

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:

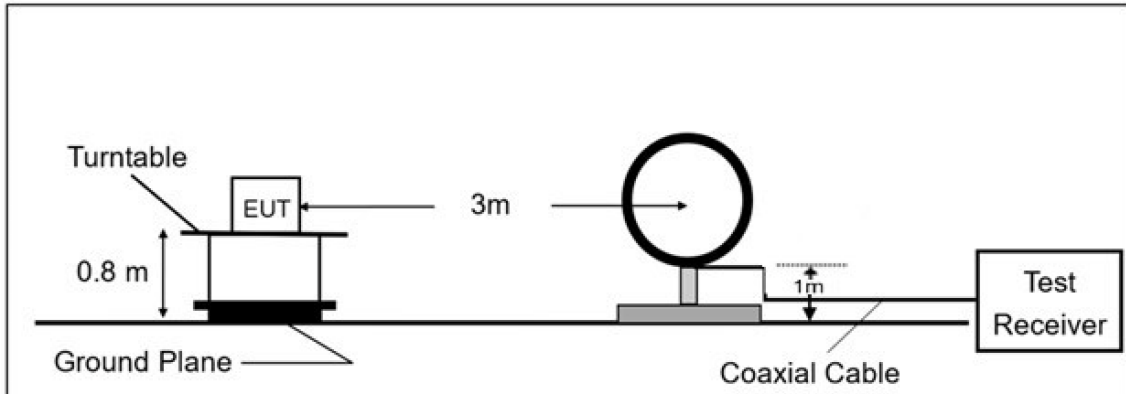
1. The lower limit shall apply at the transition frequencies.

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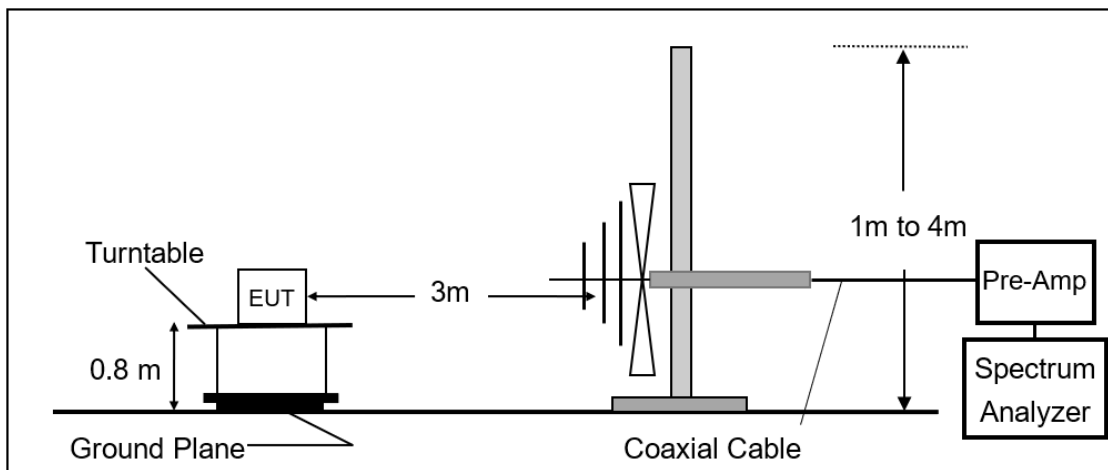
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11.2 Test Setup

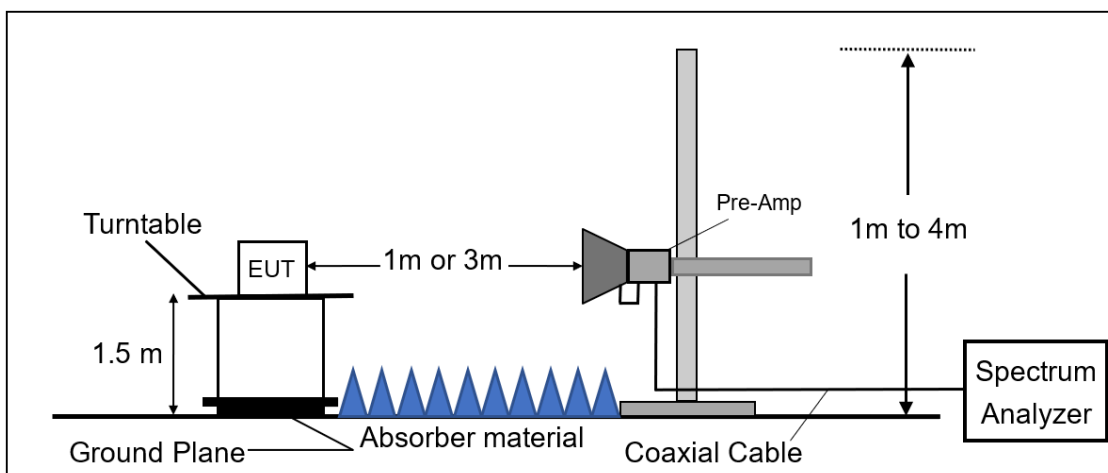
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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, Detector= Peak for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= RMS correction factor is $[10 \log (1 / D)]$ for Average Emission measurements at frequency above 1 GHz when $D \geq 98\%$. If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission, where D is the duty cycle.
9. Set the spectrum analyzer as RBW=1 MHz, VBW $\geq 1/T$ when $D < 98\%$ for Average Emission Measurements at frequency above 1 GHz.
10. 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.
11. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
12. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
13. 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 $20 \cdot \log(uV/m)$

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

Factor(dB) = Antenna Factor(dB/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

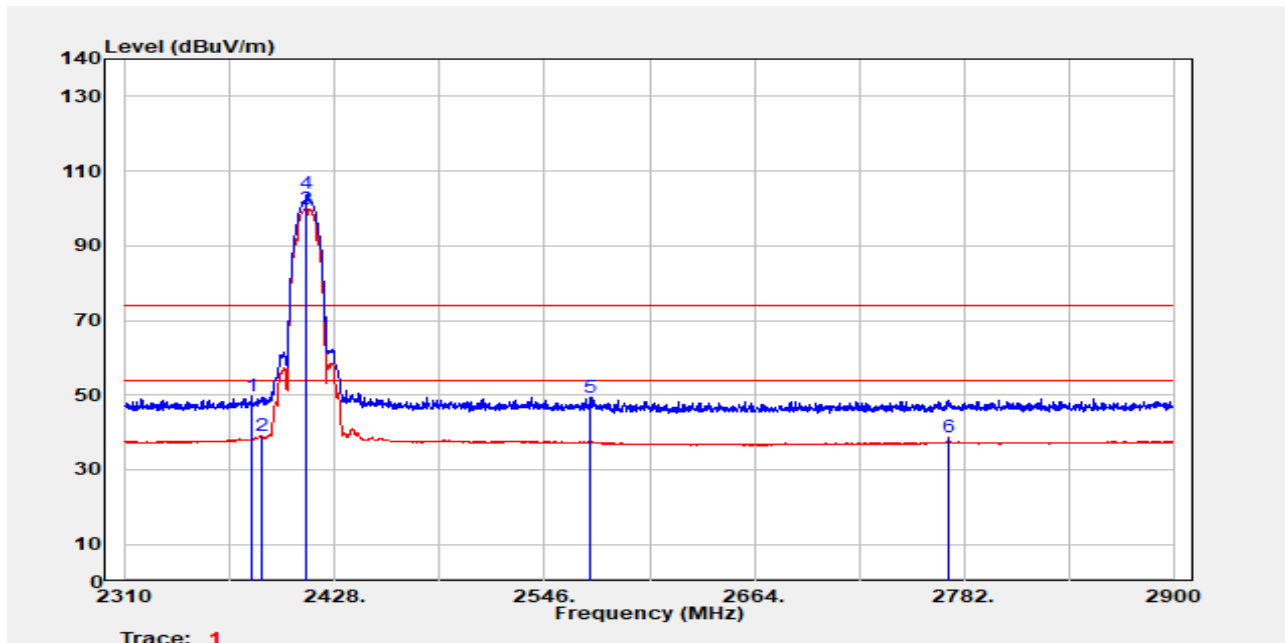
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11.6.1 Radiated Band Edge Measurement Result

Report Number :TERF2504001489E2
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2025-05-22
Temp./Humi. :21.6°C/54%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2380.82	Peak	53.47	-3.93	49.54	74.00	-24.46
2386.53	Average	43.18	-3.92	39.26	54.00	-14.74
2412.00	Average	103.96	-4.02	99.94	-	-
2412.00	Peak	107.97	-4.02	103.95	-	-
2572.05	Peak	53.40	-3.90	49.50	74.00	-24.50
2773.50	Average	41.87	-3.29	38.58	54.00	-15.42

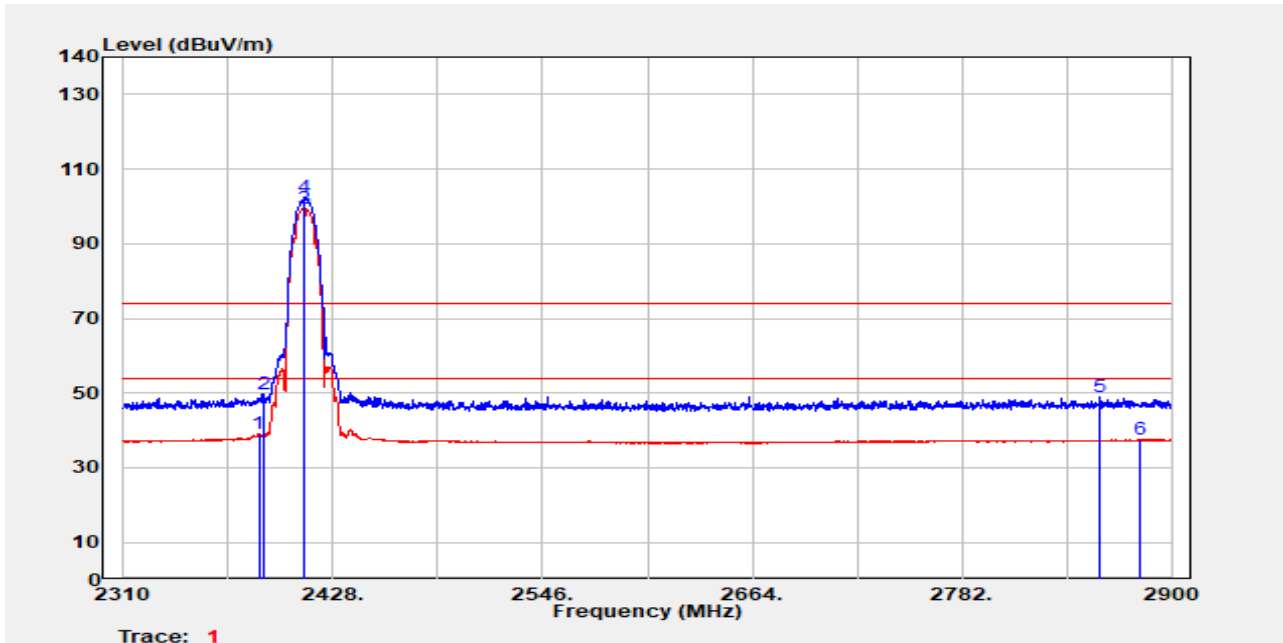
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Test Frequency :2412 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2025-05-22
Temp./Humi. :21.6°C/54%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2386.14	Average	43.04	-3.92	39.12	54.00	-14.88
2388.69	Peak	53.66	-3.93	49.73	74.00	-24.27
2412.00	Average	103.35	-4.02	99.33	-	-
2412.00	Peak	106.63	-4.02	102.61	-	-
2859.87	Peak	52.02	-2.94	49.08	74.00	-24.92
2882.10	Average	40.43	-2.90	37.53	54.00	-16.47

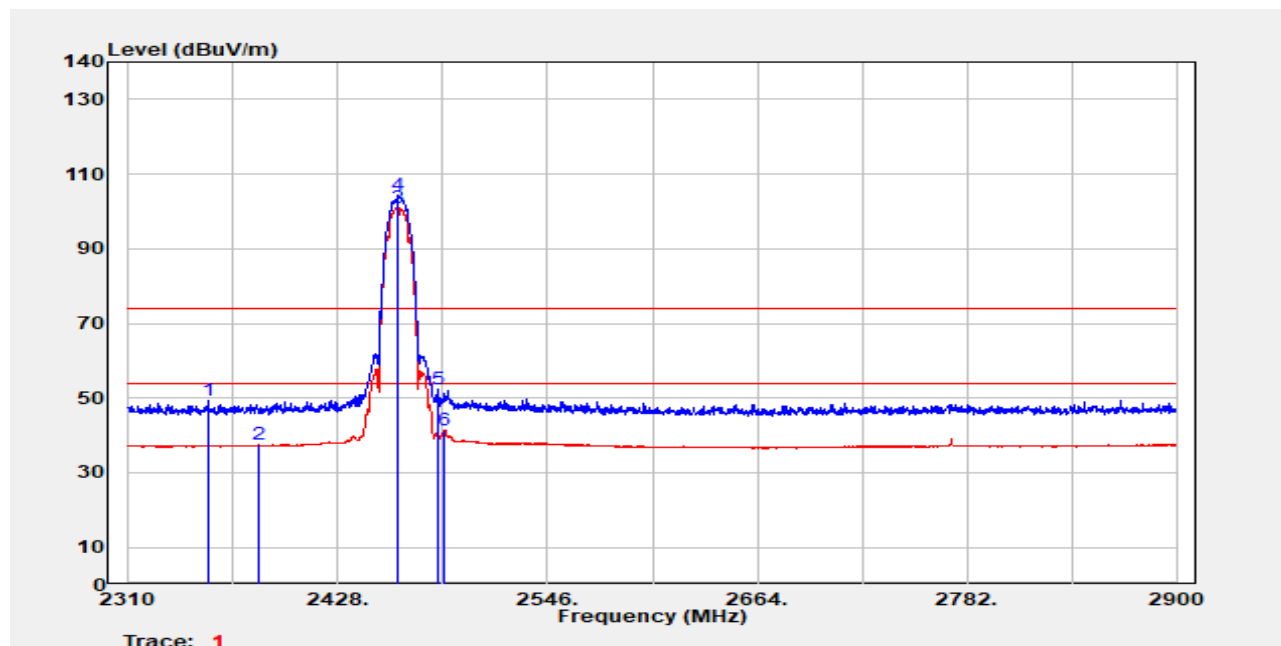
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 EUT Pol :E1 Plane

Test Site :SAC C
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 Antenna Pol. :Vertical
 Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2354.86	Peak	53.27	-3.85	49.42	74.00	-24.58
2383.78	Average	41.33	-3.92	37.41	54.00	-16.59
2462.00	Average	105.16	-4.16	101.00	-	-
2462.00	Peak	108.65	-4.16	104.49	-	-
2484.31	Peak	56.61	-4.11	52.50	74.00	-21.50
2487.85	Average	45.53	-4.07	41.46	54.00	-12.54

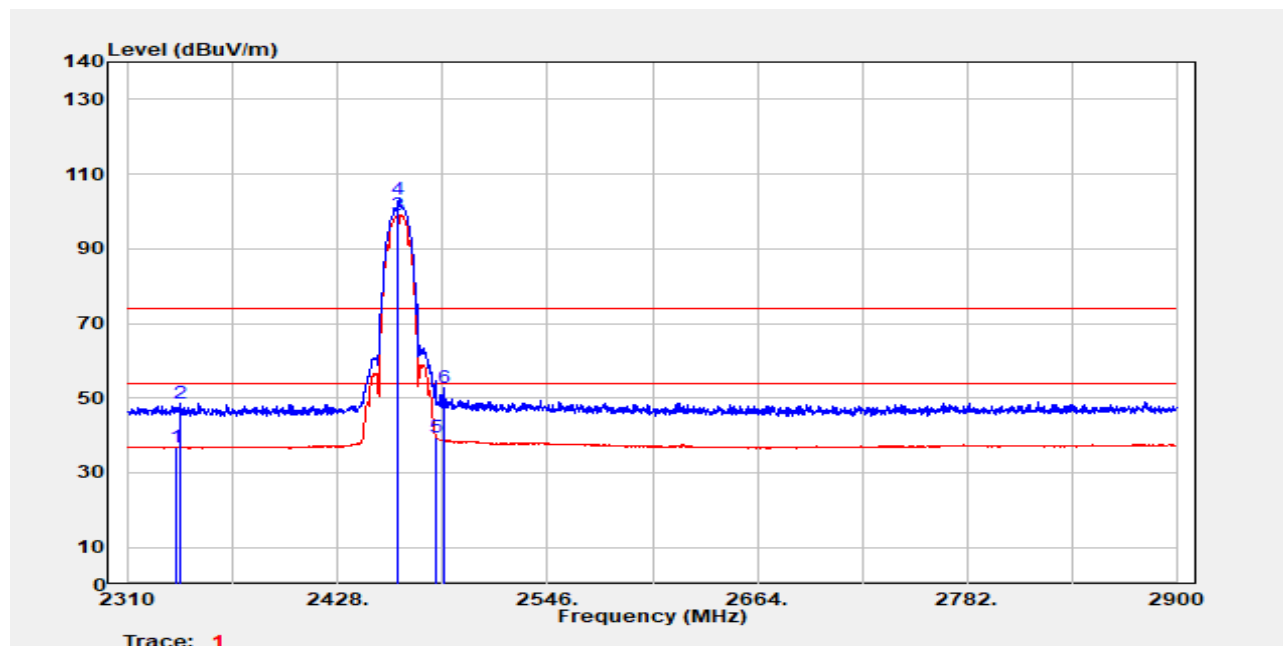
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Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2025-05-22
Temp./Humi. :21.6°C/54%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2336.95	Average	40.72	-3.77	36.95	54.00	-17.05
2339.31	Peak	52.27	-3.77	48.50	74.00	-25.50
2462.00	Average	103.20	-4.16	99.04	-	-
2462.00	Peak	107.32	-4.16	103.16	-	-
2483.50	Average	43.65	-4.12	39.53	54.00	-14.47
2487.45	Peak	56.63	-4.08	52.55	74.00	-21.45

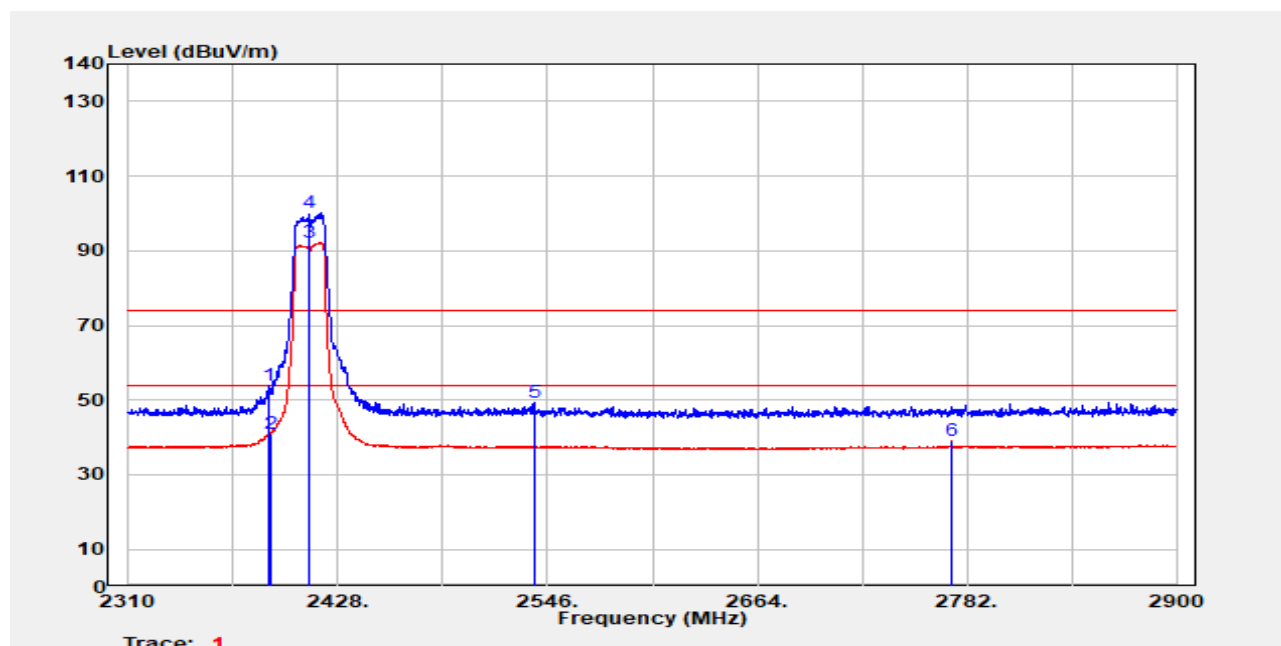
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Report Number :TERF2504001489E2
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2025-05-22
 Temp./Humi. :21.6°C/54%
 Antenna Pol. :Vertical
 Engineer :Alex Li



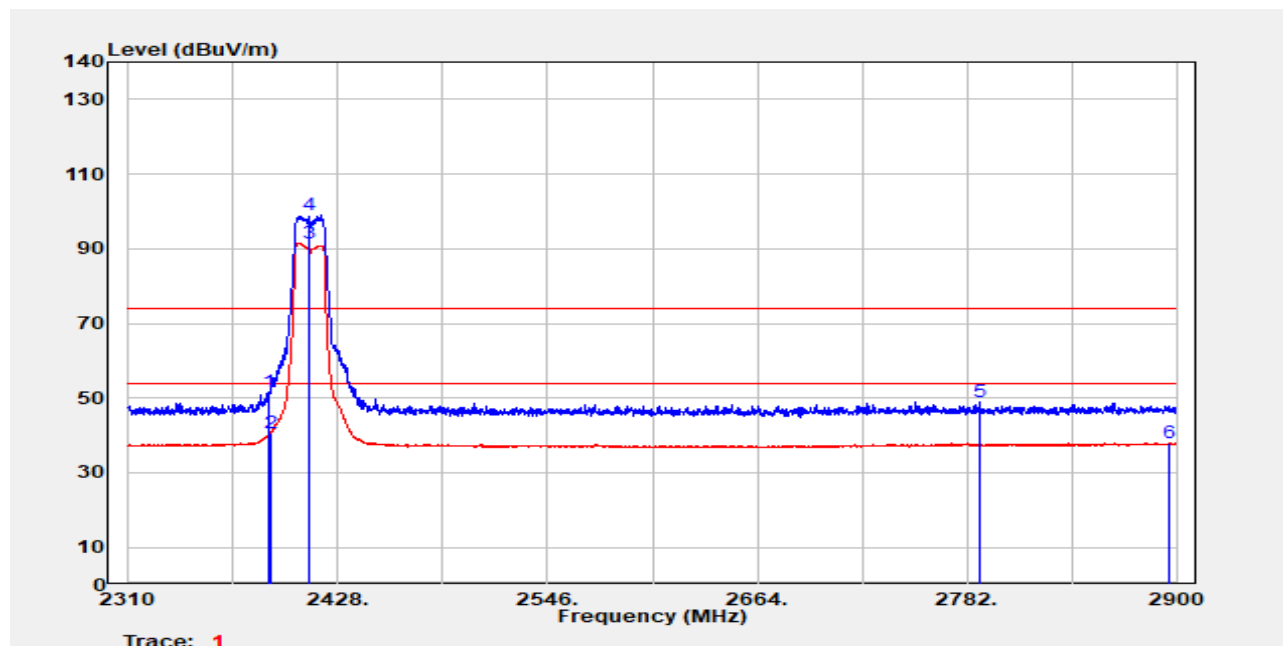
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.28	Peak	57.75	-3.93	53.82	74.00	-20.18
2389.68	Average	44.81	-3.92	40.89	54.00	-13.11
2412.00	Average	96.10	-4.02	92.08	-	-
2412.00	Peak	104.24	-4.02	100.22	-	-
2538.21	Peak	53.31	-3.94	49.37	74.00	-24.63
2773.50	Average	42.35	-3.29	39.06	54.00	-14.94

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Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.50	Peak	55.45	-3.93	51.52	74.00	-22.48
2389.87	Average	44.37	-3.92	40.45	54.00	-13.55
2412.00	Average	95.35	-4.02	91.33	-	-
2412.00	Peak	103.22	-4.02	99.20	-	-
2789.04	Peak	52.37	-3.31	49.06	74.00	-24.94
2896.26	Average	40.70	-2.80	37.90	54.00	-16.10

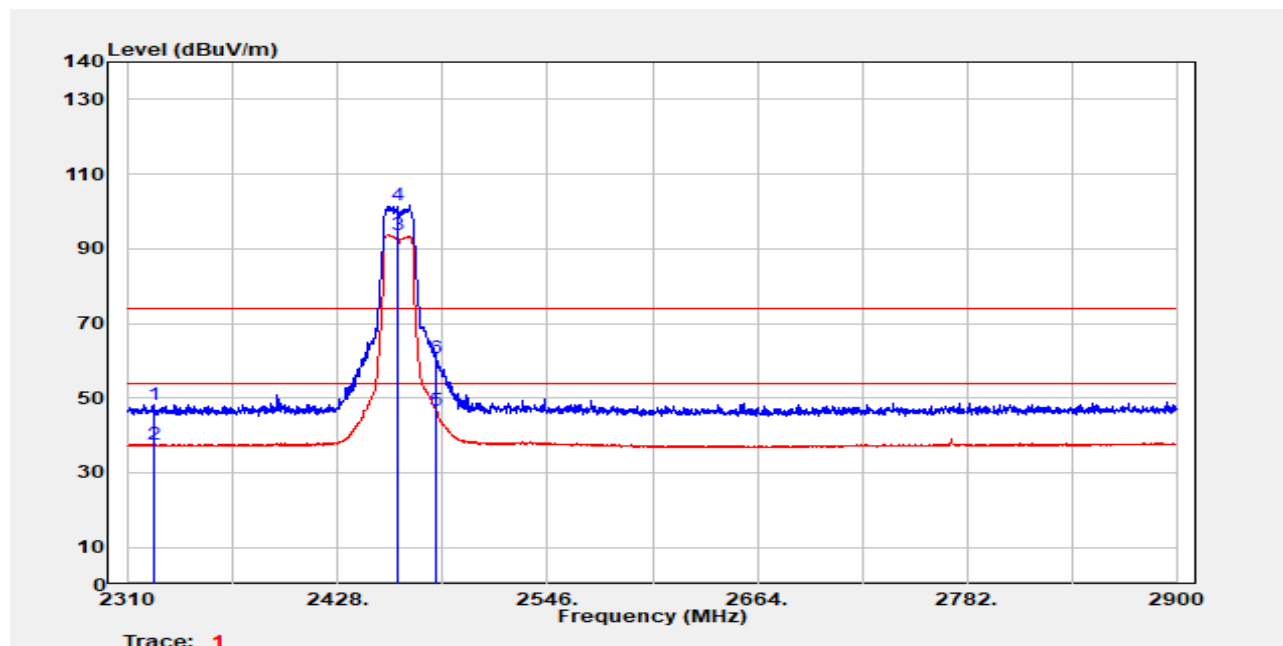
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 Temp./Humi. :21.6°C/54%
 Antenna Pol. :Vertical
 Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2323.97	Peak	52.10	-3.73	48.37	74.00	-25.63
2324.76	Average	41.47	-3.74	37.73	54.00	-16.27
2462.00	Average	97.87	-4.16	93.71	-	-
2462.00	Peak	105.70	-4.16	101.54	-	-
2483.50	Average	50.70	-4.12	46.58	54.00	-7.42
2483.50	Peak	64.94	-4.12	60.82	74.00	-13.18

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台灣檢驗科技股份有限公司

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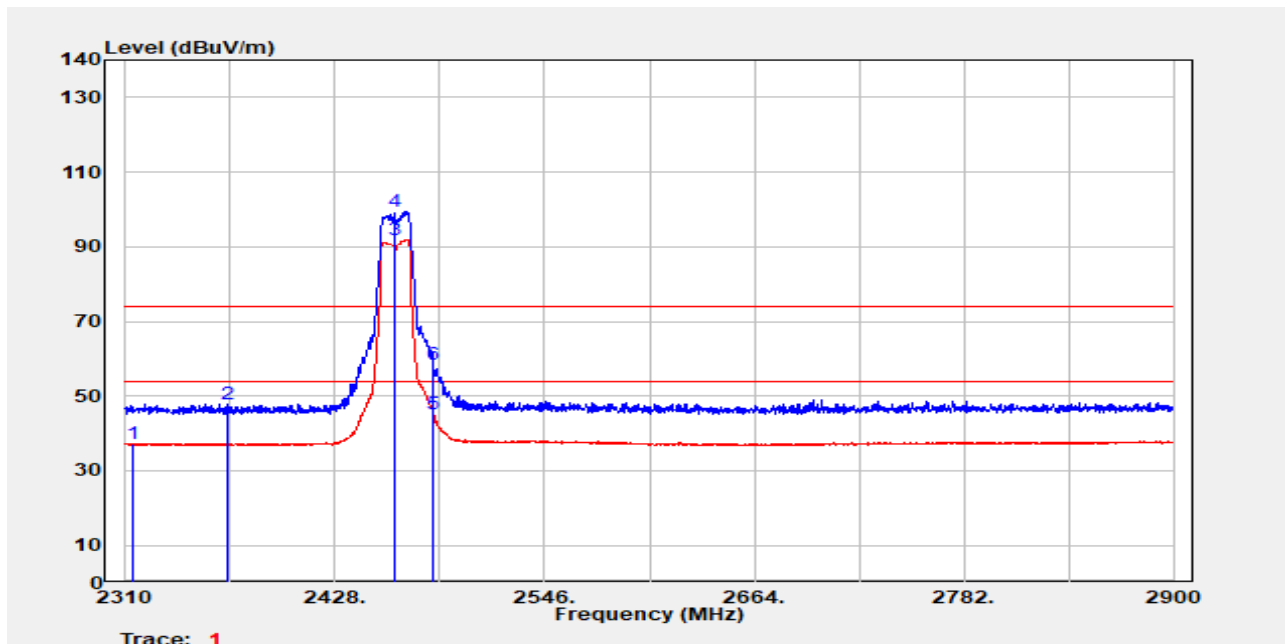
f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2504001489E2
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2025-05-22
 Temp./Humi. :21.6°C/54%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



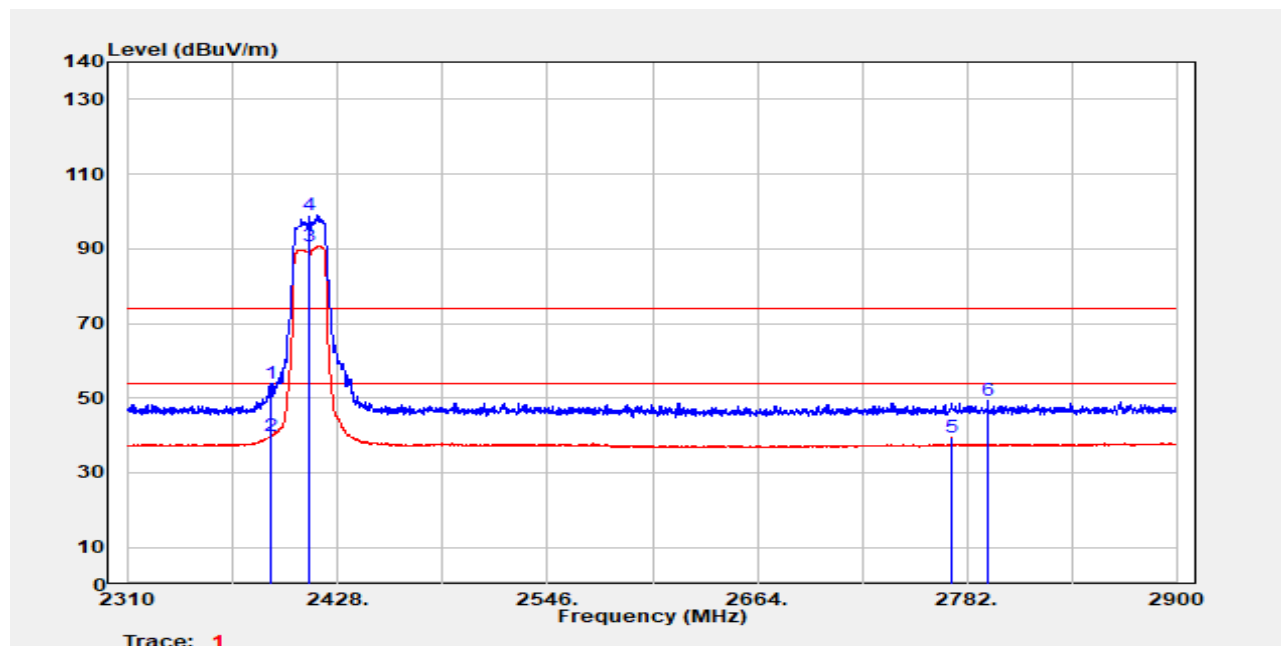
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2313.94	Average	41.07	-3.70	37.37	54.00	-16.63
2367.84	Peak	51.78	-3.85	47.93	74.00	-26.07
2462.00	Average	95.99	-4.16	91.83	-	-
2462.00	Peak	103.49	-4.16	99.33	-	-
2483.50	Average	49.32	-4.12	45.20	54.00	-8.80
2483.50	Peak	62.69	-4.12	58.57	74.00	-15.43

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Report Number :TERF2504001489E2
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2025-05-22
 Temp./Humi. :21.6°C/54%
 Antenna Pol. :Vertical
 Engineer :Alex Li



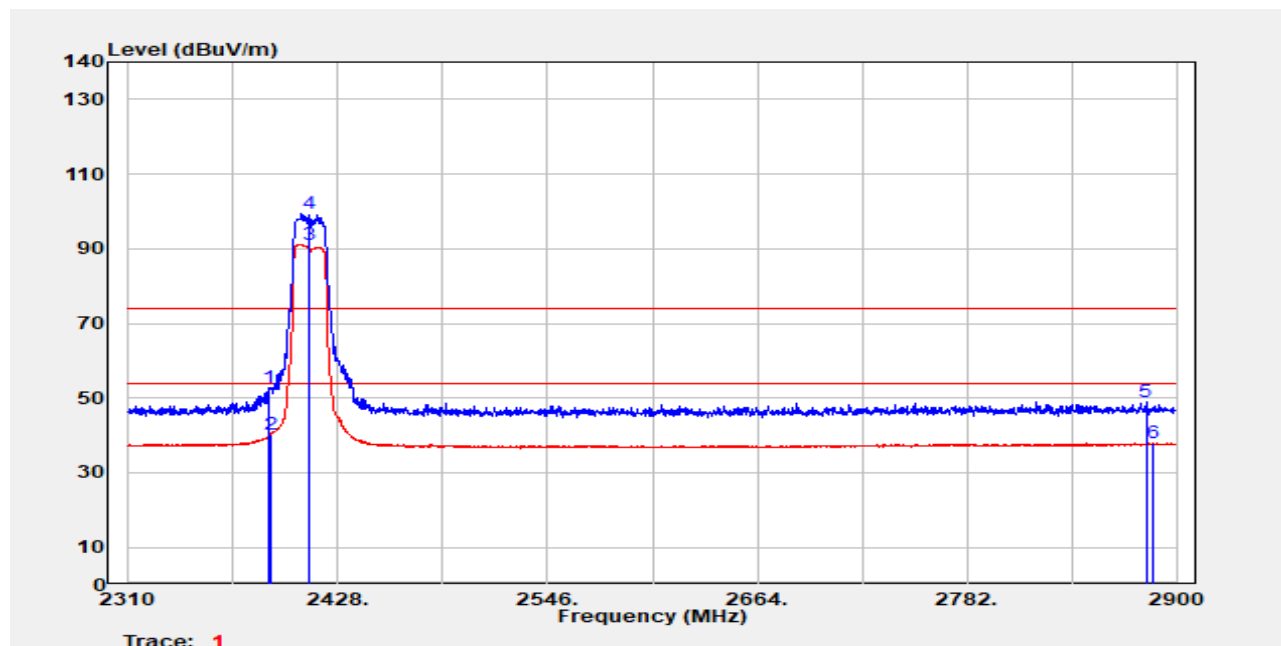
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.68	Peak	57.64	-3.92	53.72	74.00	-20.28
2389.87	Average	43.62	-3.92	39.70	54.00	-14.30
2412.00	Average	94.71	-4.02	90.69	-	-
2412.00	Peak	103.01	-4.02	98.99	-	-
2773.50	Average	42.67	-3.29	39.38	54.00	-14.62
2793.77	Peak	52.57	-3.31	49.26	74.00	-24.74

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Report Number :TERF2504001489E2
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2025-05-22
 Temp./Humi. :21.6°C/54%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.48	Peak	56.58	-3.92	52.66	74.00	-21.34
2389.68	Average	44.02	-3.92	40.10	54.00	-13.90
2412.00	Average	95.24	-4.02	91.22	-	-
2412.00	Peak	103.35	-4.02	99.33	-	-
2882.88	Peak	51.93	-2.89	49.04	74.00	-24.96
2886.82	Average	40.71	-2.84	37.87	54.00	-16.13

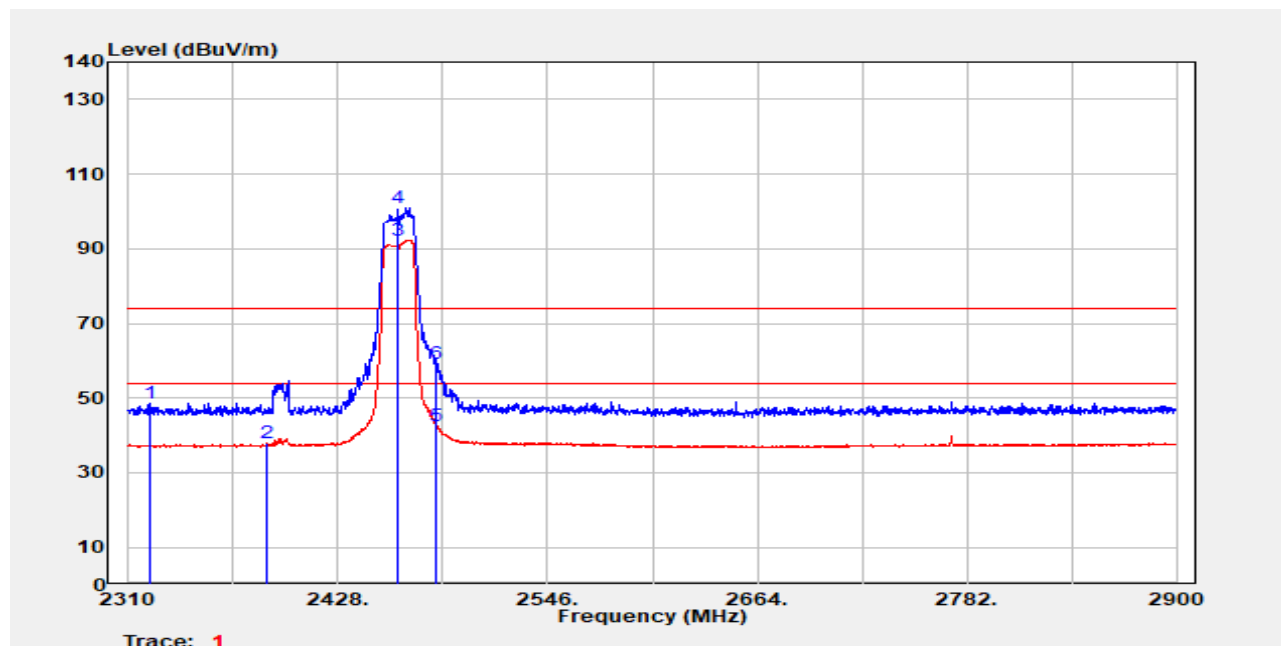
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Report Number :TERF2504001489E2
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2025-05-22
Temp./Humi. :21.6°C/54%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2321.61	Peak	52.41	-3.71	48.70	74.00	-25.30
2387.91	Average	41.83	-3.93	37.90	54.00	-16.10
2462.00	Average	96.54	-4.16	92.38	-	-
2462.00	Peak	104.98	-4.16	100.82	-	-
2483.50	Average	46.71	-4.12	42.59	54.00	-11.41
2483.50	Peak	63.20	-4.12	59.08	74.00	-14.92

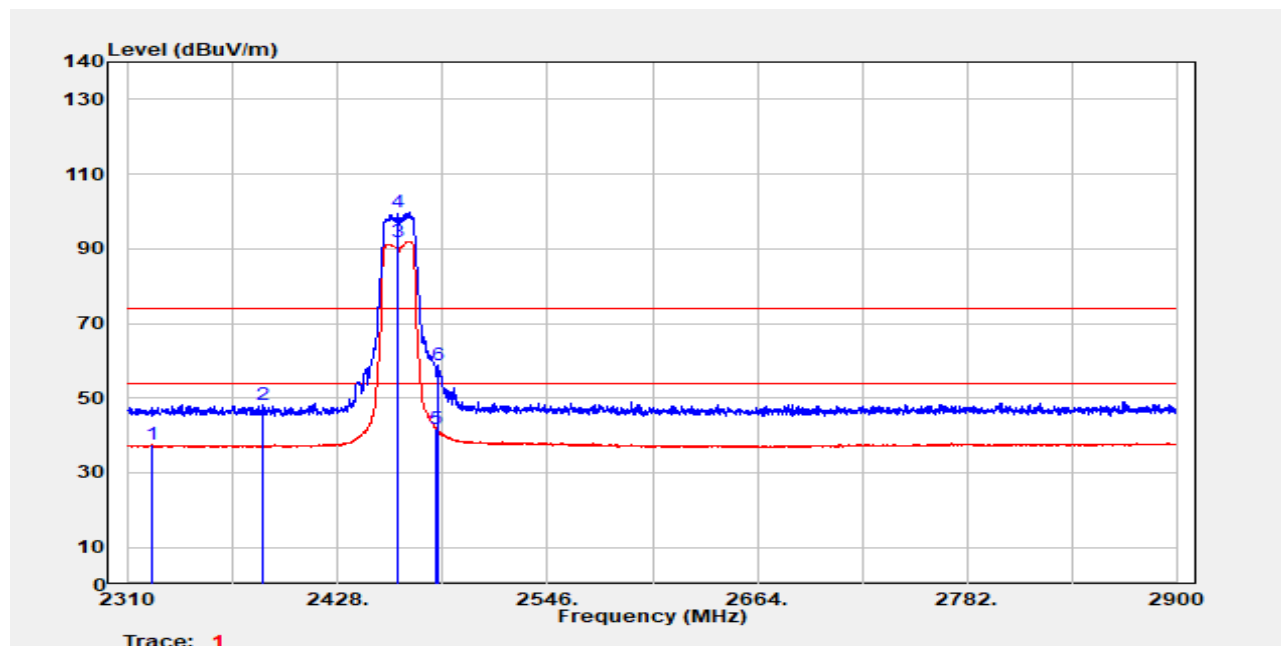
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Report Number :TERF2504001489E2
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2025-05-22
Temp./Humi. :21.6°C/54%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2323.38	Average	41.10	-3.72	37.38	54.00	-16.62
2385.74	Peak	52.01	-3.92	48.09	74.00	-25.91
2462.00	Average	95.99	-4.16	91.83	-	-
2462.00	Peak	103.97	-4.16	99.81	-	-
2483.50	Average	45.78	-4.12	41.66	54.00	-12.34
2484.31	Peak	62.89	-4.11	58.78	74.00	-15.22

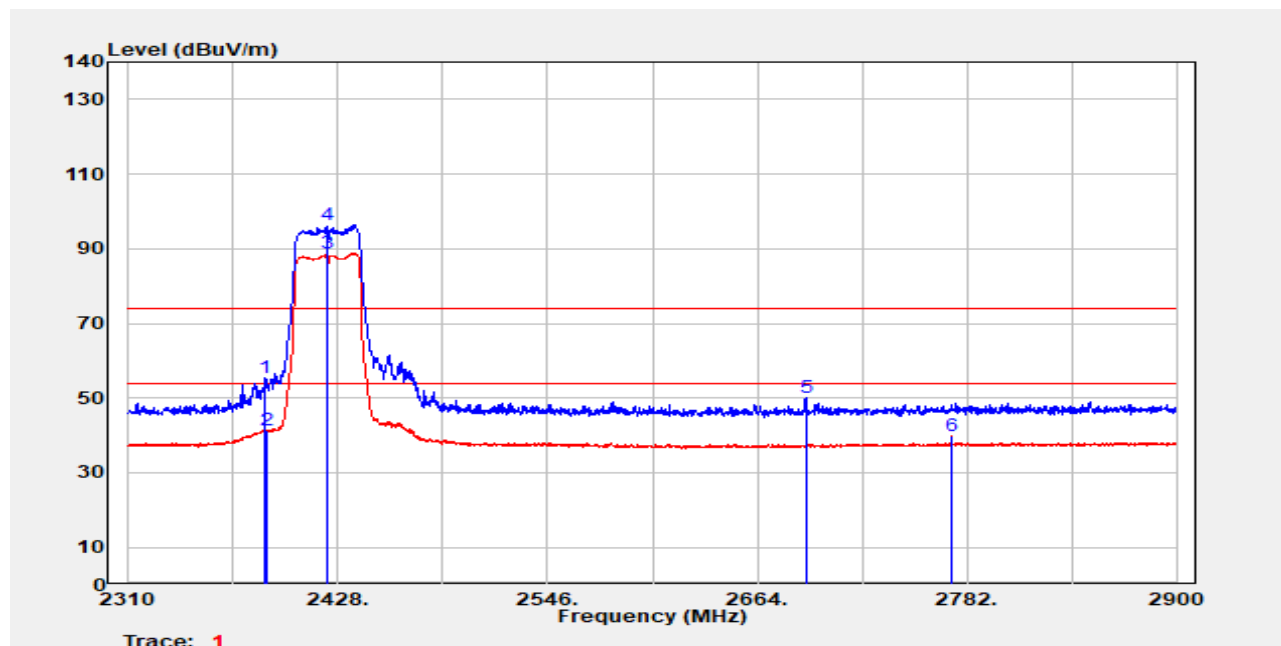
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Report Number :TERF2504001489E2
Operation Mode :802.11n40
Test Frequency :2422 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2025-05-22
Temp./Humi. :21.6°C/54%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2386.92	Peak	59.31	-3.92	55.39	74.00	-18.61
2388.30	Average	45.44	-3.93	41.51	54.00	-12.49
2422.00	Average	92.76	-4.02	88.74	-	-
2422.00	Peak	100.32	-4.02	96.30	-	-
2691.27	Peak	53.80	-3.83	49.97	74.00	-24.03
2773.30	Average	43.28	-3.30	39.98	54.00	-14.02

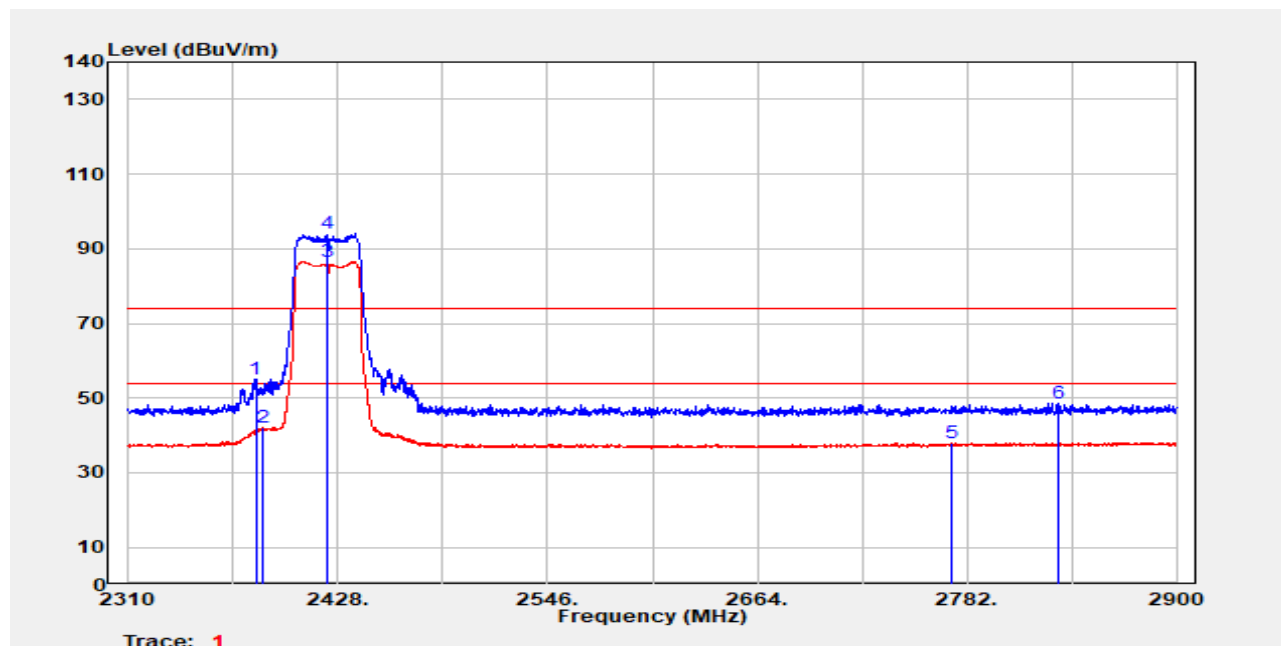
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Report Number :TERF2504001489E2
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2025-05-22
 Temp./Humi. :21.6°C/54%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2381.61	Peak	58.78	-3.93	54.85	74.00	-19.15
2385.55	Average	45.86	-3.92	41.94	54.00	-12.06
2422.00	Average	90.69	-4.02	86.67	-	-
2422.00	Peak	97.92	-4.02	93.90	-	-
2773.50	Average	41.37	-3.29	38.08	54.00	-15.92
2833.11	Peak	51.62	-3.14	48.48	74.00	-25.52

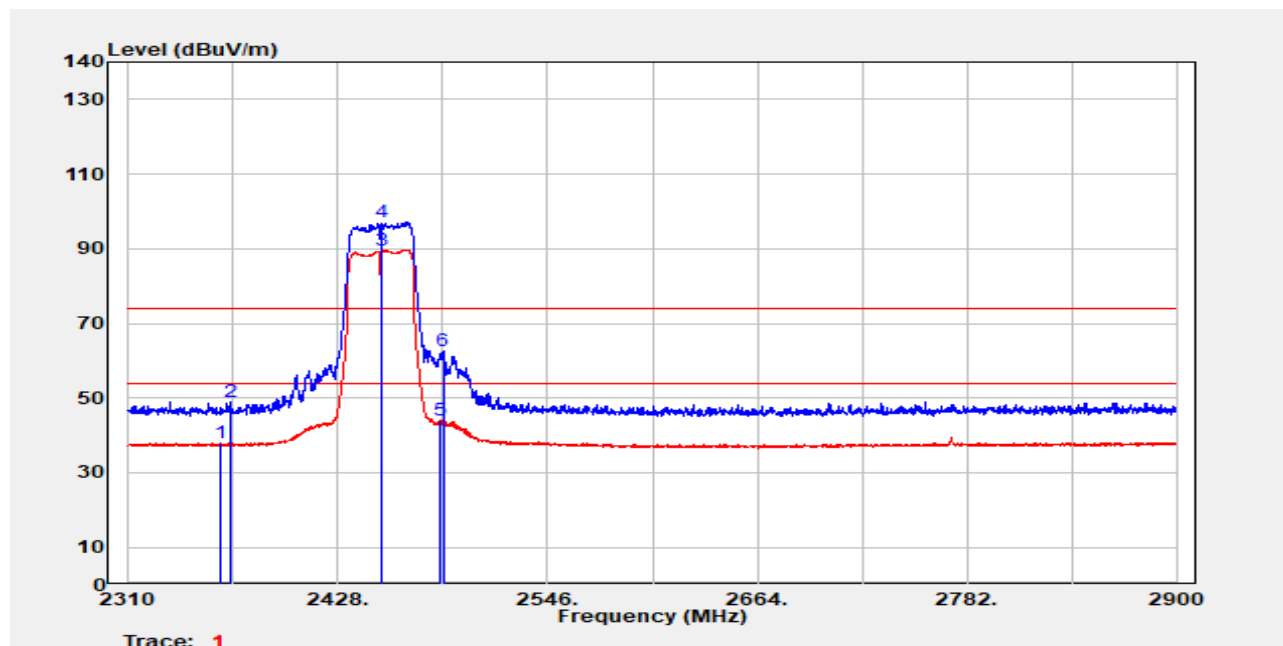
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Report Number :TERF2504001489E2
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2025-05-22
 Temp./Humi. :21.6°C/54%
 Antenna Pol. :Vertical
 Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2361.35	Average	41.80	-3.84	37.96	54.00	-16.04
2367.64	Peak	52.75	-3.85	48.90	74.00	-25.10
2452.00	Average	93.62	-4.06	89.56	-	-
2452.00	Peak	101.17	-4.06	97.11	-	-
2485.88	Average	48.24	-4.09	44.15	54.00	-9.85
2487.06	Peak	66.53	-4.08	62.45	74.00	-11.55

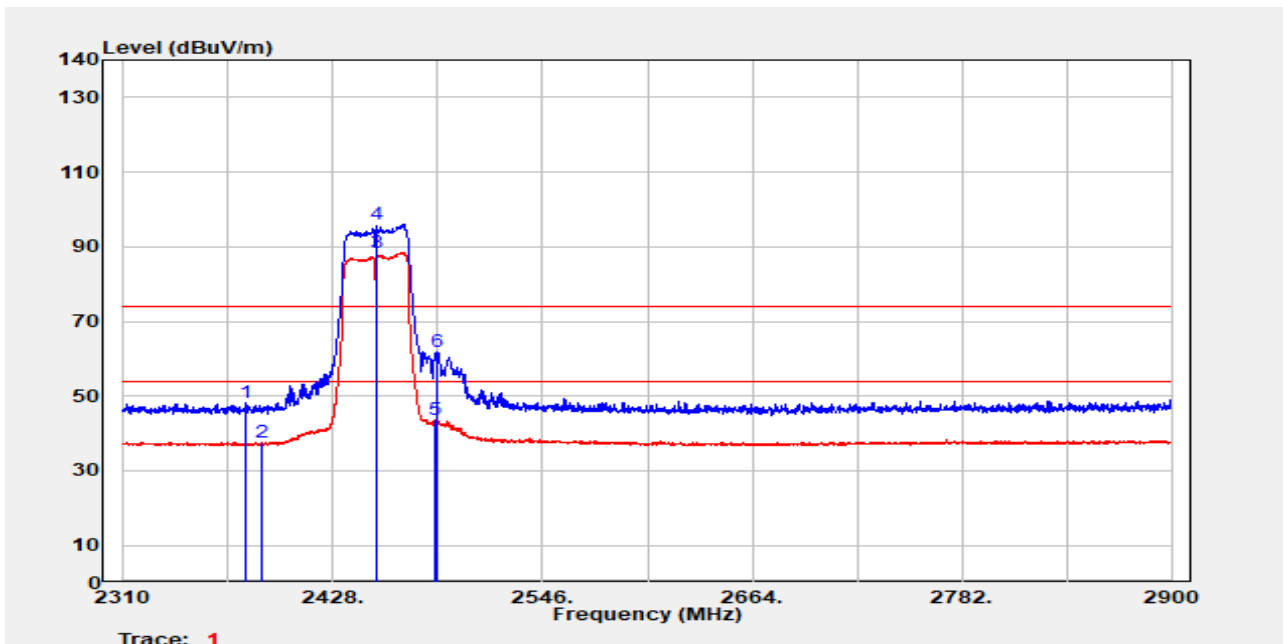
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Report Number :TERF2504001489E2
Operation Mode :802.11n40
Test Frequency :2452 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2025-05-22
Temp./Humi. :21.6°C/54%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2379.25	Peak	52.05	-3.92	48.13	74.00	-25.87
2387.32	Average	41.49	-3.92	37.57	54.00	-16.43
2452.00	Average	92.46	-4.06	88.40	-	-
2452.00	Peak	100.05	-4.06	95.99	-	-
2485.68	Average	47.86	-4.09	43.77	54.00	-10.23
2486.86	Peak	66.03	-4.08	61.95	74.00	-12.05

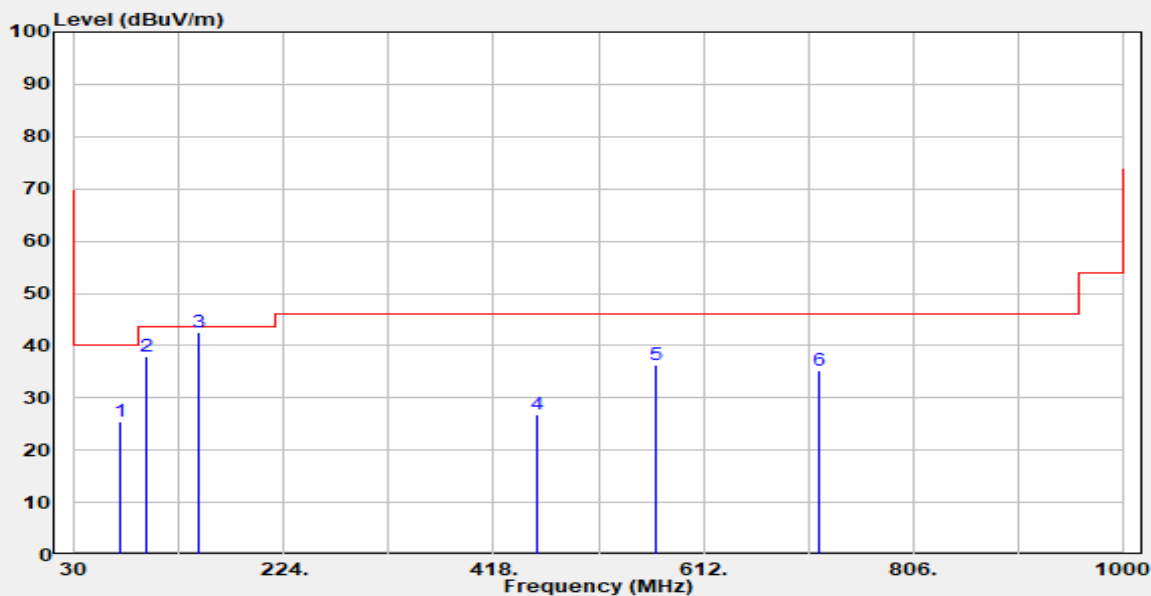
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11.6.2 Spurious Emission:

Report Number :TERF2504001489E2
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-05-27
 Temp./Humi. :21.6°C/69%
 Antenna Pol. :Vertical
 Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
71.71	QP	39.91	-14.52	25.39	40.00	-14.61
95.96	QP	55.41	-17.34	38.07	43.50	-5.43
144.46	QP	54.90	-12.34	42.56	43.50	-0.94
457.77	QP	33.40	-6.65	26.75	46.00	-19.25
567.38	Peak	41.05	-4.64	36.41	46.00	-9.59
719.67	Peak	37.37	-2.14	35.23	46.00	-10.77

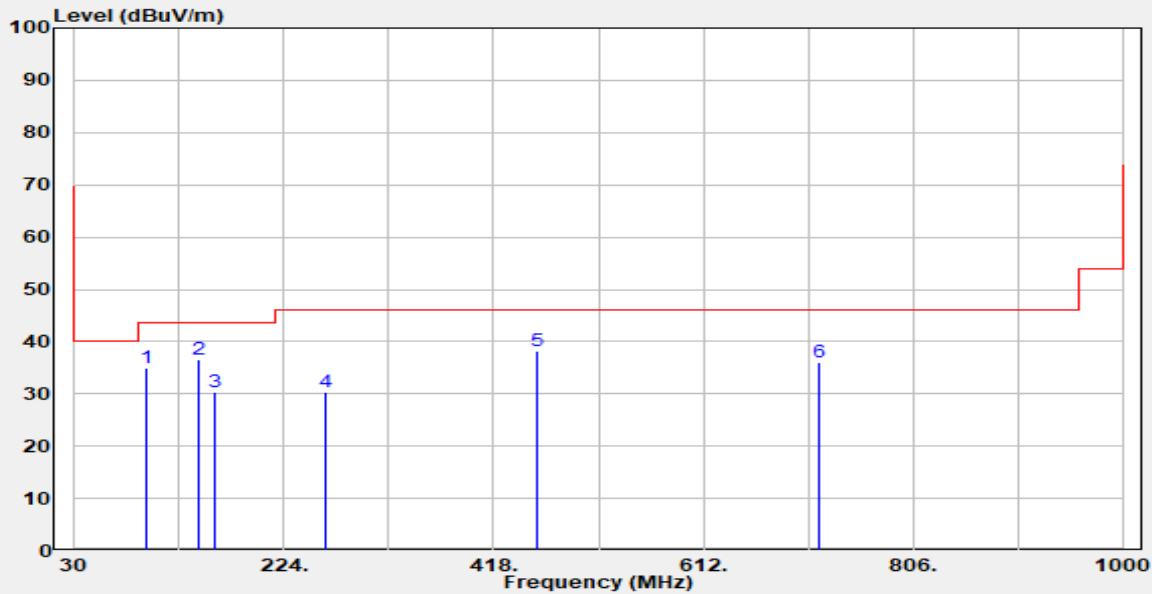
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Report Number :TERF2504001489E2
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Horizontal
Engineer :Alex Li



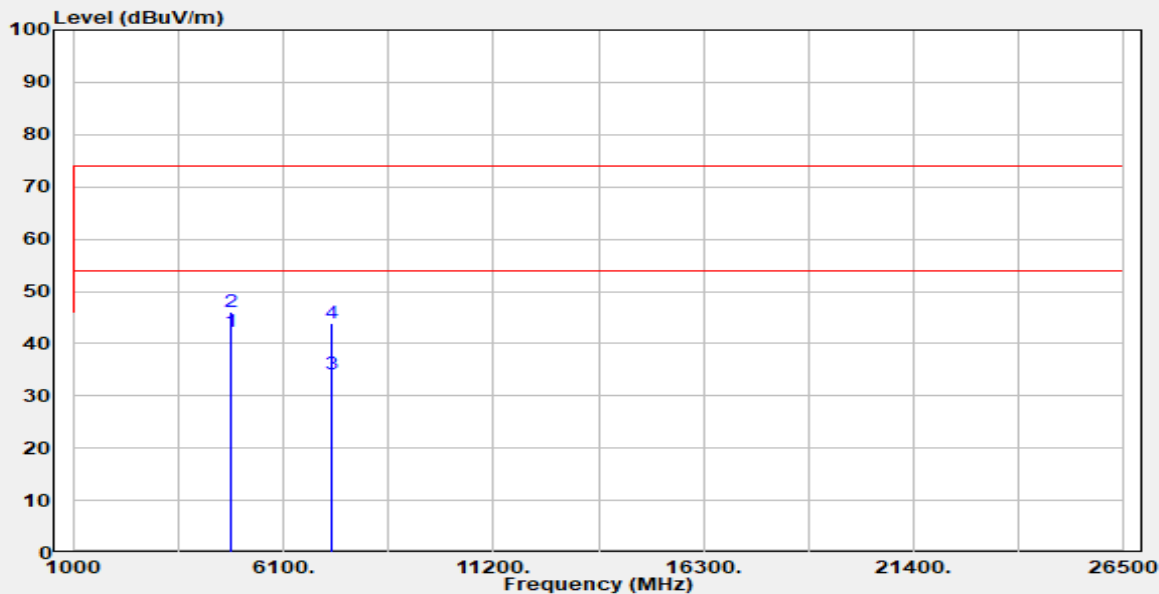
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
95.96	QP	52.21	-17.34	34.87	43.50	-8.63
144.46	QP	48.90	-12.34	36.56	43.50	-6.94
159.98	QP	42.20	-11.94	30.26	43.50	-13.24
261.83	QP	42.80	-12.38	30.42	46.00	-15.58
457.77	QP	44.90	-6.65	38.25	46.00	-7.75
719.67	Peak	38.08	-2.14	35.94	46.00	-10.06

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Report Number :TERF2504001489E2
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	42.25	0.15	42.40	54.00	-11.60
4824.00	Peak	45.95	0.15	46.10	74.00	-27.90
7236.00	Average	27.94	6.32	34.26	54.00	-19.74
7236.00	Peak	37.71	6.32	44.03	74.00	-29.97

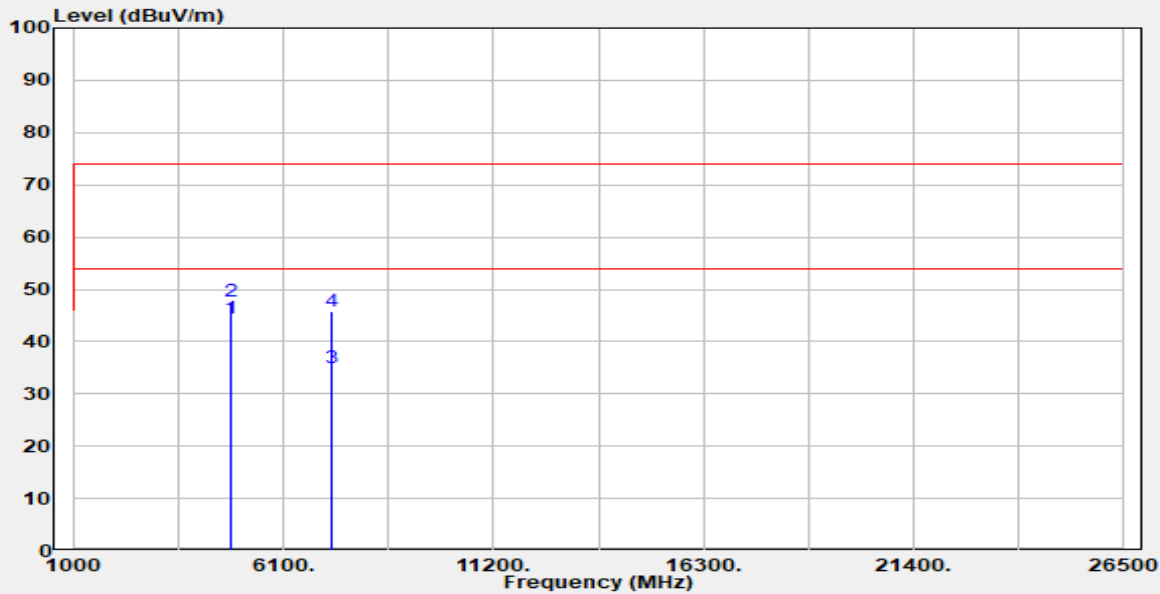
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Report Number :TERF2504001489E2
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Horizontal
Engineer :Alex Li



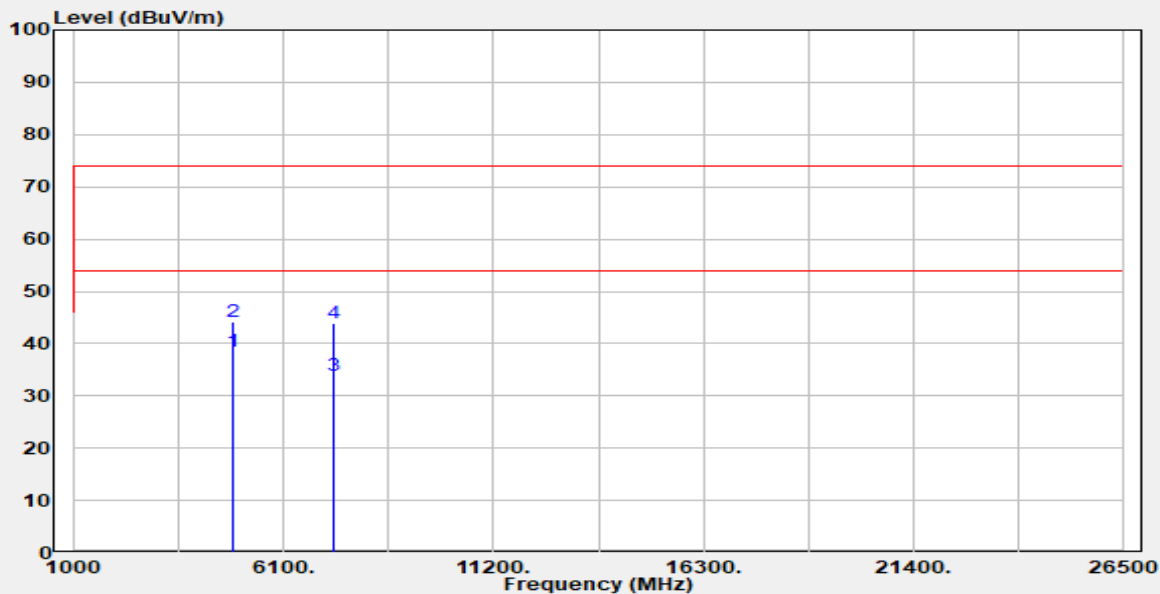
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	44.38	0.15	44.53	54.00	-9.47
4824.00	Peak	47.49	0.15	47.64	74.00	-26.36
7236.00	Average	28.53	6.32	34.85	54.00	-19.15
7236.00	Peak	39.61	6.32	45.93	74.00	-28.07

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Report Number :TERF2504001489E2
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	38.34	0.27	38.61	54.00	-15.39
4874.00	Peak	43.94	0.27	44.21	74.00	-29.79
7311.00	Average	27.44	6.55	33.99	54.00	-20.01
7311.00	Peak	37.40	6.55	43.95	74.00	-30.05

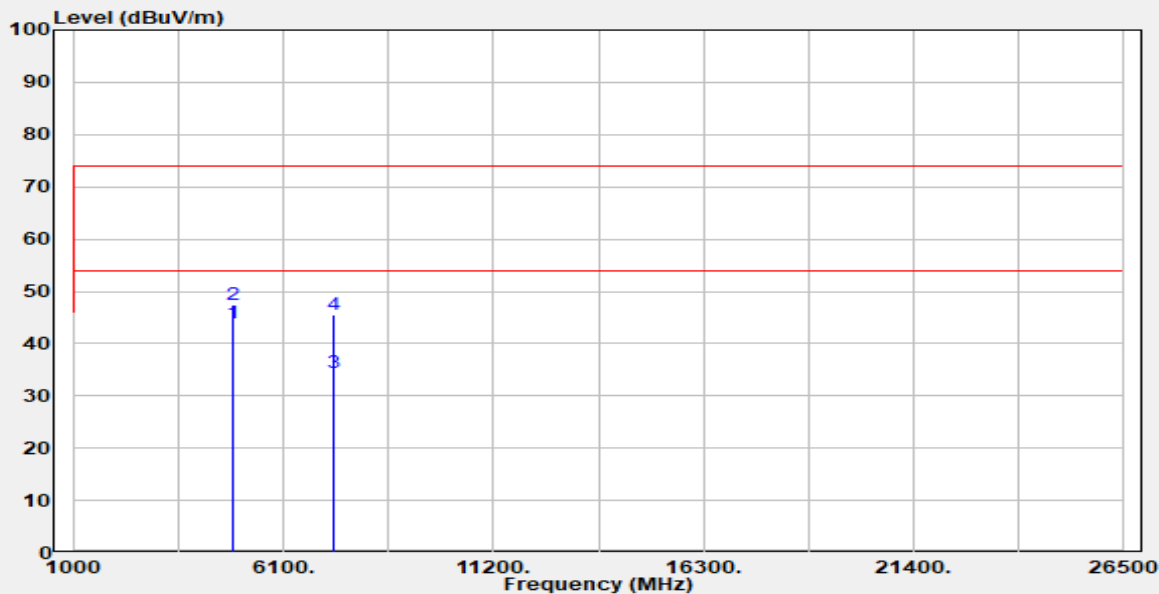
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Report Number :TERF2504001489E2
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	43.64	0.27	43.91	54.00	-10.09
4874.00	Peak	47.22	0.27	47.49	74.00	-26.51
7311.00	Average	27.76	6.55	34.31	54.00	-19.69
7311.00	Peak	38.88	6.55	45.43	74.00	-28.57

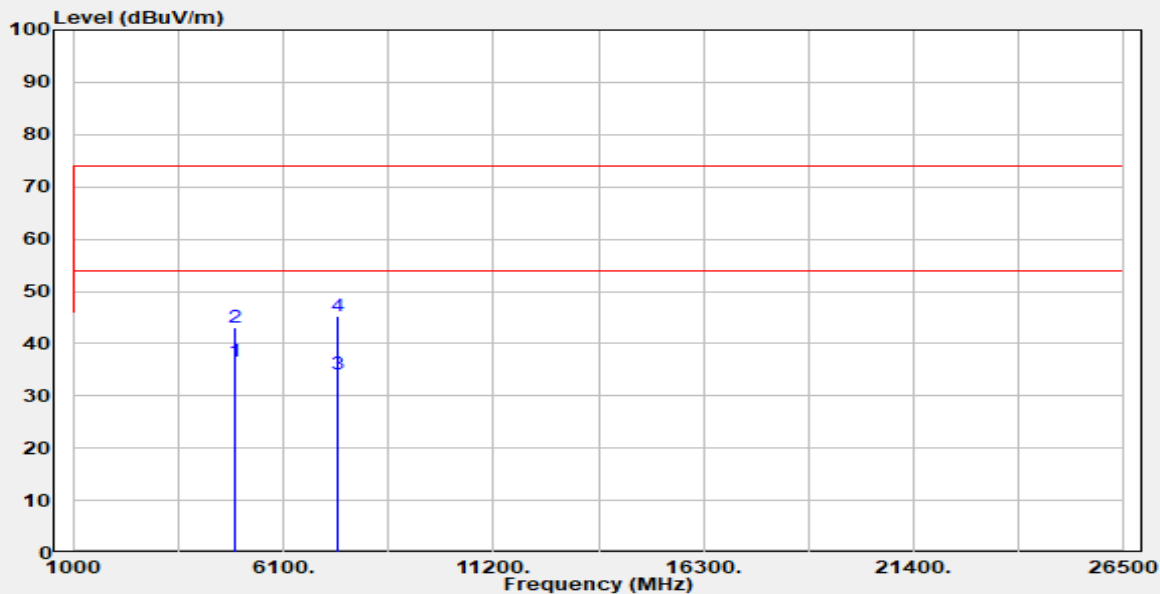
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Report Number :TERF2504001489E2
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	36.29	0.38	36.67	54.00	-17.33
4924.00	Peak	42.69	0.38	43.07	74.00	-30.93
7386.00	Average	27.64	6.44	34.08	54.00	-19.92
7386.00	Peak	38.73	6.44	45.17	74.00	-28.83

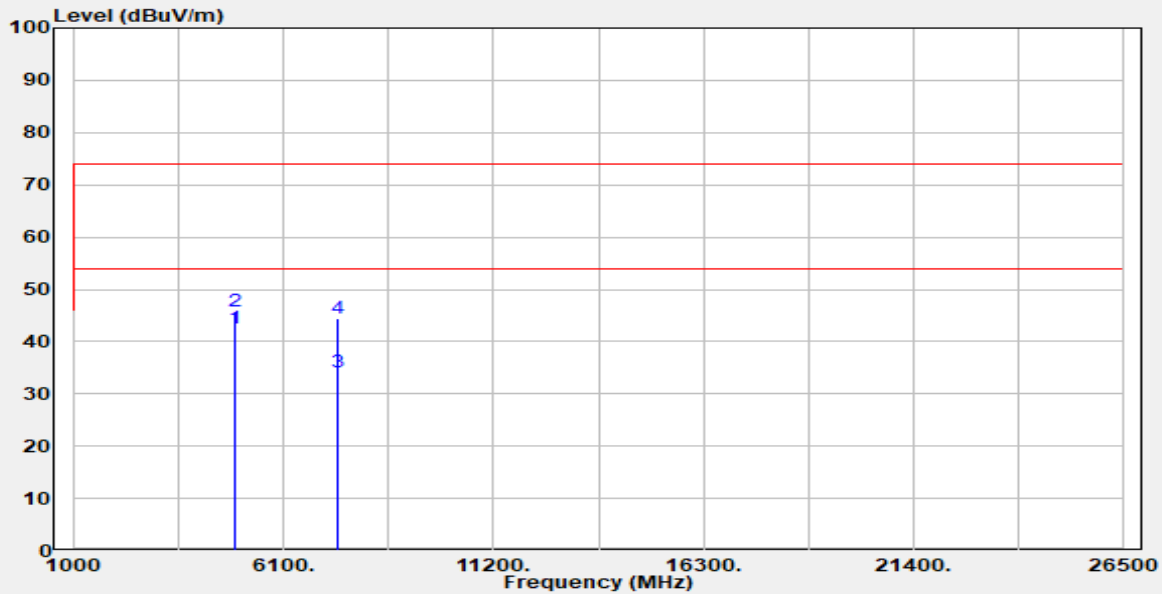
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Report Number :TERF2504001489E2
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Horizontal
Engineer :Alex Li



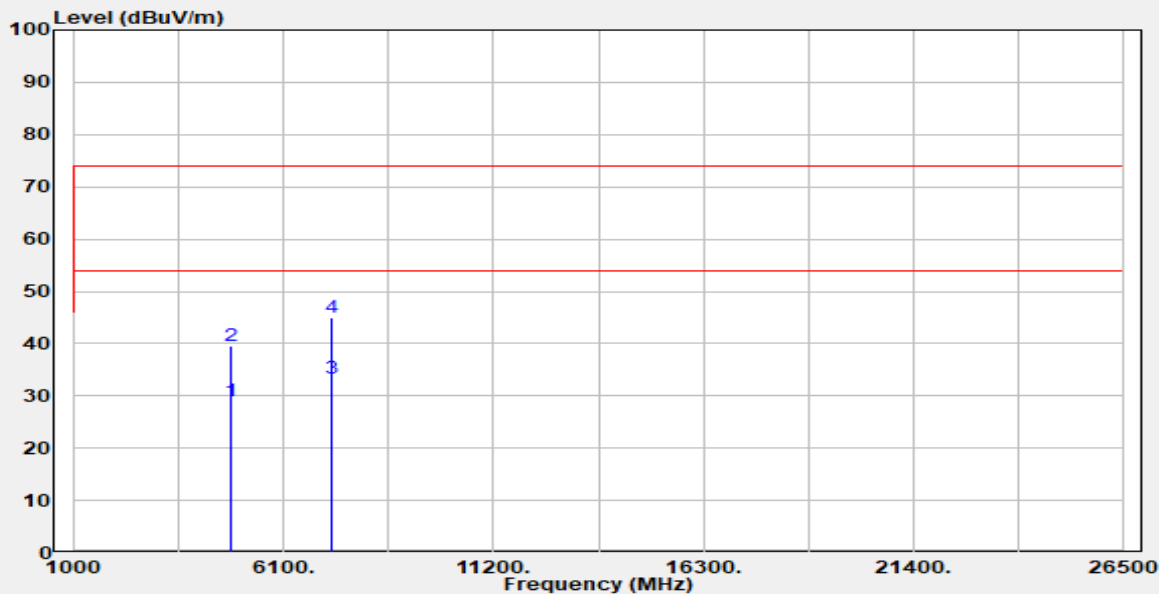
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	42.21	0.38	42.59	54.00	-11.41
4924.00	Peak	45.31	0.38	45.69	74.00	-28.31
7386.00	Average	27.68	6.44	34.12	54.00	-19.88
7386.00	Peak	37.97	6.44	44.41	74.00	-29.59

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Report Number :TERF2504001489E2
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	28.75	0.15	28.90	54.00	-25.10
4824.00	Peak	39.53	0.15	39.68	74.00	-34.32
7236.00	Average	27.03	6.32	33.35	54.00	-20.65
7236.00	Peak	38.71	6.32	45.03	74.00	-28.97

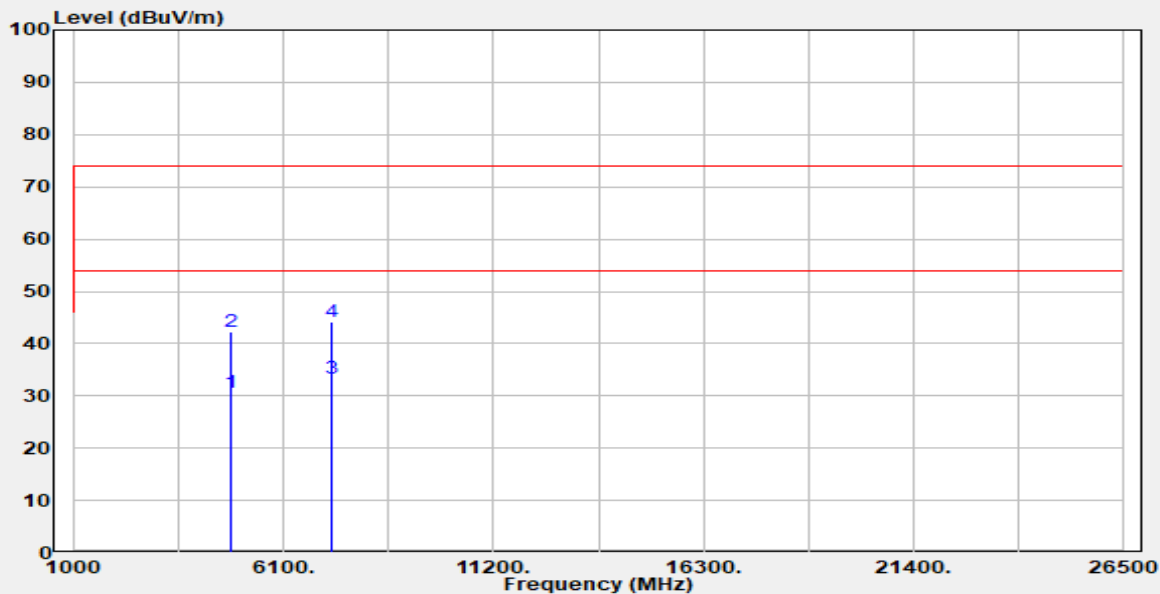
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Report Number :TERF2504001489E2
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	30.58	0.15	30.73	54.00	-23.27
4824.00	Peak	42.18	0.15	42.33	74.00	-31.67
7236.00	Average	26.99	6.32	33.31	54.00	-20.69
7236.00	Peak	37.93	6.32	44.25	74.00	-29.75

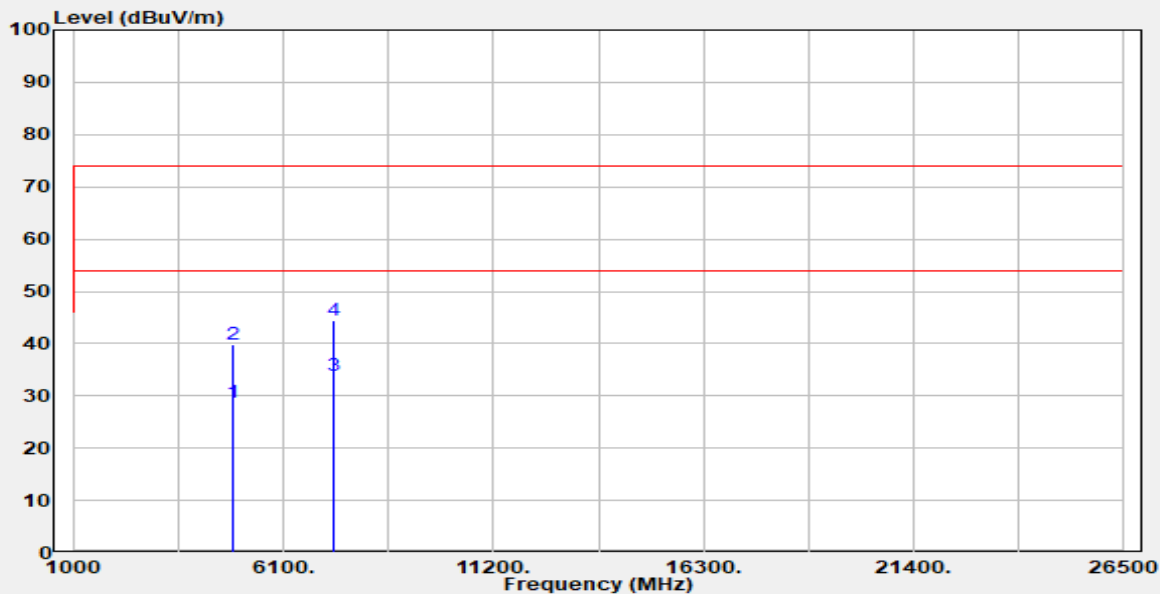
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Report Number :TERF2504001489E2
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	28.35	0.27	28.62	54.00	-25.38
4874.00	Peak	39.64	0.27	39.91	74.00	-34.09
7311.00	Average	27.42	6.55	33.97	54.00	-20.03
7311.00	Peak	37.79	6.55	44.34	74.00	-29.66

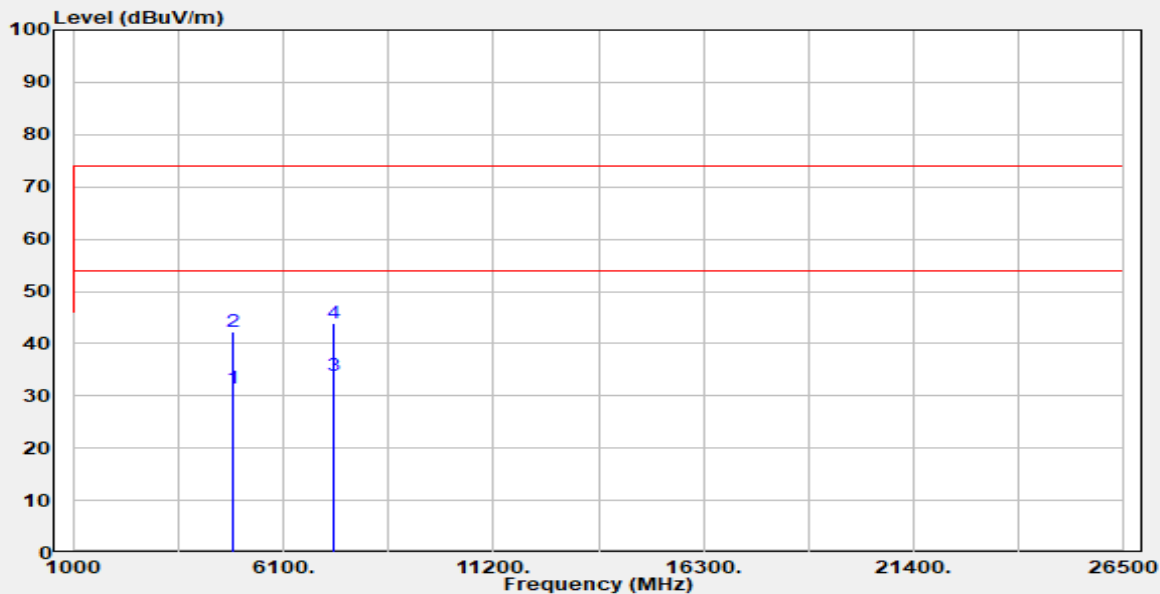
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Report Number :TERF2504001489E2
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	31.27	0.27	31.54	54.00	-22.46
4874.00	Peak	41.95	0.27	42.22	74.00	-31.78
7311.00	Average	27.43	6.55	33.98	54.00	-20.02
7311.00	Peak	37.35	6.55	43.90	74.00	-30.10

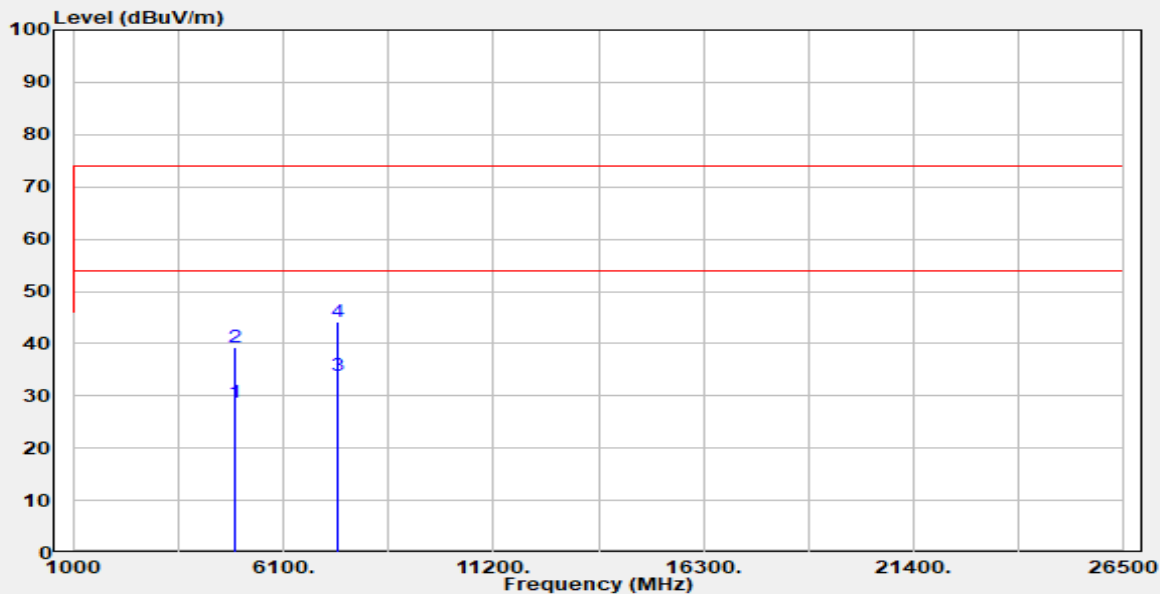
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Report Number :TERF2504001489E2
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	28.23	0.38	28.61	54.00	-25.39
4924.00	Peak	38.85	0.38	39.23	74.00	-34.77
7386.00	Average	27.40	6.44	33.84	54.00	-20.16
7386.00	Peak	37.83	6.44	44.27	74.00	-29.73

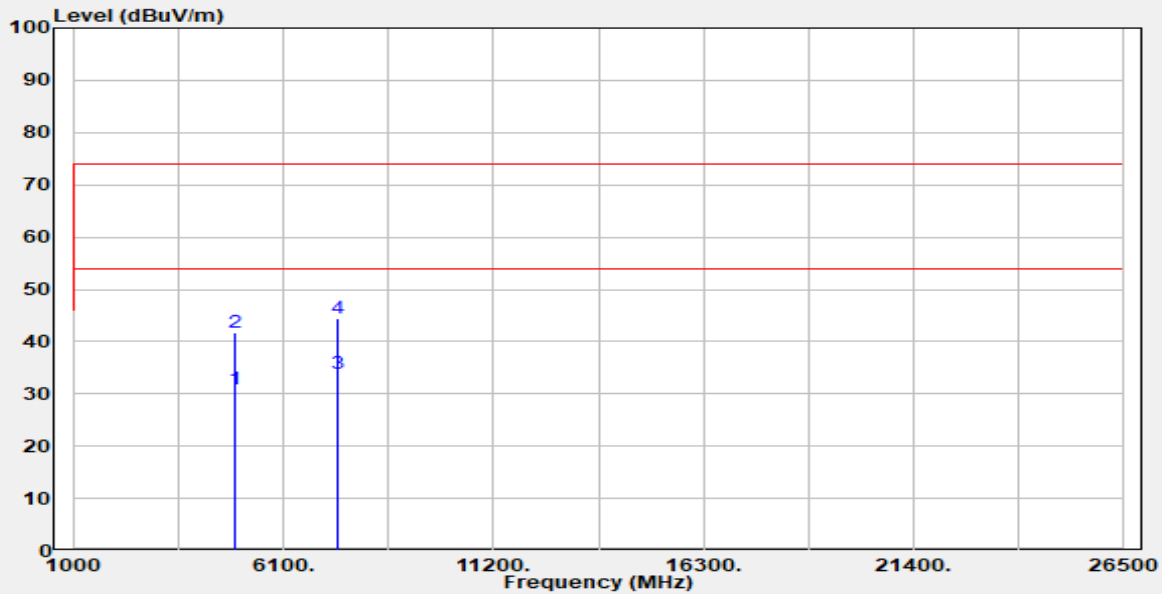
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Report Number :TERF2504001489E2
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Horizontal
Engineer :Alex Li



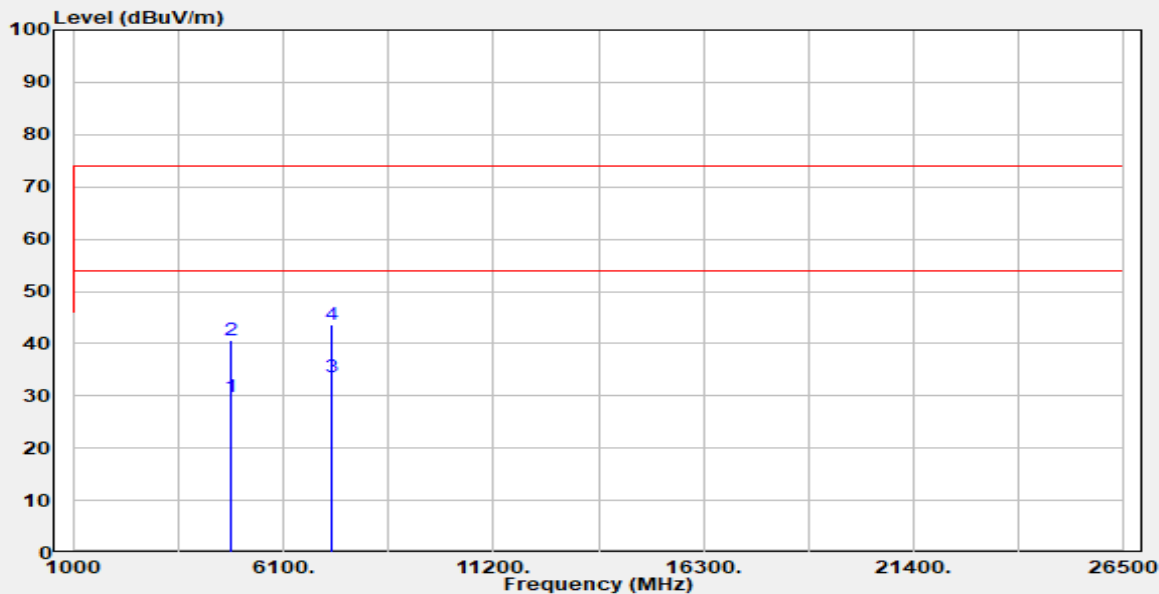
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	30.55	0.38	30.93	54.00	-23.07
4924.00	Peak	41.43	0.38	41.81	74.00	-32.19
7386.00	Average	27.32	6.44	33.76	54.00	-20.24
7386.00	Peak	37.97	6.44	44.41	74.00	-29.59

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Report Number :TERF2504001489E2
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	29.55	0.15	29.70	54.00	-24.30
4824.00	Peak	40.40	0.15	40.55	74.00	-33.45
7236.00	Average	27.35	6.32	33.67	54.00	-20.33
7236.00	Peak	37.39	6.32	43.71	74.00	-30.29

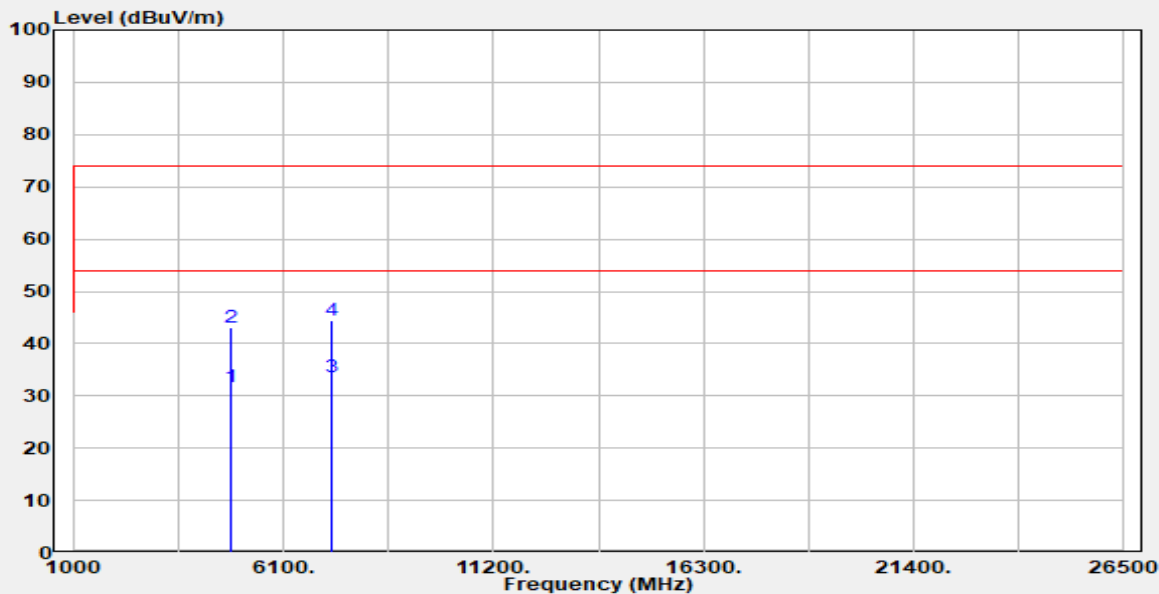
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Report Number :TERF2504001489E2
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	Average	31.56	0.15	31.71	54.00	-22.29
4824.00	Peak	42.92	0.15	43.07	74.00	-30.93
7236.00	Average	27.37	6.32	33.69	54.00	-20.31
7236.00	Peak	38.20	6.32	44.52	74.00	-29.48

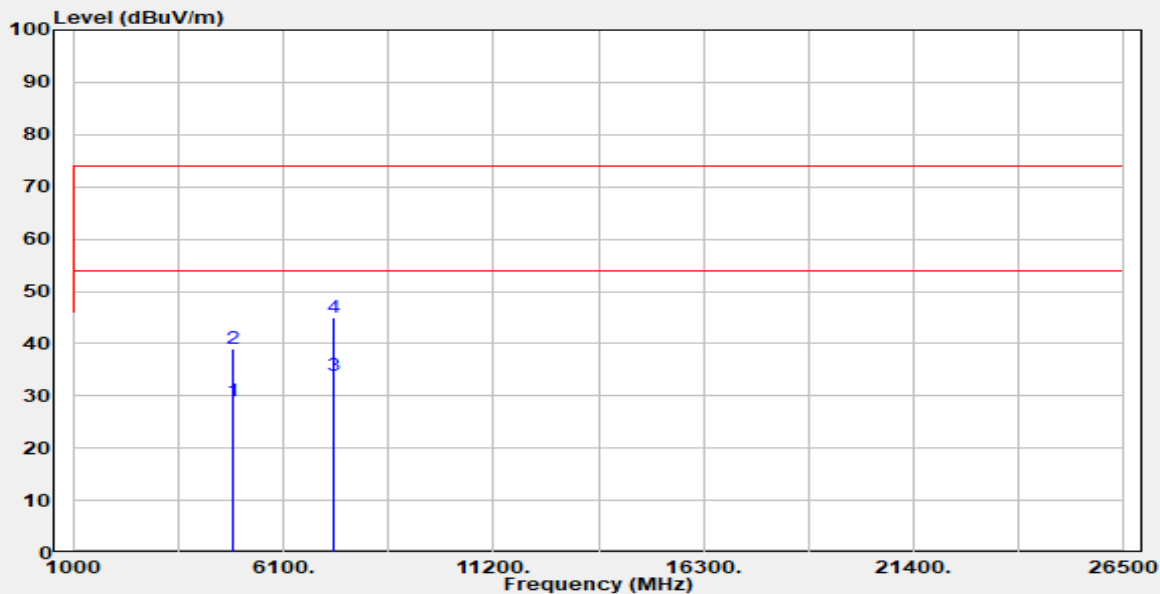
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Report Number :TERF2504001489E2
Operation Mode :802.11n20
Test Frequency :2437 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	28.60	0.27	28.87	54.00	-25.13
4874.00	Peak	38.83	0.27	39.10	74.00	-34.90
7311.00	Average	27.29	6.55	33.84	54.00	-20.16
7311.00	Peak	38.41	6.55	44.96	74.00	-29.04

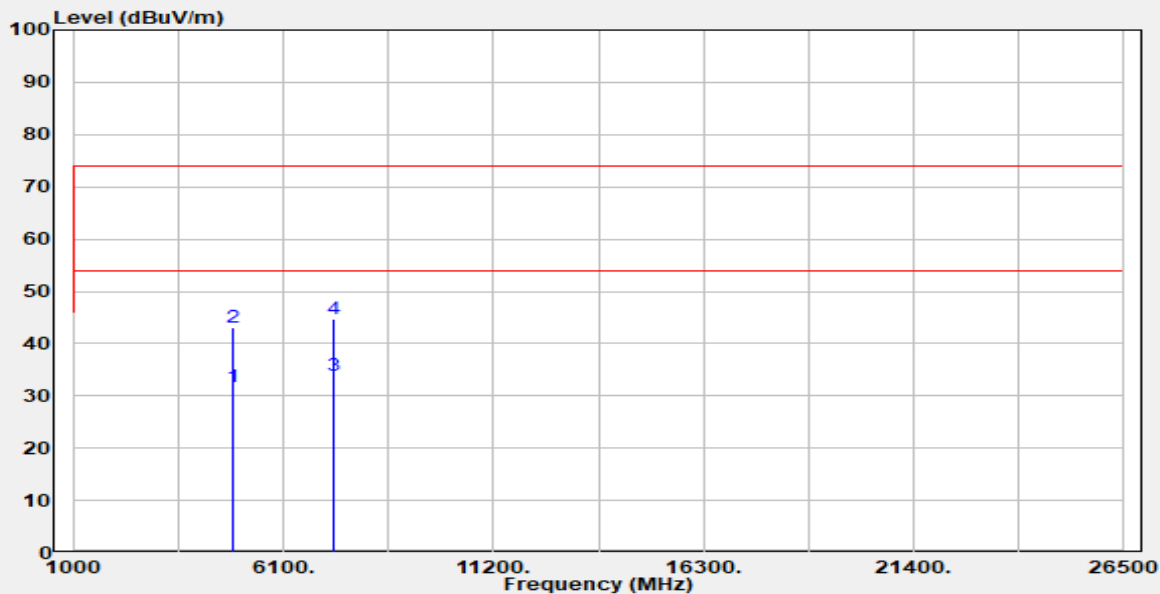
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Report Number :TERF2504001489E2
Operation Mode :802.11n20
Test Frequency :2437 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	31.53	0.27	31.80	54.00	-22.20
4874.00	Peak	42.75	0.27	43.02	74.00	-30.98
7311.00	Average	27.28	6.55	33.83	54.00	-20.17
7311.00	Peak	38.04	6.55	44.59	74.00	-29.41

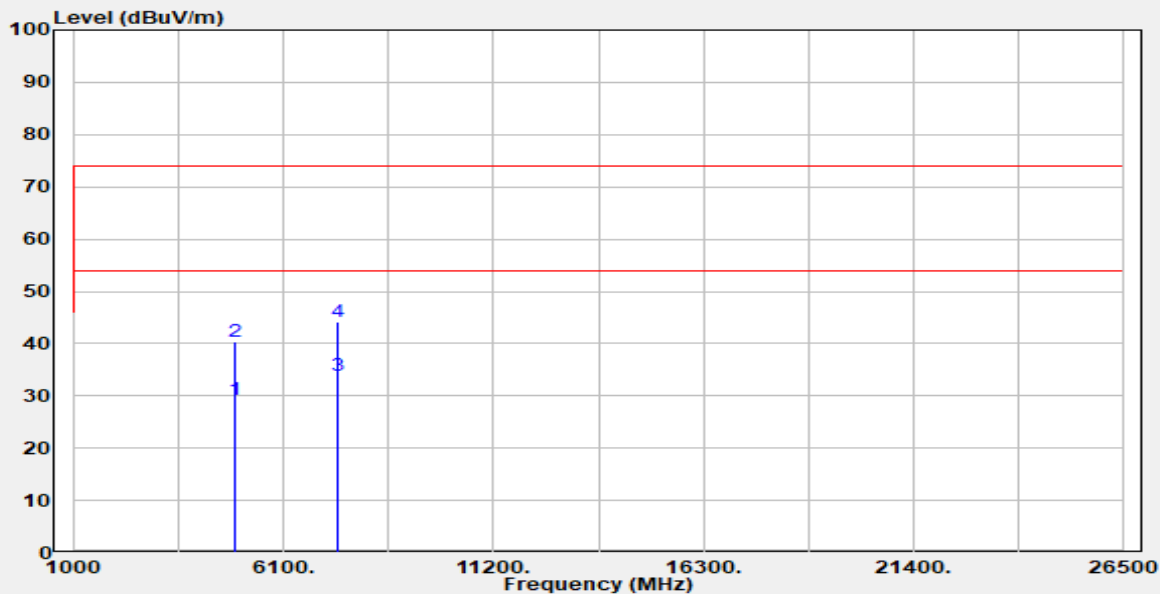
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Report Number :TERF2504001489E2
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	29.02	0.38	29.40	54.00	-24.60
4924.00	Peak	39.88	0.38	40.26	74.00	-33.74
7386.00	Average	27.37	6.44	33.81	54.00	-20.19
7386.00	Peak	37.63	6.44	44.07	74.00	-29.93

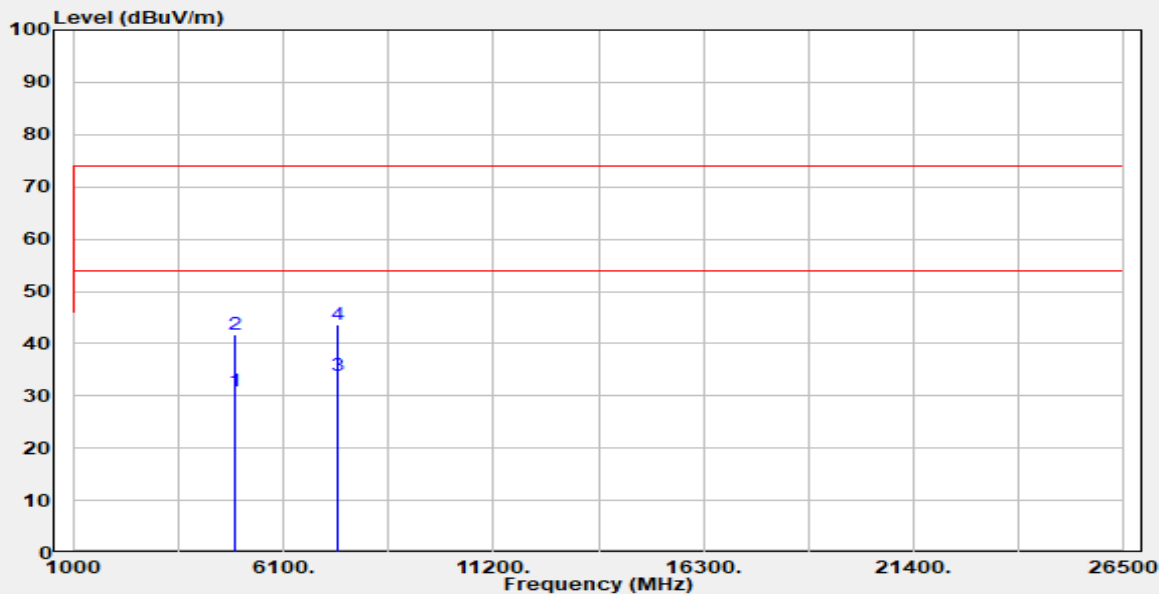
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Report Number :TERF2504001489E2
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	30.59	0.38	30.97	54.00	-23.03
4924.00	Peak	41.30	0.38	41.68	74.00	-32.32
7386.00	Average	27.35	6.44	33.79	54.00	-20.21
7386.00	Peak	37.22	6.44	43.66	74.00	-30.34

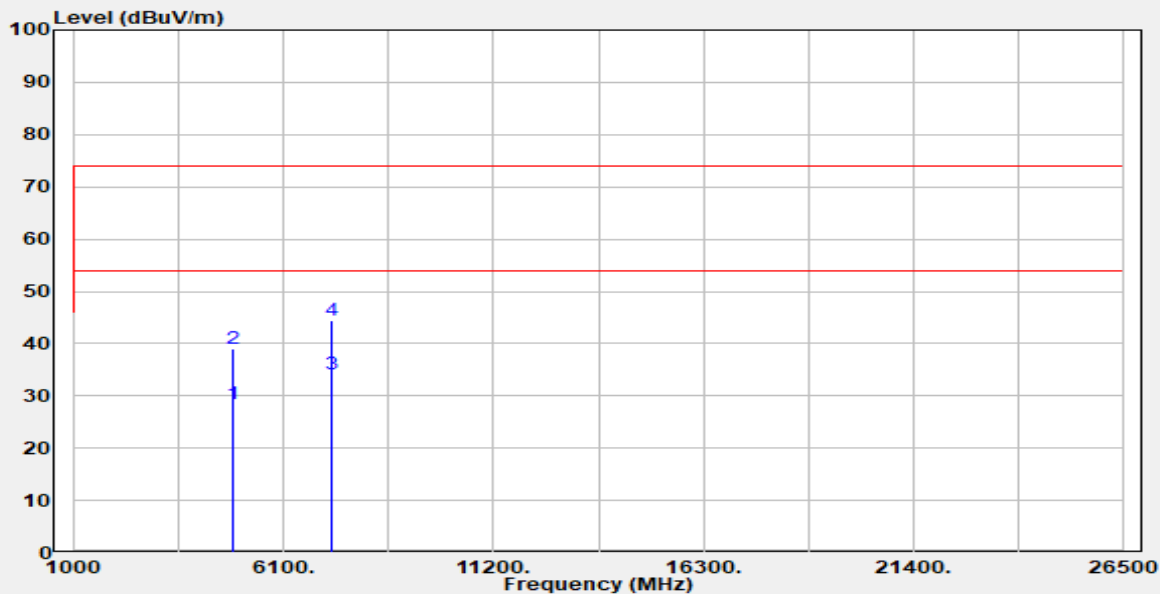
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Report Number :TERF2504001489E2
Operation Mode :802.11n40
Test Frequency :2422 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.00	Average	28.29	0.19	28.48	54.00	-25.52
4844.00	Peak	38.81	0.19	39.00	74.00	-35.00
7266.00	Average	27.66	6.40	34.06	54.00	-19.94
7266.00	Peak	38.11	6.40	44.51	74.00	-29.49

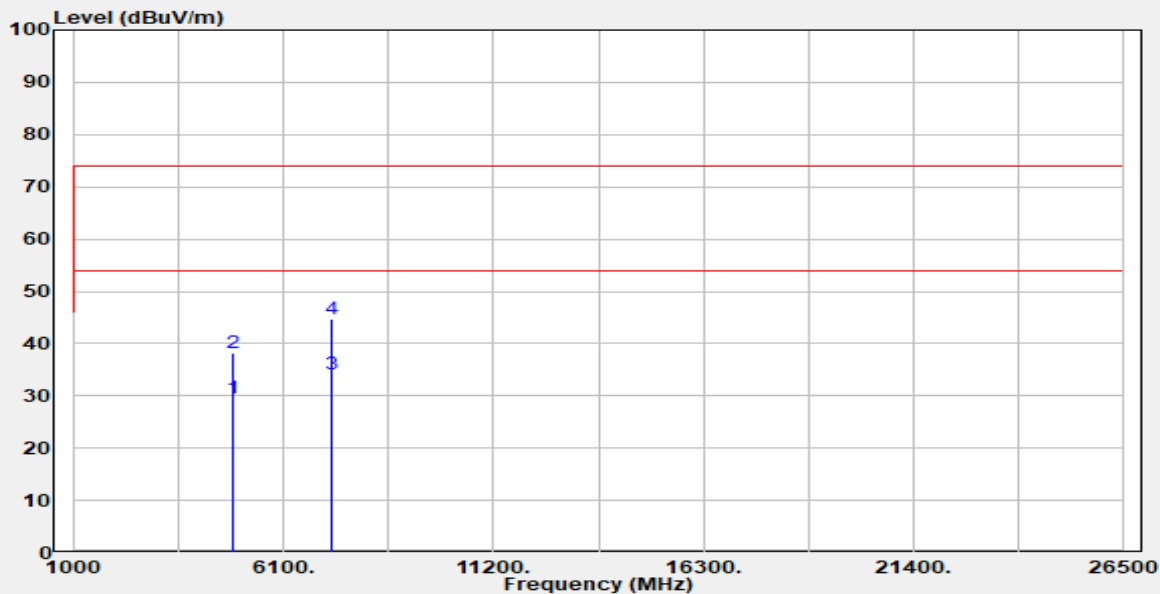
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Report Number :TERF2504001489E2
Operation Mode :802.11n40
Test Frequency :2422 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.00	Average	29.28	0.19	29.47	54.00	-24.53
4844.00	Peak	38.04	0.19	38.23	74.00	-35.77
7266.00	Average	27.78	6.40	34.18	54.00	-19.82
7266.00	Peak	38.32	6.40	44.72	74.00	-29.28

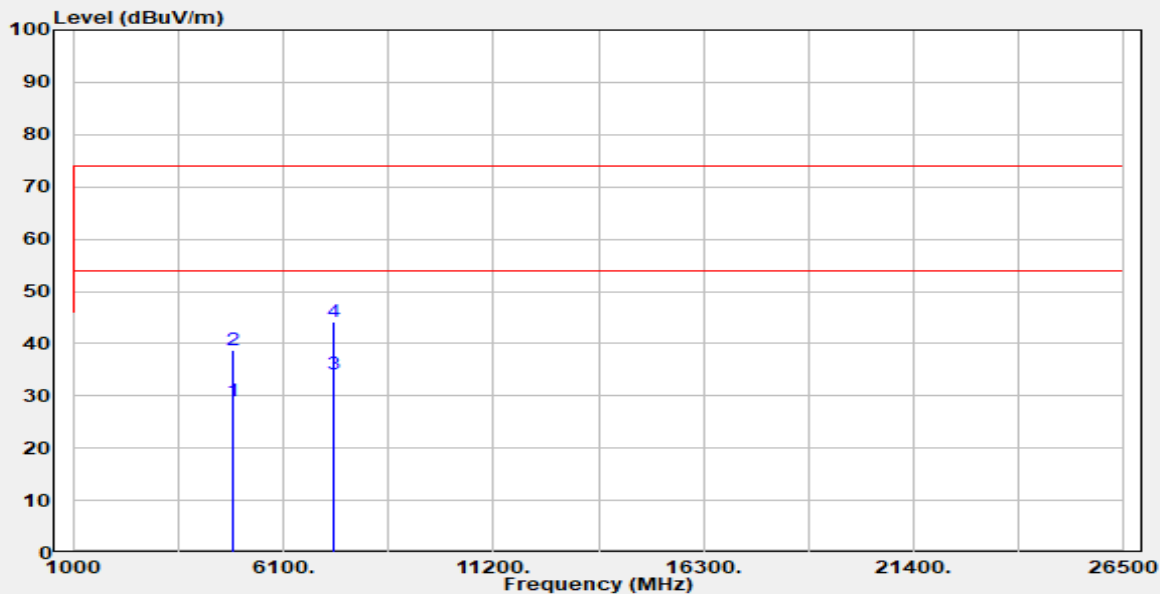
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Report Number :TERF2504001489E2
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	28.62	0.27	28.89	54.00	-25.11
4874.00	Peak	38.59	0.27	38.86	74.00	-35.14
7311.00	Average	27.60	6.55	34.15	54.00	-19.85
7311.00	Peak	37.71	6.55	44.26	74.00	-29.74

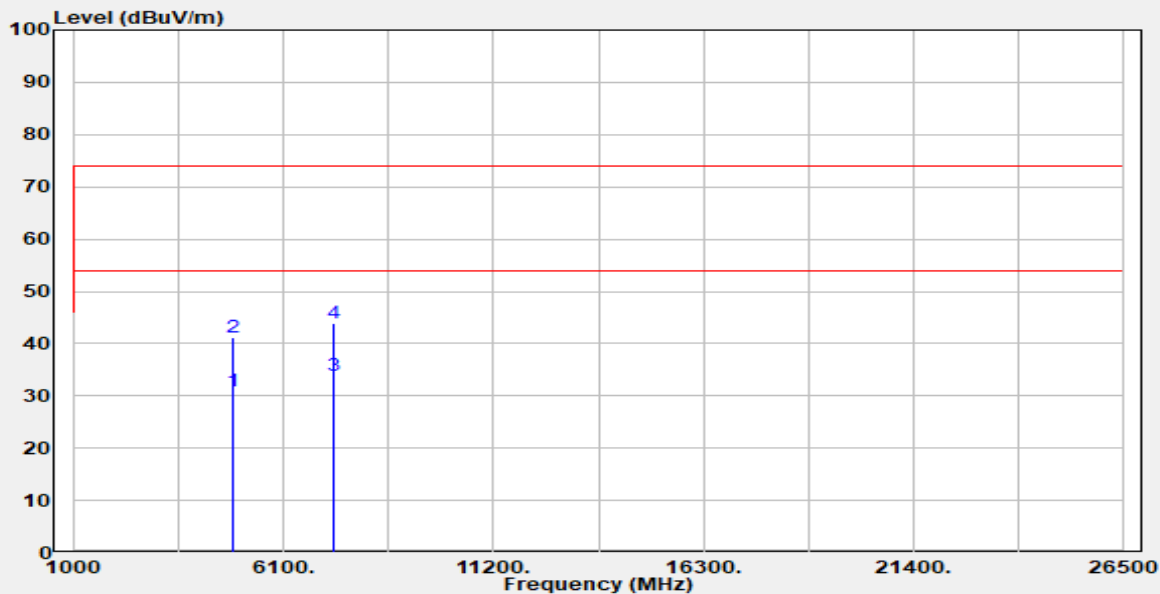
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Report Number :TERF2504001489E2
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	30.70	0.27	30.97	54.00	-23.03
4874.00	Peak	40.85	0.27	41.12	74.00	-32.88
7311.00	Average	27.41	6.55	33.96	54.00	-20.04
7311.00	Peak	37.36	6.55	43.91	74.00	-30.09

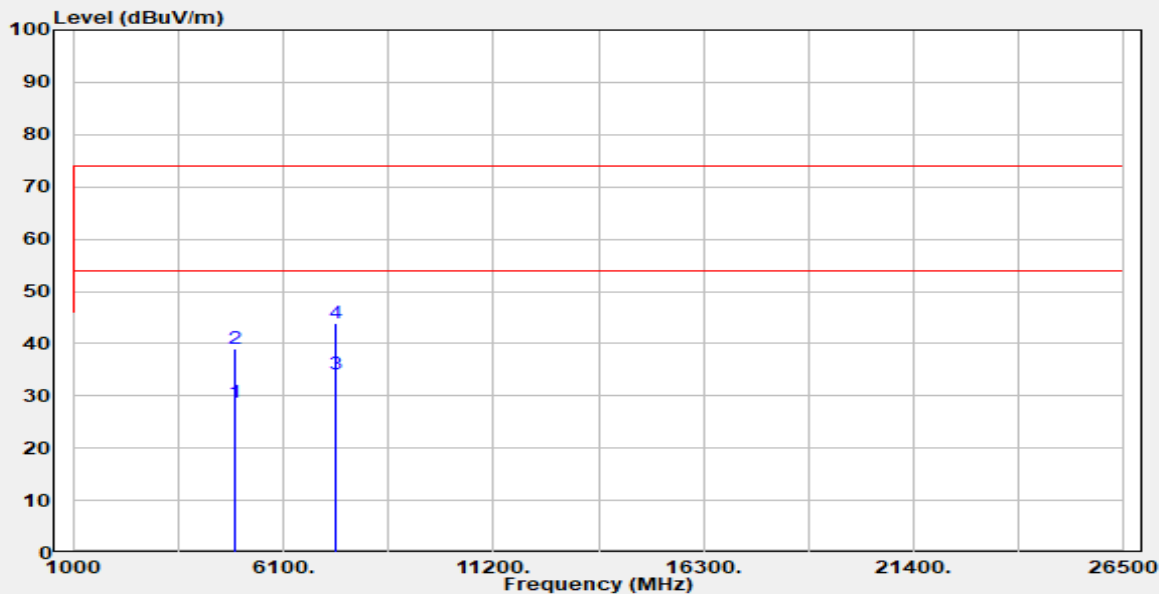
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Report Number :TERF2504001489E2
Operation Mode :802.11n40
Test Frequency :2452 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Vertical
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	Average	28.46	0.33	28.79	54.00	-25.21
4904.00	Peak	38.64	0.33	38.97	74.00	-35.03
7356.00	Average	27.55	6.55	34.10	54.00	-19.90
7356.00	Peak	37.41	6.55	43.96	74.00	-30.04

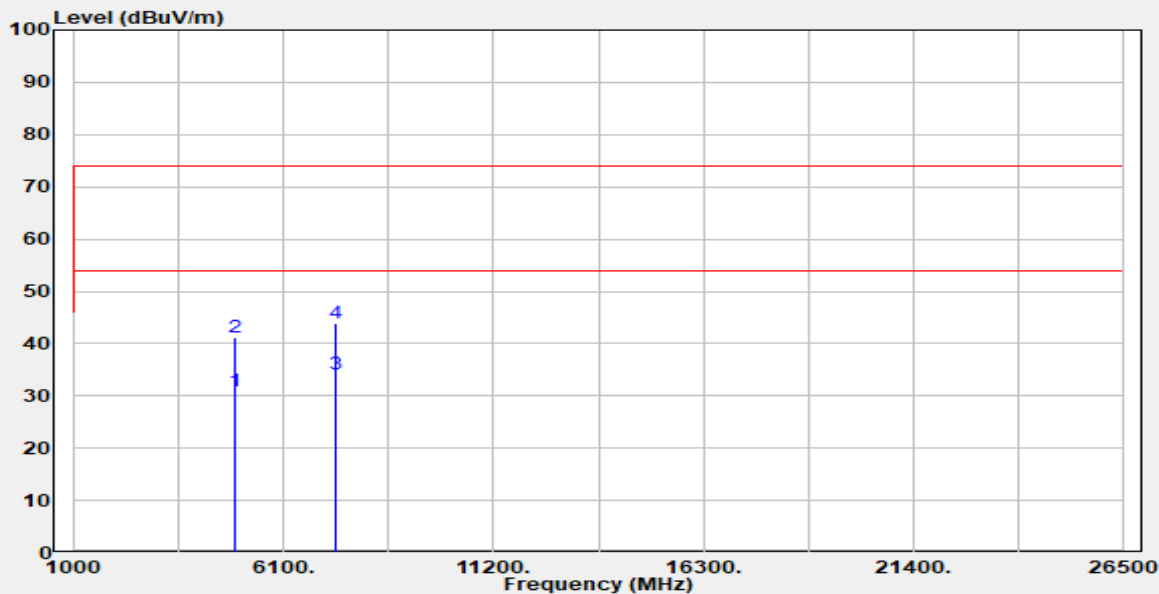
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Report Number :TERF2504001489E2
Operation Mode :802.11n40
Test Frequency :2452 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-05-27
Temp./Humi. :21.6°C/69%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4904.00	Average	30.60	0.33	30.93	54.00	-23.07
4904.00	Peak	40.85	0.33	41.18	74.00	-32.82
7356.00	Average	27.47	6.55	34.02	54.00	-19.98
7356.00	Peak	37.41	6.55	43.96	74.00	-30.04

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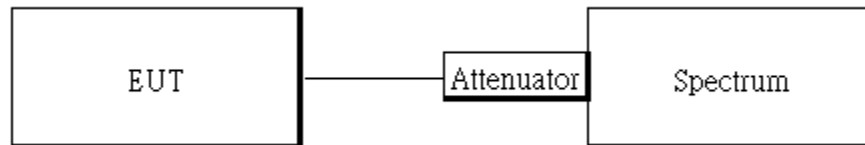
12 POWER SPECTRAL DENSITY

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	-4.21	-4.21	8.00	PASS
2437	-7.17	-7.17	8.00	PASS
2462	-5.04	-5.04	8.00	PASS

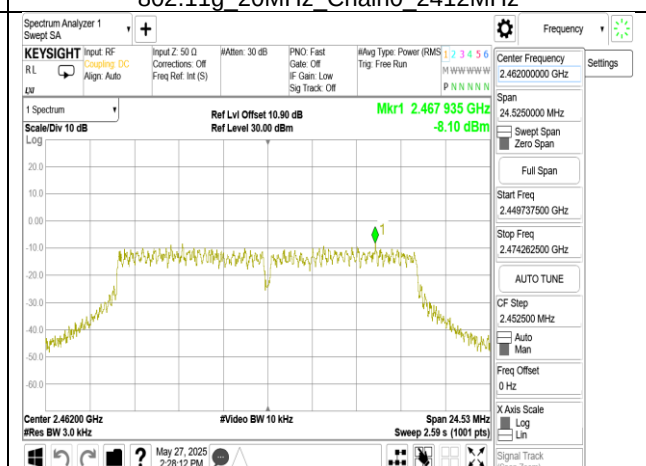
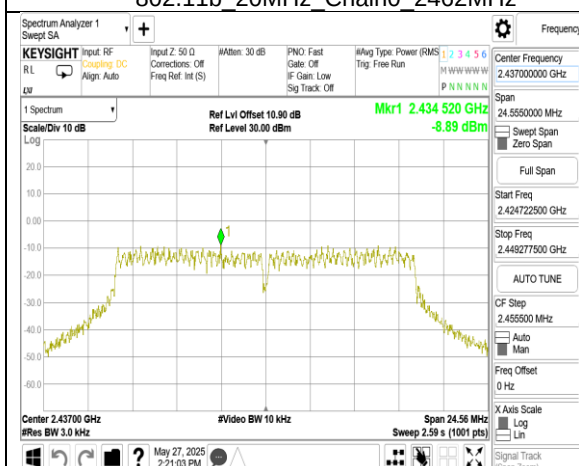
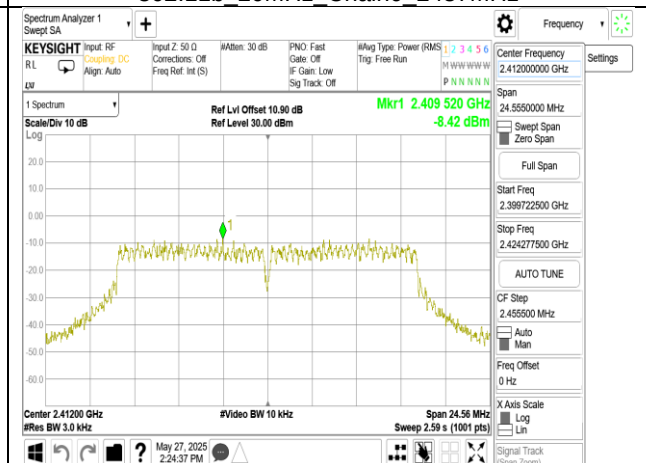
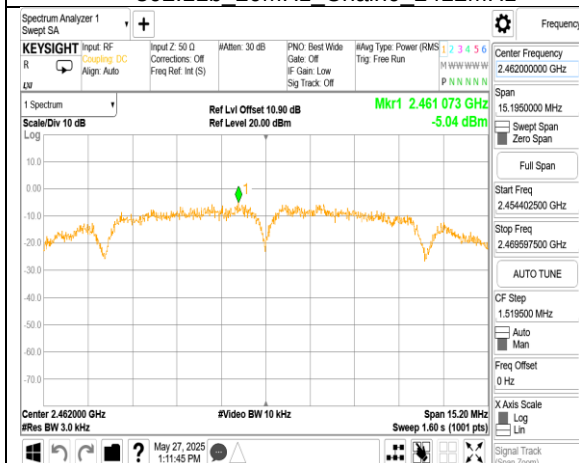
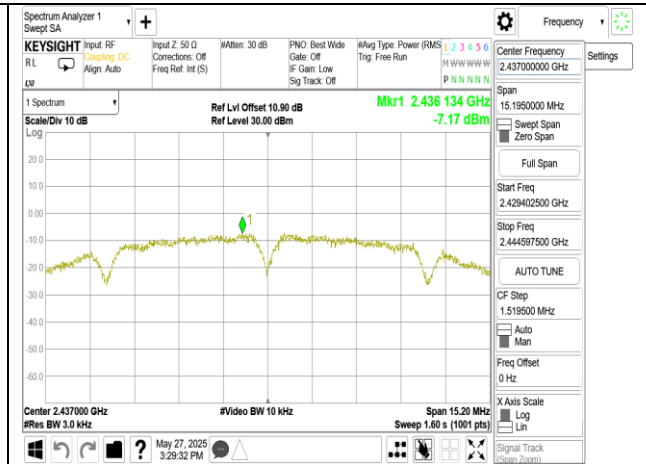
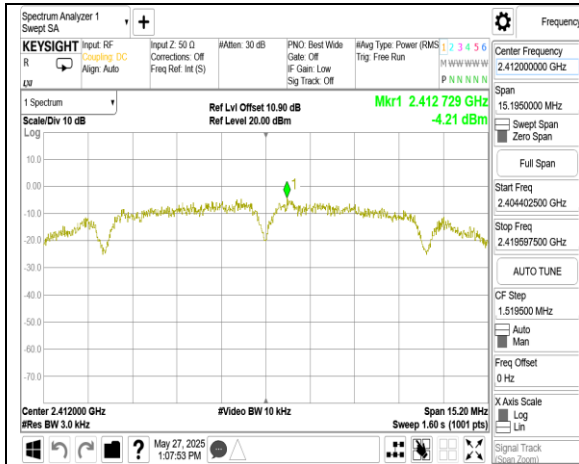
POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-8.42	-8.42	8.00	PASS
2437	-8.89	-8.89	8.00	PASS
2462	-8.1	-8.10	8.00	PASS

POWER DENSITY 802.11n HT20				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-9.6	-9.60	8.00	PASS
2437	-10.08	-10.08	8.00	PASS
2462	-14.95	-14.95	8.00	PASS

POWER DENSITY 802.11n HT40				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-12.1	-12.10	8.00	PASS
2437	-17.09	-17.09	8.00	PASS
2452	-12.11	-12.11	8.00	PASS

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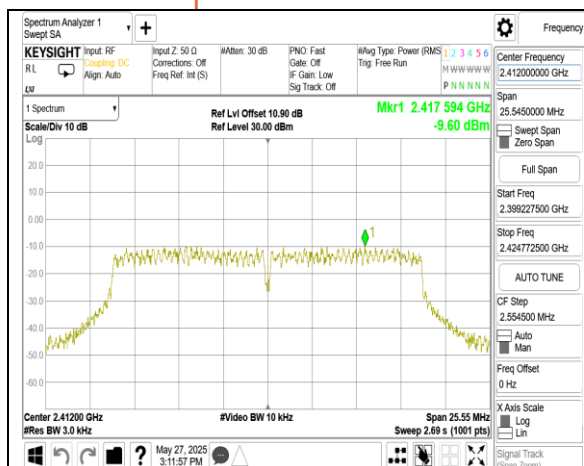
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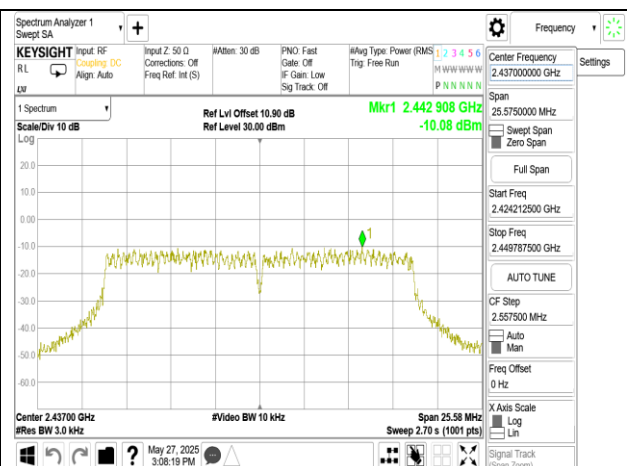
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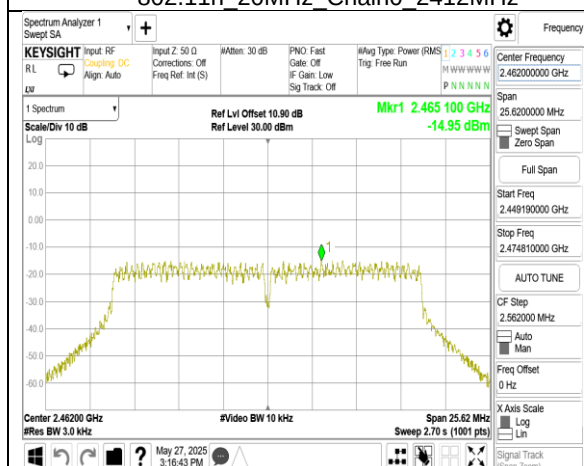
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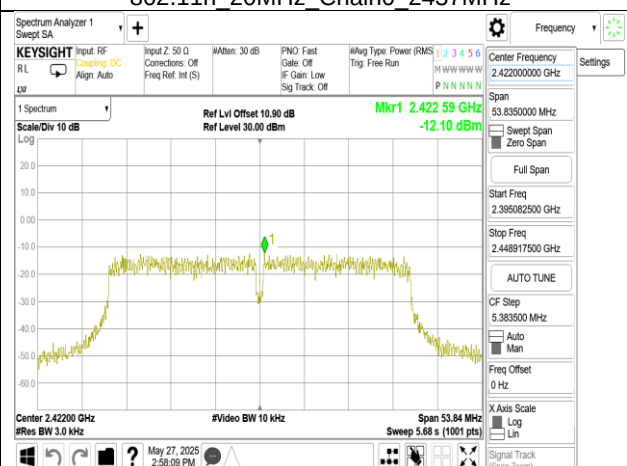
802.11n 20MHz Chain0 2412MHz



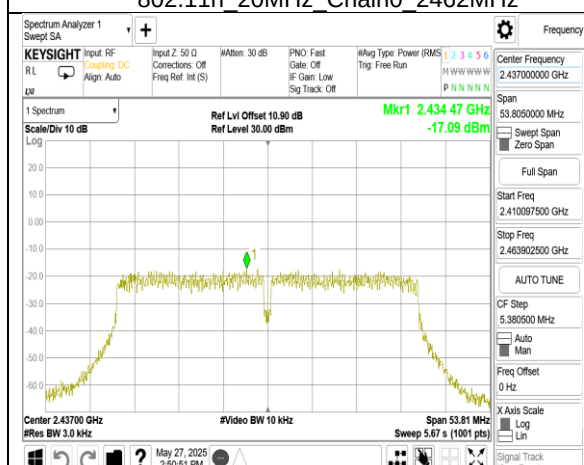
802.11n 20MHz Chain0 2437MHz



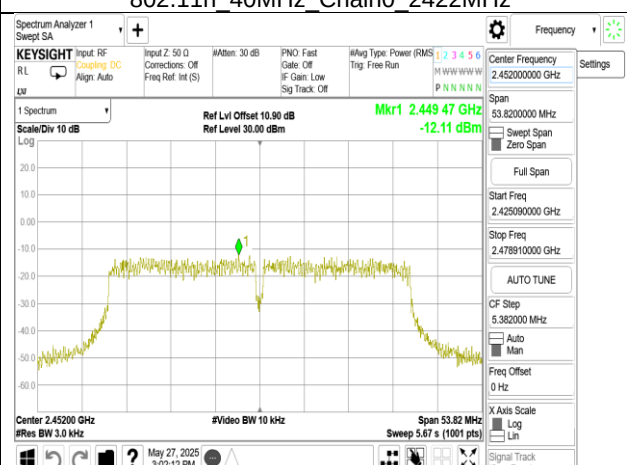
802.11n 20MHz Chain0 2462MHz



802.11n 40MHz Chain0 2422MHz



802.11n 40MHz Chain0 2437MHz



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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