

Band Edge

802.11b 20MHz Chain0 2412MHz



802.11g 20MHz Chain0 2462MHz



802.11b 20MHz Chain0 2462MHz



802.11n 20MHz Chain0 2412MHz



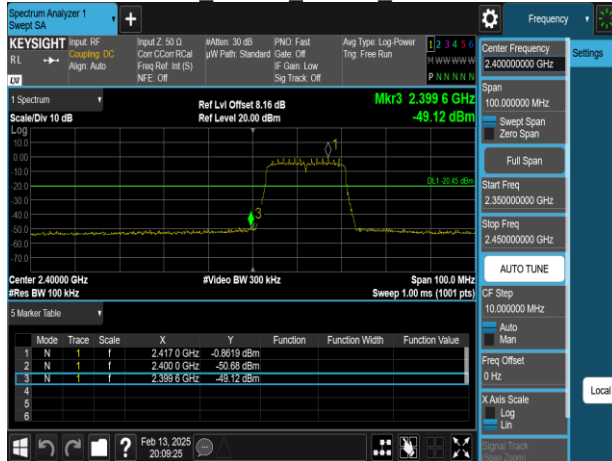
802.11g 20MHz Chain0 2412MHz



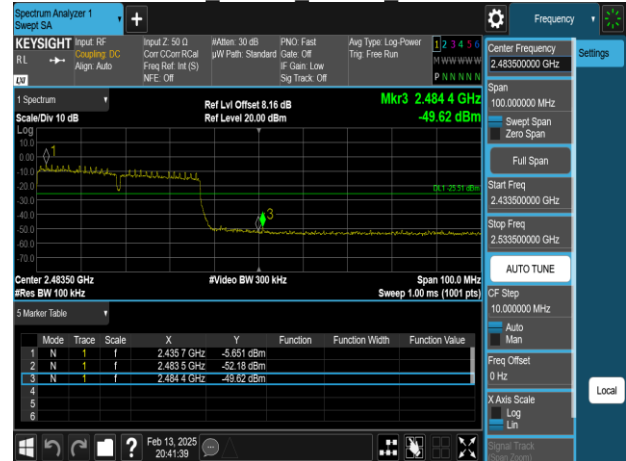
802.11n 20MHz Chain0 2462MHz



802.11n 20MHz Chain1 2412MHz



802.11n 40MHz Chain0 2452MHz



802.11n 20MHz Chain1 2462MHz



802.11n 40MHz Chain1 2422MHz



802.11n 40MHz Chain0 2422MHz



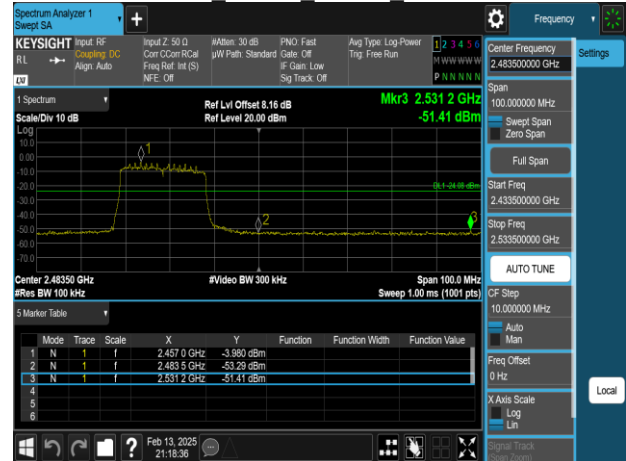
802.11n 40MHz Chain1 2452MHz



802.11ax 20MHz Chain0 2412MHz



802.11ax 20MHz Chain1 2462MHz



802.11ax 20MHz Chain0 2462MHz



802.11ax 40MHz Chain0 2422MHz



802.11ax 20MHz Chain1 2412MHz



802.11ax 40MHz Chain0 2452MHz



802.11ax 40MHz Chain1 2422MHz



802.11ax 40MHz Chain1 2452MHz

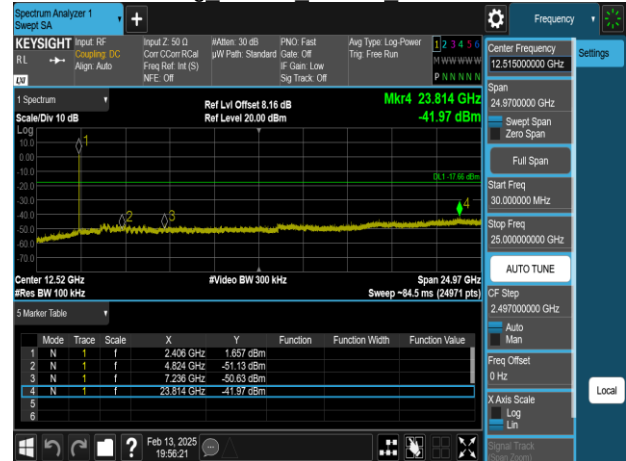


Spurious Emission

802.11b 20MHz Chain0 2412MHz



802.11g 20MHz Chain0 2412MHz



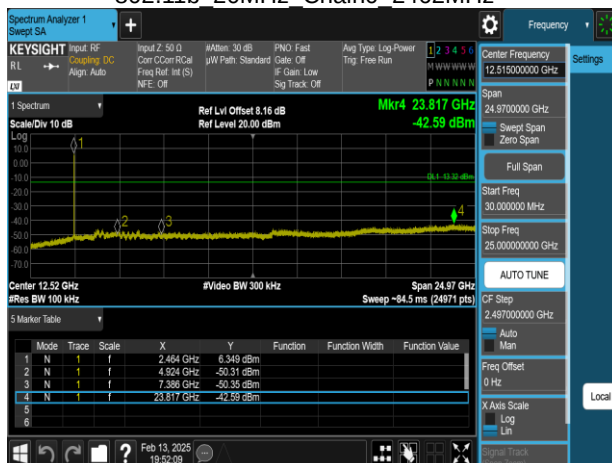
802.11b 20MHz Chain0 2437MHz



802.11g 20MHz Chain0 2437MHz



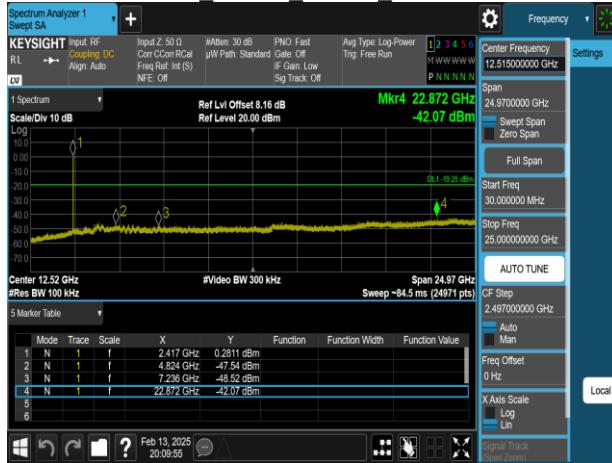
802.11b 20MHz Chain0 2462MHz



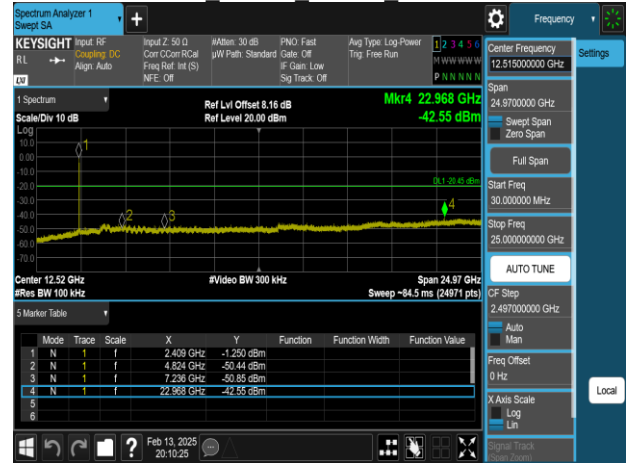
802.11g 20MHz Chain0 2462MHz



802.11n 20MHz Chain0 2412MHz



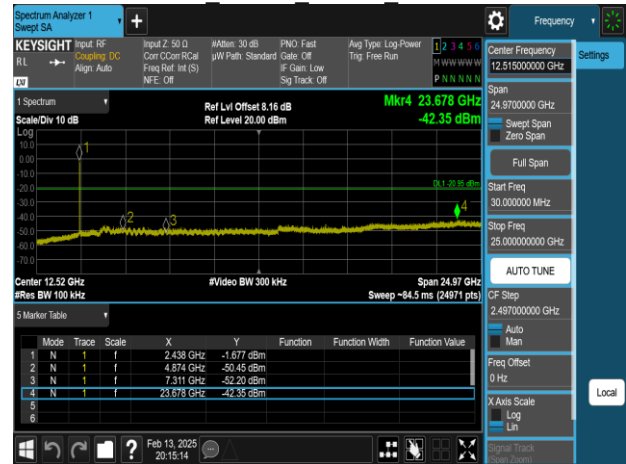
802.11n 20MHz Chain1 2412MHz



802.11n 20MHz Chain0 2437MHz



802.11n 20MHz Chain1 2437MHz



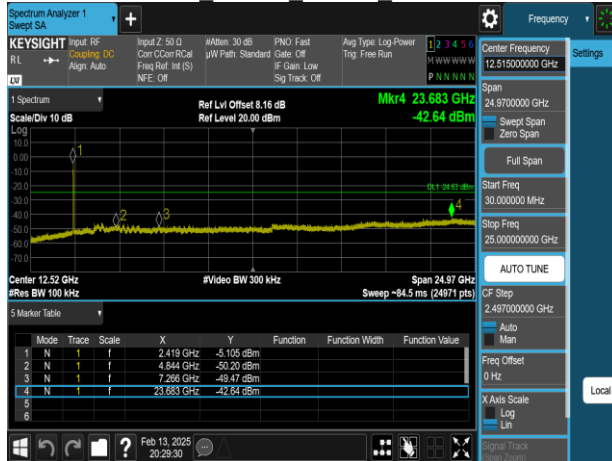
802.11n 20MHz Chain0 2462MHz



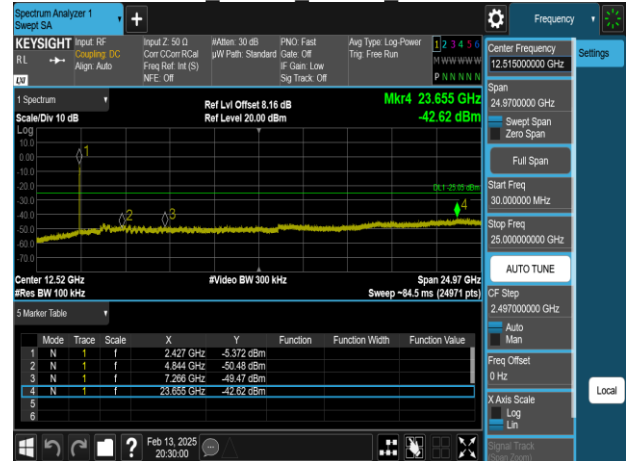
802.11n 20MHz Chain1 2462MHz



802.11n 40MHz Chain0 2422MHz



802.11n 40MHz Chain1 2422MHz



802.11n 40MHz Chain0 2437MHz



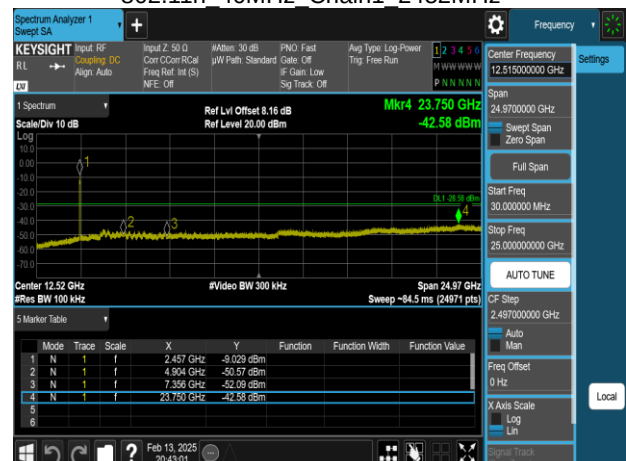
802.11n 40MHz Chain1 2437MHz



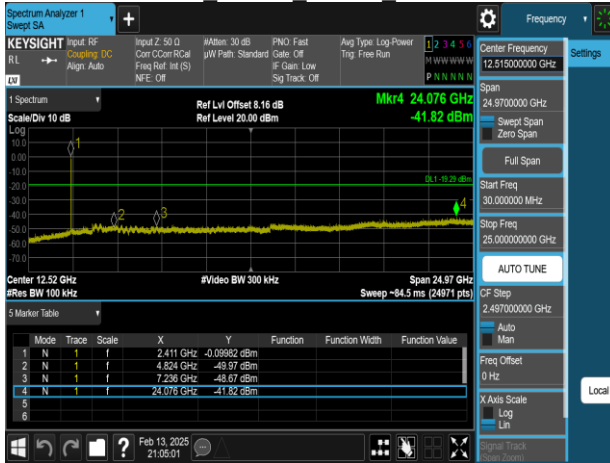
802.11n 40MHz Chain0 2452MHz



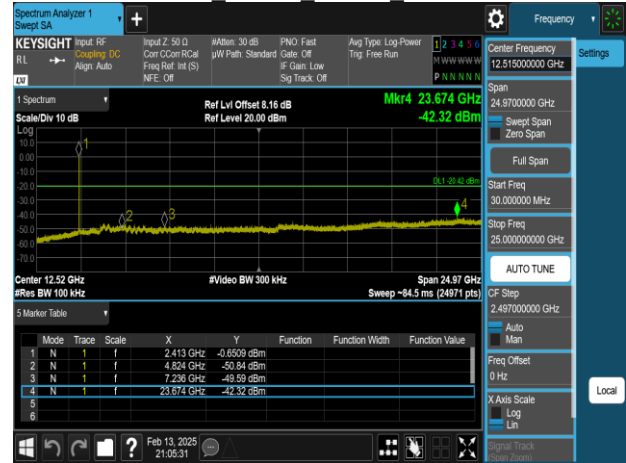
802.11n 40MHz Chain1 2452MHz



802.11ax 20MHz Chain0 2412MHz



802.11ax 20MHz Chain1 2412MHz



802.11ax 20MHz Chain0 2437MHz



802.11ax 20MHz Chain1 2437MHz



802.11ax 20MHz Chain0 2462MHz



802.11ax 20MHz Chain1 2462MHz



802.11ax 40MHz Chain0 2422MHz



802.11ax 40MHz Chain1 2422MHz



802.11ax 40MHz Chain0 2437MHz



802.11ax 40MHz Chain1 2437MHz



802.11ax 40MHz Chain0 2452MHz



802.11ax 40MHz Chain1 2452MHz



4.6 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.6.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

4.6.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.
3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.
4. No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz).

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-ane choic chamber, the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

5. The SA setting following :

(1) Below 30MHz :

(1.1) 9KHz-490KHz : RBW=200Hz / VBW=1kHz / Sweep=AUTO

(1.2) 490KHz-30MHz : RBW=10kHz / VBW=30kHz / Sweep=AUTO

(2) 30MHz to 1GHz : RBW = 100kHz, VBW $\geq 3 \times$ RBW, Sweep = Auto,

Detector = Peak, Trace = Max hold.

(3) Above 1GHz :

(3.1) For Peak measurement : RBW = 1MHz, VBW $\geq 3 \times$ RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(3.2) For Average measurement : RBW = 1MHz, VBW

·If Duty Cycle $\geq 98\%$, VBW=10Hz.

·If Duty Cycle $< 98\%$, VBW=1/T.

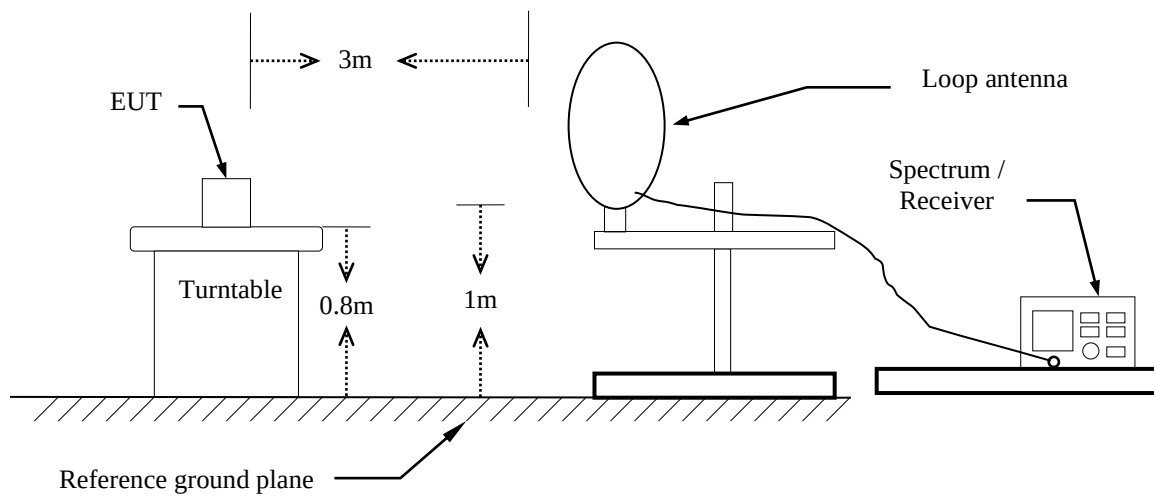
6. Data result :

Actual FS=Spectrum Reading Level + Factor

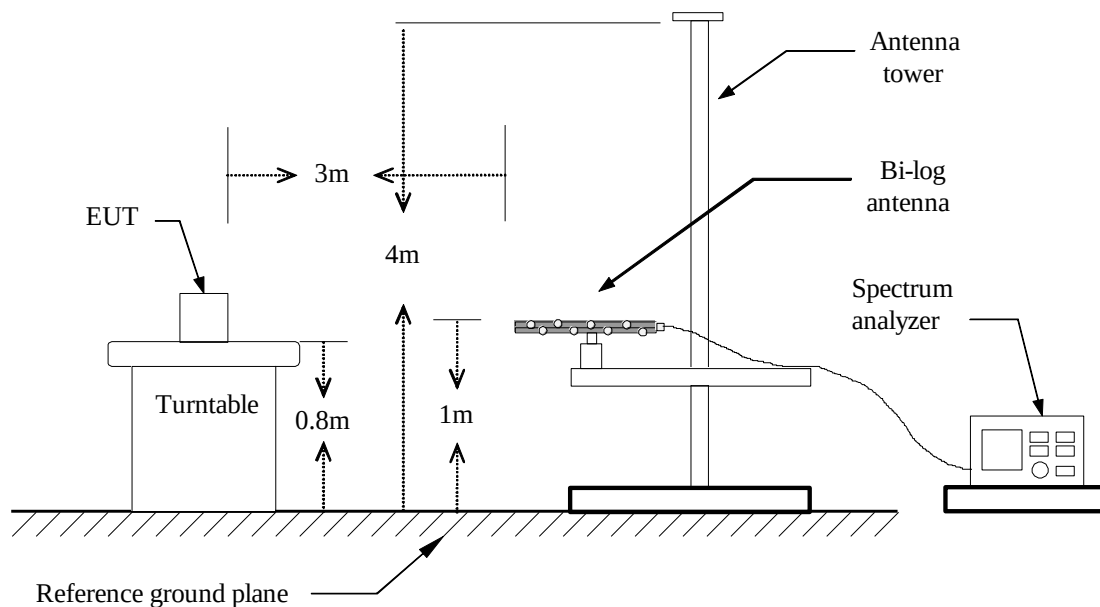
Margin=Actual FS- Limit

4.6.3 Test Setup

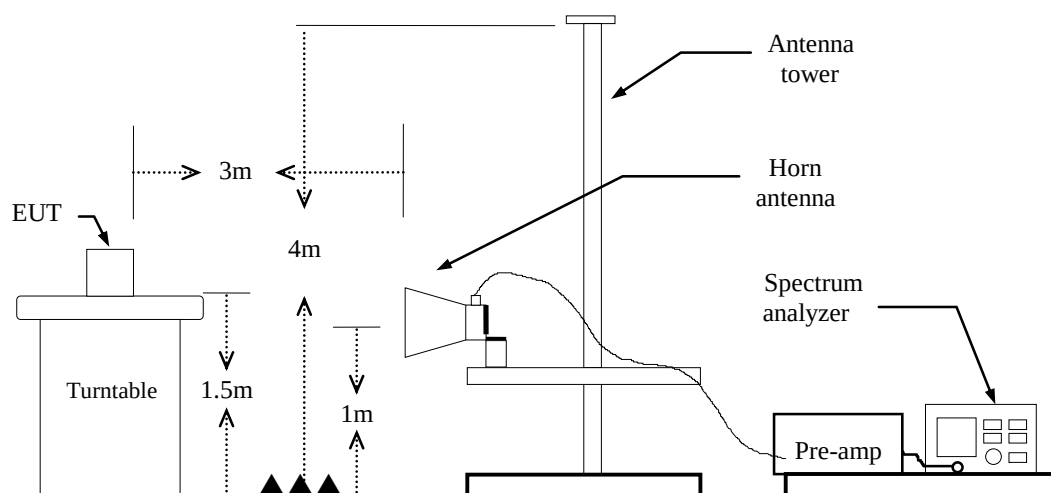
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1 GHz

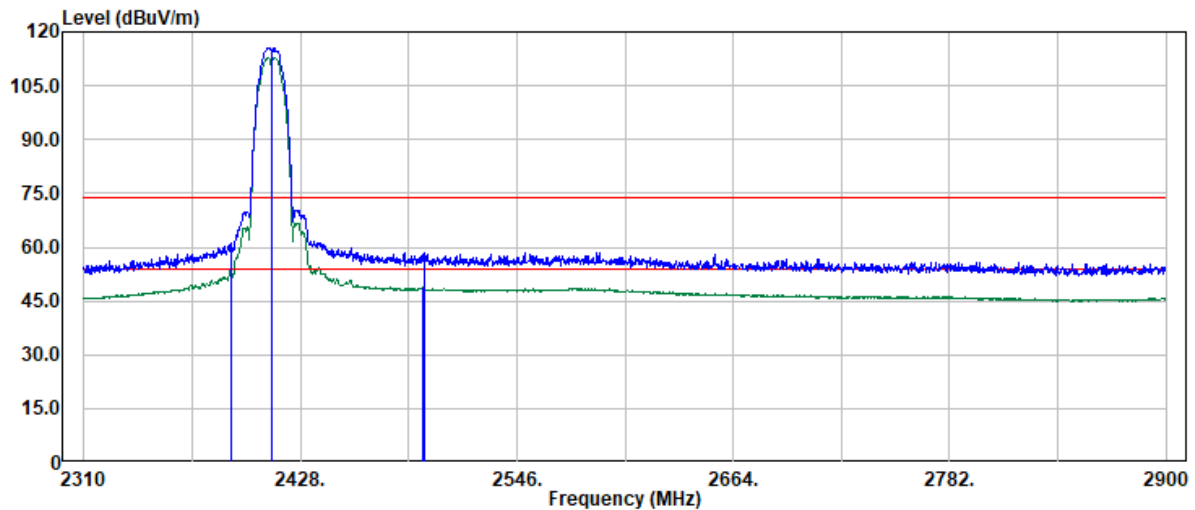


4.6.4 Test Result

Band Edge Test Data

Project No : TM-2412000356P
Operation Band : 802.11b_CH0
Frequency : 2412 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 19

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

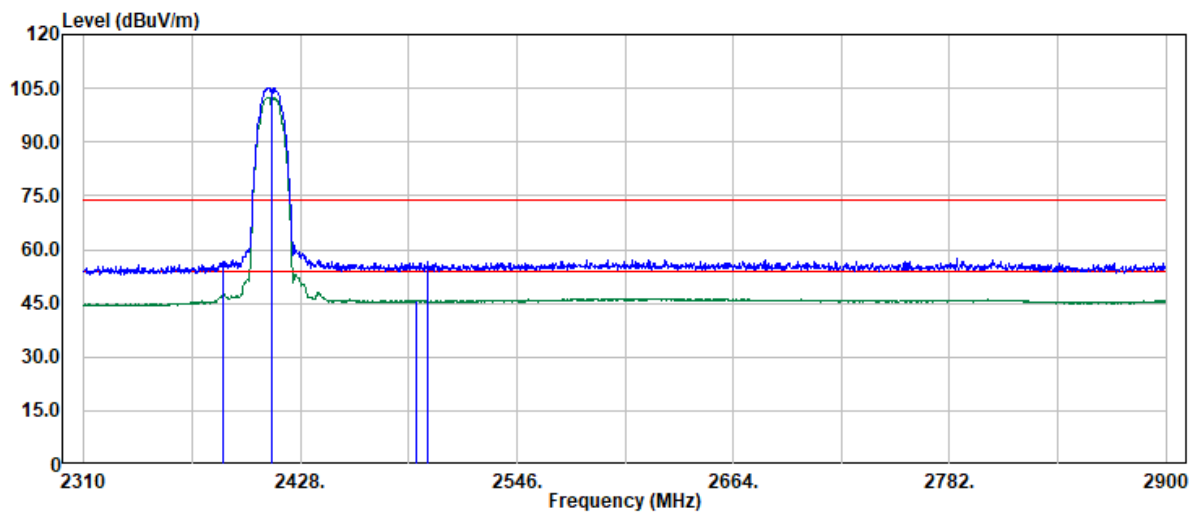
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2389.90	54.48	6.45	60.93	74.00	-13.07	Peak
2389.90	47.00	6.45	53.45	54.00	-0.55	Average
2412.00	108.94	6.52	115.46	--	--	Peak
2412.00	106.22	6.52	112.74	--	--	Average
2495.02	41.88	6.87	48.75	54.00	-5.25	Average
2496.01	51.49	6.87	58.36	74.00	-15.64	Peak

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Project No : TM-2412000356P
Operation Band : 802.11b_CH0
Frequency : 2412 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 19

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

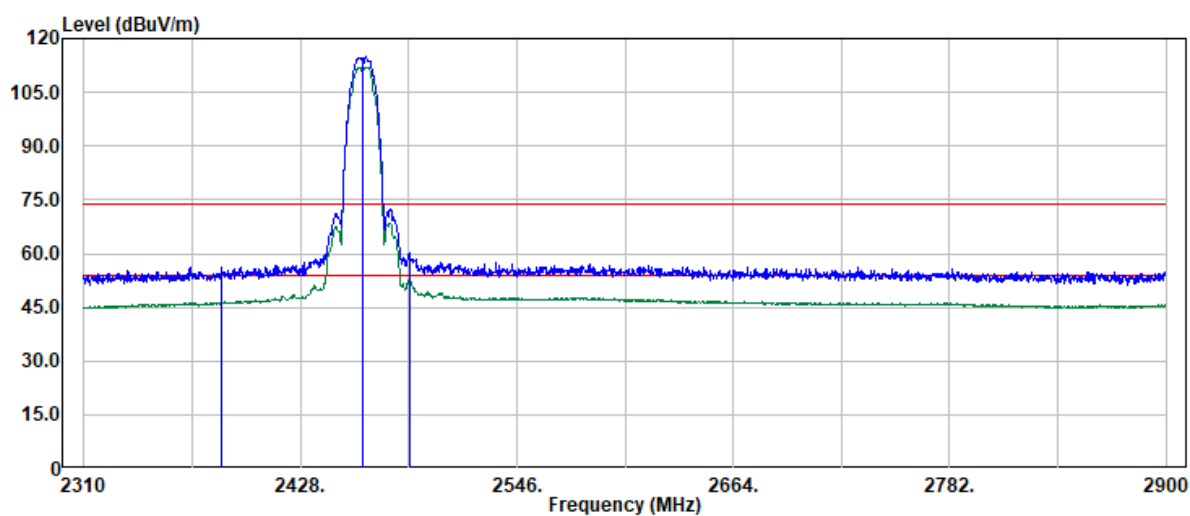
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2385.90	50.37	6.42	56.79	74.00	-17.21	Peak
2386.15	41.24	6.42	47.66	54.00	-6.34	Average
2412.00	98.52	6.52	105.04	--	--	Peak
2412.00	95.76	6.52	102.28	--	--	Average
2491.02	38.91	6.88	45.79	54.00	-8.21	Average
2497.76	49.82	6.86	56.68	74.00	-17.32	Peak

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Project No : TM-2412000356P
Operation Band : 802.11b_CH0
Frequency : 2462 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 18

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

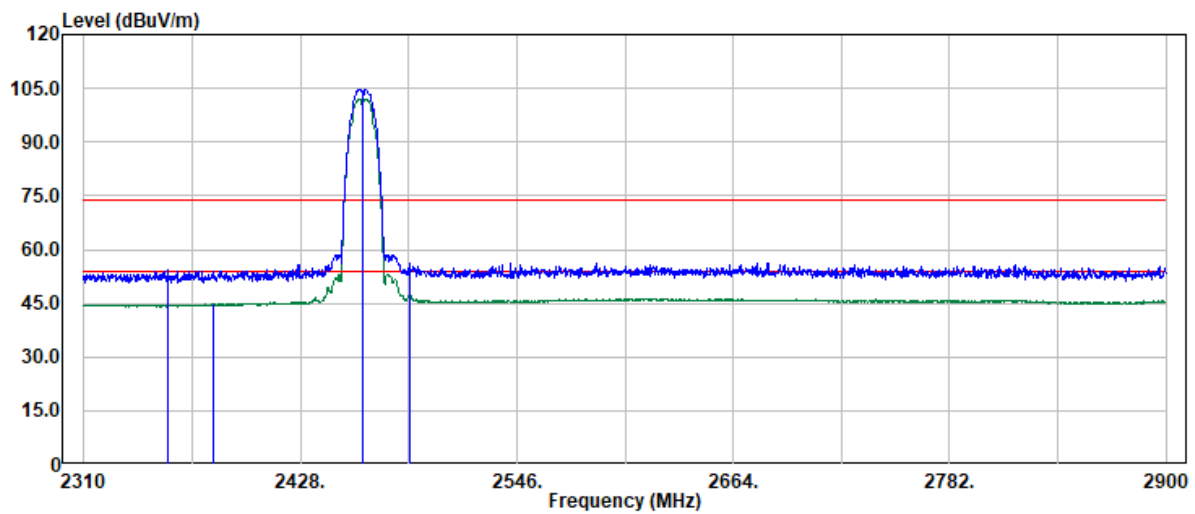
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2384.91	40.11	6.42	46.53	54.00	-7.47	Average
2385.16	49.78	6.42	56.20	74.00	-17.80	Peak
2462.00	108.18	6.64	114.82	--	--	Peak
2462.00	105.40	6.64	112.04	--	--	Average
2487.28	53.35	6.86	60.21	74.00	-13.79	Peak
2487.77	46.13	6.87	53.00	54.00	-1.00	Average

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Project No : TM-2412000356P
Operation Band : 802.11b_CH0
Frequency : 2462 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 18

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

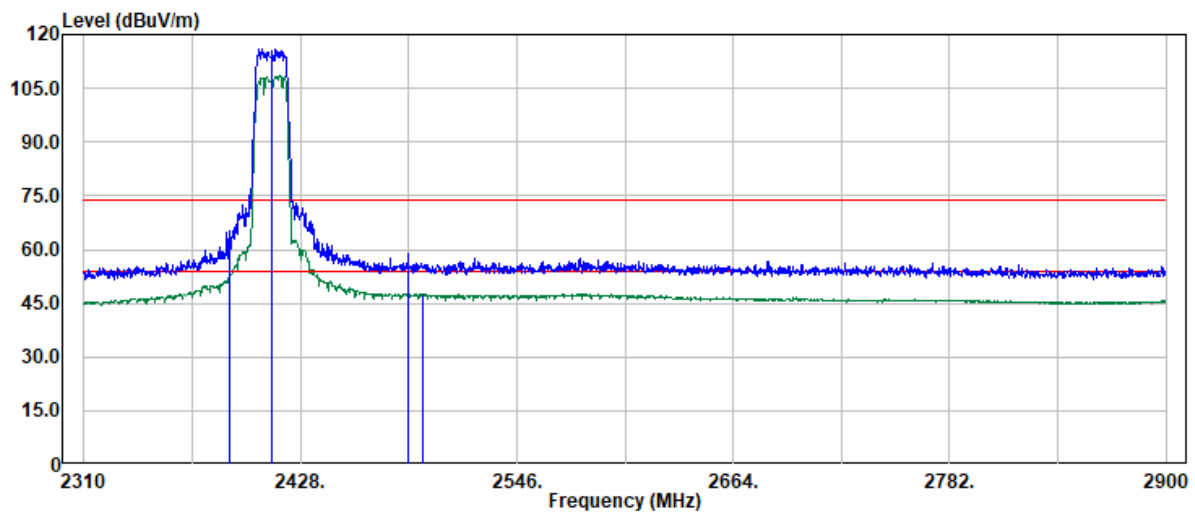
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2355.69	48.05	6.25	54.30	74.00	-19.70	Peak
2380.91	38.40	6.40	44.80	54.00	-9.20	Average
2462.00	98.07	6.64	104.71	--	--	Peak
2462.00	95.31	6.64	101.95	--	--	Average
2487.52	49.29	6.87	56.16	74.00	-17.84	Peak
2487.77	40.34	6.87	47.21	54.00	-6.79	Average

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Project No : TM-2412000356P
Operation Band : 802.11g_CH0
Frequency : 2412 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 16.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

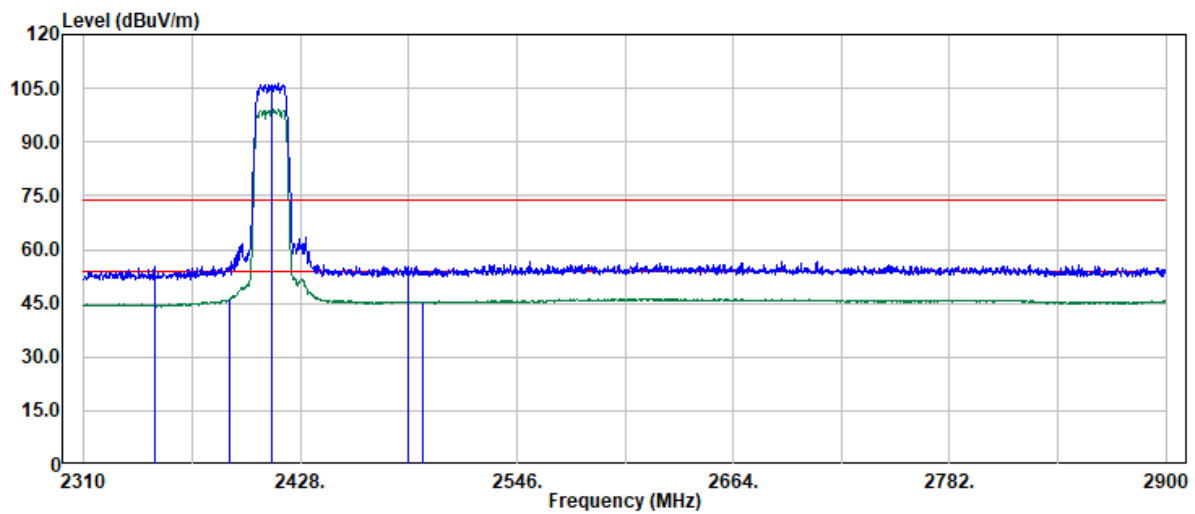
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2389.15	58.69	6.45	65.14	74.00	-8.86	Peak
2389.65	46.59	6.45	53.04	54.00	-0.96	Average
2412.00	109.54	6.52	116.06	--	--	Peak
2412.00	101.99	6.52	108.51	--	--	Average
2486.78	51.88	6.86	58.74	74.00	-15.26	Peak
2494.52	40.88	6.87	47.75	54.00	-6.25	Average

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Report No.: TMWK2412004717KR

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Project No : TM-2412000356P
Operation Band : 802.11g_CH0
Frequency : 2412 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 16.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

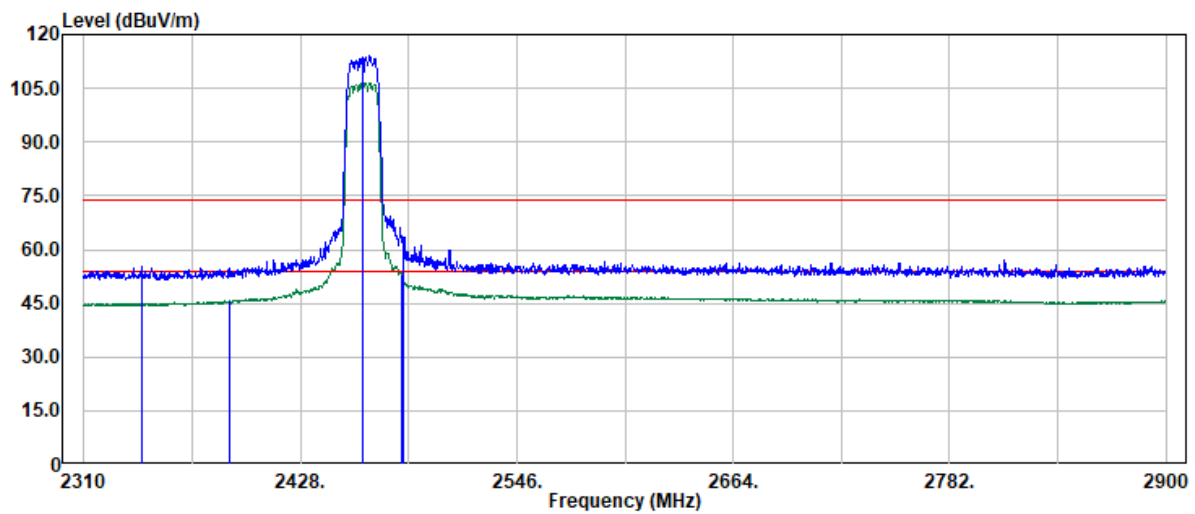
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2348.70	49.16	6.23	55.39	74.00	-18.61	Peak
2389.65	39.72	6.45	46.17	54.00	-7.83	Average
2412.00	99.78	6.52	106.30	--	--	Peak
2412.00	92.57	6.52	99.09	--	--	Average
2486.53	48.37	6.86	55.23	74.00	-18.77	Peak
2494.52	38.64	6.87	45.51	54.00	-8.49	Average

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Report No.: TMWK2412004717KR

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Rev.: 00

Project No : TM-2412000356P
Operation Band : 802.11g_CH0
Frequency : 2462 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 14

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

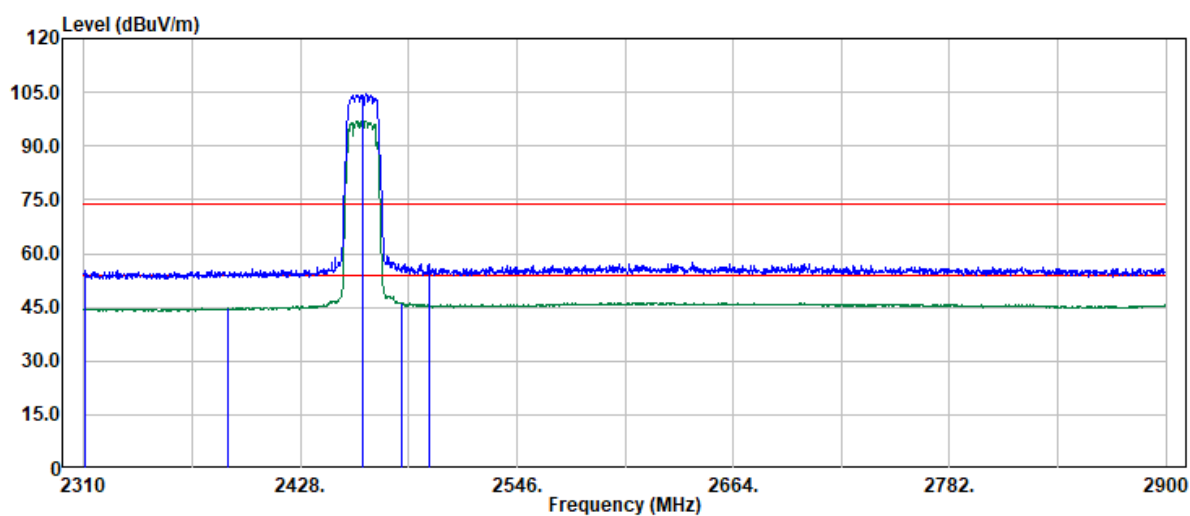
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2341.21	48.80	6.33	55.13	74.00	-18.87	Peak
2389.65	39.11	6.45	45.56	54.00	-8.44	Average
2462.00	107.28	6.64	113.92	--	--	Peak
2462.00	99.90	6.64	106.54	--	--	Average
2483.53	46.07	6.84	52.91	54.00	-1.09	Average
2484.53	56.60	6.84	63.44	74.00	-10.56	Peak

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Project No : TM-2412000356P
Operation Band : 802.11g_CH0
Frequency : 2462 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 14

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

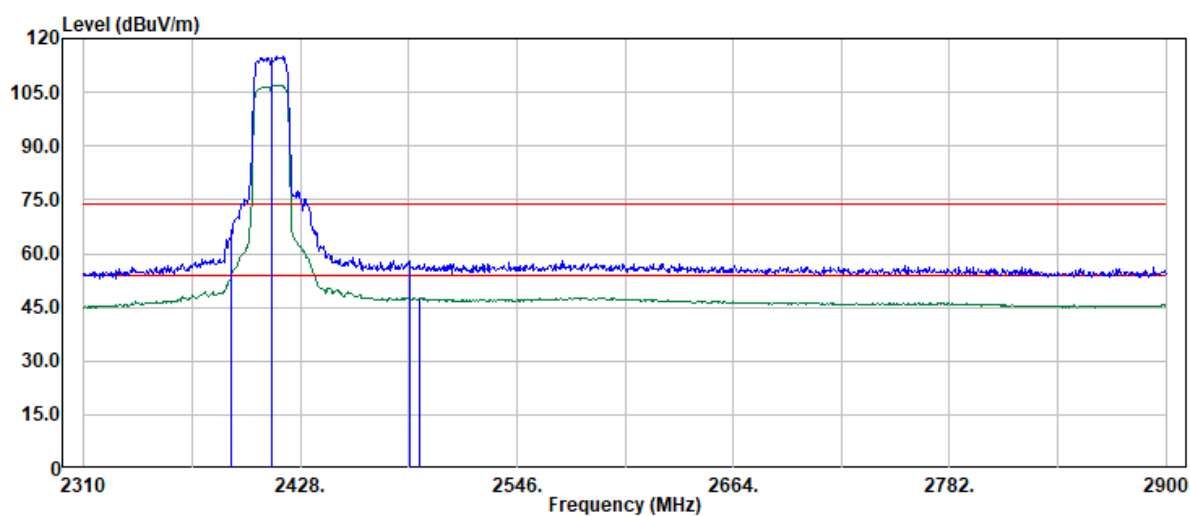
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2310.75	48.74	6.52	55.26	74.00	-18.74	Peak
2388.90	38.26	6.45	44.71	54.00	-9.29	Average
2462.00	97.81	6.64	104.45	--	--	Peak
2462.00	90.35	6.64	96.99	--	--	Average
2483.53	39.43	6.84	46.27	54.00	-7.73	Average
2498.01	50.42	6.86	57.28	74.00	-16.72	Peak

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Project No : TM-2412000356P
Operation Band : 802.11n20
Frequency : 2412 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 14.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

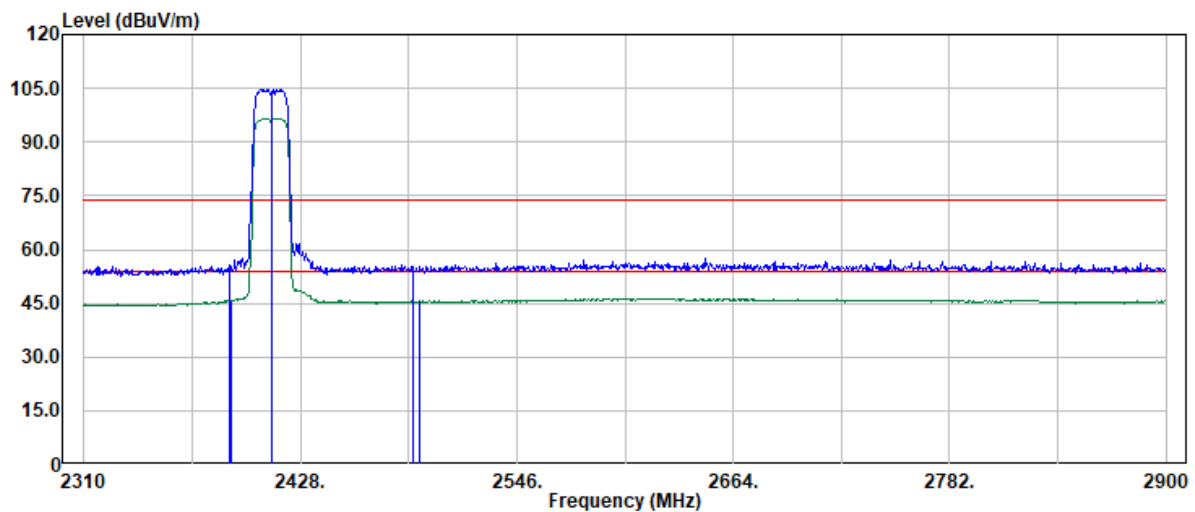
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2389.93	58.11	6.45	64.56	74.00	-9.44	Peak
2389.93	46.53	6.45	52.98	54.00	-1.02	Average
2412.00	108.41	6.52	114.93	--	--	Peak
2412.00	100.37	6.52	106.89	--	--	Average
2487.35	51.15	6.86	58.01	74.00	-15.99	Peak
2492.85	40.66	6.88	47.54	54.00	-6.46	Average

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Project No : TM-2412000356P
Operation Band : 802.11n20
Frequency : 2412 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 14.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

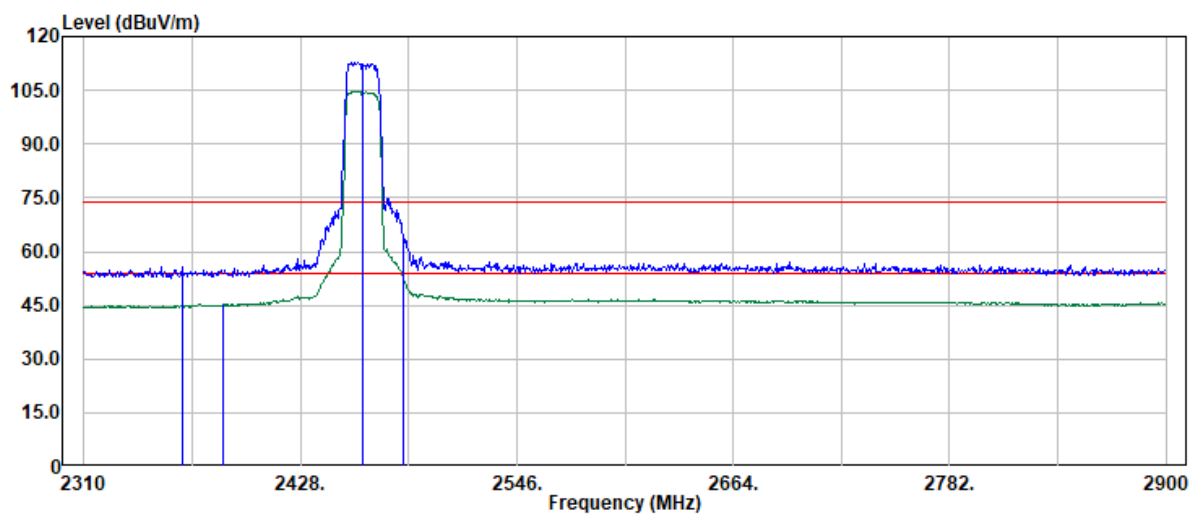
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2389.43	49.38	6.45	55.83	74.00	-18.17	Peak
2389.93	39.39	6.45	45.84	54.00	-8.16	Average
2412.00	98.26	6.52	104.78	--	--	Peak
2412.00	90.00	6.52	96.52	--	--	Average
2489.35	48.53	6.87	55.40	74.00	-18.60	Peak
2492.85	38.72	6.88	45.60	54.00	-8.40	Average

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Report No.: TMWK2412004717KR

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Project No : TM-2412000356P
Operation Band : 802.11n20
Frequency : 2462 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 12

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

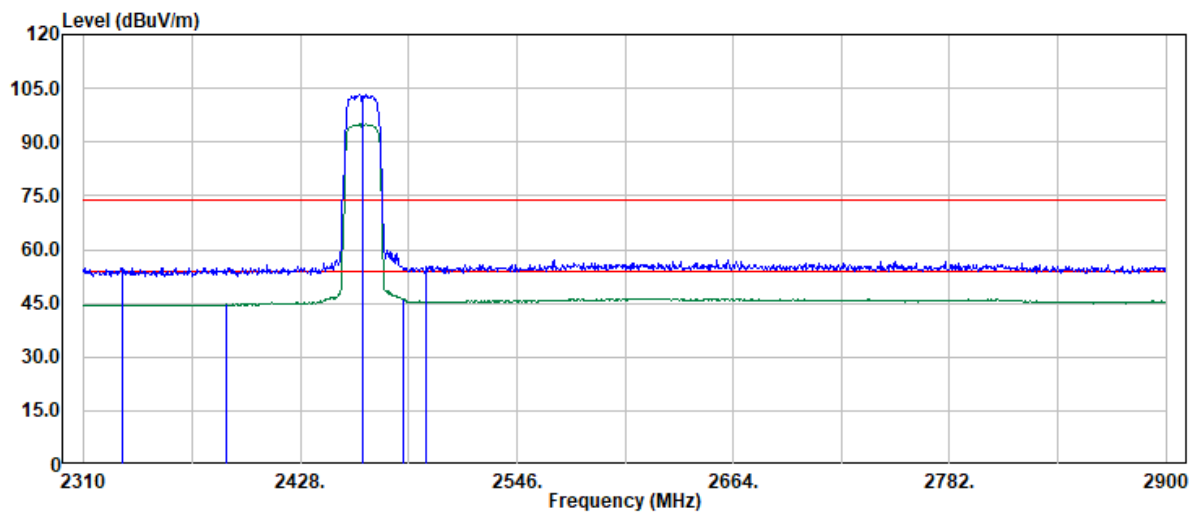
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2363.46	49.54	6.29	55.83	74.00	-18.17	Peak
2385.44	38.80	6.42	45.22	54.00	-8.78	Average
2462.00	106.30	6.64	112.94	--	--	Peak
2462.00	98.17	6.64	104.81	--	--	Average
2483.85	46.19	6.84	53.03	54.00	-0.97	Average
2484.35	57.42	6.83	64.25	74.00	-9.75	Peak

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Project No : TM-2412000356P
Operation Band : 802.11n20
Frequency : 2462 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 12

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

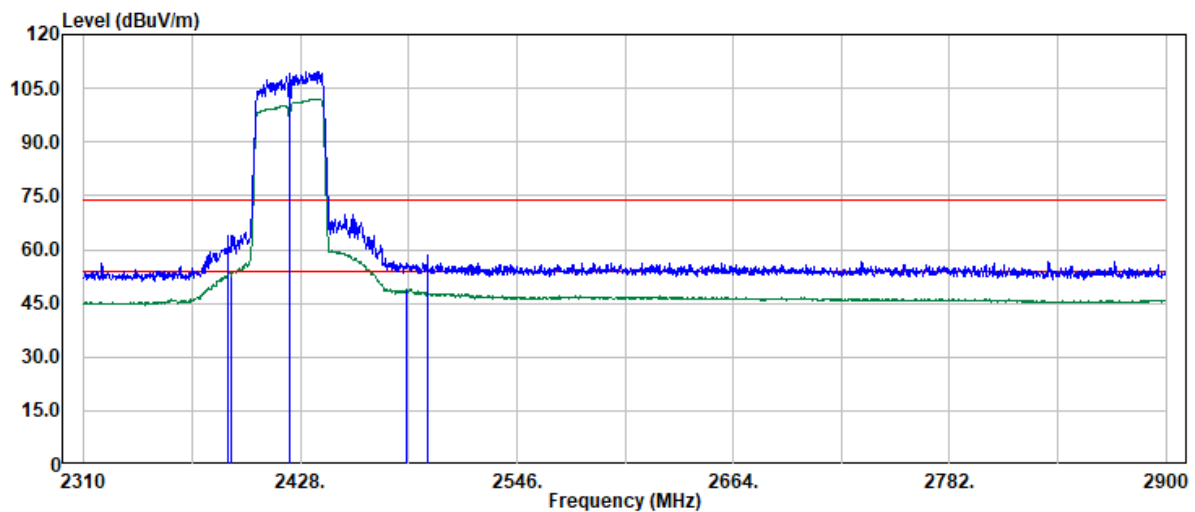
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2330.98	48.61	6.37	54.98	74.00	-19.02	Peak
2387.93	38.20	6.44	44.64	54.00	-9.36	Average
2462.00	96.67	6.64	103.31	--	--	Peak
2462.00	88.30	6.64	94.94	--	--	Average
2483.85	39.32	6.84	46.16	54.00	-7.84	Average
2496.84	48.57	6.87	55.44	74.00	-18.56	Peak

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Rev.: 00

Project No : TM-2412000356P
Operation Band : 802.11n40
Frequency : 2422 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 11

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

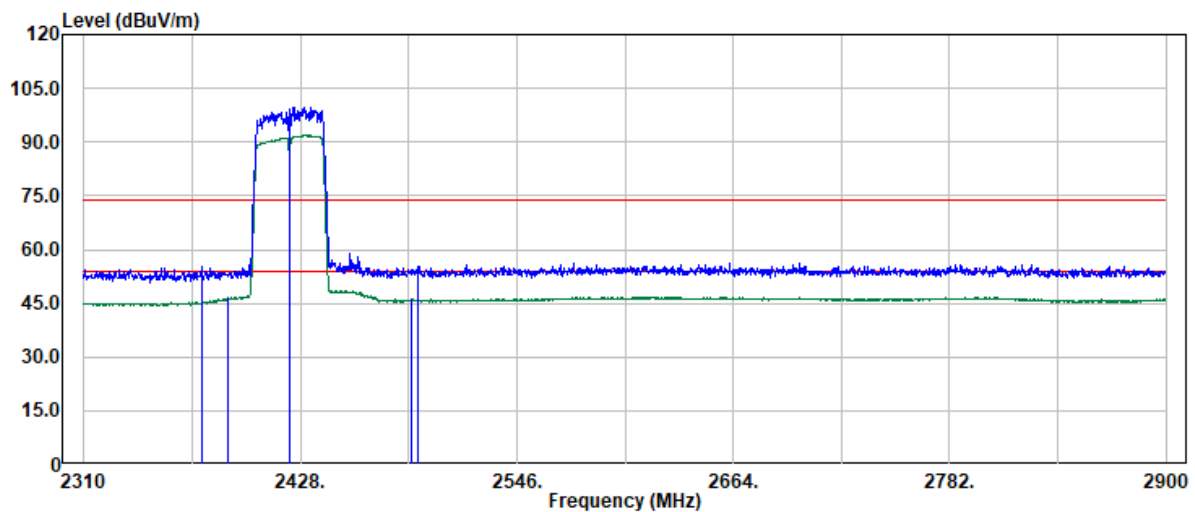
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2388.65	57.24	6.45	63.69	74.00	-10.31	Peak
2389.90	46.27	6.45	52.72	54.00	-1.28	Average
2422.00	103.07	6.58	109.65	--	--	Peak
2422.00	95.43	6.58	102.01	--	--	Average
2485.78	42.08	6.85	48.93	54.00	-5.07	Average
2497.26	51.77	6.87	58.64	74.00	-15.36	Peak

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Rev.: 00

Project No : TM-2412000356P
Operation Band : 802.11n40
Frequency : 2422 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 11

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

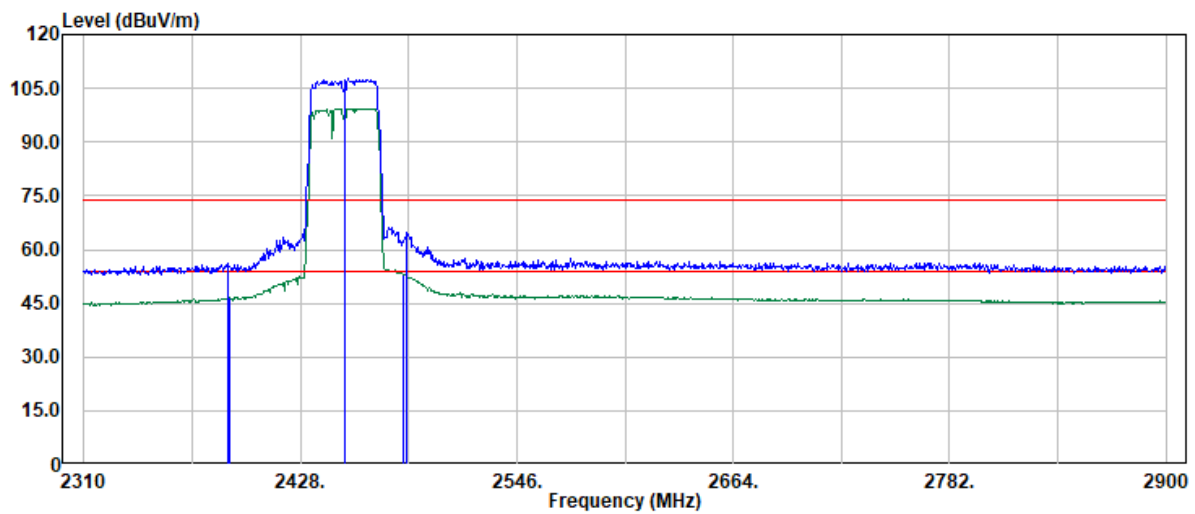
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2373.92	48.97	6.35	55.32	74.00	-18.68	Peak
2388.15	39.99	6.44	46.43	54.00	-7.57	Average
2422.00	93.14	6.58	99.72	--	--	Peak
2422.00	85.20	6.58	91.78	--	--	Average
2488.77	39.27	6.87	46.14	54.00	-7.86	Average
2492.52	48.36	6.88	55.24	74.00	-18.76	Peak

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Project No : TM-2412000356P
Operation Band : 802.11n40
Frequency : 2452 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 9

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

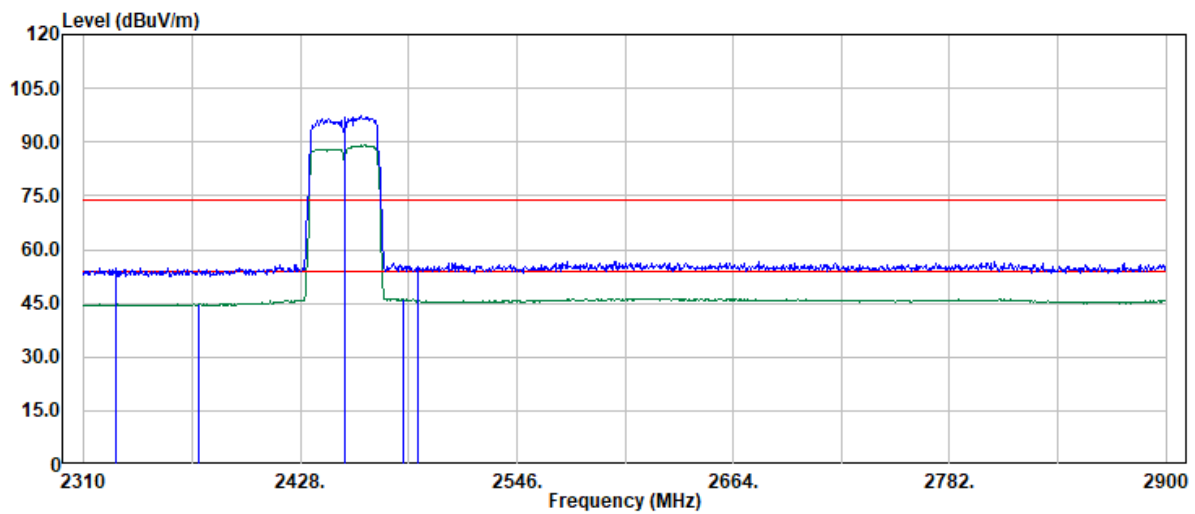
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2388.43	49.62	6.44	56.06	74.00	-17.94	Peak
2389.43	40.09	6.45	46.54	54.00	-7.46	Average
2452.00	100.92	6.67	107.59	--	--	Peak
2452.00	92.72	6.67	99.39	--	--	Average
2483.85	46.29	6.84	53.13	54.00	-0.87	Average
2486.35	58.10	6.85	64.95	74.00	-9.05	Peak

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Project No : TM-2412000356P
Operation Band : 802.11n40
Frequency : 2452 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 9

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

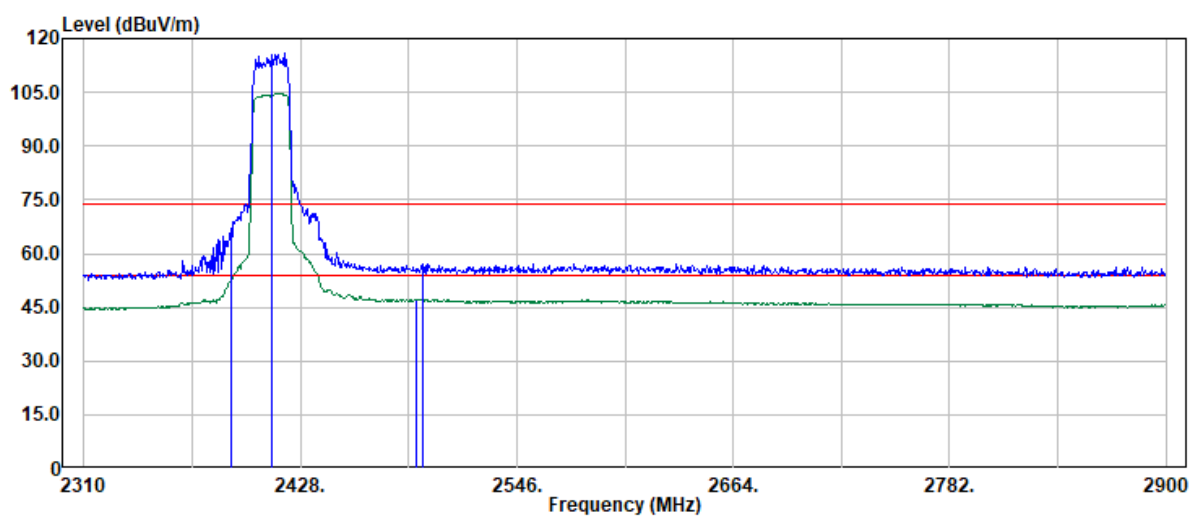
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2326.99	48.55	6.38	54.93	74.00	-19.07	Peak
2372.95	38.45	6.35	44.80	54.00	-9.20	Average
2452.00	90.48	6.67	97.15	--	--	Peak
2452.00	82.36	6.67	89.03	--	--	Average
2484.35	39.39	6.83	46.22	54.00	-7.78	Average
2492.35	48.55	6.88	55.43	74.00	-18.57	Peak

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Project No : TM-2412000356P
Operation Band : 802.11ax20
Frequency : 2412 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 13.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

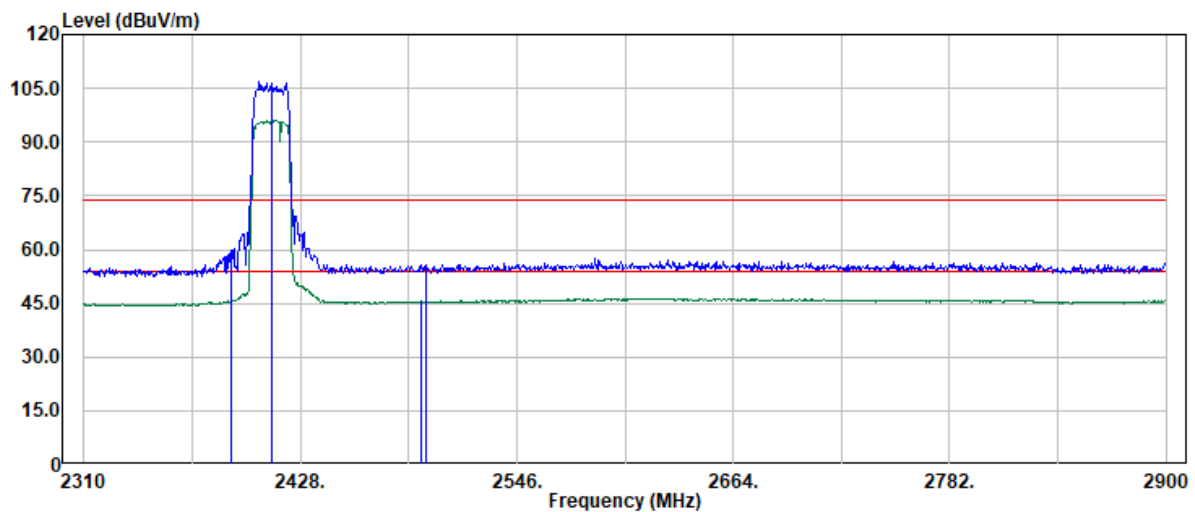
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2389.93	60.60	6.45	67.05	74.00	-6.95	Peak
2389.93	46.06	6.45	52.51	54.00	-1.49	Average
2412.00	109.29	6.52	115.81	--	--	Peak
2412.00	98.08	6.52	104.60	--	--	Average
2491.35	40.37	6.88	47.25	54.00	-6.75	Average
2494.34	50.10	6.87	56.97	74.00	-17.03	Peak

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Rev.: 00

Project No : TM-2412000356P
Operation Band : 802.11ax20
Frequency : 2412 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 13.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : Horizontal
Engineer : Tony.Chao
Test Chamber : 966A



Trace: 1

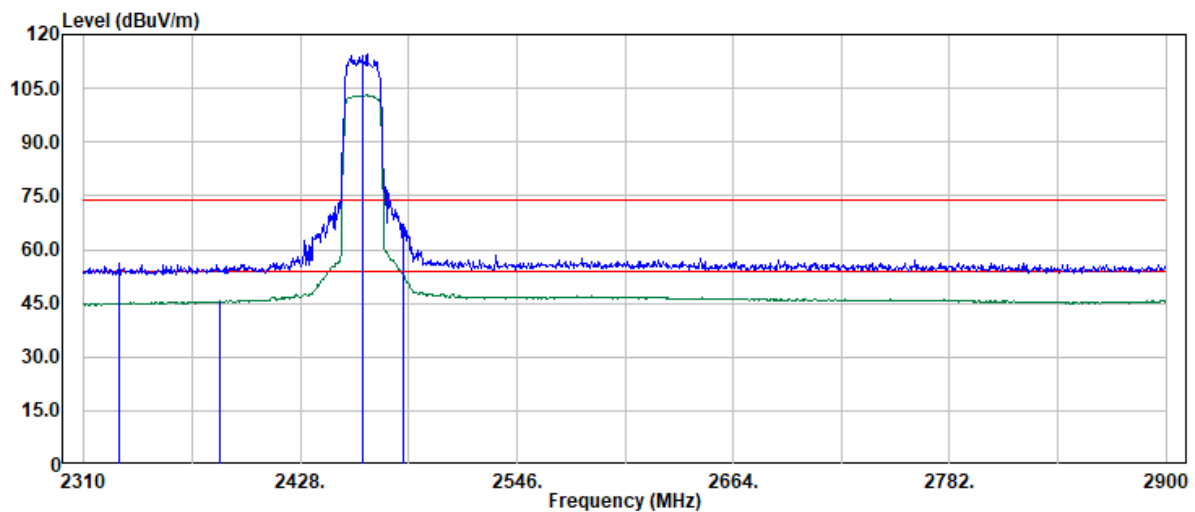
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2389.93	53.12	6.45	59.57	74.00	-14.43	Peak
2389.93	39.08	6.45	45.53	54.00	-8.47	Average
2412.00	100.24	6.52	106.76	--	--	Peak
2412.00	89.46	6.52	95.98	--	--	Average
2493.84	38.67	6.87	45.54	54.00	-8.46	Average
2496.34	48.84	6.87	55.71	74.00	-18.29	Peak

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Rev.: 00

Project No : TM-2412000356P
Operation Band : 802.11ax20
Frequency : 2462 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 11

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : Vertical
Engineer : Ben.Yang
Test Chamber : 966A



Trace: 1

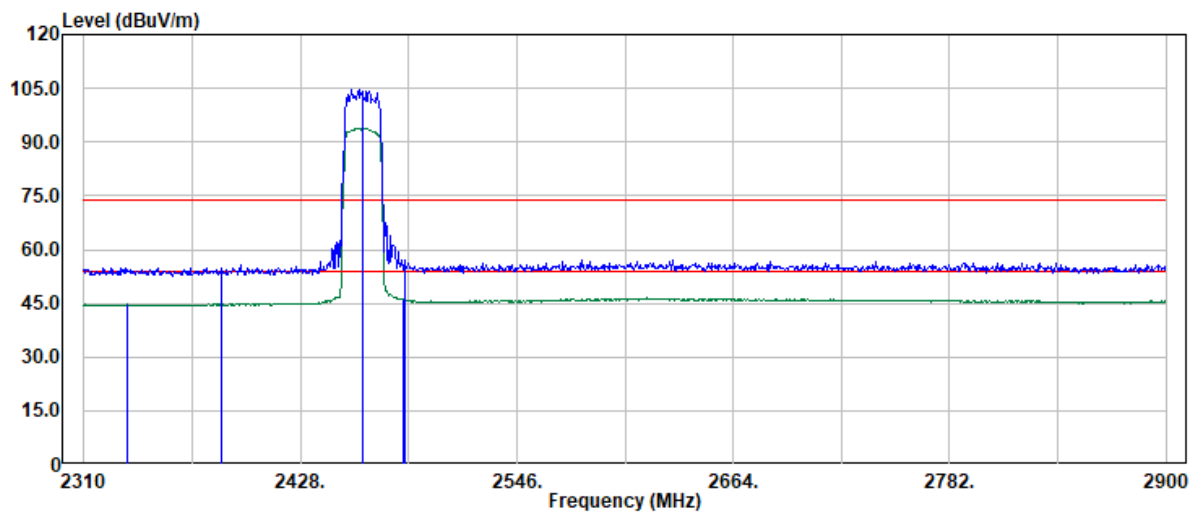
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2329.48	49.66	6.38	56.04	74.00	-17.96	Peak
2383.94	39.18	6.41	45.59	54.00	-8.41	Average
2462.00	107.86	6.64	114.50	--	--	Peak
2462.00	96.46	6.64	103.10	--	--	Average
2484.35	60.41	6.83	67.24	74.00	-6.76	Peak
2484.35	46.19	6.83	53.02	54.00	-0.98	Average

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Rev.: 00

Project No : TM-2412000356P
Operation Band : 802.11ax20
Frequency : 2462 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 11

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Trace: 1

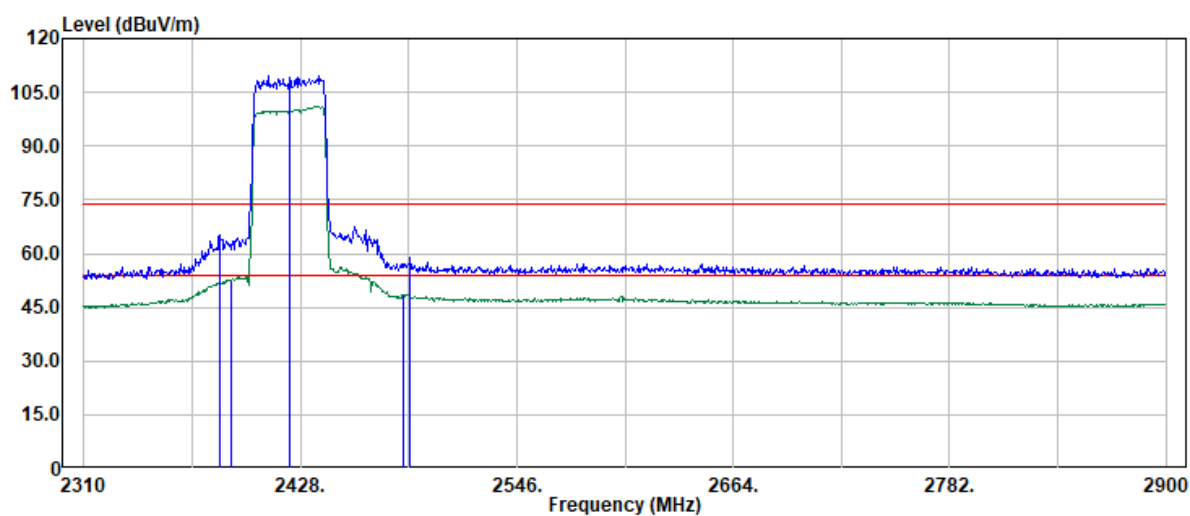
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2333.48	38.39	6.36	44.75	54.00	-9.25	Average
2384.94	48.56	6.42	54.98	74.00	-19.02	Peak
2462.00	97.89	6.64	104.53	--	--	Peak
2462.00	87.16	6.64	93.80	--	--	Average
2483.85	39.15	6.84	45.99	54.00	-8.01	Average
2484.85	50.21	6.84	57.05	74.00	-16.95	Peak

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Project No : TM-2412000356P
Operation Band : 802.11ax40
Frequency : 2422 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 10.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : Vertical
Engineer : Ben.Yang
Test Chamber : 966A



Trace: 1

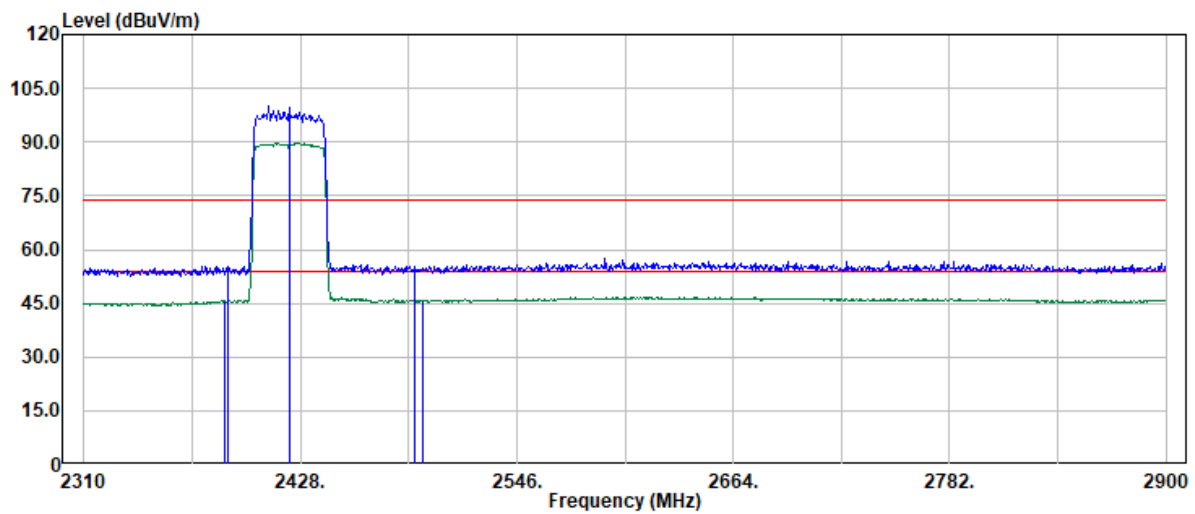
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2383.94	58.76	6.41	65.17	74.00	-8.83	Peak
2389.93	46.23	6.45	52.68	54.00	-1.32	Average
2422.00	102.84	6.58	109.42	--	--	Peak
2422.00	94.25	6.58	100.83	--	--	Average
2484.35	41.69	6.83	48.52	54.00	-5.48	Average
2487.85	51.85	6.87	58.72	74.00	-15.28	Peak

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Rev.: 00

Project No : TM-2412000356P
Operation Band : 802.11ax40
Frequency : 2422 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 10.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Trace: 1

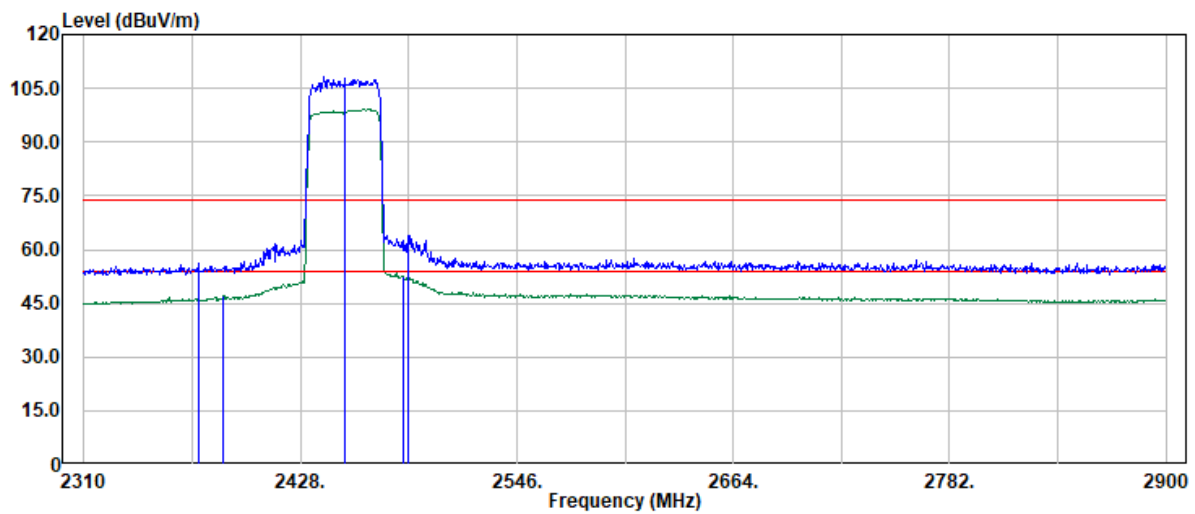
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2386.44	39.21	6.42	45.63	54.00	-8.37	Average
2388.43	48.86	6.44	55.30	74.00	-18.70	Peak
2422.00	93.33	6.58	99.91	--	--	Peak
2422.00	83.15	6.58	89.73	--	--	Average
2490.35	48.30	6.88	55.18	74.00	-18.82	Peak
2494.34	38.98	6.87	45.85	54.00	-8.15	Average

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Project No : TM-2412000356P
Operation Band : 802.11ax40
Frequency : 2452 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 8.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



Trace: 1

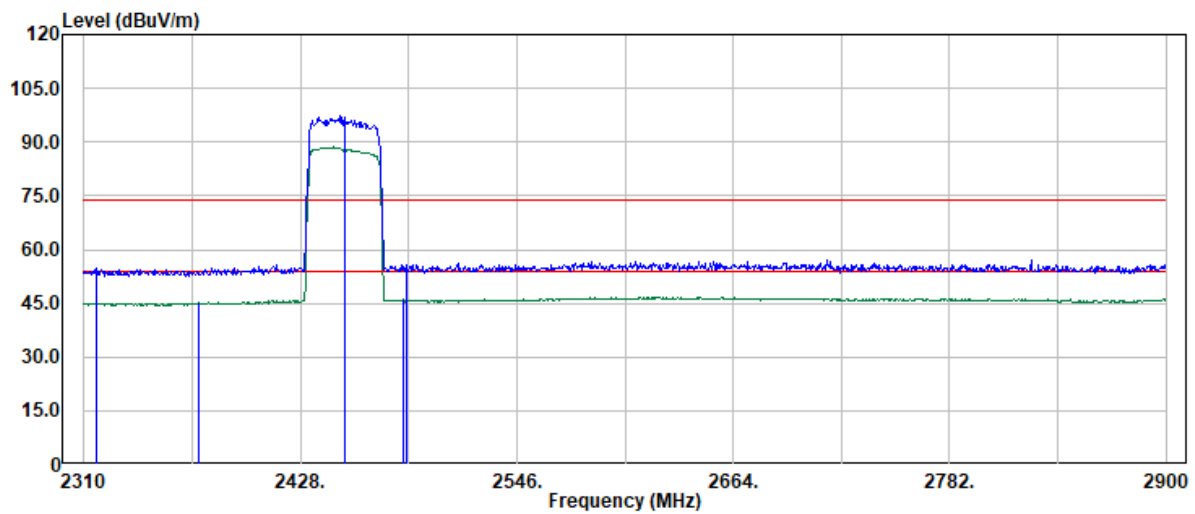
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2372.45	49.62	6.35	55.97	74.00	-18.03	Peak
2385.94	40.49	6.42	46.91	54.00	-7.09	Average
2452.00	101.54	6.67	108.21	--	--	Peak
2452.00	92.34	6.67	99.01	--	--	Average
2483.85	45.46	6.84	52.30	54.00	-1.70	Average
2486.85	56.91	6.86	63.77	74.00	-10.23	Peak

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Rev.: 00

Project No : TM-2412000356P
Operation Band : 802.11ax40
Frequency : 2452 MHz
Operation Mode : Bandedge
EUT Pol : H
Setting : 8.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Trace: 1

Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
2316.99	48.20	6.45	54.65	74.00	-19.35	Peak
2372.45	38.81	6.35	45.16	54.00	-8.84	Average
2452.00	90.48	6.67	97.15	--	--	Peak
2452.00	81.92	6.67	88.59	--	--	Average
2483.85	39.14	6.84	45.98	54.00	-8.02	Average
2485.85	49.07	6.85	55.92	74.00	-18.08	Peak

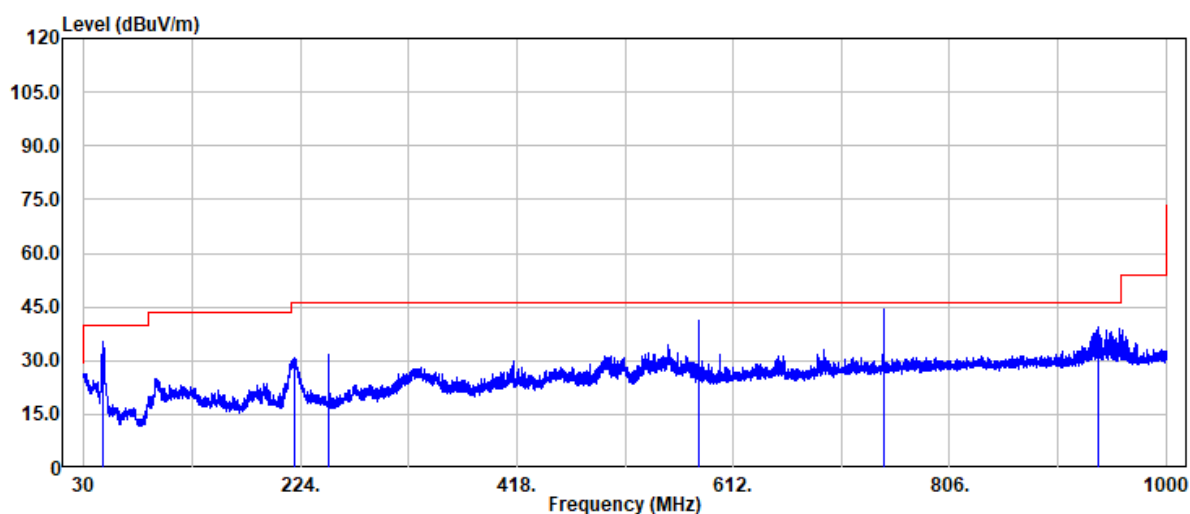
Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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TX Test Data

Project No : TM-2412000356P
Operation Band : 802.11b_CH0
Frequency : 2412 MHz
Operation Mode : TX
EUT Pol : H
Setting :

Test Date : 2025-02-18
Temp./Humi. : 24.5/57
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



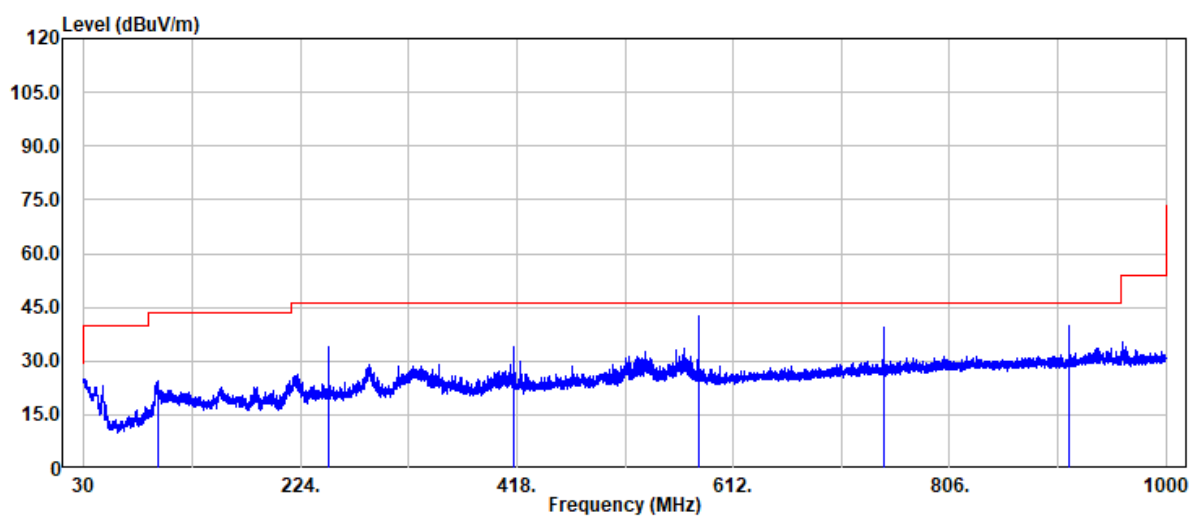
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
47.20	50.12	-14.86	35.26	40.00	-4.74	Peak
218.20	43.21	-12.56	30.65	46.00	-15.35	Peak
249.00	43.22	-11.40	31.82	46.00	-14.18	Peak
581.00	44.47	-3.24	41.23	46.00	-4.77	Peak
747.00	44.87	-0.33	44.54	46.00	-1.46	Peak
938.80	36.82	2.46	39.28	46.00	-6.72	Peak

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Rev.: 00

Project No : TM-2412000356P
Operation Band : 802.11b_CH0
Frequency : 2412 MHz
Operation Mode : TX
EUT Pol : H
Setting :

Test Date : 2025-02-18
Temp./Humi. : 24.5/57
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



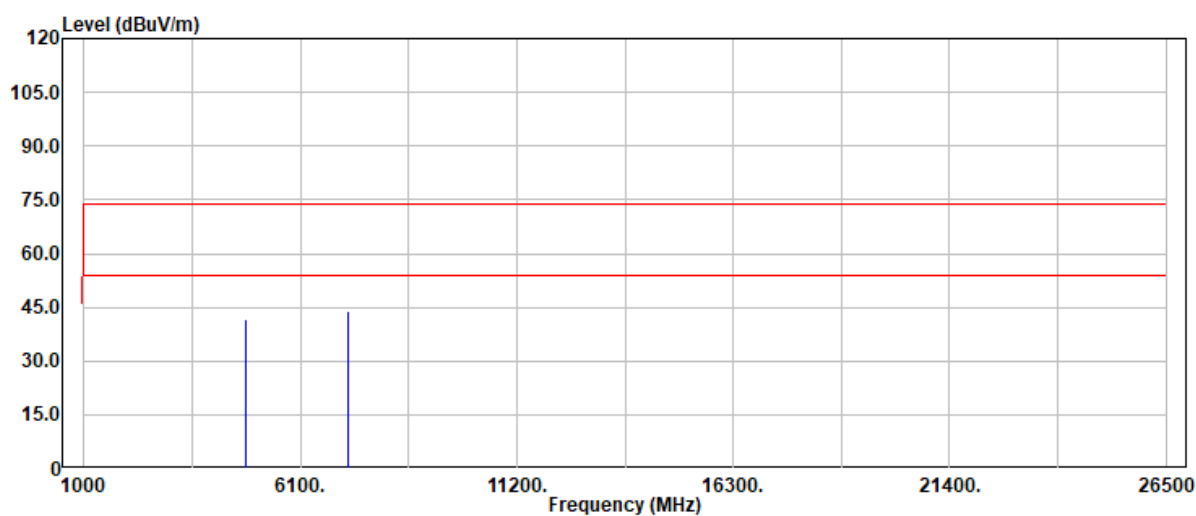
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
95.80	39.13	-14.66	24.47	43.50	-19.03	Peak
249.00	45.51	-11.40	34.11	46.00	-11.89	Peak
415.00	40.08	-6.31	33.77	46.00	-12.23	Peak
581.00	45.95	-3.24	42.71	46.00	-3.29	Peak
747.00	39.52	-0.33	39.19	46.00	-6.81	Peak
913.00	38.03	1.61	39.64	46.00	-6.36	Peak

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Rev.: 00

Project No : TM-2412000356P
Operation Band : 802.11b_CH0
Frequency : 2412 MHz
Operation Mode : TX
EUT Pol : H
Setting : 19

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



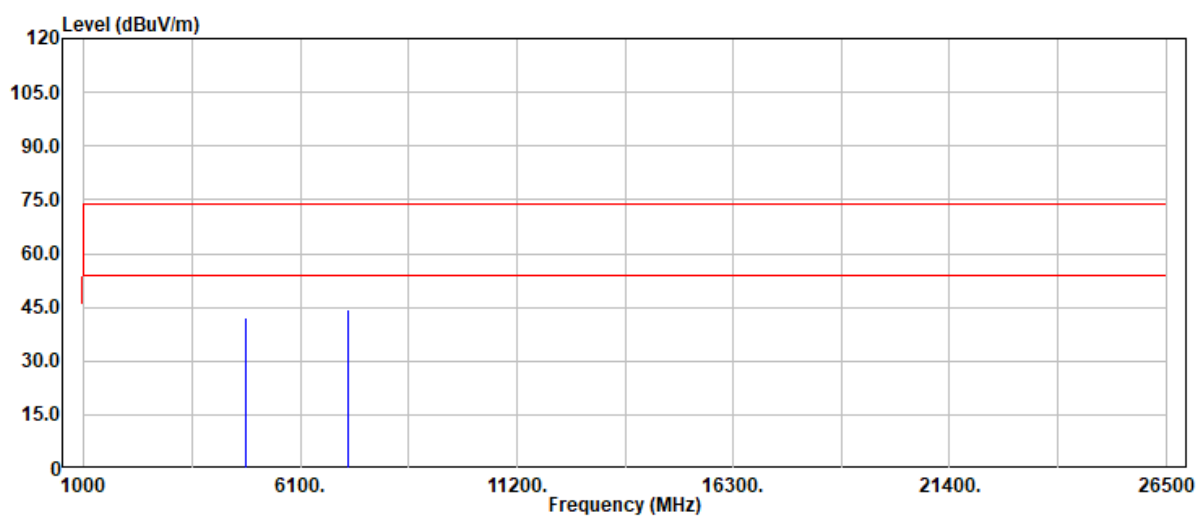
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4824.00	39.43	2.07	41.50	74.00	-32.50	Peak
4824.00	36.94	2.07	39.01	54.00	-14.99	Average
7236.00	35.17	8.98	44.15	74.00	-29.85	Peak
7236.00	27.38	8.98	36.36	54.00	-17.64	Average

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Rev.: 00

Project No : TM-2412000356P
Operation Band : 802.11b_CH0
Frequency : 2412 MHz
Operation Mode : TX
EUT Pol : H
Setting : 19

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : Horizontal
Engineer : Ben.Yang
Test Chamber : 966A



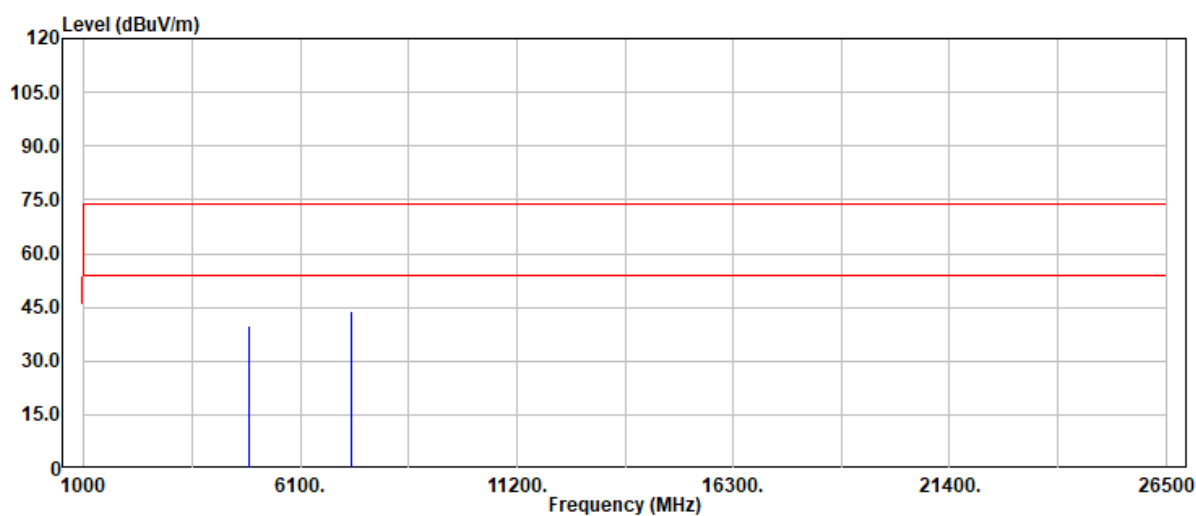
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4824.00	39.97	2.07	42.04	74.00	-31.96	Peak
4824.00	36.59	2.07	38.66	54.00	-15.34	Average
7236.00	35.25	8.98	44.23	74.00	-29.77	Peak
7236.00	26.73	8.98	35.71	54.00	-18.29	Average

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Project No : TM-2412000356P
Operation Band : 802.11b_CH0
Frequency : 2437 MHz
Operation Mode : TX
EUT Pol : H
Setting : 19

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : Vertical
Engineer : Ben.Yang
Test Chamber : 966A



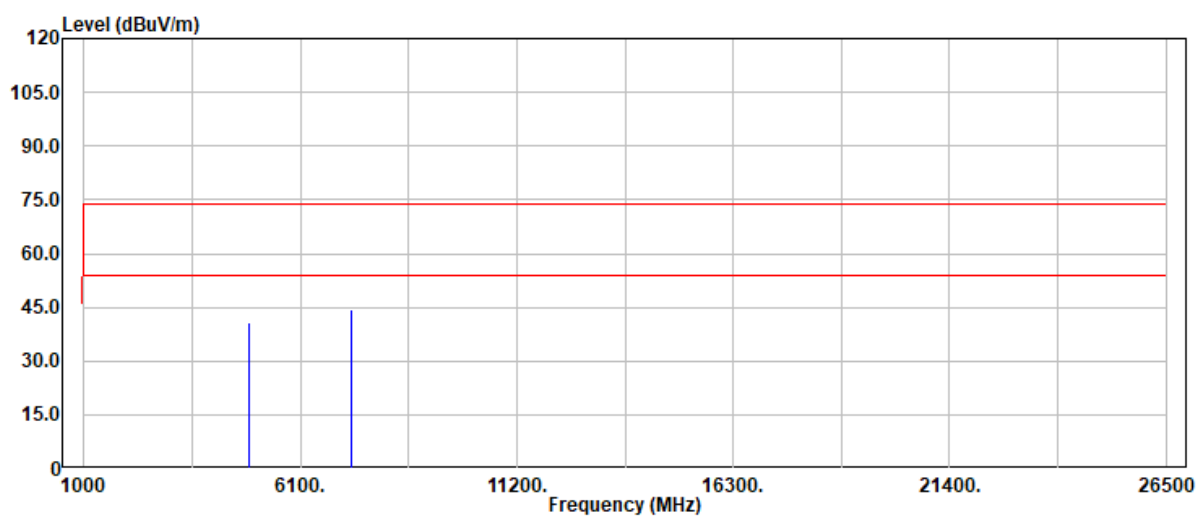
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4874.00	37.20	2.54	39.74	74.00	-34.26	Peak
4874.00	33.30	2.54	35.84	54.00	-18.16	Average
7311.00	34.58	9.17	43.75	74.00	-30.25	Peak
7311.00	27.46	9.17	36.63	54.00	-17.37	Average

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Rev.: 00

Project No : TM-2412000356P
Operation Band : 802.11b_CH0
Frequency : 2437 MHz
Operation Mode : TX
EUT Pol : H
Setting : 19

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



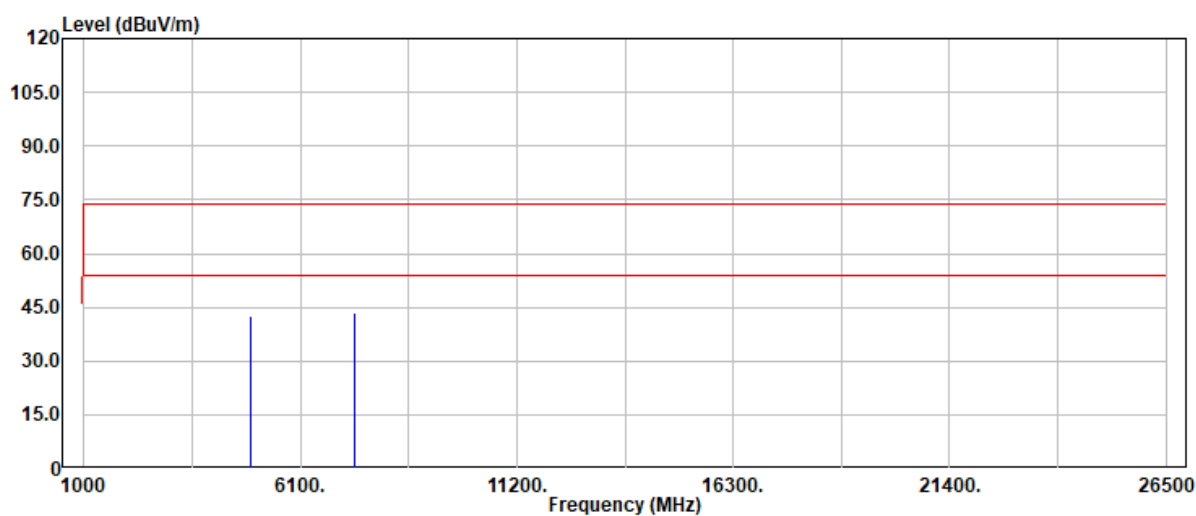
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4874.00	38.18	2.54	40.72	74.00	-33.28	Peak
4874.00	33.14	2.54	35.68	54.00	-18.32	Average
7311.00	35.08	9.17	44.25	74.00	-29.75	Peak
7311.00	26.66	9.17	35.83	54.00	-18.17	Average

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Report No.: TMWK2412004717KR

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Project No : TM-2412000356P
Operation Band : 802.11b_CH0
Frequency : 2462 MHz
Operation Mode : TX
EUT Pol : H
Setting : 18

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



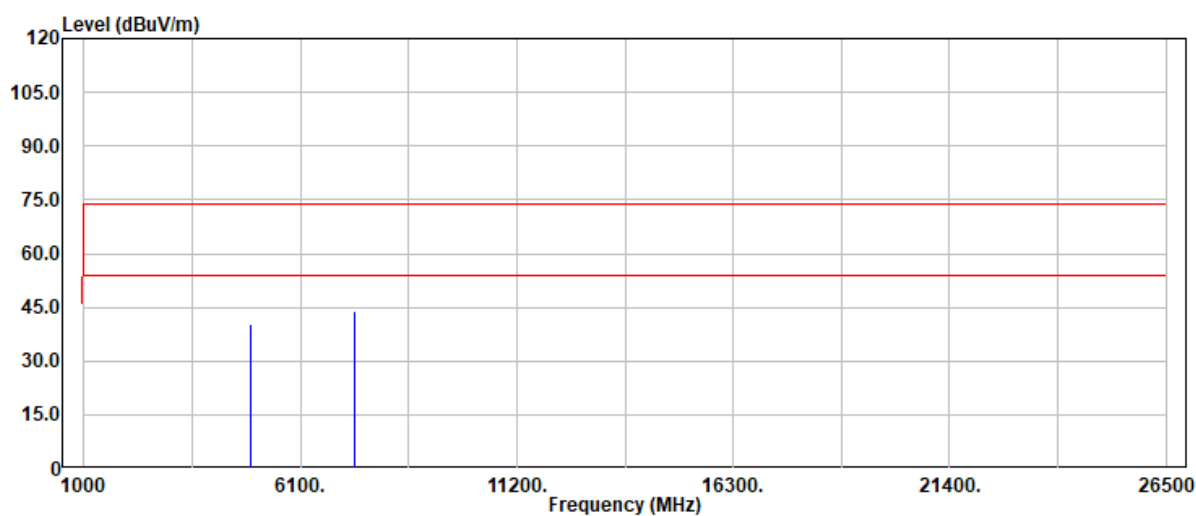
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4924.00	39.21	3.27	42.48	74.00	-31.52	Peak
4924.00	34.97	3.27	38.24	54.00	-15.76	Average
7386.00	34.00	9.46	43.46	74.00	-30.54	Peak
7386.00	26.36	9.46	35.82	54.00	-18.18	Average

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Project No : TM-2412000356P
Operation Band : 802.11b_CH0
Frequency : 2462 MHz
Operation Mode : TX
EUT Pol : H
Setting : 18

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



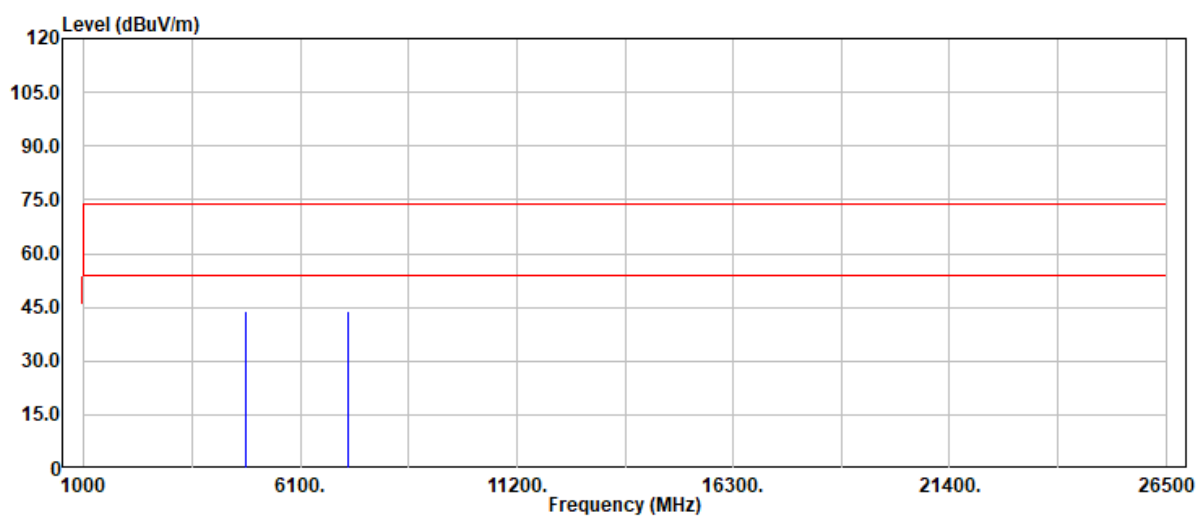
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4924.00	36.99	3.27	40.26	74.00	-33.74	Peak
4924.00	32.87	3.27	36.14	54.00	-17.86	Average
7386.00	34.26	9.46	43.72	74.00	-30.28	Peak
7386.00	26.33	9.46	35.79	54.00	-18.21	Average

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Project No : TM-2412000356P
Operation Band : 802.11g_CH0
Frequency : 2412 MHz
Operation Mode : TX
EUT Pol : H
Setting : 16.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



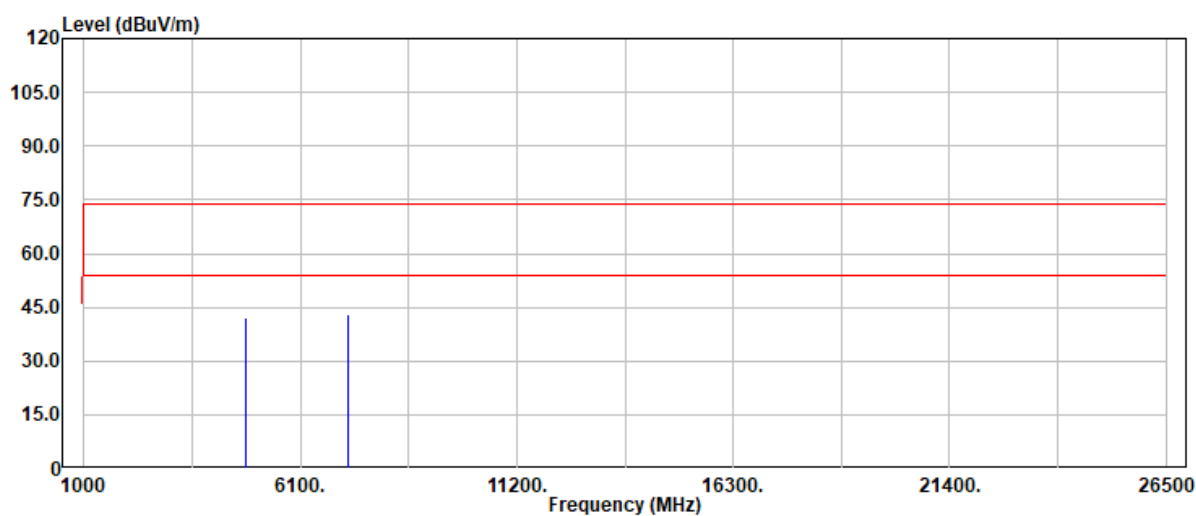
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4824.00	42.01	2.07	44.08	74.00	-29.92	Peak
4824.00	33.80	2.07	35.87	54.00	-18.13	Average
7236.00	35.12	8.98	44.10	74.00	-29.90	Peak
7236.00	27.08	8.98	36.06	74.00	-37.94	Peak

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Project No : TM-2412000356P
Operation Band : 802.11g_CH0
Frequency : 2412 MHz
Operation Mode : TX
EUT Pol : H
Setting : 16.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



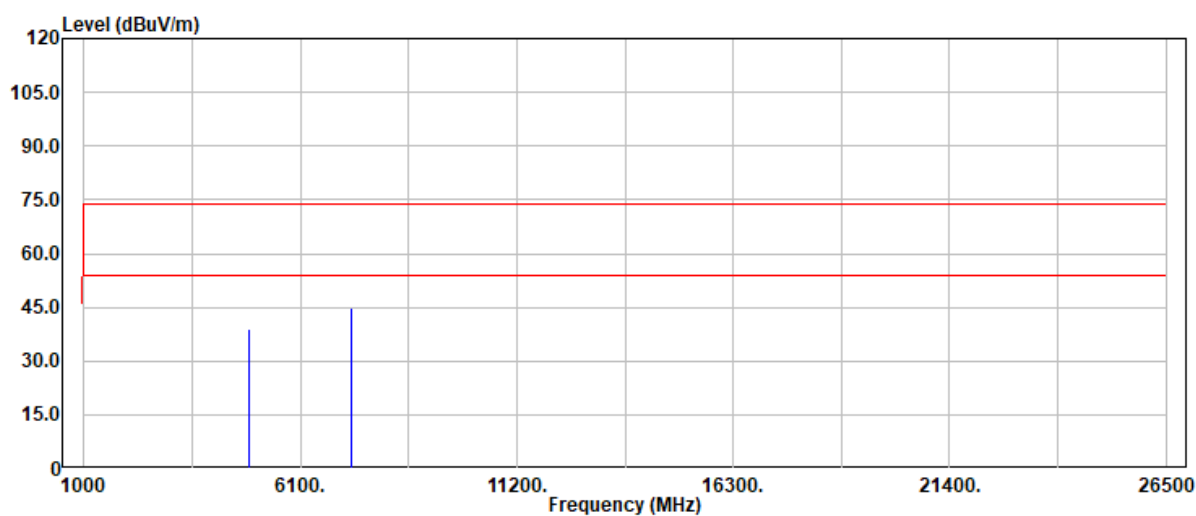
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4824.00	40.05	2.07	42.12	74.00	-31.88	Peak
4824.00	33.69	2.07	35.76	54.00	-18.24	Average
7236.00	34.20	8.98	43.18	74.00	-30.82	Peak
7236.00	26.87	8.98	35.85	54.00	-18.15	Average

Project No: TM-2412000356P
Report No.: TMWK2412004717KR

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Project No : TM-2412000356P
Operation Band : 802.11g_CH0
Frequency : 2437 MHz
Operation Mode : TX
EUT Pol : H
Setting : 16.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



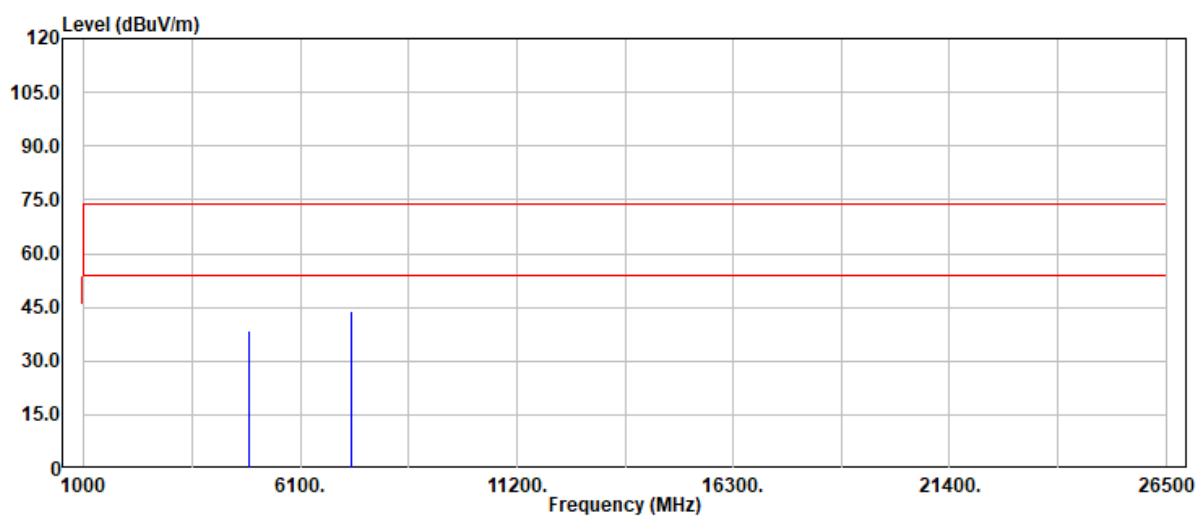
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4874.00	36.22	2.54	38.76	74.00	-35.24	Peak
4874.00	28.63	2.54	31.17	54.00	-22.83	Average
7311.00	35.48	9.17	44.65	74.00	-29.35	Peak
7311.00	26.78	9.17	35.95	54.00	-18.05	Average

Project No: TM-2412000356P
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Project No : TM-2412000356P
Operation Band : 802.11g_CH0
Frequency : 2437 MHz
Operation Mode : TX
EUT Pol : H
Setting : 16.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



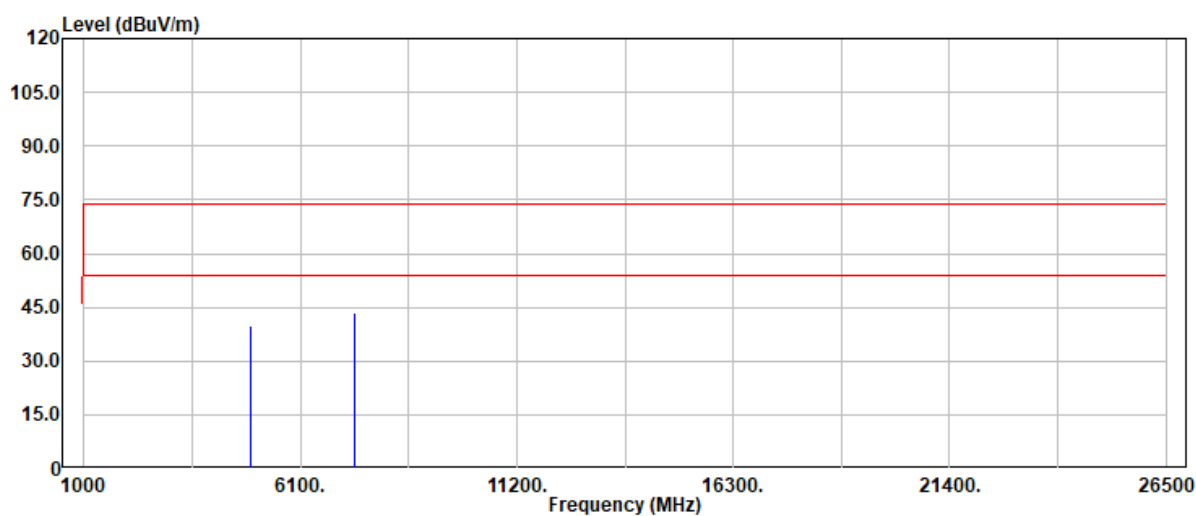
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4874.00	35.87	2.54	38.41	74.00	-35.59	Peak
4874.00	27.95	2.54	30.49	54.00	-23.51	Average
7311.00	34.94	9.17	44.11	74.00	-29.89	Peak
7311.00	26.64	9.17	35.81	54.00	-18.19	Average

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Project No : TM-2412000356P
Operation Band : 802.11g_CH0
Frequency : 2462 MHz
Operation Mode : TX
EUT Pol : H
Setting : 14

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



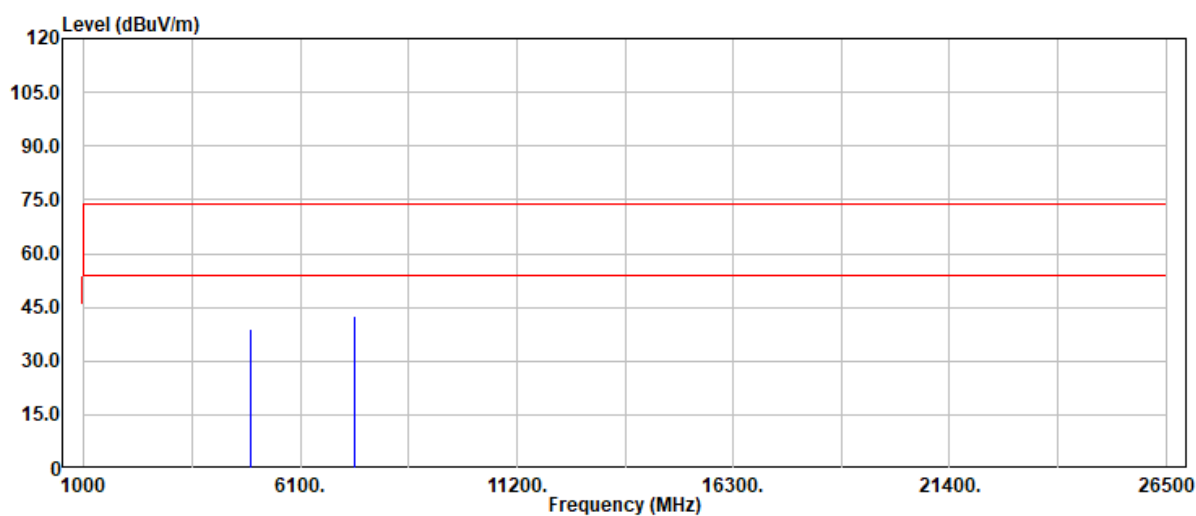
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4924.00	36.48	3.27	39.75	74.00	-34.25	Peak
4924.00	27.37	3.27	30.64	54.00	-23.36	Average
7386.00	33.84	9.46	43.30	74.00	-30.70	Peak
7386.00	26.33	9.46	35.79	54.00	-18.21	Average

Project No: TM-2412000356P
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Project No : TM-2412000356P
Operation Band : 802.11g_CH0
Frequency : 2462 MHz
Operation Mode : TX
EUT Pol : H
Setting : 14

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



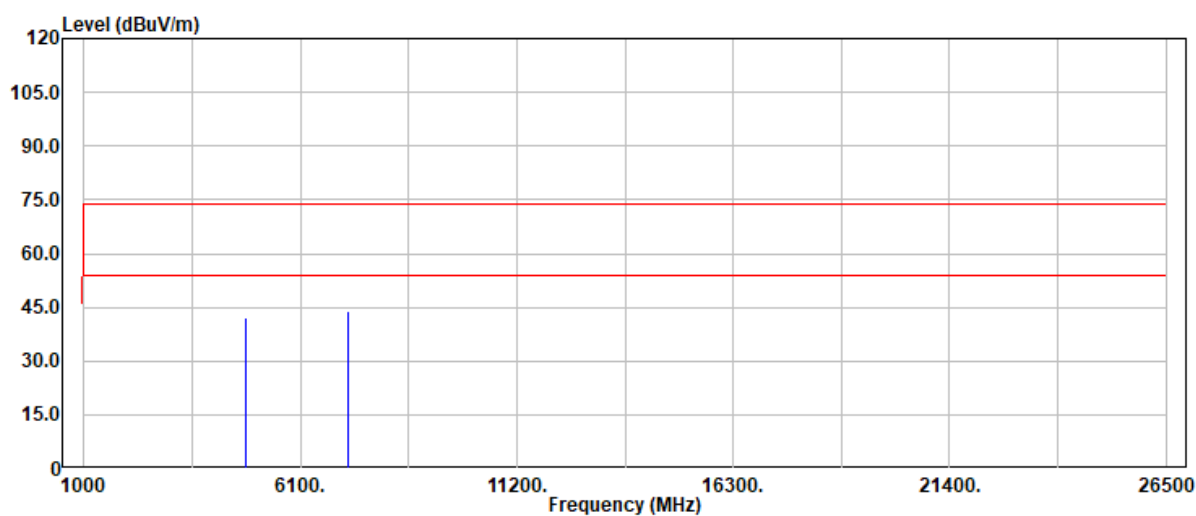
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4924.00	35.54	3.27	38.81	74.00	-35.19	Peak
4924.00	27.27	3.27	30.54	54.00	-23.46	Average
7386.00	33.15	9.46	42.61	74.00	-31.39	Peak
7386.00	26.20	9.46	35.66	54.00	-18.34	Average

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Project No : TM-2412000356P
Operation Band : 802.11n20
Frequency : 2412 MHz
Operation Mode : TX
EUT Pol : H
Setting : 14.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



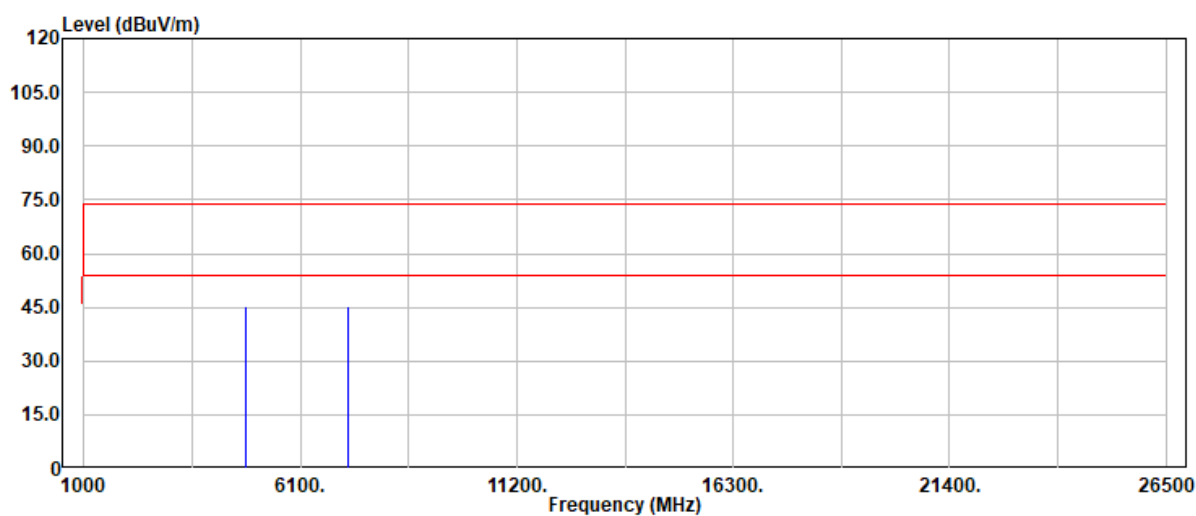
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4824.00	40.21	2.07	42.28	74.00	-31.72	Peak
4824.00	35.70	2.07	37.77	54.00	-16.23	Average
7236.00	34.79	8.98	43.77	74.00	-30.23	Peak
7236.00	26.75	8.98	35.73	54.00	-18.27	Average

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Project No : TM-2412000356P
Operation Band : 802.11n20
Frequency : 2412 MHz
Operation Mode : TX
EUT Pol : H
Setting : 14.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



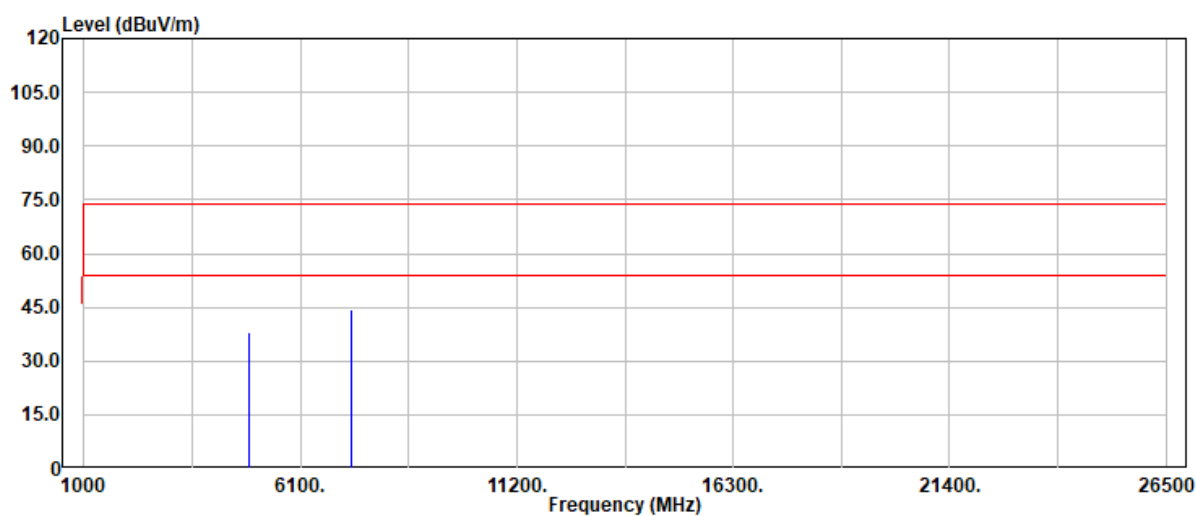
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4824.00	43.13	2.07	45.20	74.00	-28.80	Peak
4824.00	34.48	2.07	36.55	54.00	-17.45	Average
7236.00	36.41	8.98	45.39	74.00	-28.61	Peak
7236.00	26.90	8.98	35.88	54.00	-18.12	Average

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Project No : TM-2412000356P
Operation Band : 802.11n20
Frequency : 2437 MHz
Operation Mode : TX
EUT Pol : H
Setting : 14.5

Test Date : 2025-02-03
Temp./Humi. : 24.3/59
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
4874.00	35.57	2.54	38.11	74.00	-35.89	Peak
4874.00	28.50	2.54	31.04	54.00	-22.96	Average
7311.00	35.36	9.17	44.53	74.00	-29.47	Peak
7311.00	26.58	9.17	35.75	54.00	-18.25	Average