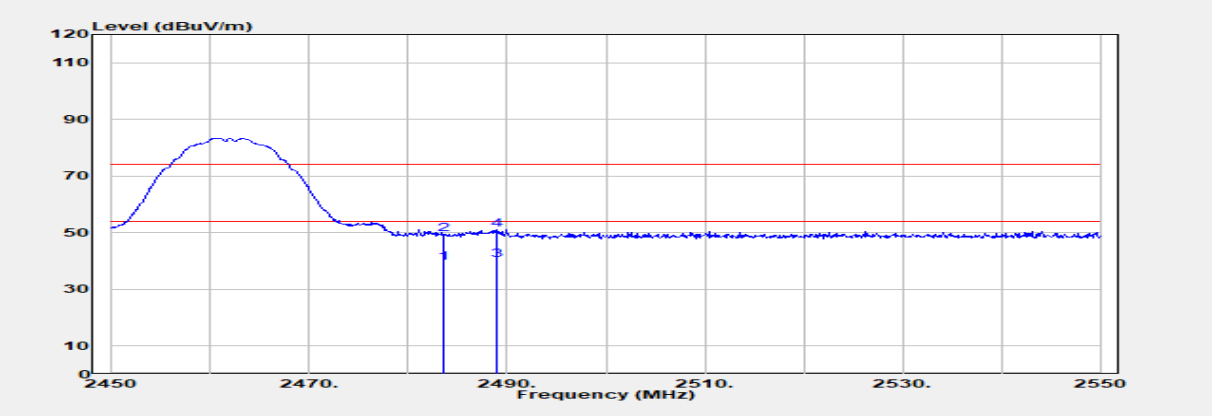
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11b	Test Date	:2024-11-07
Test Frequency	:2462 MHz	Temp./Humi.	:21.4℃/58%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	43.24	-3.82	39.42	54.00	-14.58
2483.500	Peak	53.40	-3.82	49.58	74.00	-24.42
2488.900	Average	44.01	-3.76	40.24	54.00	-13.76
2488.900	Peak	54.87	-3.76	51.10	74.00	-22.90

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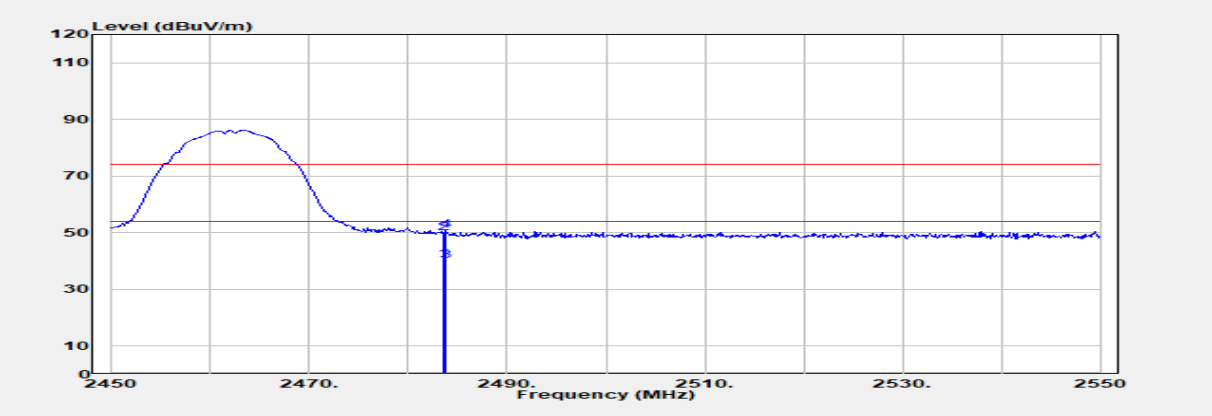
Operation Mode	:802.11b	Test Date	:2024-11-07
Test Frequency	:2462 MHz	Temp./Humi.	:21.4℃/58%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	44.03	-3.82	40.21	54.00	-13.79
2483.500	Peak	53.49	-3.82	49.67	74.00	-24.33
2483.700	Average	43.86	-3.82	40.04	54.00	-13.96
2483.700	Peak	54.52	-3.82	50.70	74.00	-23.30

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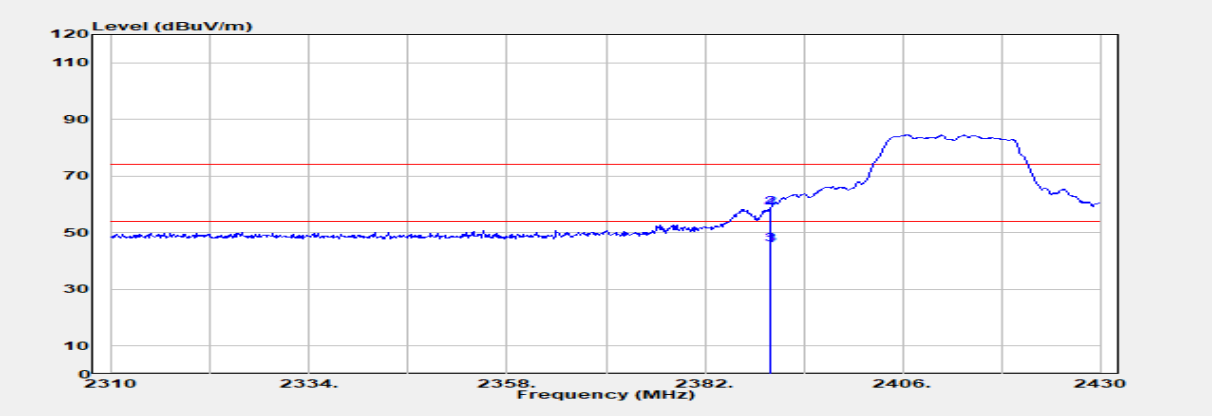
Operation Mode	:802.11g	Test Date	:2024-11-07
Test Frequency	:2412 MHz	Temp./Humi.	:21.4℃/58%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.920	Average	49.75	-4.25	45.50	54.00	-8.50
2389.920	Peak	62.96	-4.25	58.72	74.00	-15.28
2390.000	Average	49.96	-4.25	45.71	54.00	-8.29
2390.000	Peak	62.89	-4.25	58.64	74.00	-15.36

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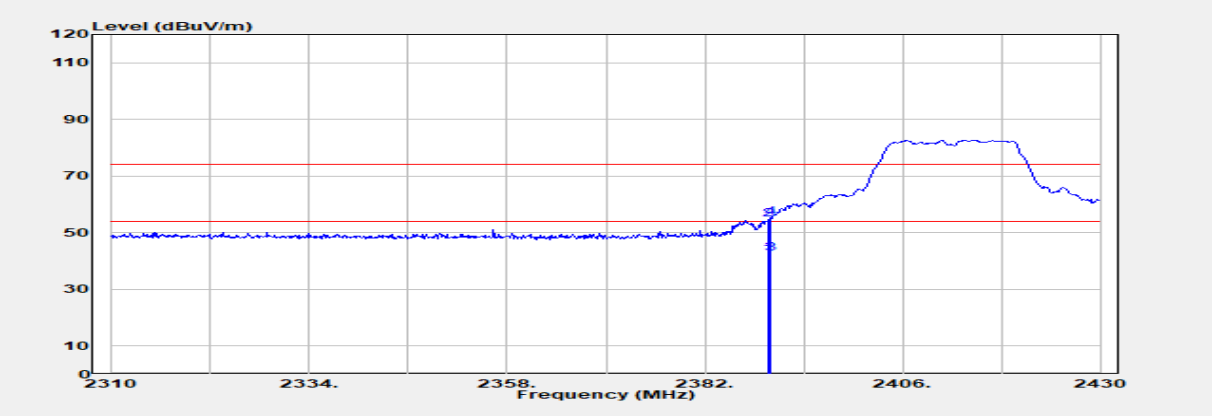
Test Frequency	:2412 MHz	Temp./Humi.	:21.4℃/58%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.800	Average	46.37	-4.25	42.12	54.00	-11.88
2389.800	Peak	58.83	-4.25	54.58	74.00	-19.42
2390.000	Average	47.01	-4.25	42.76	54.00	-11.24
2390.000	Peak	59.42	-4.25	55.17	74.00	-18.83

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Test Frequency	:2462 MHz	Temp./Humi.	:21.4℃/58%
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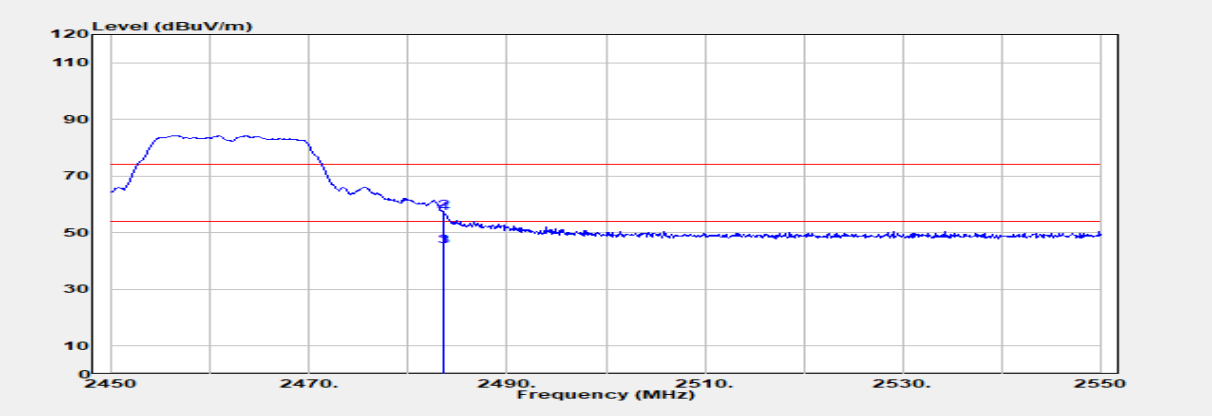
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	49.02	-3.82	45.20	54.00	-8.80
2483.500	Peak	61.49	-3.82	57.67	74.00	-16.33
2483.600	Average	48.95	-3.82	45.13	54.00	-8.87
2483.600	Peak	60.78	-3.82	56.96	74.00	-17.04

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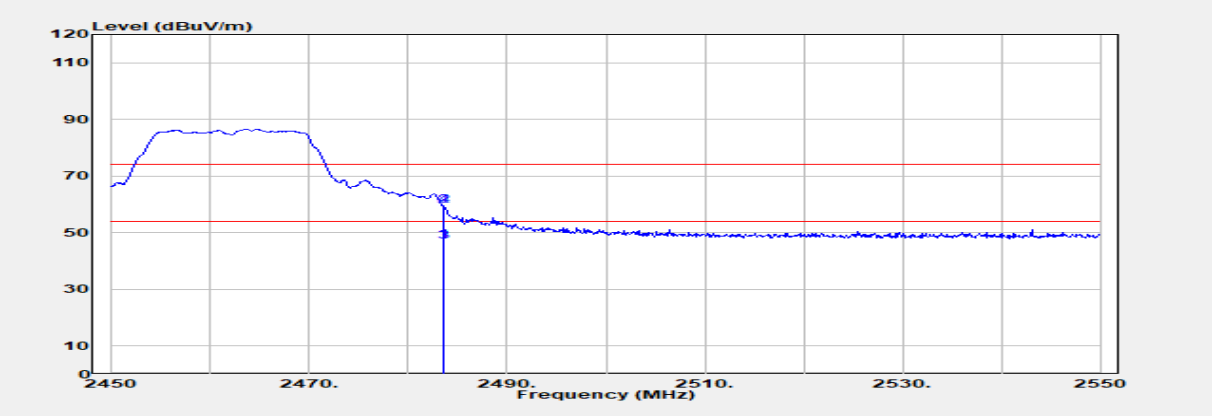
Test Frequency	:2462 MHz	Temp./Humi.	:21.4℃/58%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	50.85	-3.82	47.03	54.00	-6.97
2483.500	Peak	63.48	-3.82	59.66	74.00	-14.34
2483.600	Average	50.74	-3.82	46.92	54.00	-7.08
2483.600	Peak	63.17	-3.82	59.35	74.00	-14.65

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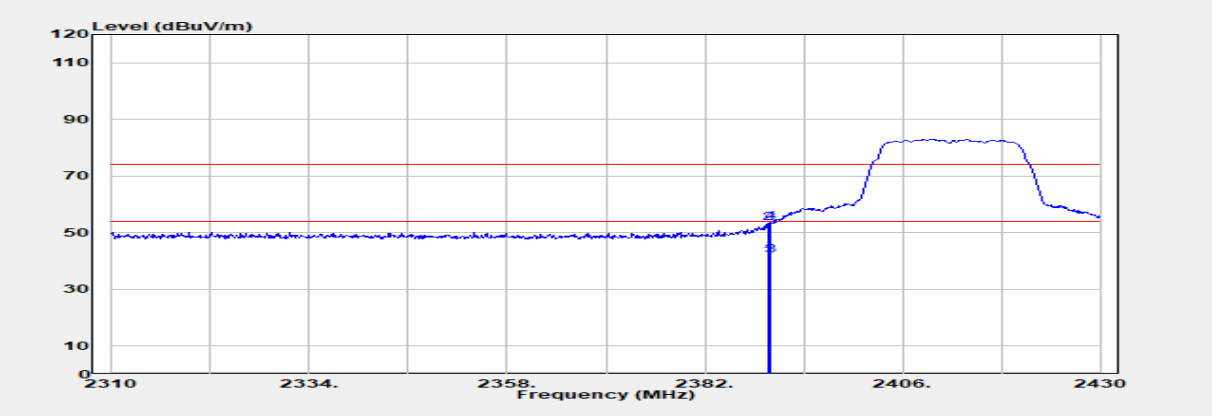
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-11-07
Test Frequency	:2412 MHz	Temp./Humi.	:21.4℃/58%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.680	Average	45.92	-4.25	41.67	54.00	-12.33
2389.680	Peak	57.62	-4.25	53.37	74.00	-20.63
2390.000	Average	46.20	-4.25	41.96	54.00	-12.04
2390.000	Peak	57.84	-4.25	53.59	74.00	-20.41

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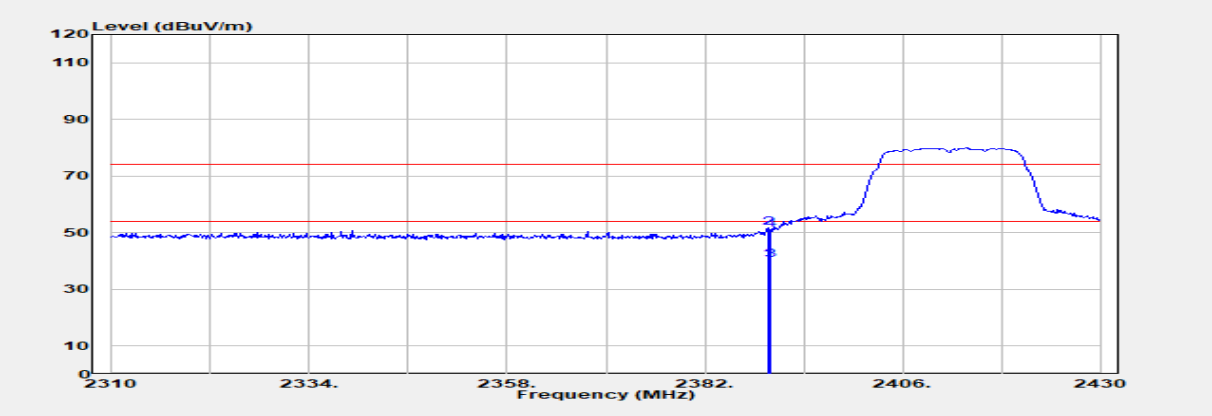
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-11-07
Test Frequency	:2412 MHz	Temp./Humi.	:21.4℃/58%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.680	Average	44.52	-4.25	40.27	54.00	-13.73
2389.680	Peak	55.97	-4.25	51.73	74.00	-22.27
2390.000	Average	44.51	-4.25	40.26	54.00	-13.74
2390.000	Peak	55.26	-4.25	51.01	74.00	-22.99

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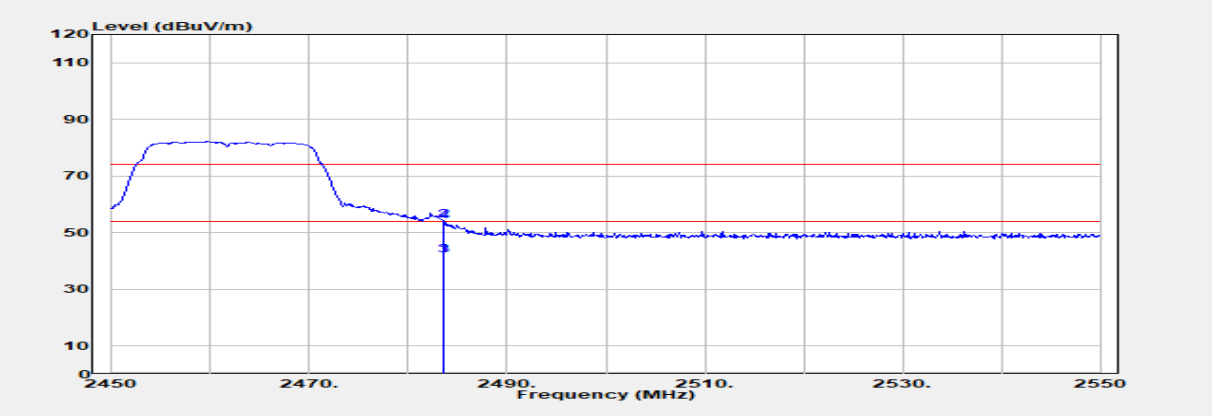
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-11-07
Test Frequency	:2462 MHz	Temp./Humi.	:21.4℃/58%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	45.78	-3.82	41.96	54.00	-12.04
2483.500	Peak	58.15	-3.82	54.33	74.00	-19.67
2483.600	Average	45.67	-3.82	41.85	54.00	-12.15
2483.600	Peak	57.70	-3.82	53.88	74.00	-20.12

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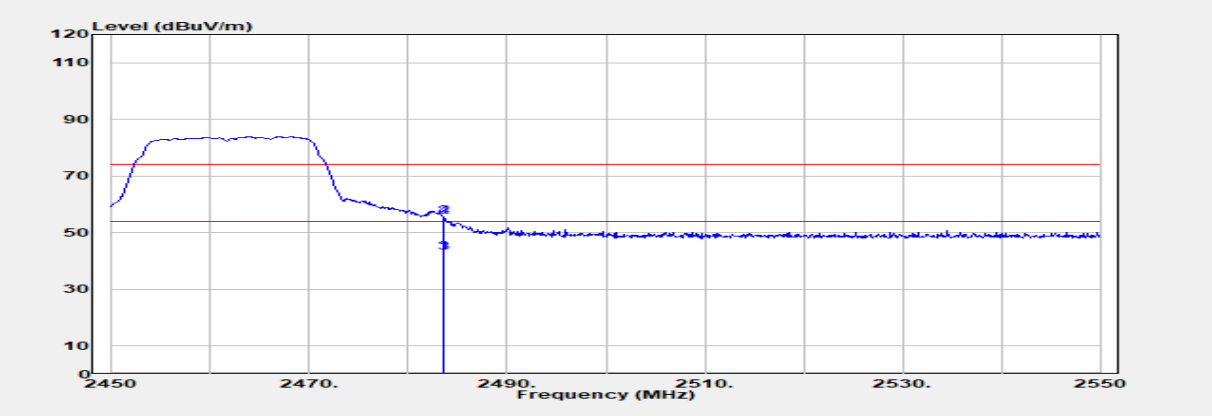
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-11-07
Test Frequency	:2462 MHz	Temp./Humi.	:21.4℃/58%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	46.89	-3.82	43.07	54.00	-10.93
2483.500	Peak	59.44	-3.82	55.62	74.00	-18.38
2483.600	Average	46.59	-3.82	42.77	54.00	-11.23
2483.600	Peak	59.41	-3.82	55.59	74.00	-18.41

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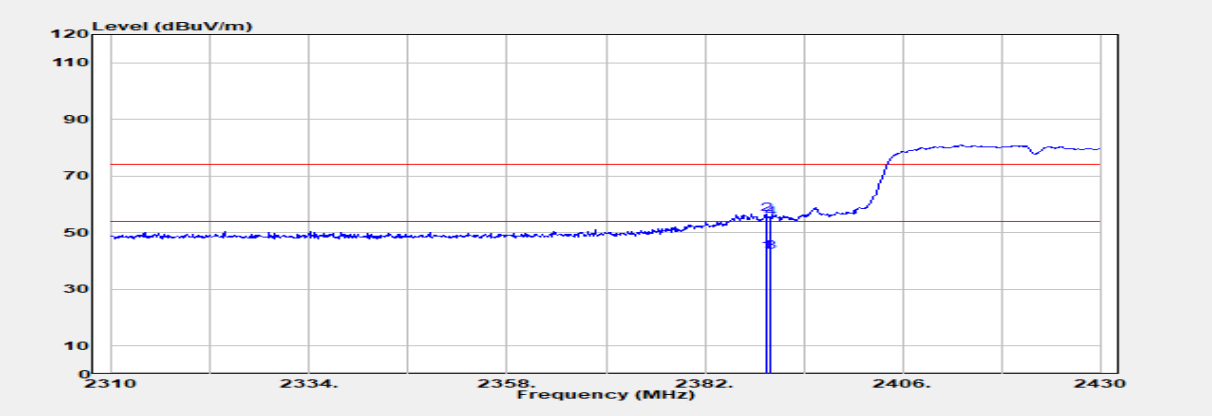
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-11-07
Test Frequency	:2422 MHz	Temp./Humi.	:21.4℃/58%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.440	Average	47.54	-4.24	43.29	54.00	-10.71
2389.440	Peak	60.81	-4.24	56.56	74.00	-17.44
2390.000	Average	47.56	-4.25	43.31	54.00	-10.69
2390.000	Peak	59.40	-4.25	55.15	74.00	-18.85

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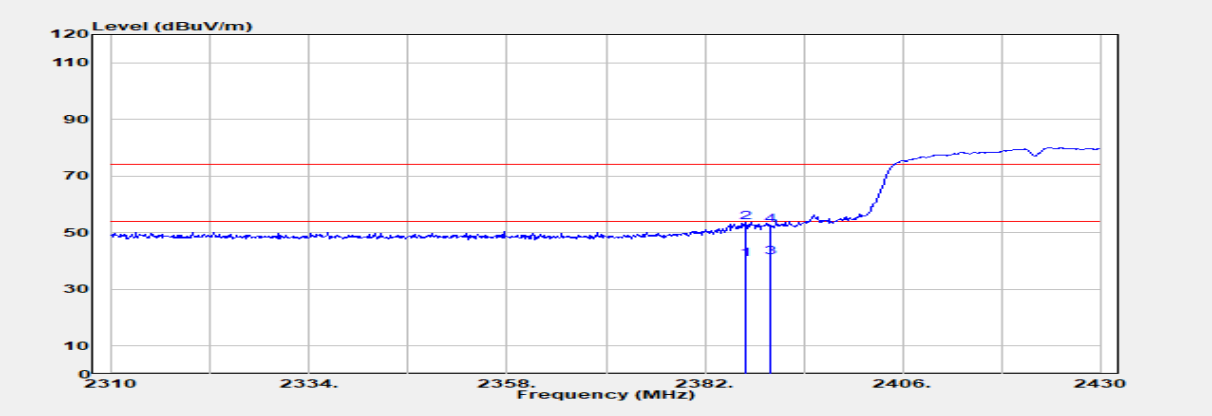
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-11-07
Test Frequency	:2422 MHz	Temp./Humi.	:21.4℃/58%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2386.920	Average	44.88	-4.22	40.66	54.00	-13.34
2386.920	Peak	57.82	-4.22	53.60	74.00	-20.40
2390.000	Average	45.49	-4.25	41.24	54.00	-12.76
2390.000	Peak	56.96	-4.25	52.71	74.00	-21.29

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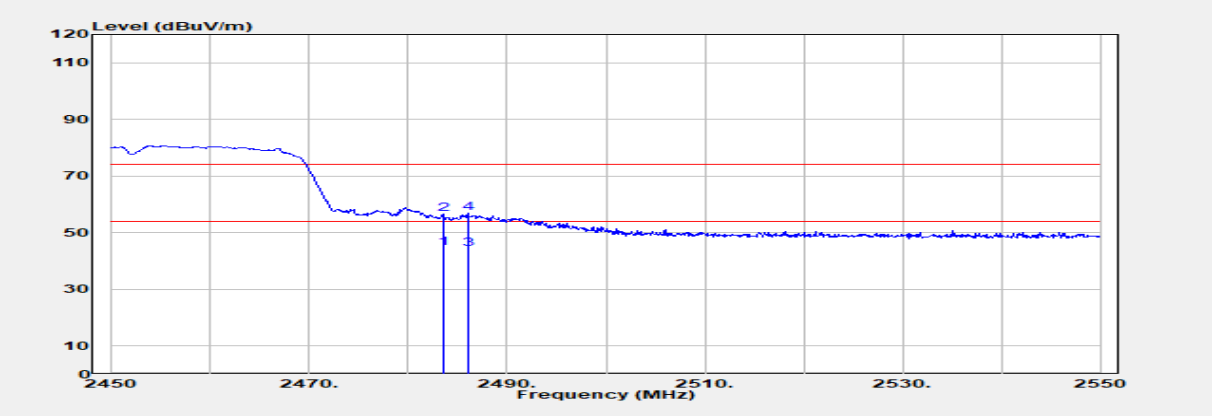
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-11-07
Test Frequency	:2452 MHz	Temp./Humi.	:21.4℃/58%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	48.42	-3.82	44.60	54.00	-9.40
2483.500	Peak	60.30	-3.82	56.48	74.00	-17.52
2486.000	Average	48.18	-3.79	44.38	54.00	-9.62
2486.000	Peak	60.57	-3.79	56.77	74.00	-17.23

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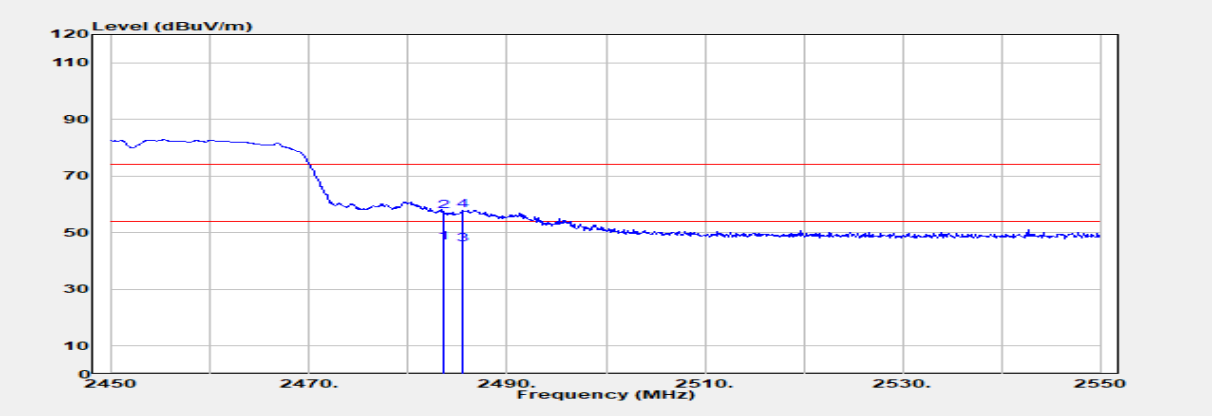
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-11-07
Test Frequency	:2452 MHz	Temp./Humi.	:21.4℃/58%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	50.20	-3.82	46.38	54.00	-7.62
2483.500	Peak	61.29	-3.82	57.47	74.00	-16.53
2485.500	Average	49.62	-3.80	45.83	54.00	-8.17
2485.500	Peak	61.81	-3.80	58.01	74.00	-15.99

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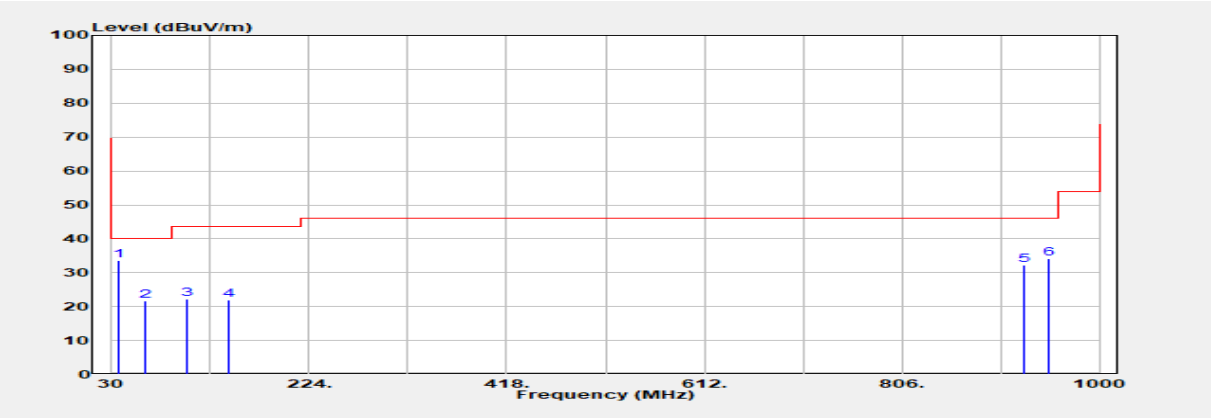
11.6.2 Spurious Emission:

Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11g	Test Date	:2024-11-08
Test Frequency	:2437 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.790	QP	46.40	-12.68	33.72	40.00	-6.28
62.010	Peak	34.39	-12.66	21.73	40.00	-18.27
103.720	Peak	37.71	-15.59	22.13	43.50	-21.37
144.460	Peak	33.73	-11.90	21.83	43.50	-21.67
926.280	Peak	30.28	2.05	32.33	46.00	-13.67
949.560	Peak	32.18	1.97	34.15	46.00	-11.85

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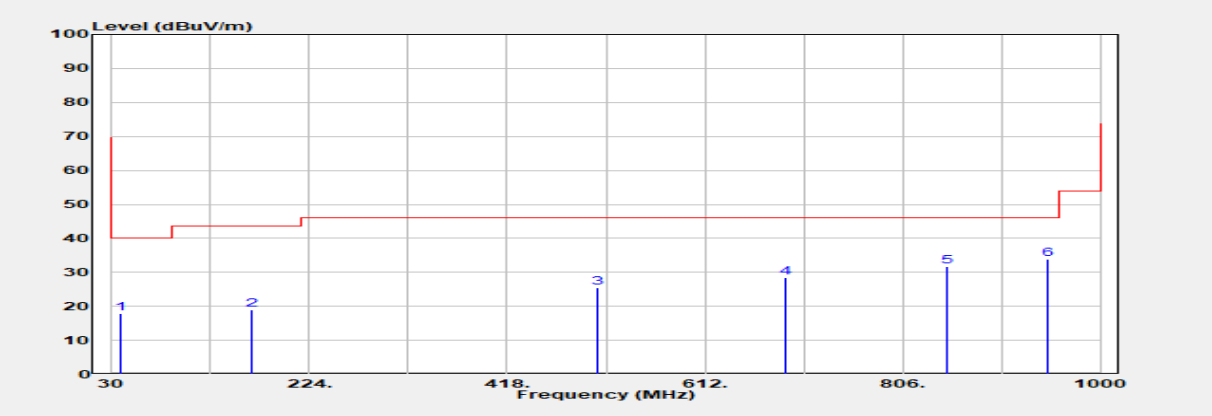
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11g	Test Date	:2024-11-08
Test Frequency	:2437 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
37.760	QP	30.20	-12.44	17.76	40.00	-22.24
167.740	Peak	30.67	-11.80	18.87	43.50	-24.63
506.270	Peak	30.43	-5.08	25.35	46.00	-20.65
690.570	Peak	30.26	-1.93	28.33	46.00	-17.67
849.650	Peak	30.66	1.01	31.67	46.00	-14.33
948.590	Peak	31.96	1.97	33.93	46.00	-12.07

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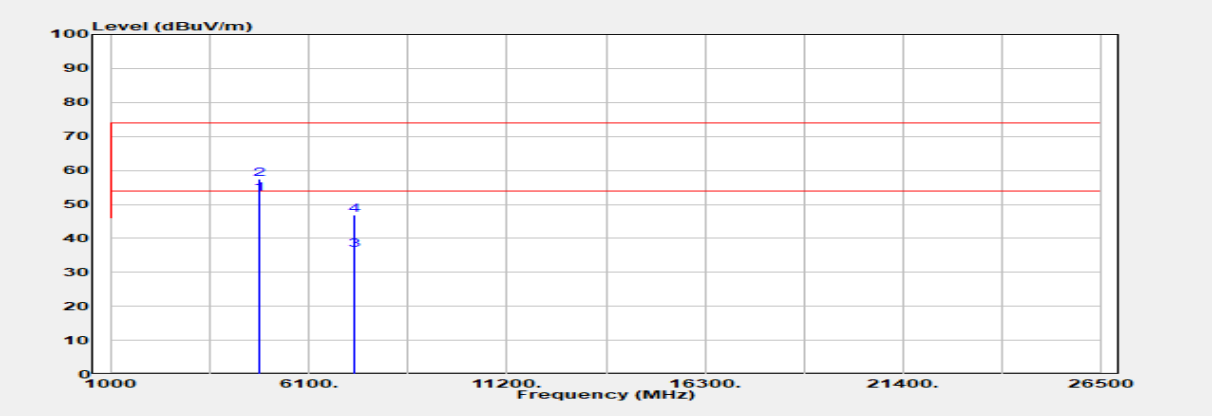
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11b	Test Date	:2024-11-07
Test Frequency	:2412 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Average	52.55	0.60	53.15	54.00	-0.85
4824.000	Peak	56.94	0.60	57.53	74.00	-16.47
7236.000	Average	29.86	6.76	36.63	54.00	-17.37
7236.000	Peak	40.26	6.76	47.02	74.00	-26.98

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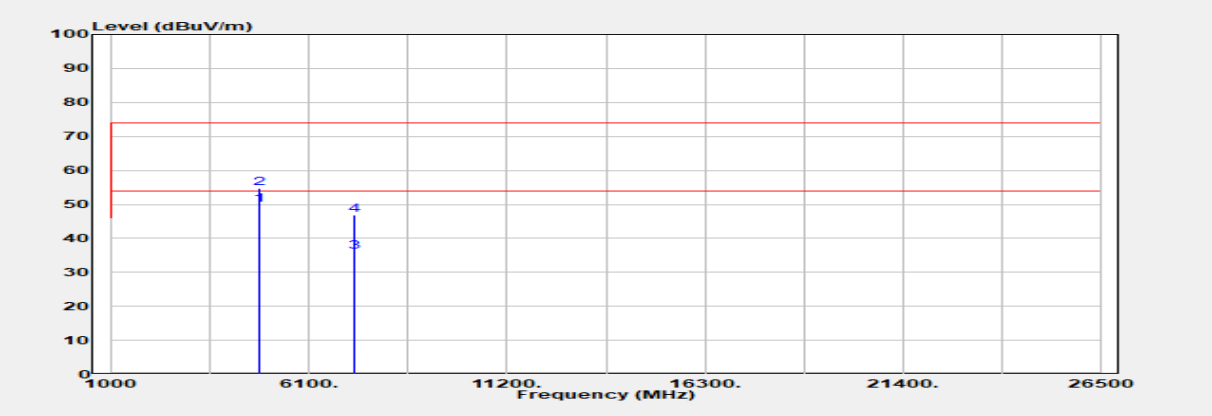
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11b	Test Date	:2024-11-07
Test Frequency	:2412 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Average	49.32	0.60	49.92	54.00	-4.08
4824.000	Peak	54.04	0.60	54.64	74.00	-19.36
7236.000	Average	29.37	6.76	36.13	54.00	-17.87
7236.000	Peak	40.09	6.76	46.85	74.00	-27.15

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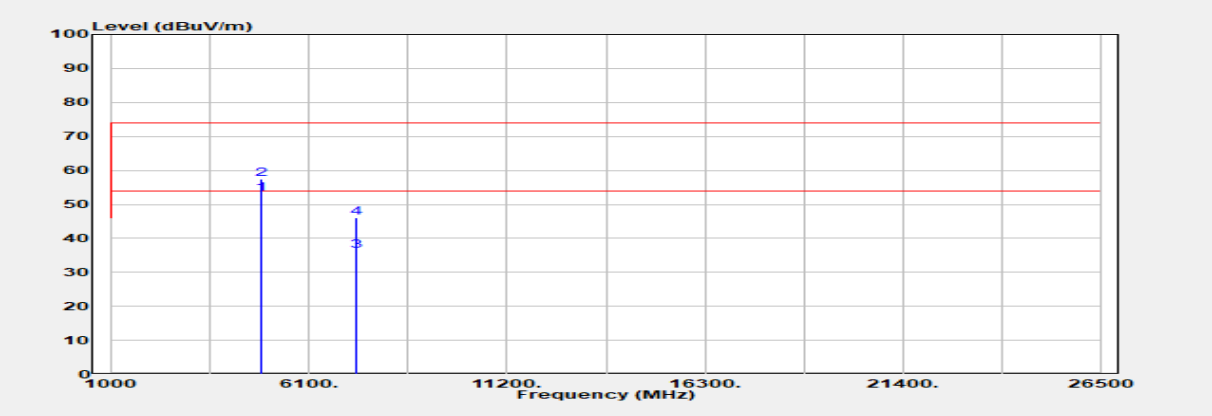
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11b	Test Date	:2024-11-08
Test Frequency	:2437 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	52.58	0.44	53.02	54.00	-0.98
4874.000	Peak	56.88	0.44	57.32	74.00	-16.68
7311.000	Average	29.93	6.49	36.42	54.00	-17.58
7311.000	Peak	39.61	6.49	46.10	74.00	-27.90

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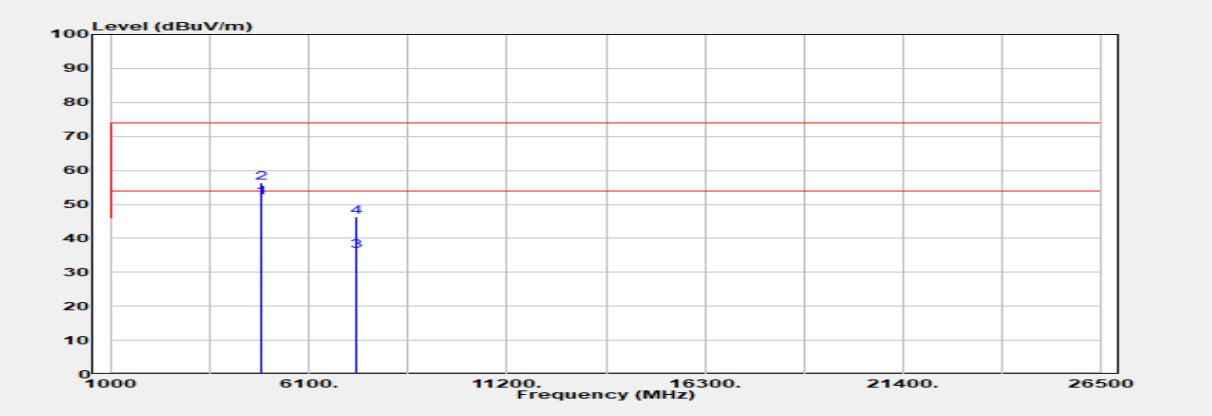
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11b	Test Date	:2024-11-08
Test Frequency	:2437 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	51.52	0.44	51.96	54.00	-2.04
4874.000	Peak	56.05	0.44	56.49	74.00	-17.51
7311.000	Average	29.75	6.49	36.24	54.00	-17.76
7311.000	Peak	39.84	6.49	46.33	74.00	-27.67

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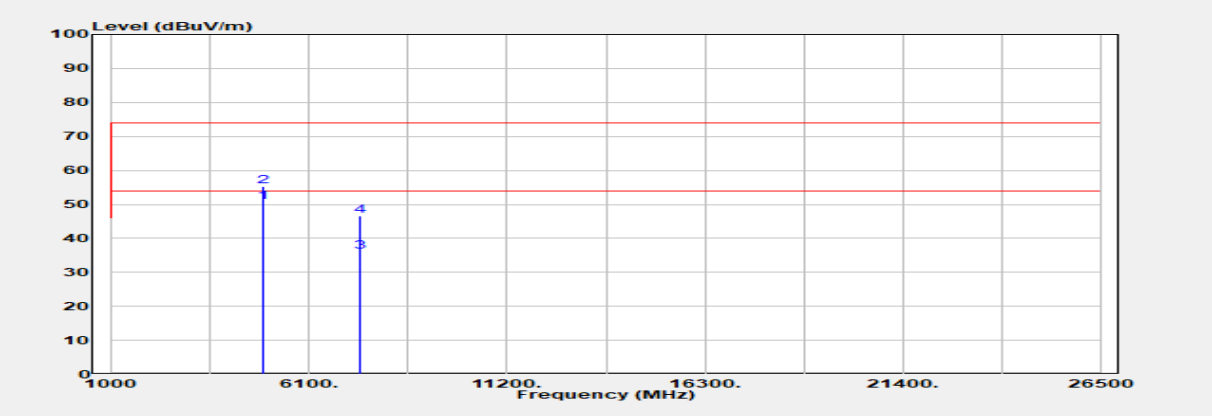
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11b	Test Date	:2024-11-07
Test Frequency	:2462 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.000	Average	50.28	0.49	50.77	54.00	-3.23
4924.000	Peak	54.89	0.49	55.38	74.00	-18.62
7386.000	Average	29.89	6.20	36.09	54.00	-17.92
7386.000	Peak	40.46	6.20	46.66	74.00	-27.34

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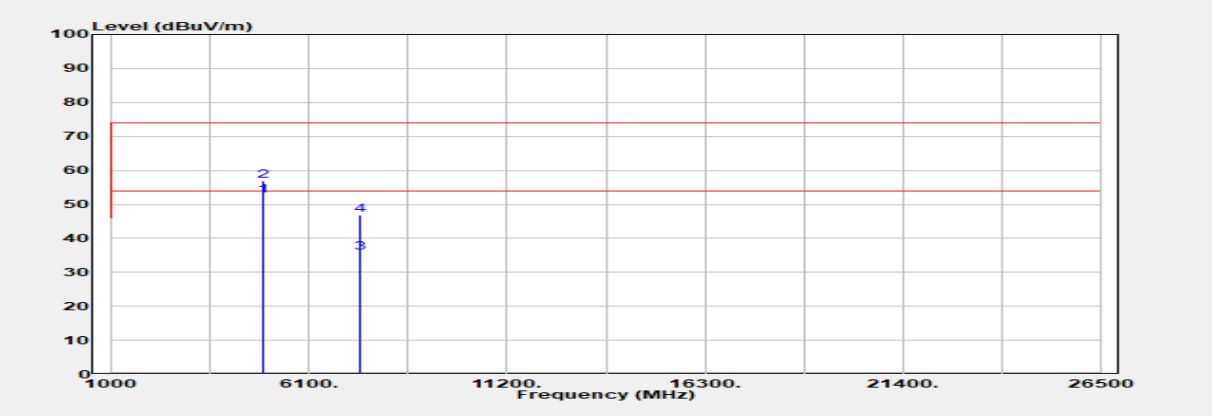
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11b	Test Date	:2024-11-07
Test Frequency	:2462 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.000	Average	52.14	0.49	52.63	54.00	-1.37
4924.000	Peak	56.38	0.49	56.87	74.00	-17.13
7386.000	Average	29.49	6.20	35.69	54.00	-18.31
7386.000	Peak	40.75	6.20	46.95	74.00	-27.05

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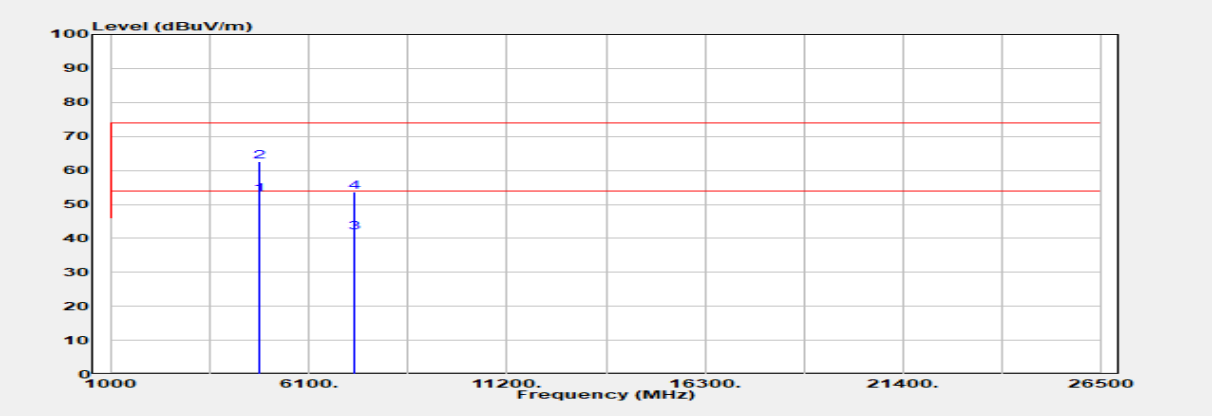
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11g	Test Date	:2024-11-07
Test Frequency	:2412 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Average	52.31	0.60	52.90	54.00	-1.10
4824.000	Peak	62.14	0.60	62.74	74.00	-11.26
7236.000	Average	35.00	6.76	41.76	54.00	-12.24
7236.000	Peak	47.00	6.76	53.76	74.00	-20.24

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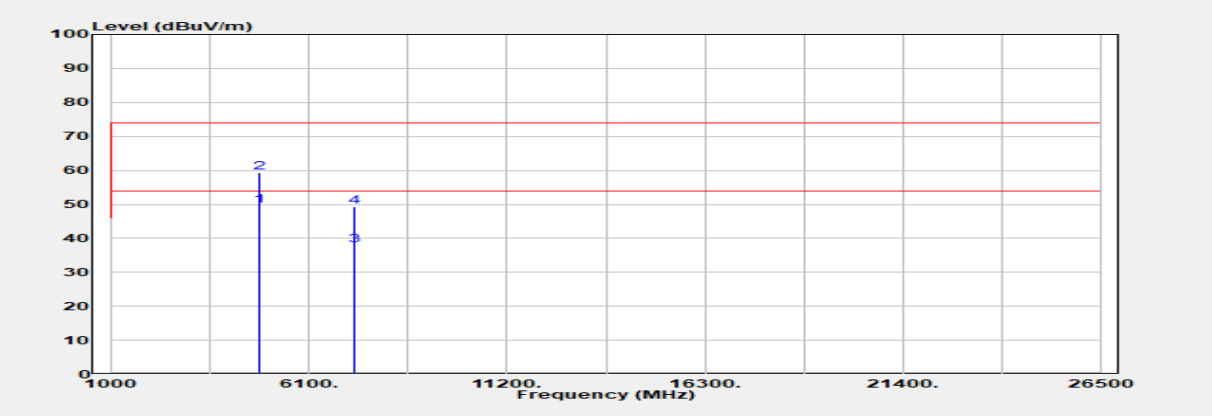
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11g	Test Date	:2024-11-07
Test Frequency	:2412 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Average	48.87	0.60	49.46	54.00	-4.54
4824.000	Peak	58.87	0.60	59.46	74.00	-14.54
7236.000	Average	31.23	6.76	37.99	54.00	-16.01
7236.000	Peak	42.61	6.76	49.38	74.00	-24.62

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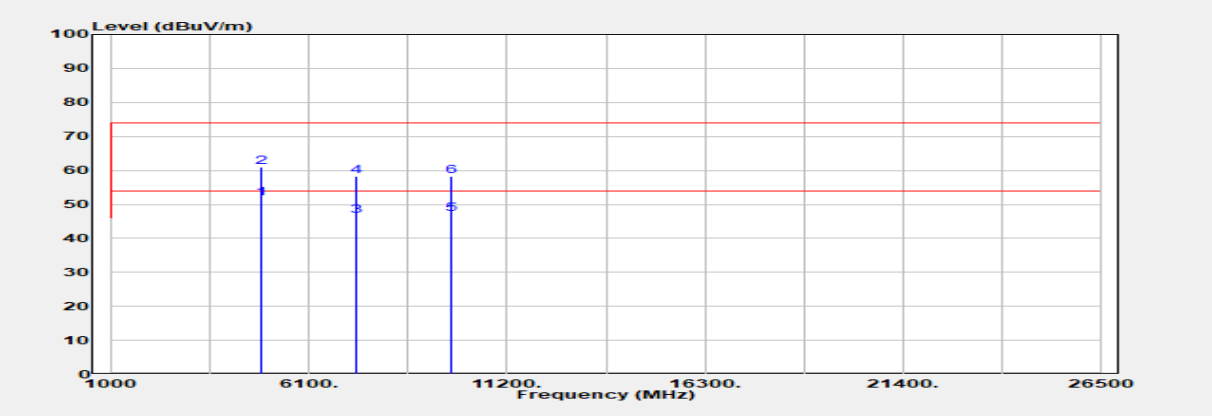
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11g	Test Date	:2024-11-07
Test Frequency	:2437 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	51.32	0.44	51.76	54.00	-2.24
4874.000	Peak	60.64	0.44	61.08	74.00	-12.92
7311.000	Average	40.20	6.49	46.69	54.00	-7.31
7311.000	Peak	51.68	6.49	58.17	74.00	-15.83
9748.000	Average	38.37	8.68	47.05	54.00	-6.95
9748.000	Peak	49.47	8.68	58.15	74.00	-15.85

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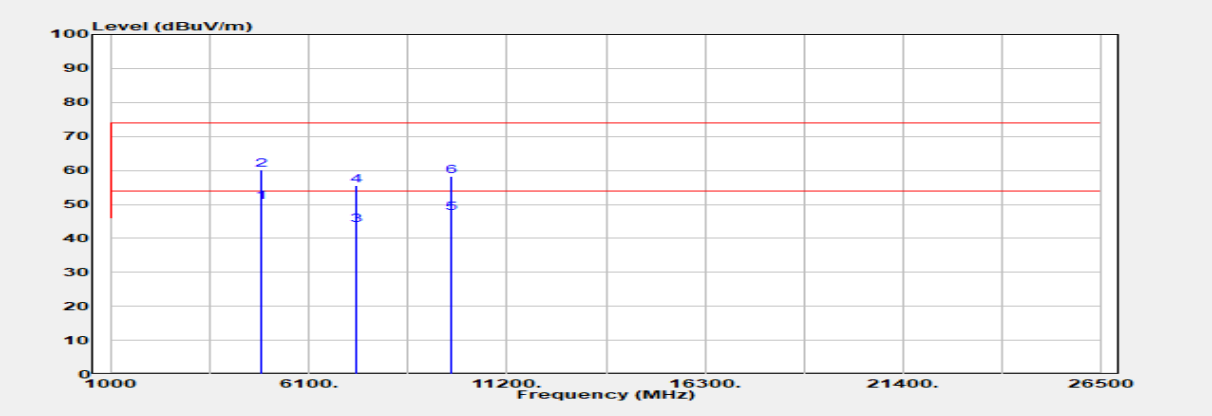
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11g	Test Date	:2024-11-07
Test Frequency	:2437 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	50.35	0.44	50.79	54.00	-3.21
4874.000	Peak	59.85	0.44	60.29	74.00	-13.71
7311.000	Average	37.54	6.49	44.03	54.00	-9.97
7311.000	Peak	49.04	6.49	55.53	74.00	-18.47
9748.000	Average	38.69	8.68	47.37	54.00	-6.63
9748.000	Peak	49.54	8.68	58.22	74.00	-15.78

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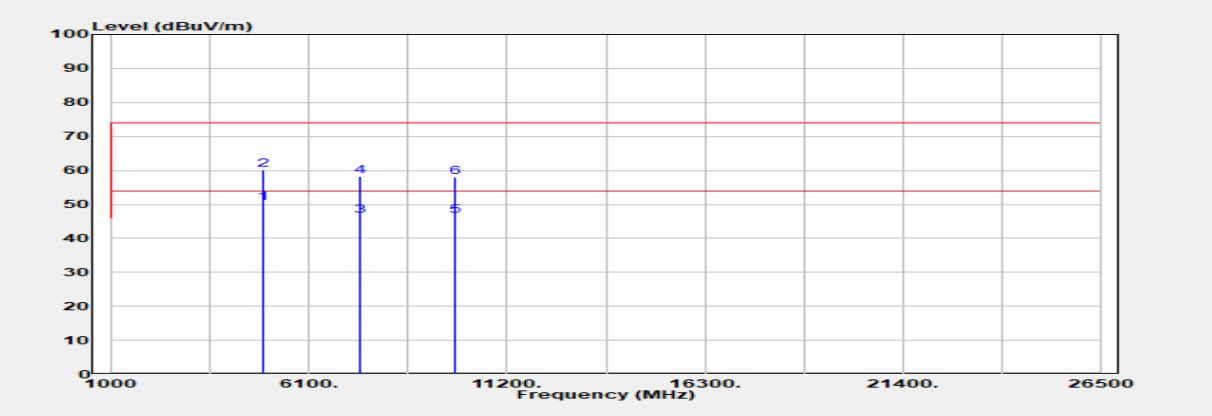
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11g	Test Date	:2024-11-07
Test Frequency	:2462 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.000	Average	49.92	0.49	50.41	54.00	-3.59
4924.000	Peak	59.61	0.49	60.10	74.00	-13.90
7386.000	Average	40.41	6.20	46.61	54.00	-7.39
7386.000	Peak	52.17	6.20	58.37	74.00	-15.63
9848.000	Average	38.28	8.40	46.68	54.00	-7.32
9848.000	Peak	49.64	8.40	58.04	74.00	-15.96

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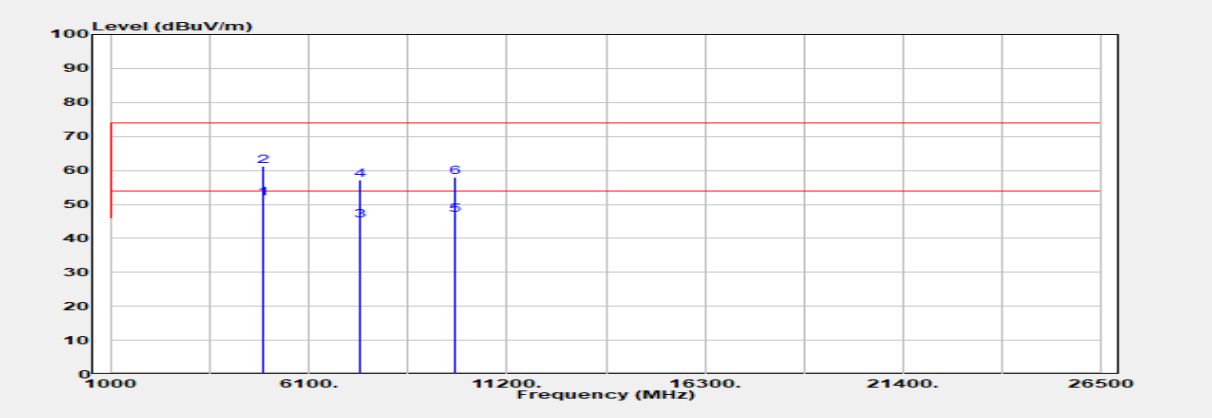
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11g	Test Date	:2024-11-07
Test Frequency	:2462 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.000	Average	51.33	0.49	51.82	54.00	-2.18
4924.000	Peak	60.82	0.49	61.31	74.00	-12.69
7386.000	Average	39.16	6.20	45.36	54.00	-8.64
7386.000	Peak	50.88	6.20	57.08	74.00	-16.92
9848.000	Average	38.40	8.40	46.80	54.00	-7.20
9848.000	Peak	49.49	8.40	57.90	74.00	-16.10

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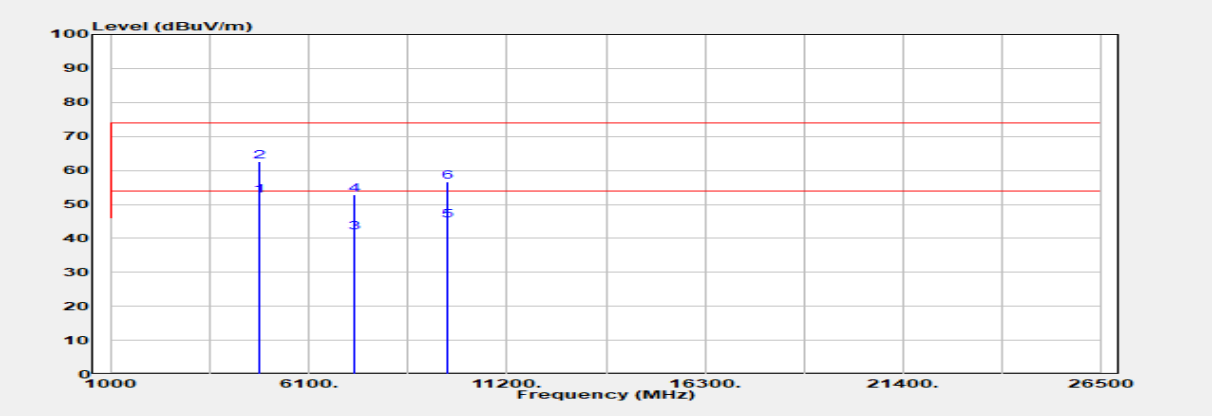
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-11-07
Test Frequency	:2412 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Average	51.93	0.60	52.52	54.00	-1.48
4824.000	Peak	62.03	0.60	62.63	74.00	-11.37
7236.000	Average	34.90	6.76	41.66	54.00	-12.34
7236.000	Peak	46.03	6.76	52.79	74.00	-21.21
9648.000	Average	36.72	8.43	45.15	54.00	-8.85
9648.000	Peak	48.09	8.43	56.52	74.00	-17.48

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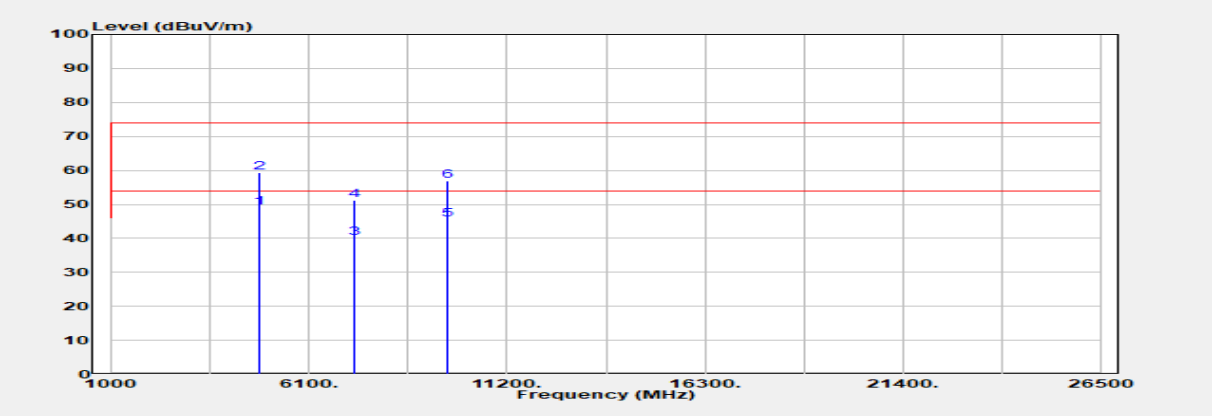
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-11-07
Test Frequency	:2412 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Average	48.44	0.60	49.04	54.00	-4.96
4824.000	Peak	58.65	0.60	59.25	74.00	-14.75
7236.000	Average	33.36	6.76	40.12	54.00	-13.88
7236.000	Peak	44.35	6.76	51.11	74.00	-22.89
9648.000	Average	37.03	8.43	45.46	54.00	-8.54
9648.000	Peak	48.49	8.43	56.92	74.00	-17.08

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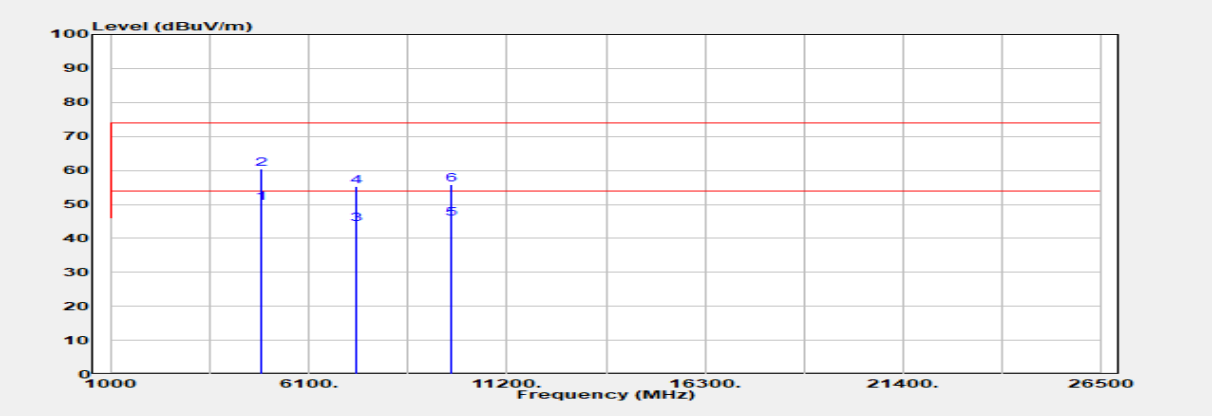
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-11-07
Test Frequency	:2437 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	49.92	0.44	50.36	54.00	-3.64
4874.000	Peak	60.06	0.44	60.50	74.00	-13.50
7311.000	Average	37.59	6.49	44.07	54.00	-9.93
7311.000	Peak	48.74	6.49	55.23	74.00	-18.77
9748.000	Average	37.15	8.68	45.83	54.00	-8.17
9748.000	Peak	47.24	8.68	55.92	74.00	-18.08

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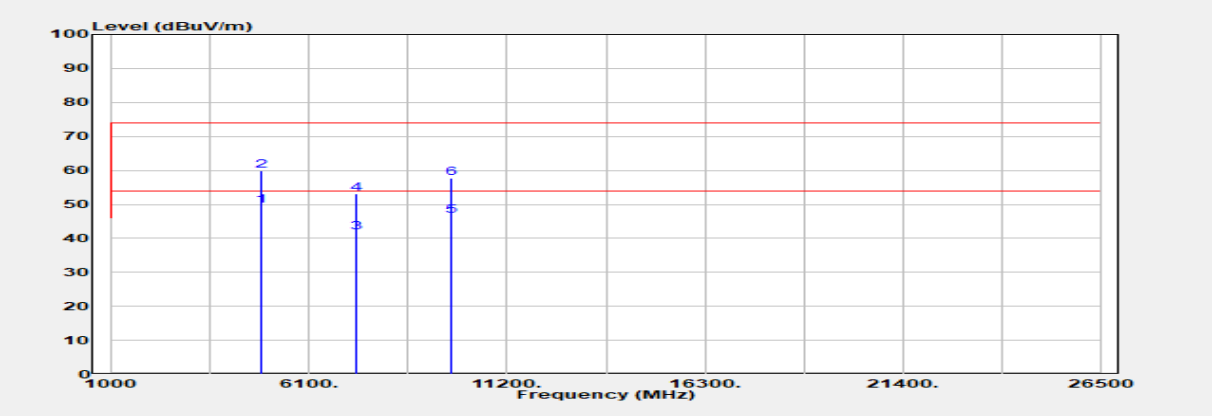
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-11-07
Test Frequency	:2437 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	49.21	0.44	49.65	54.00	-4.35
4874.000	Peak	59.45	0.44	59.90	74.00	-14.10
7311.000	Average	35.16	6.49	41.64	54.00	-12.36
7311.000	Peak	46.58	6.49	53.07	74.00	-20.93
9748.000	Average	37.86	8.68	46.54	54.00	-7.46
9748.000	Peak	49.06	8.68	57.74	74.00	-16.26

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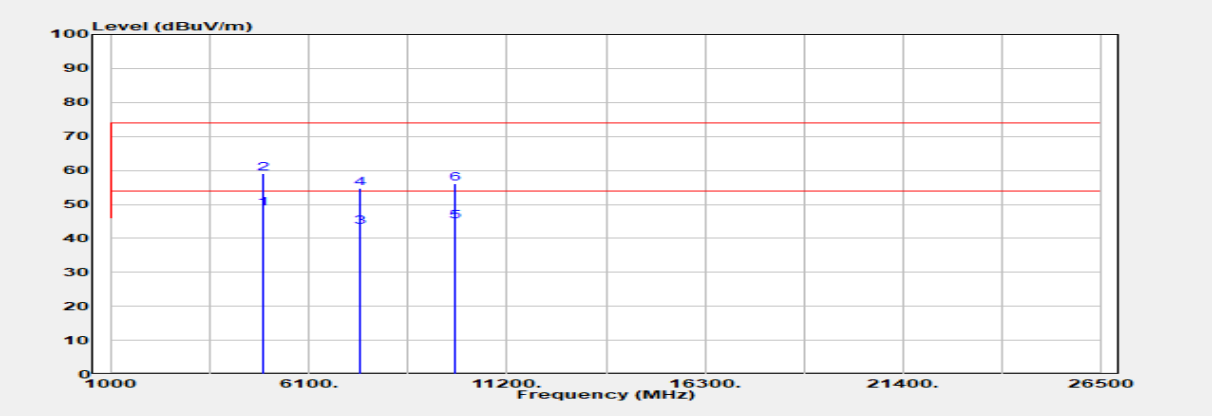
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-11-07
Test Frequency	:2462 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.000	Average	48.20	0.49	48.69	54.00	-5.31
4924.000	Peak	58.58	0.49	59.07	74.00	-14.93
7386.000	Average	37.22	6.20	43.42	54.00	-10.58
7386.000	Peak	48.49	6.20	54.69	74.00	-19.31
9848.000	Average	36.64	8.40	45.04	54.00	-8.96
9848.000	Peak	47.61	8.40	56.01	74.00	-17.99

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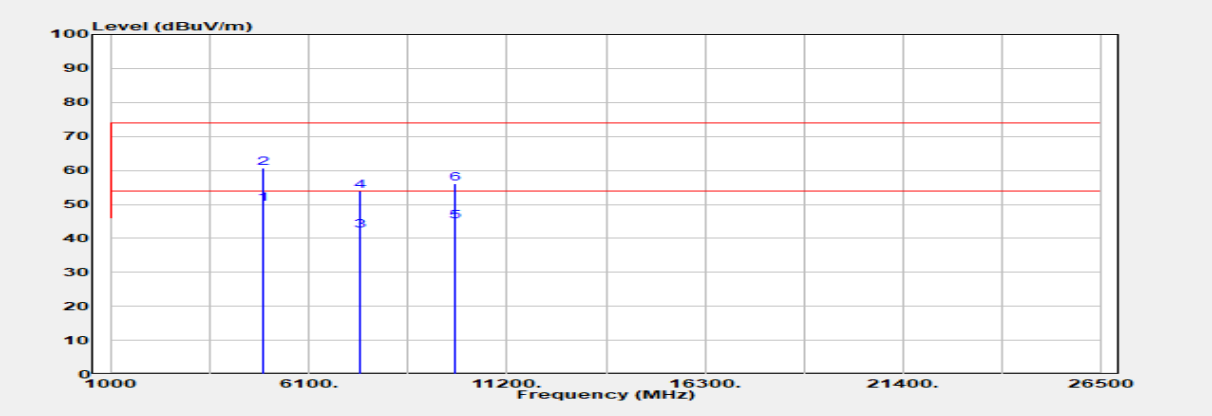
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-11-07
Test Frequency	:2462 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.000	Average	49.72	0.49	50.21	54.00	-3.79
4924.000	Peak	60.16	0.49	60.64	74.00	-13.36
7386.000	Average	36.16	6.20	42.36	54.00	-11.64
7386.000	Peak	47.73	6.20	53.93	74.00	-20.07
9848.000	Average	36.57	8.40	44.97	54.00	-9.03
9848.000	Peak	47.63	8.40	56.04	74.00	-17.96

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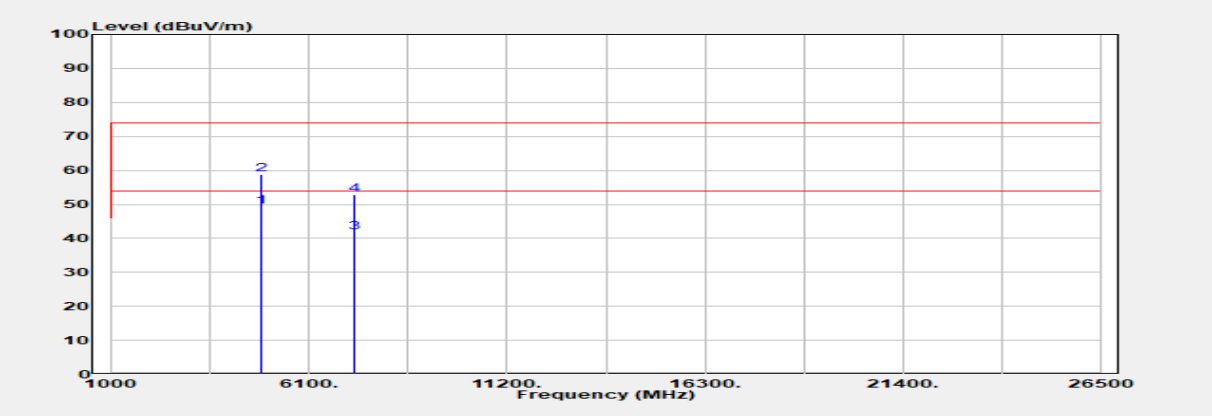
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-11-07
Test Frequency	:2422 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4844.000	Average	48.74	0.53	49.27	54.00	-4.73
4844.000	Peak	58.26	0.53	58.80	74.00	-15.20
7266.000	Average	35.10	6.66	41.76	54.00	-12.24
7266.000	Peak	46.10	6.66	52.76	74.00	-21.24

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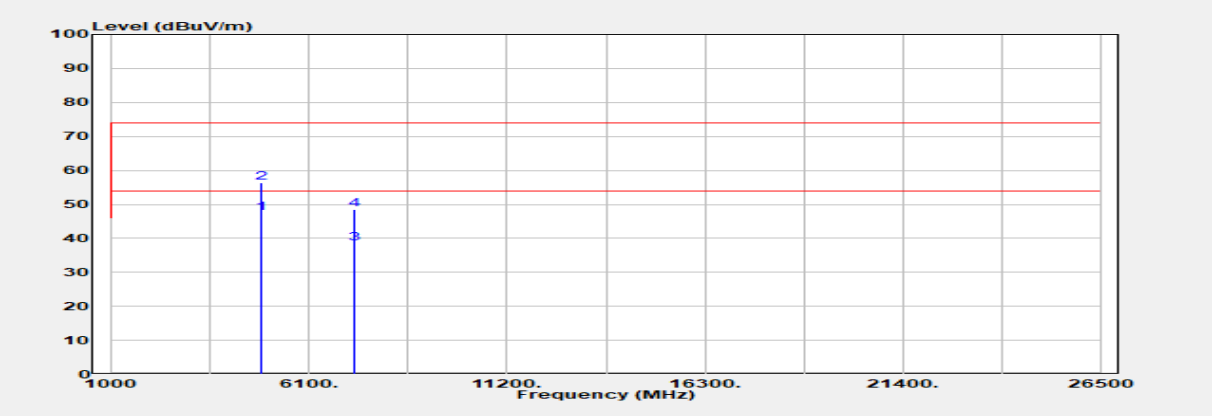
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-11-07
Test Frequency	:2422 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4844.000	Average	46.89	0.53	47.43	54.00	-6.57
4844.000	Peak	55.97	0.53	56.50	74.00	-17.50
7266.000	Average	31.71	6.66	38.37	54.00	-15.63
7266.000	Peak	41.93	6.66	48.59	74.00	-25.41

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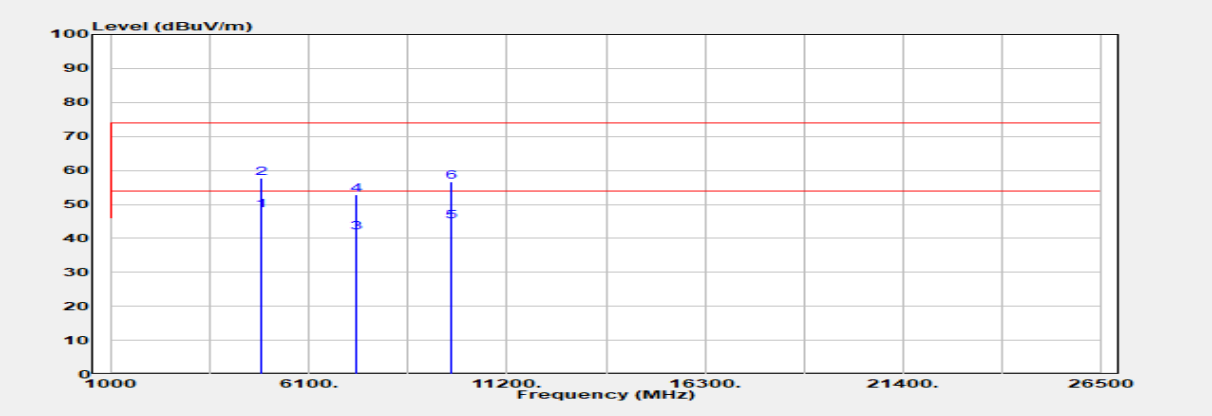
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-11-07
Test Frequency	:2437 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	47.87	0.44	48.31	54.00	-5.69
4874.000	Peak	57.30	0.44	57.74	74.00	-16.26
7311.000	Average	35.15	6.49	41.63	54.00	-12.37
7311.000	Peak	46.39	6.49	52.88	74.00	-21.12
9748.000	Average	36.22	8.68	44.90	54.00	-9.10
9748.000	Peak	48.01	8.68	56.69	74.00	-17.31

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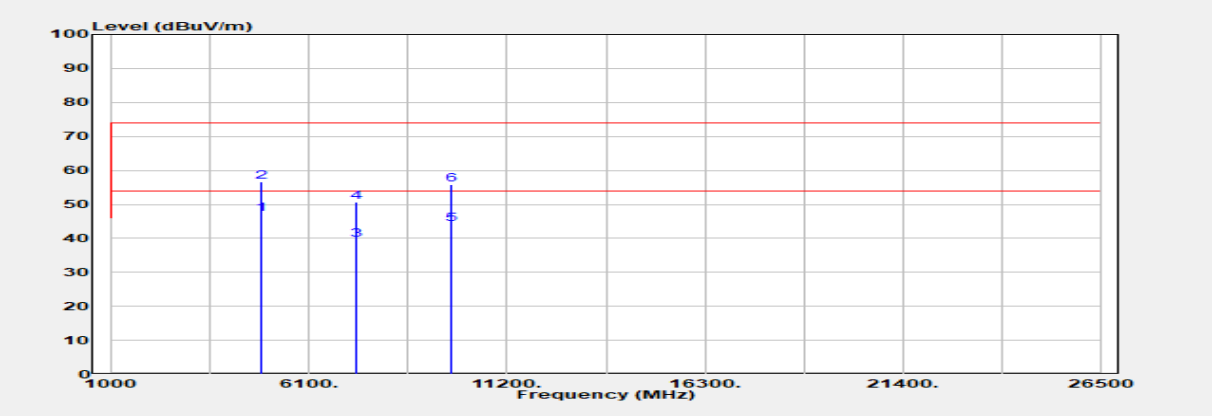
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-11-07
Test Frequency	:2437 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	46.74	0.44	47.18	54.00	-6.82
4874.000	Peak	56.26	0.44	56.70	74.00	-17.30
7311.000	Average	33.14	6.49	39.63	54.00	-14.37
7311.000	Peak	44.21	6.49	50.70	74.00	-23.30
9748.000	Average	35.59	8.68	44.28	54.00	-9.72
9748.000	Peak	47.07	8.68	55.75	74.00	-18.25

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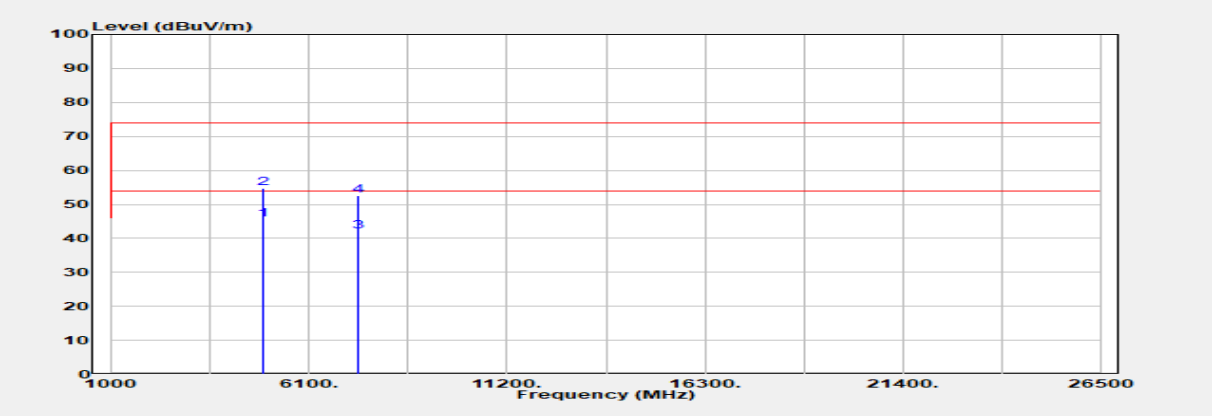
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-11-08
Test Frequency	:2452 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.000	Average	45.19	0.38	45.57	54.00	-8.43
4904.000	Peak	54.40	0.38	54.78	74.00	-19.22
7356.000	Average	35.68	6.20	41.88	54.00	-12.12
7356.000	Peak	46.39	6.20	52.59	74.00	-21.41

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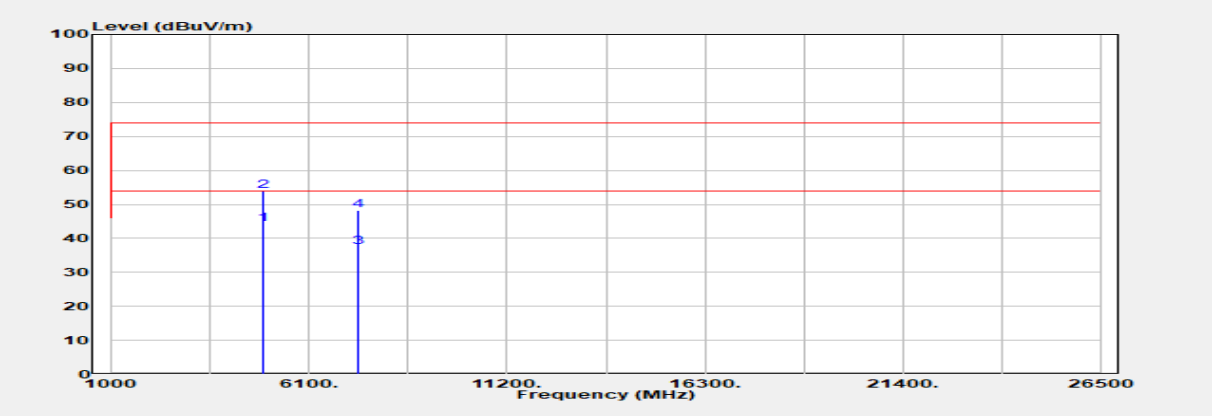
Report Number	:TERF2410003226E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-11-08
Test Frequency	:2452 MHz	Temp./Humi.	:20.8℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.000	Average	43.81	0.38	44.20	54.00	-9.80
4904.000	Peak	53.50	0.38	53.89	74.00	-20.11
7356.000	Average	31.29	6.20	37.49	54.00	-16.52
7356.000	Peak	42.00	6.20	48.20	74.00	-25.80

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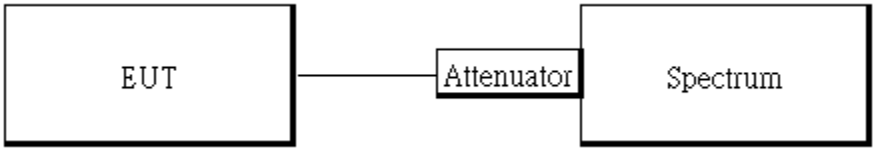
12 POWER SPECTRAL DENSITY

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.

12.2 Test Setup



12.3 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.

Note:

1. When the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

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12.4 Power spectral density

POWER DENSITY 802.11b				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-12.72	-12.72	8.00	PASS
2437	-10.22	-10.22	8.00	PASS
2462	-10.86	-10.86	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-7.18	-7.18	8.00	PASS
2437	-6.62	-6.62	8.00	PASS
2462	-6.5	-6.50	8.00	PASS

POWER DENSITY 802.11n HT20				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-8.78	-8.78	8.00	PASS
2437	-7.64	-7.64	8.00	PASS
2462	-7.6	-7.60	8.00	PASS

POWER DENSITY 802.11n HT40				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-10.26	-10.26	8.00	PASS
2437	-10.23	-10.23	8.00	PASS
2452	-11.02	-11.02	8.00	PASS

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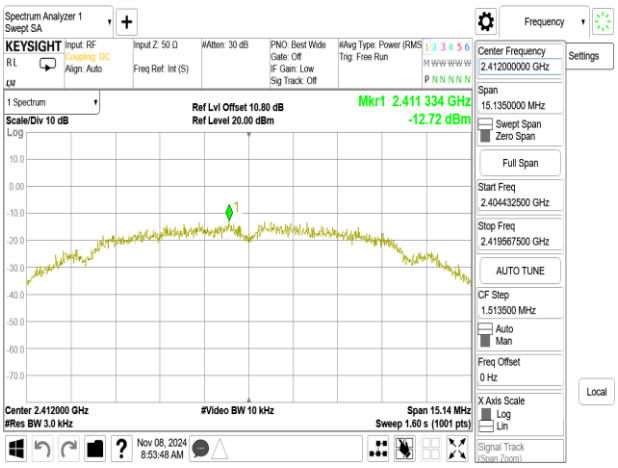
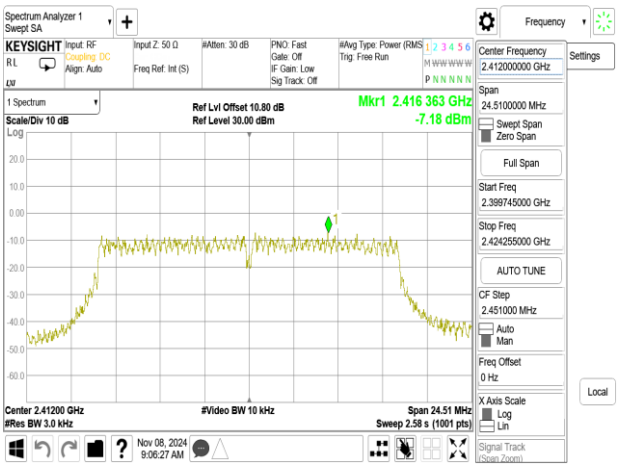
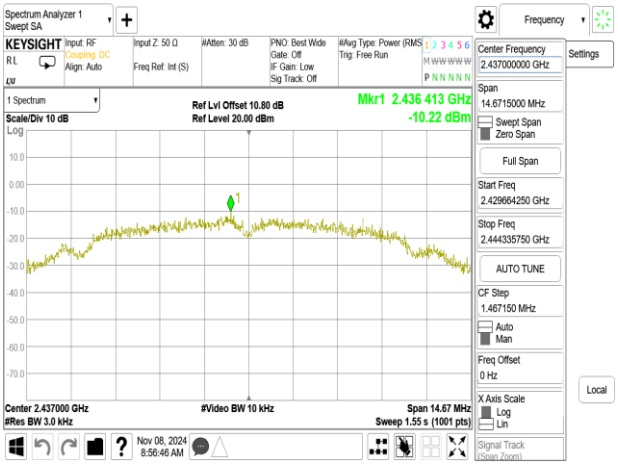
802.11b_20MHz_Chain0_2412MHz



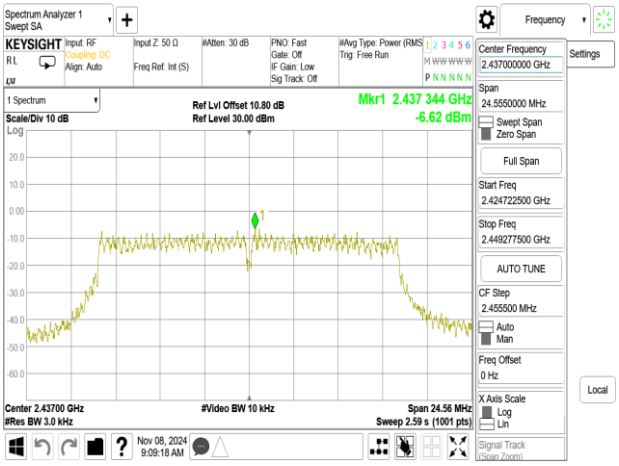
802.11g_20MHz_Chain0_2412MHz



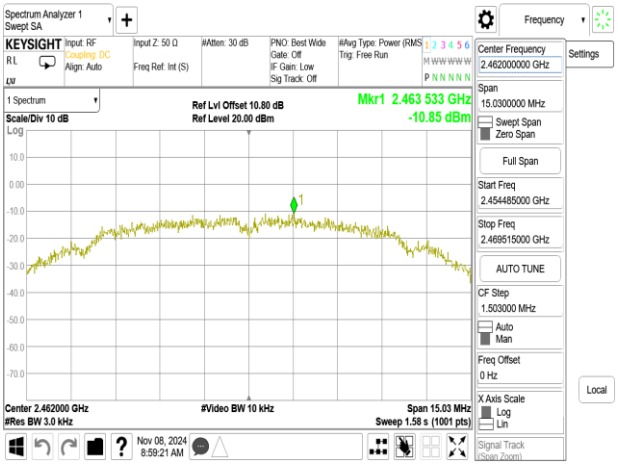
802.11b_20MHz_Chain0_2437MHz



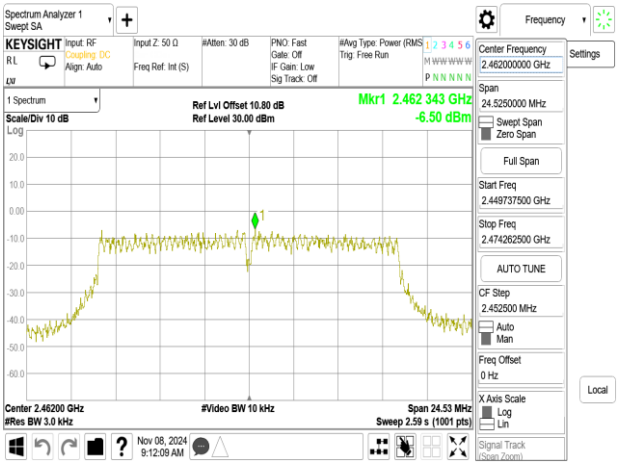
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz



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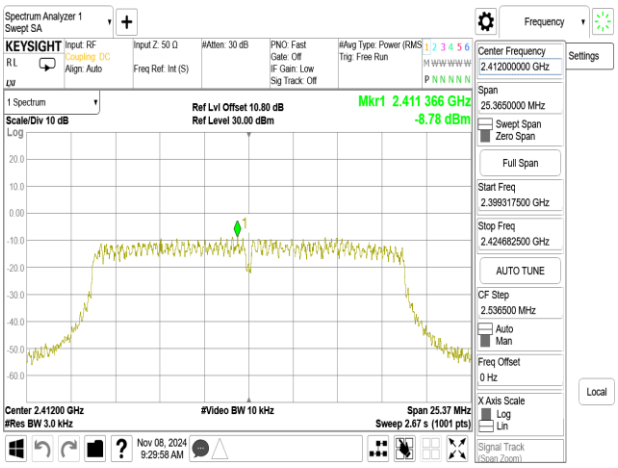
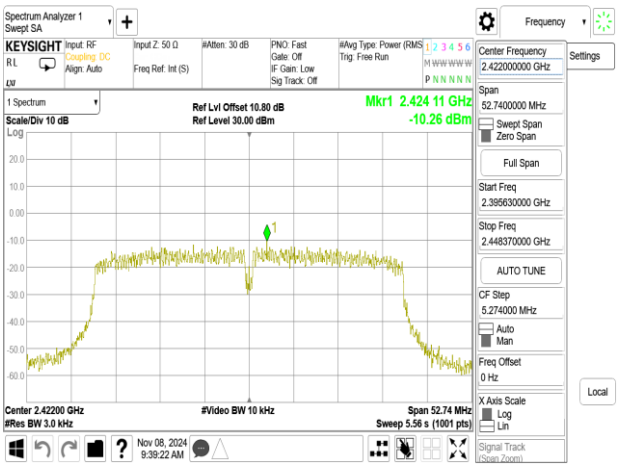
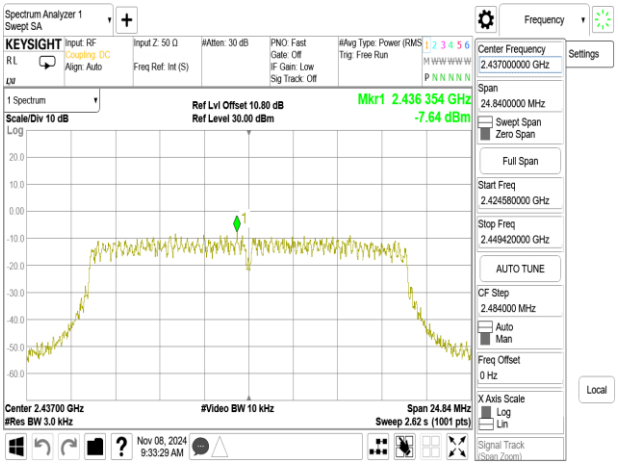
802.11n_20MHz_Chain0_2412MHz



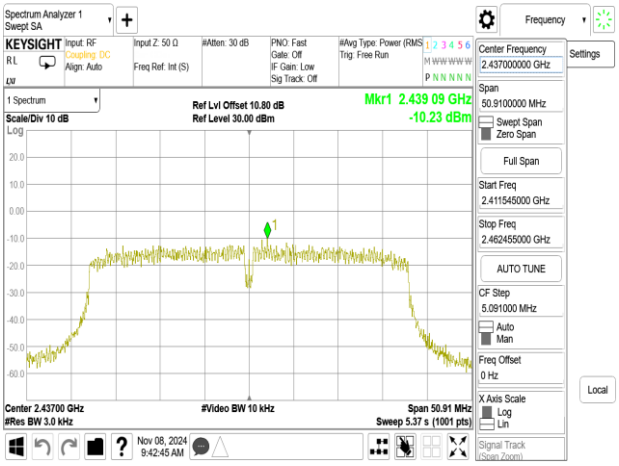
802.11n_40MHz_Chain0_2422MHz



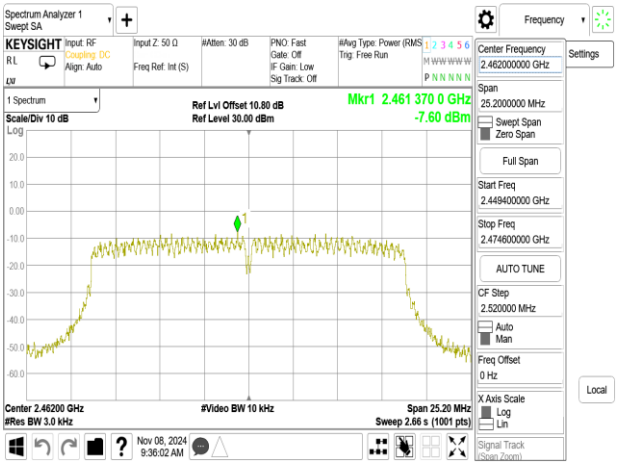
802.11n_20MHz_Chain0_2437MHz



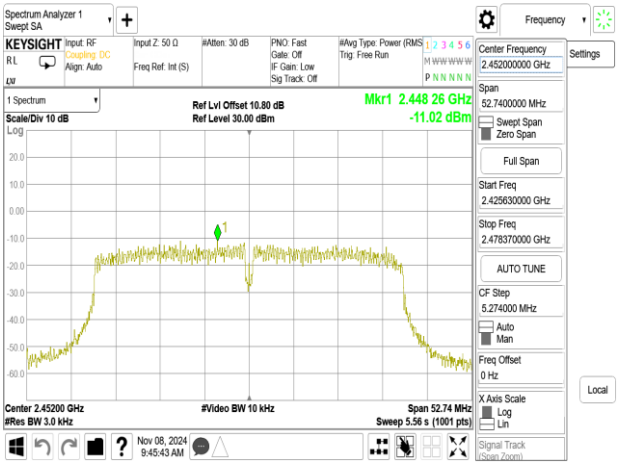
802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



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13 ANTENNA REQUIREMENT

13.1 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.

13.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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