

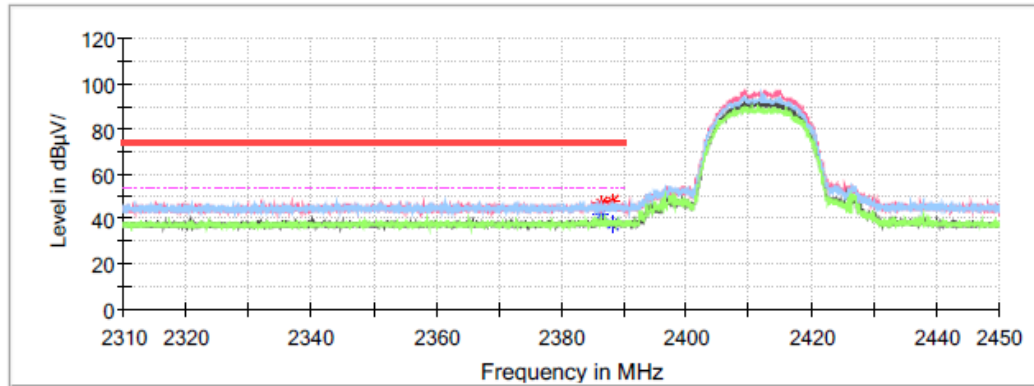
Band Edge:
802.11b Mode:

Low Channel

Common Information

Project No.: RKSB240528001
Test Mode: 2.4G WIFI
Standard: FCC Part 15.209& FCC Part 15.205& FCC Part 15.247
Test Engineer: Hugh Wu

Full Spectrum



Critical Freqs

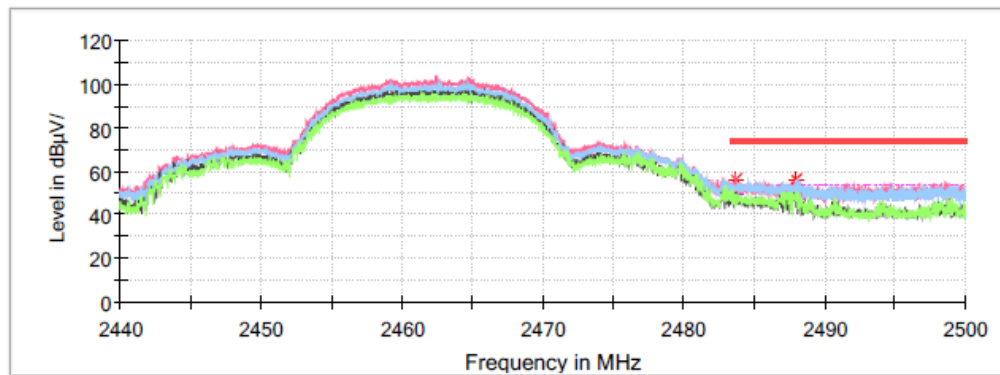
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2386.342000	---	41.72	54.00	12.28	H	-0.6
2386.342000	46.80	---	74.00	27.20	H	-0.6
2388.120000	---	37.86	54.00	16.14	H	-0.6
2388.120000	48.00	---	74.00	26.00	H	-0.6

High Channel

Common Information

Project No.: RKSB240528001
Test Mode: 2.4G WIFI
Standard: FCC Part 15.209& FCC Part 15.205& FCC Part 15.247
Test Engineer: Klein Zhu

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.770000	56.18	---	74.00	17.82	V	-0.3
2483.770000	---	49.23	54.00	4.77	V	-0.3
2487.982000	55.91	---	74.00	18.09	H	-0.2
2487.982000	---	51.39	54.00	2.61	H	-0.2

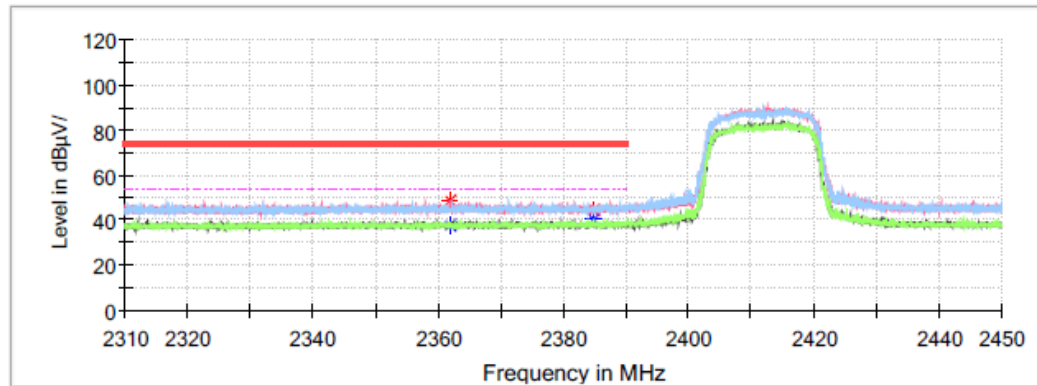
802.11g Mode :

Low Channel

Common Information

Project No.: RKS240528001
Test Mode: 2.4G WIFI
Standard: FCC Part 15.209& FCC Part 15.205& FCC Part 15.247
Test Engineer: Klein Zhu

Full Spectrum



Critical Freqs

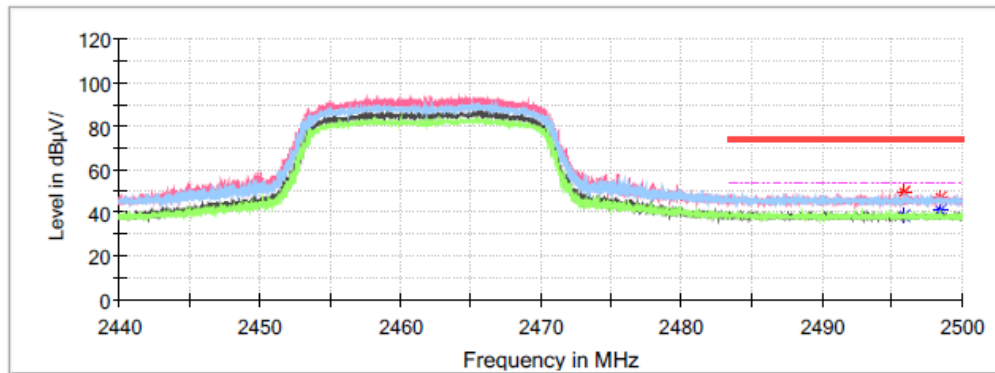
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2361.870000	48.37	---	74.00	25.63	V	-0.7
2361.870000	---	38.14	54.00	15.86	V	-0.7
2384.830000	44.85	---	74.00	29.15	H	-0.6
2384.830000	---	40.25	54.00	13.75	H	-0.6

High Channel

Common Information

Project No.: RKS240528001
Test Mode: 2.4G WIFI
Standard: FCC Part 15.209& FCC Part 15.205& FCC Part 15.247
Test Engineer: Klein Zhu

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2495.848000	49.39	---	74.00	24.61	V	-0.2
2495.848000	---	38.94	54.00	15.06	V	-0.2
2498.464000	46.89	---	74.00	27.11	H	-0.2
2498.464000	---	40.86	54.00	13.14	H	-0.2

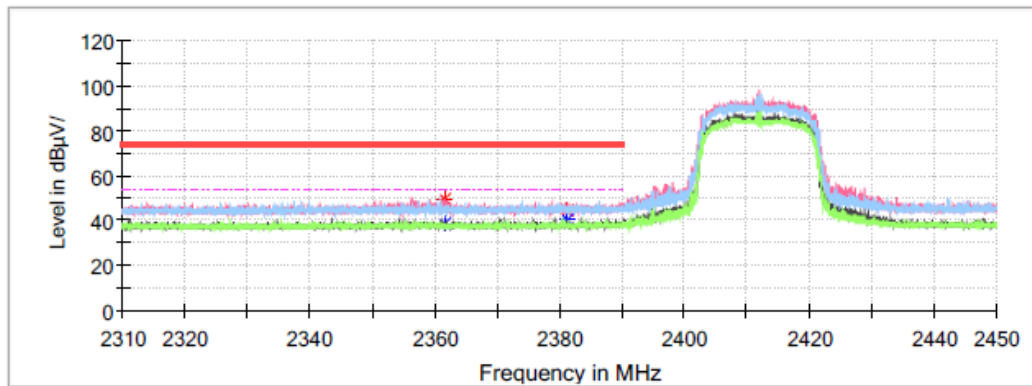
802.11n-HT20 Mode:

Low Channel

Common Information

Project No.: RKSB240528001
Test Mode: 2.4G WIFI
Standard: FCC Part 15.209& FCC Part 15.205& FCC Part 15.247
Test Engineer: Klein Zhu

Full Spectrum



Critical Freqs

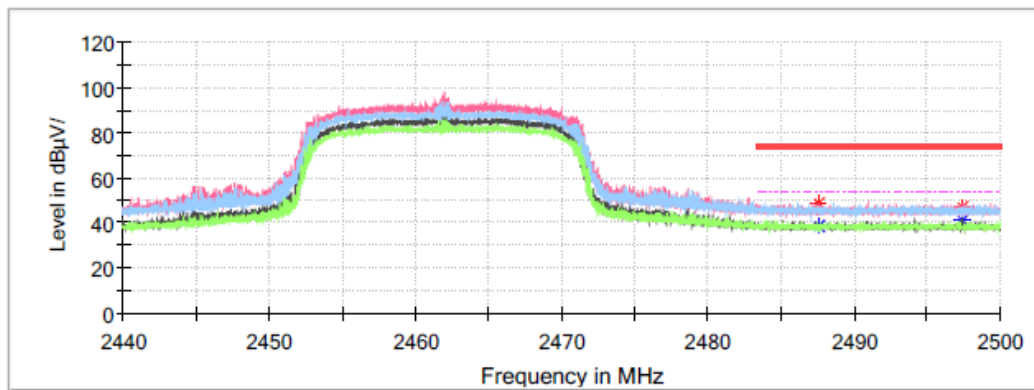
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2361.618000	---	38.46	54.00	15.54	H	-0.7
2361.618000	49.47	---	74.00	24.53	H	-0.7
2381.176000	---	40.16	54.00	13.84	V	-0.6
2381.176000	44.88	---	74.00	29.12	V	-0.6

High Channel

Common Information

Project No.: RKS240528001
Test Mode: 2.4G WIFI
Standard: FCC Part 15.209& FCC Part 15.205& FCC Part 15.247
Test Engineer: Klein Zhu

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2487.646000	48.78	---	74.00	25.22	V	-0.2
2487.646000	---	38.97	54.00	15.03	V	-0.2
2497.474000	47.41	---	74.00	26.59	H	-0.2
2497.474000	---	41.18	54.00	12.82	H	-0.2

Model: DSST21-AD6S E26 WIFITY-RGBCW with power board 2

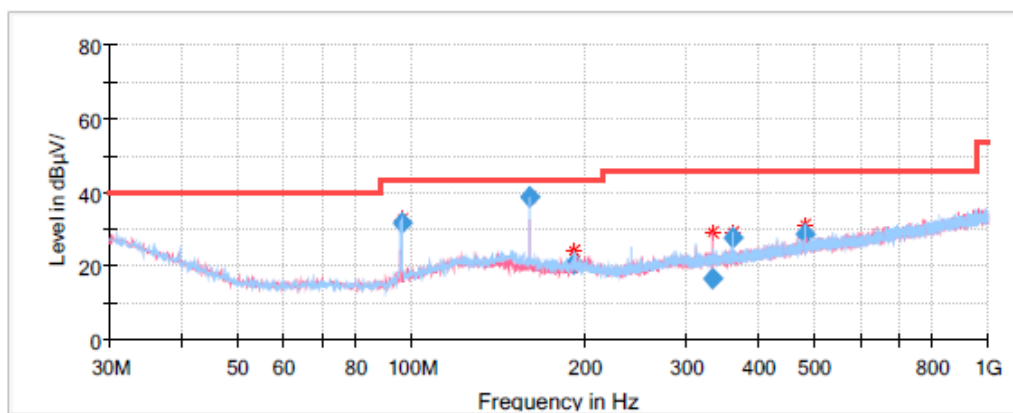
For Wi-Fi Mode:

30MHz-1GHz: 802.11b mode is worst case

Low channel: 2412MHz

Common Information

Project No:	RKSB240528001
EUT Model:	DSST21-AD6S E26 WIFITY-RGBCW
Test Mode:	Transmitting in 802.11b mode low channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Temperature:	24.7°C
Humidity:	56%
Barometric Pressure:	100.8kPa
Test Engineer:	Grace Luo
Test Date:	2024/8/17

**Final Result**

Frequency (MHz)	QuasiPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
96.039500	31.86	43.50	11.64	H	-15.4
159.993500	38.68	43.50	4.82	H	-12.2
192.011800	20.51	43.50	22.99	H	-12.5
333.125000	16.83	46.00	29.17	V	-9.7
359.982200	27.46	46.00	18.54	H	-9.0
479.997800	28.56	46.00	17.44	H	-5.9

Middle channel: 2437MHz

Common Information

Project No:

EUT Model:

Test Mode:

Standard:

Test Equipment:

Temperature:

Humidity:

Barometric Pressure:

Test Engineer:

Test Date:

RKS240528001

DS21-AD6S E26WIFIY-RGBCW

Transmitting in 802.11b mode middle channel

FCC Part 15.205 & FCC Part 15.209&FCC Part 15.247

ESCI, JB3, 310N

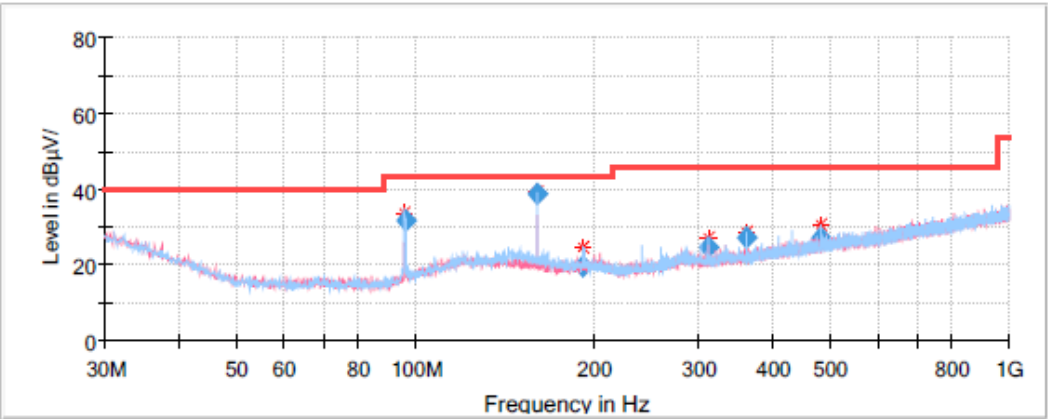
24.7°C

56%

100.8kPa

Grace Luo

2024/8/17

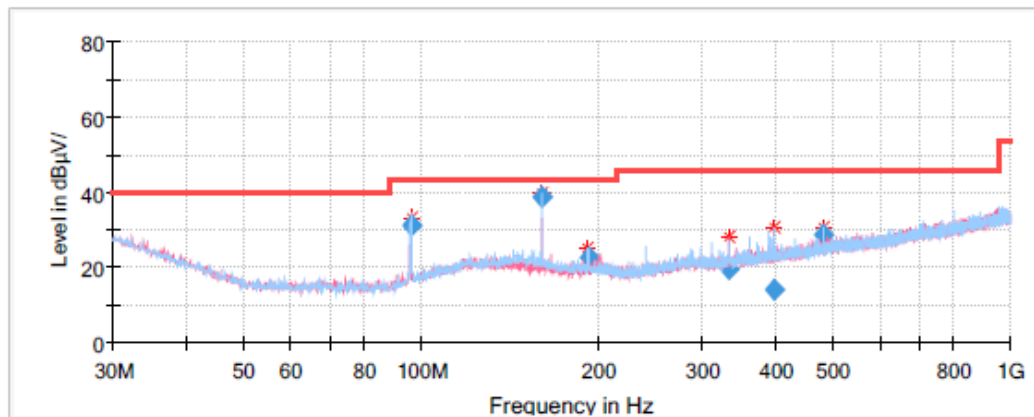


Final Result

Frequency (MHz)	QuasiPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
96.034950	31.85	43.50	11.65	H	-15.4
159.990500	38.59	43.50	4.91	H	-12.2
192.001700	19.65	43.50	23.85	H	-12.5
311.971100	24.81	46.00	21.19	H	-10.2
360.019400	27.15	46.00	18.85	H	-9.0
479.970150	27.33	46.00	18.67	H	-5.9

High Channel: 2462MHz**Common Information**

Project No: RKS240528001
EUT Model: DSST21-AD6S E26 WIFITY-RGBCW
Test Mode: Transmitting in 802.11b mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Temperature: 24.7°C
Humidity: 56%
Barometric Pressure: 100.8kPa
Test Engineer: Grace Luo
Test Date: 2024/8/17

**Final Result**

Frequency (MHz)	QuasiPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
96.063800	31.31	43.50	12.19	H	-15.4
159.991700	38.84	43.50	4.66	H	-12.2
192.106900	22.72	43.50	20.78	H	-12.5
333.125000	19.83	46.00	26.17	V	-9.7
396.417500	14.13	46.00	31.87	H	-8.1
479.987550	28.81	46.00	17.19	H	-5.9

For BLE Mode:

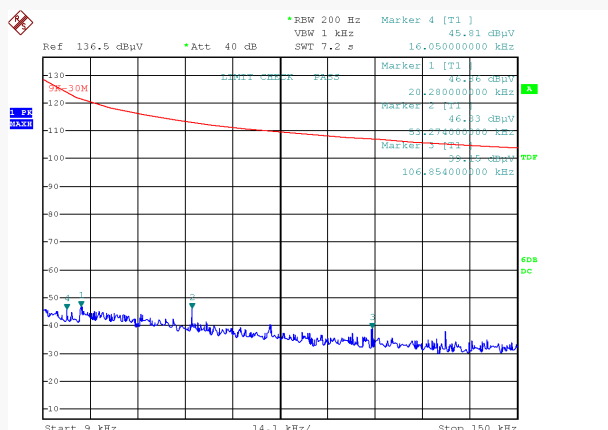
DSST21-AD6S E26 WIFITY-RGBCW with power board 1:

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

9 kHz-30 MHz: Transmitting in maximum output power high channel.

Parallel (worst case)

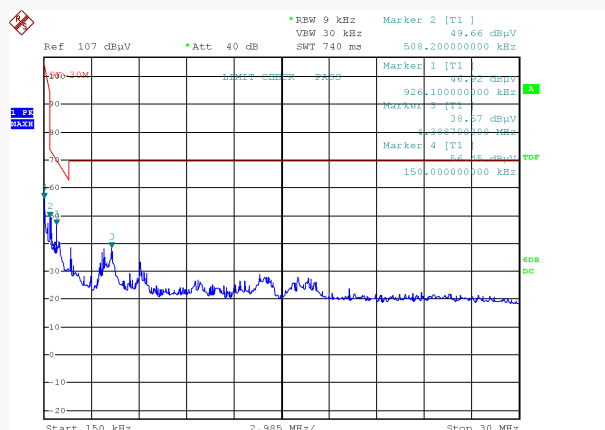
9kHz-150kHz



Project No. RKSB240528001
Date: 17.JUL.2025 21:11:17

Tester: Link Xia

150kHz-30MHz



Project No. RKSB240528001
Date: 17.JUL.2025 21:17:57

Tester: Link Xia

9kHz-150kHz

Frequency (kHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
20.28	46.86	PK	-0.56	121.46	74.60
53.27	46.33	PK	-4.19	113.08	66.75
106.85	39.15	PK	-9.50	107.03	67.88
16.05	45.81	PK	-0.54	123.50	77.69

150kHz-30MHz

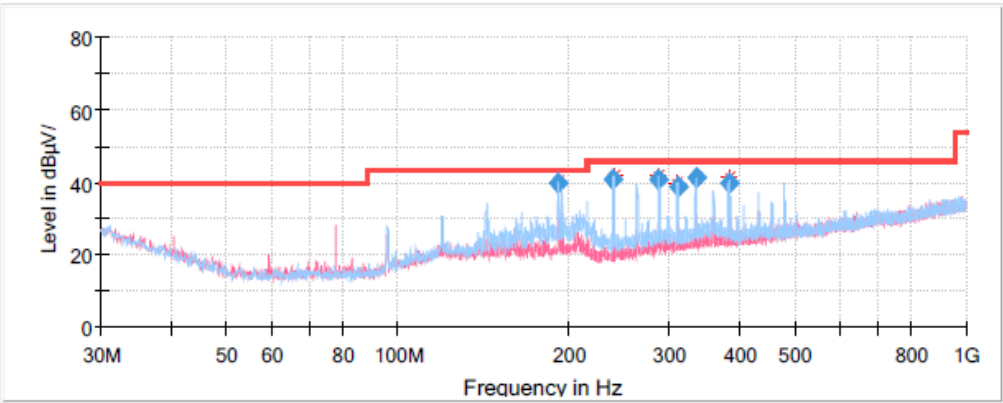
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.93	46.92	PK	-27.09	68.27	21.35
0.51	49.66	PK	-22.51	73.48	23.82
4.39	38.57	PK	-31.97	69.54	30.97
0.15	56.45	PK	-11.34	104.08	47.63

30MHz-1GHz

Low Channel: 2402MHz

Common Information

Project No:	RKS240528001
EUT Model:	DSST21-AD6S E26 WIFITY-RGBCW
Test Mode:	BLE 1M
Standard:	FCC Part 15.209& FCC Part 15.205& FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Temperature:	24.2℃
Humidity:	56%
Barometric Pressure:	100.1kPa
Test Engineer:	Leah Li
Test Date:	2024/6/20

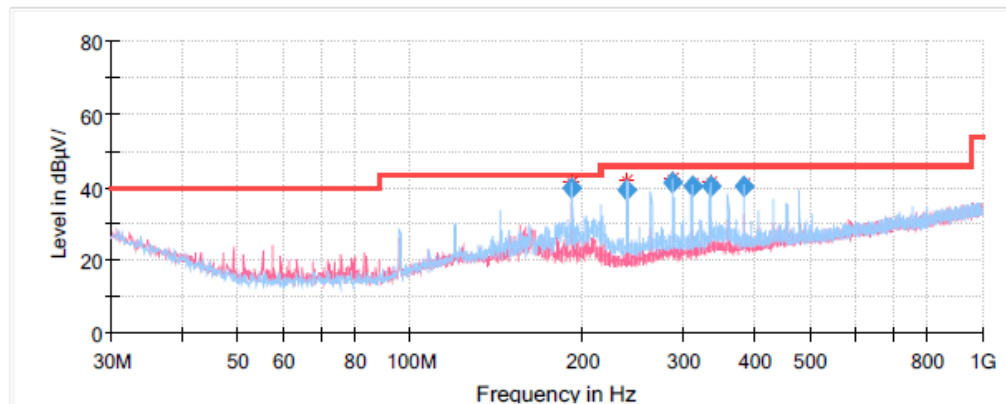


Final Result

Frequency (MHz)	QuasiPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
192.010100	39.52	43.50	3.98	H	-12.5
238.757200	40.61	46.00	5.39	H	-12.7
286.489650	40.69	46.00	5.31	H	-10.6
311.091400	38.65	46.00	7.35	H	-10.2
335.695250	41.20	46.00	4.80	H	-9.6
382.887050	39.83	46.00	6.17	H	-8.4

Middle Channel: 2440MHz**Common Information**

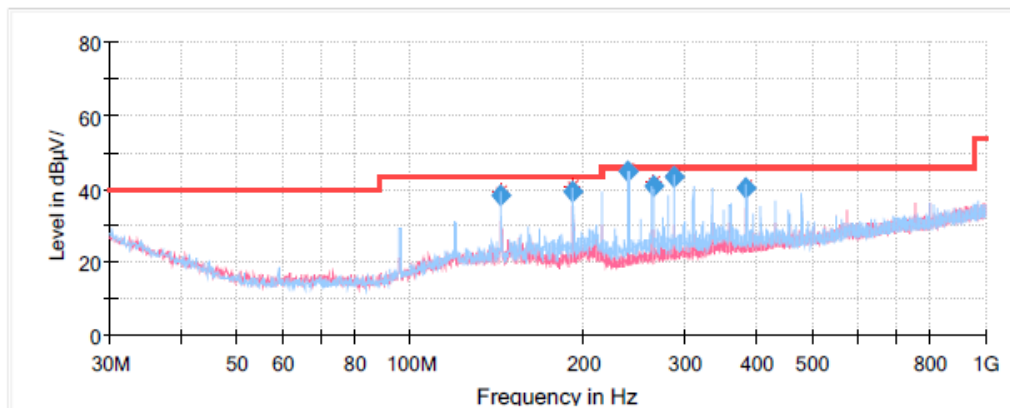
Project No: RKSB240528001
EUT Model: DSST21-AD6S E26 WIFITY-RGBCW
Test Mode: BLE 1M
Standard: FCC Part 15.209& FCC Part 15.205& FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Temperature: 24.2°C
Humidity: 56%
Barometric Pressure: 100.1kPa
Test Engineer: Leah Li
Test Date: 2024/6/20

**Final Result**

Frequency (MHz)	QuasiPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
191.990000	39.65	43.50	3.85	H	-12.5
238.670000	39.15	46.00	6.85	H	-12.7
287.170000	41.19	46.00	4.81	H	-10.6
311.785000	40.45	46.00	5.55	H	-10.2
335.670000	40.13	46.00	5.87	H	-9.6
383.560000	40.12	46.00	5.88	H	-8.4

High Channel: 2480MHz**Common Information**

Project No: RKSB240528001
EUT Model: DSST21-AD6S E26 WIFITY-RGBCW
Test Mode: BLE 1M
Standard: FCC Part 15.209& FCC Part 15.205& FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Temperature: 24.2°C
Humidity: 56%
Barometric Pressure: 100.1kPa
Test Engineer: Leah Li
Test Date: 2024/6/20

**Final Result**

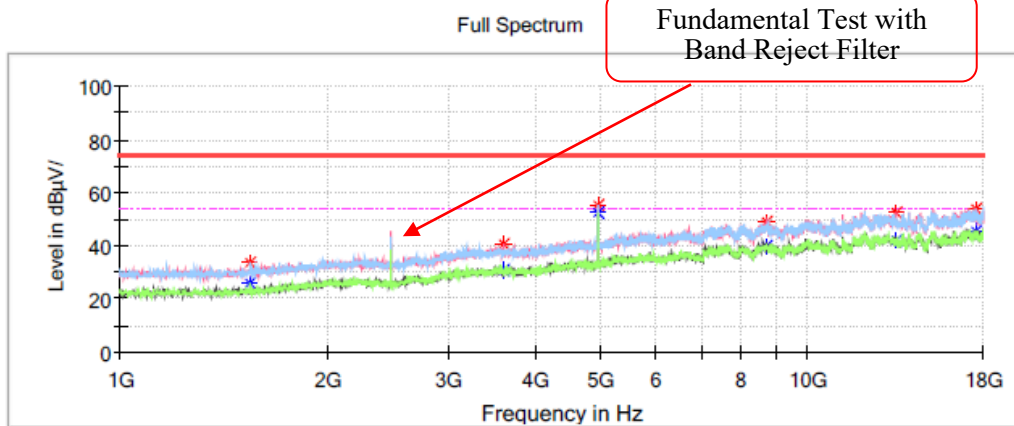
Frequency (MHz)	QuasiPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
143.598050	38.25	43.50	5.25	H	-11.5
191.879850	39.21	43.50	4.29	H	-12.5
238.799700	44.80	46.00	1.20	H	-12.7
263.831050	40.86	46.00	5.14	H	-11.7
287.205150	43.03	46.00	2.97	H	-10.6
383.696750	40.17	46.00	5.83	H	-8.4

1GHz-18GHz:

Low Channel: 2402MHz

Common Information

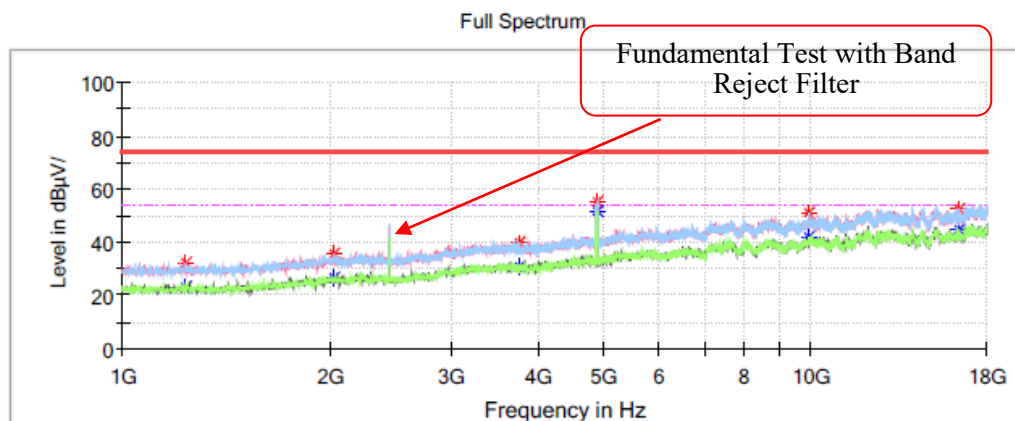
Project No.: RKS240528001
 Test Mode: BLE mode
 Standard: FCC Part 15.209& FCC Part 15.205& FCC Part 15.247
 Test Engineer: Hugh Wu

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1545.700000	33.62	---	74.00	40.38	H	-14.5
1545.700000	---	25.56	54.00	28.44	H	-14.5
3612.900000	---	30.62	54.00	23.38	V	-6.2
3612.900000	40.27	---	74.00	33.73	V	-6.2
4959.300000	---	52.40	54.00	1.60	V	-2.6
4959.300000	55.48	---	74.00	18.52	V	-2.6
8685.700000	---	39.81	54.00	14.19	V	5.4
8685.700000	48.83	---	74.00	25.17	V	5.4
13420.200000	---	41.78	54.00	12.22	V	9.6
13420.200000	52.11	---	74.00	21.89	V	9.6
17602.200000	---	45.14	54.00	8.86	H	11.6
17602.200000	53.90	---	74.00	20.10	H	11.6

Middle Channel: 2440MHz**Common Information**

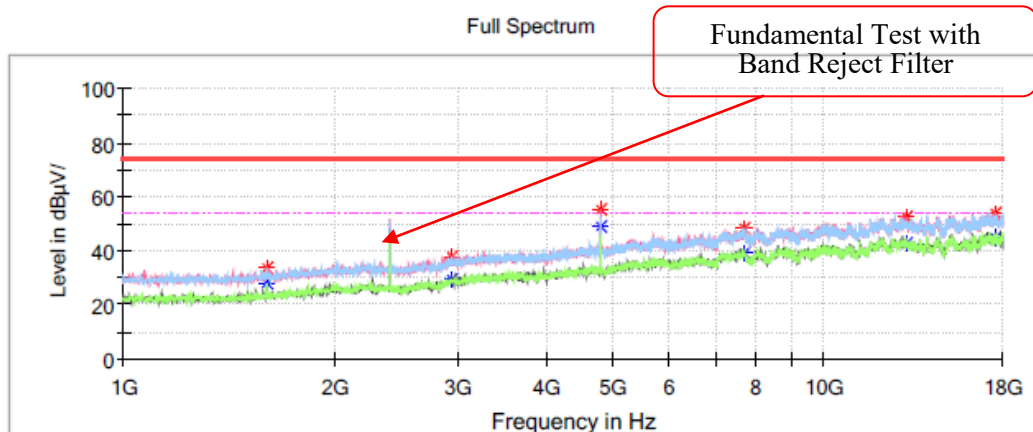
Project No.: RKSB240528001
 Test Mode: BLE mode
 Standard: FCC Part 15.209& FCC Part 15.205& FCC Part 15.247
 Test Engineer: Hugh Wu

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1236.300000	---	22.98	54.00	31.02	H	-15.1
1236.300000	31.85	---	74.00	42.15	H	-15.1
2025.100000	---	26.38	54.00	27.62	H	-11.7
2025.100000	35.78	---	74.00	38.22	H	-11.7
3774.400000	---	30.66	54.00	23.34	H	-6.1
3774.400000	39.54	---	74.00	34.46	H	-6.1
4879.400000	---	51.98	54.00	2.02	H	-2.9
4879.400000	54.93	---	74.00	19.07	H	-2.9
9942.000000	---	42.07	54.00	11.93	H	6.9
9942.000000	51.29	---	74.00	22.71	H	6.9
16364.600000	---	44.43	54.00	9.57	V	10.4
16364.600000	52.68	---	74.00	21.32	V	10.4

High Channel: 2480MHz**Common Information**

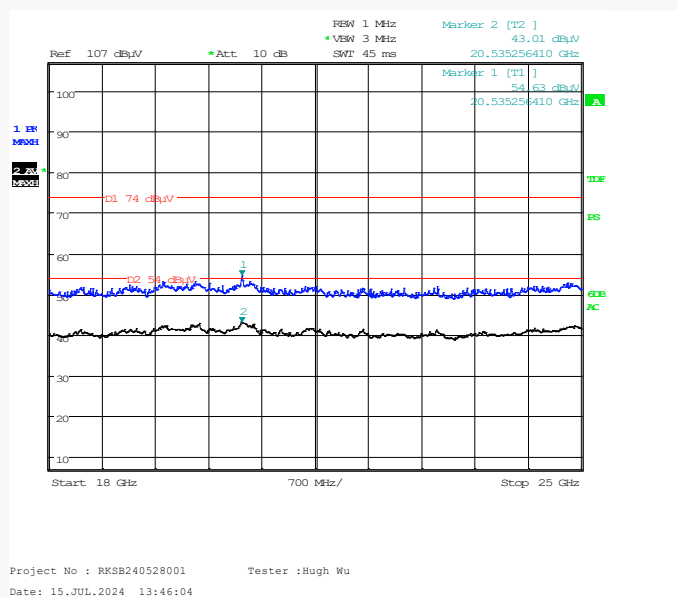
Project No.: RKSB240528001
 Test Mode: BLE mode
 Standard: FCC Part 15.209& FCC Part 15.205& FCC Part 15.247
 Test Engineer: Hugh Wu

**Critical Freqs**

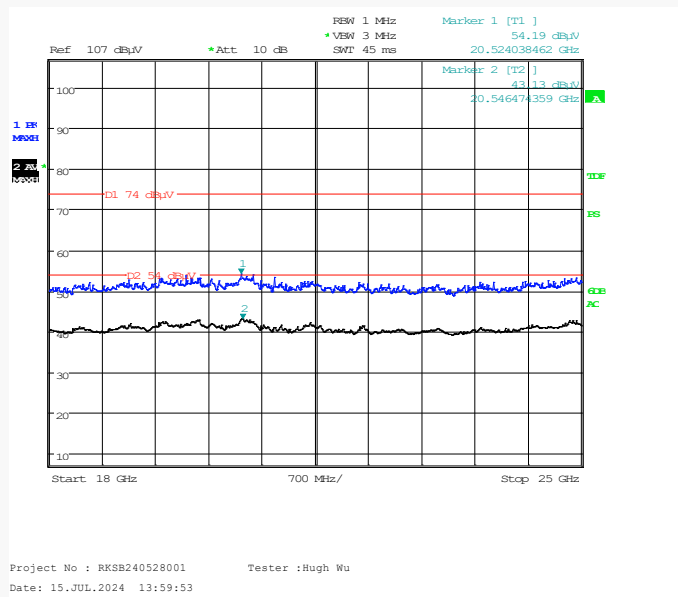
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1598.400000	---	27.90	54.00	26.10	H	-14.1
1598.400000	33.81	---	74.00	40.19	H	-14.1
2938.000000	---	29.48	54.00	24.52	H	-8.6
2938.000000	37.90	---	74.00	36.10	H	-8.6
4802.900000	---	48.61	54.00	5.39	V	-3.2
4802.900000	55.48	---	74.00	18.52	V	-3.2
7684.400000	---	38.84	54.00	15.16	H	3.9
7684.400000	48.34	---	74.00	25.66	H	3.9
13155.000000	---	42.87	54.00	11.13	H	9.6
13155.000000	52.34	---	74.00	21.66	H	9.6
17605.600000	---	45.05	54.00	8.95	V	11.6
17605.600000	53.63	---	74.00	20.37	V	11.6

18GHz-25GHz: Transmitting in maximum output power high channel.

Horizontal:



Vertical:



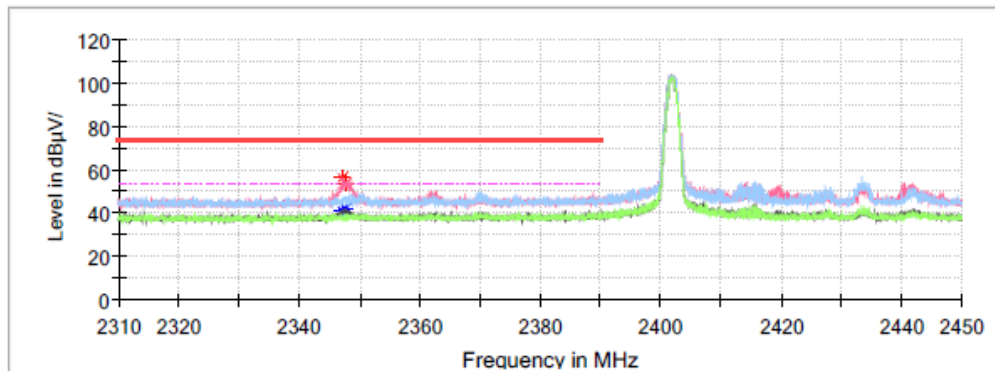
Frequency (GHz)	Max Peak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.54	---	43.01	54	10.99	H	12.77
20.54	54.63	---	74	19.37	H	12.77
20.54	---	43.13	54	10.87	V	12.77
20.53	54.19	---	74	19.81	V	12.76

Note: The test distance is 3m. The limit is 74dBμV/m(Peak) and 54dBμV/m(Average).

Band Edge:**Low Channel****Common Information**

Project No.:	RKS240528001
Test Mode:	BLE
Standard:	FCC Part 15.209& FCC Part 15.205& FCC Part 15.247
Test Engineer:	Hugh Wu

Full Spectrum

**Critical_Freqs**

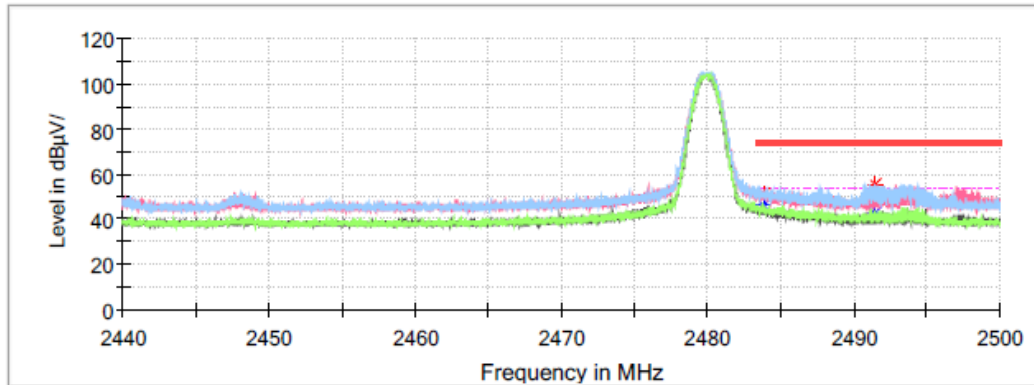
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2347.184000	56.12	---	74.00	17.88	V	-0.7
2347.184000	---	41.33	54.00	12.67	V	-0.7
2347.674000	53.43	---	74.00	20.57	V	-0.7
2347.674000	---	42.06	54.00	11.94	V	-0.7

High Channel

Common Information

Project No.: RKSB240528001
Test Mode: BLE
Standard: FCC Part 15.209& FCC Part 15.205& FCC Part 15.247
Test Engineer: Peter Wang

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.788000	51.55	---	74.00	22.45	H	-0.3
2483.788000	---	46.24	54.00	7.76	H	-0.3
2491.444000	55.60	---	74.00	18.40	H	-0.2
2491.444000	---	42.93	54.00	11.07	H	-0.2

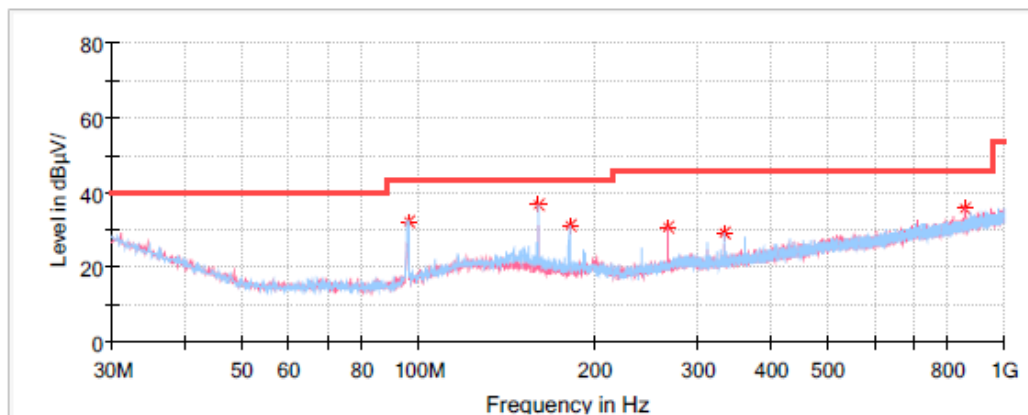
DSST21-AD6S E26 WIFITY-RGBCW with power board 2:

For BLE Mode:
30MHz-1GHz

Low Channel: 2402MHz

Common Information

Project No:	RKS240528001
EUT Model:	DSST21-AD6S E26 WIFITY-RGBCW
Test Mode:	Transmitting in BLE-1M mode low channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Temperature:	24.7°C
Humidity:	56%
Barometric Pressure:	100.8kPa
Test Engineer:	Grace Luo
Test Date:	2024/8/17



Critical Freqs

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
96.081250	32.38	43.50	11.12	H	-15.4
159.980000	36.92	43.50	6.58	H	-12.2
181.077500	31.05	43.50	12.45	H	-13.0
266.558750	30.80	46.00	15.20	V	-11.5
332.276250	29.29	46.00	16.71	H	-9.7
855.712500	35.49	46.00	10.51	V	0.2

Middle Channel: 2440MHz

Common Information

Project No:

EUT Model:

Test Mode:

Standard:

Test Equipment:

Temperature:

Humidity:

Barometric Pressure:

Test Engineer:

Test Date:

RKSB240528001

DSST21-AD6S E26 WIFITY-RGBCW

Transmitting in BLE-1M mode middle channel

FCC Part 15.205 &FCC Part 15.209&FCC Part 15.247

ESCI, JB3, 310N

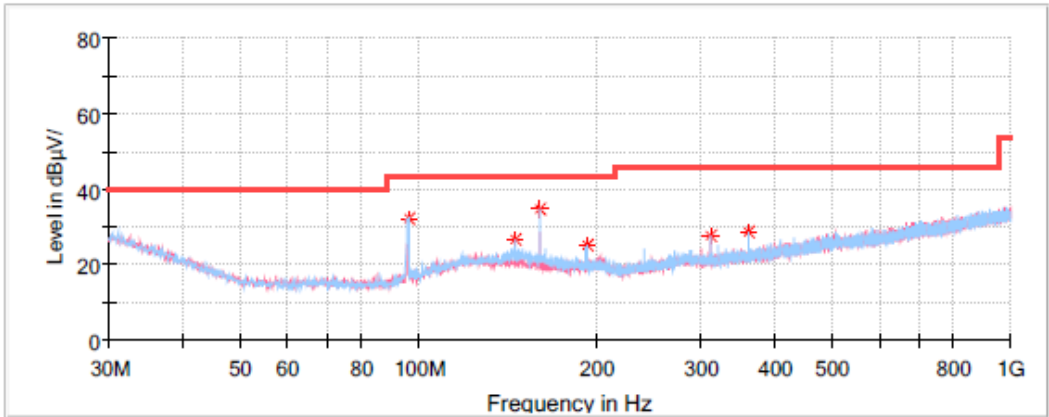
24.7℃

56%

100.8kPa

Grace Luo

2024/8/17

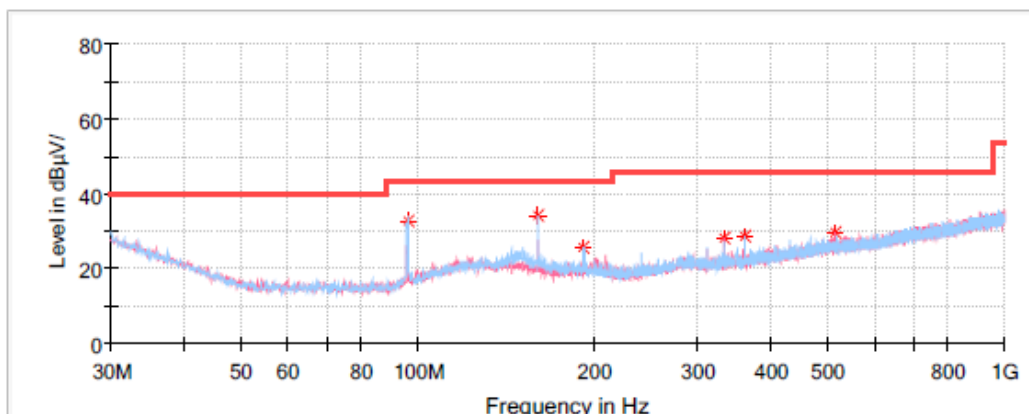


Critical Freqs

Frequency (MHz)	MaxPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
95.960000	32.04	43.50	11.46	H	-15.5
145.672500	26.78	43.50	16.72	H	-11.6
159.980000	34.76	43.50	8.74	H	-12.2
192.111250	25.09	43.50	18.41	H	-12.5
312.027500	27.89	46.00	18.11	H	-10.2
359.921250	28.65	46.00	17.35	H	-9.0

High Channel: 2480MHz**Common Information**

Project No:	RKS240528001
EUT Model:	DSST21-AD6S E26 WIFITY-RGBCW
Test Mode:	Transmitting in BLE-1M mode high channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Temperature:	24.7°C
Humidity:	56%
Barometric Pressure:	100.8kPa
Test Engineer:	Grace Luo
Test Date:	2024/8/17

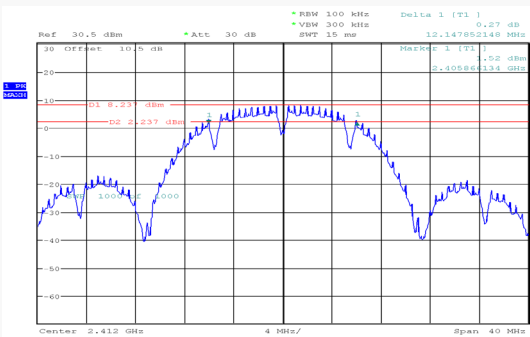
**Critical Freqs**

Frequency (MHz)	MaxPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
96.081250	32.61	43.50	10.89	H	-15.4
159.980000	34.21	43.50	9.29	H	-12.2
191.747500	25.55	43.50	17.95	H	-12.5
332.761250	28.42	46.00	17.58	V	-9.7
359.921250	28.62	46.00	17.38	H	-9.0
516.091250	29.55	46.00	16.45	V	-5.2

6 dB EMISSION BANDWIDTH**Test Result:** Compliant.*EUT operation mode: Transmitting***For Wi-Fi Mode:**

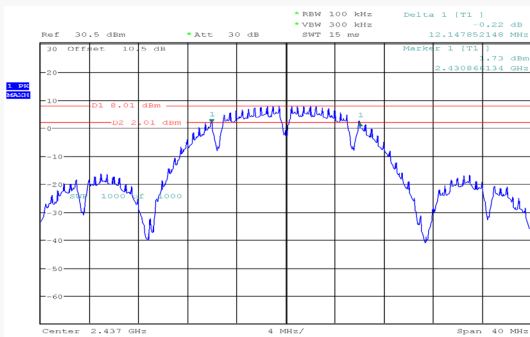
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
802.11b Mode			
Low	2412	12.148	≥ 0.5
Middle	2437	12.148	≥ 0.5
High	2462	12.179	≥ 0.5
802.11g Mode			
Low	2412	15.624	≥ 0.5
Middle	2437	15.584	≥ 0.5
High	2462	15.664	≥ 0.5
802.11n-HT20 Mode			
Low	2412	11.429	≥ 0.5
Middle	2437	11.429	≥ 0.5
High	2462	12.667	≥ 0.5

802.11b Mode Low Channel



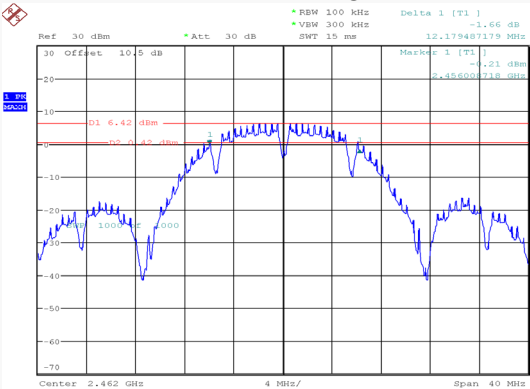
ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 25.JUN.2024 14:27:07

802.11b Mode Middle Channel



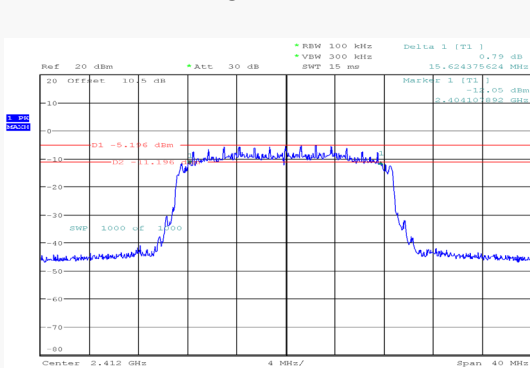
ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 25.JUN.2024 14:52:44

802.11b Mode High Channel



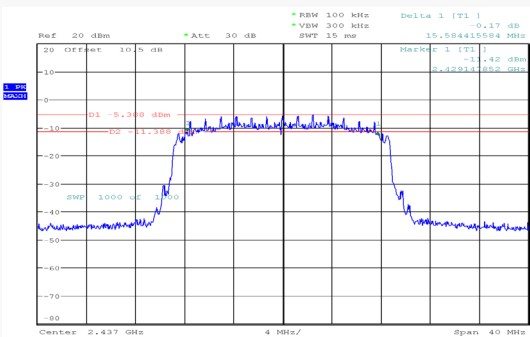
ProjectNo.:RKSB240528001 Tester:Neil Zhou
Date: 1.AUG.2025 13:46:07

802.11g Mode Low Channel



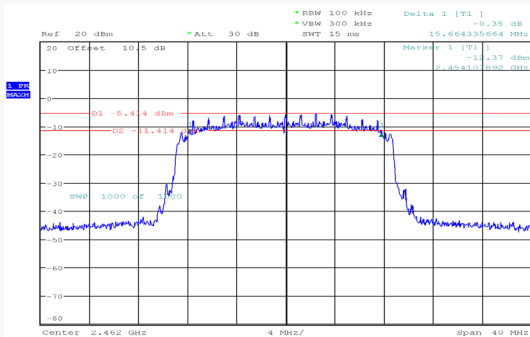
ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 24.JUN.2024 17:31:51

802.11g Mode Middle Channel



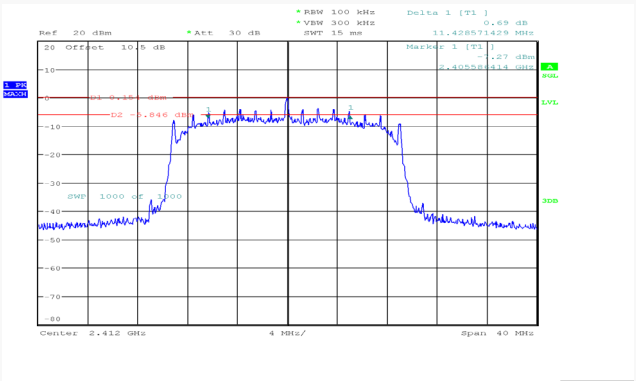
ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 24.JUN.2024 17:45:33

802.11g Mode High Channel



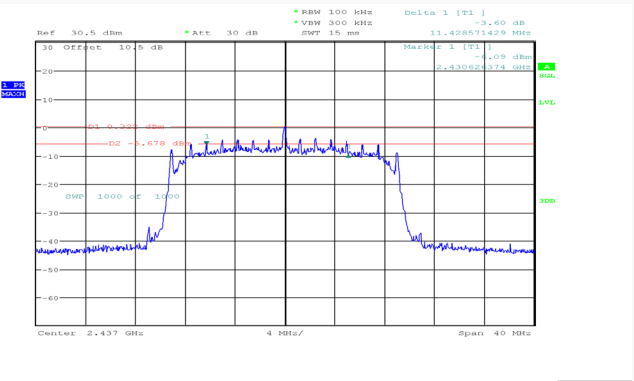
ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 24.JUN.2024 17:54:14

802.11n-HT20 Mode Low Channel



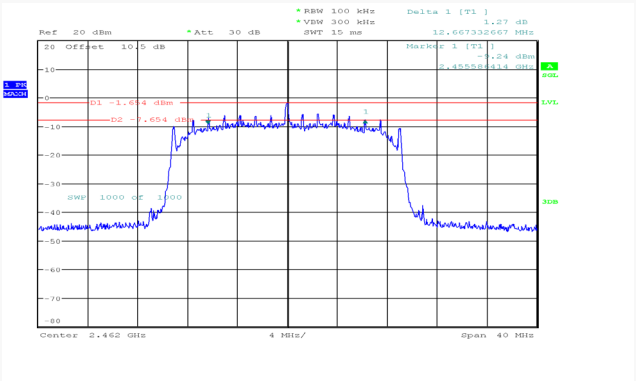
ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 25.JUN.2024 13:33:23

802.11n-HT20 Mode Middle Channel



ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 25.JUN.2024 13:47:37

802.11n-HT20 Mode High Channel

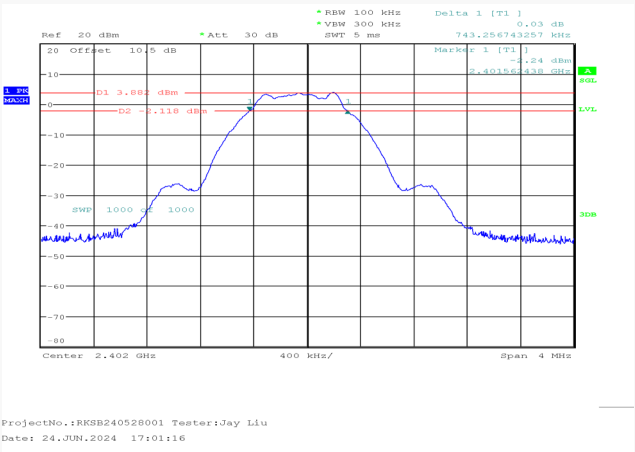


ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 25.JUN.2024 13:55:20

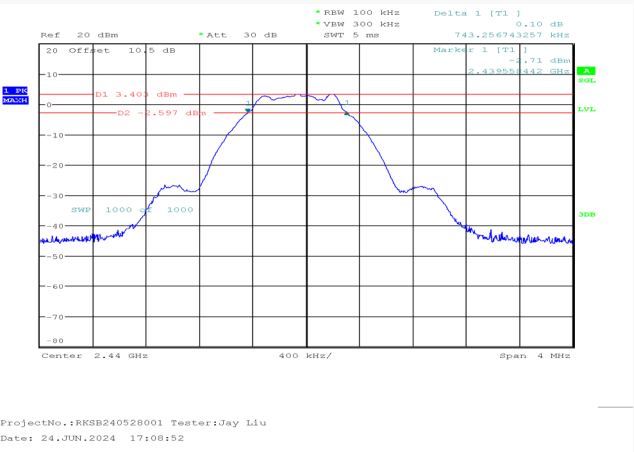
For BLE Mode:

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
Low	2402	0.743	≥0.5
Middle	2440	0.743	≥0.5
High	2480	0.743	≥0.5

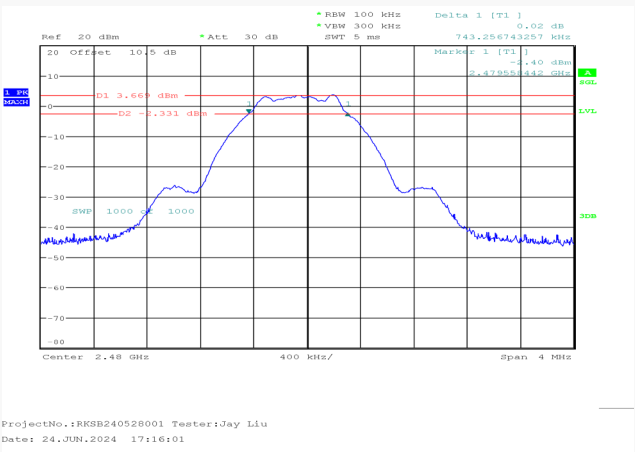
Low Channel



Middle Channel



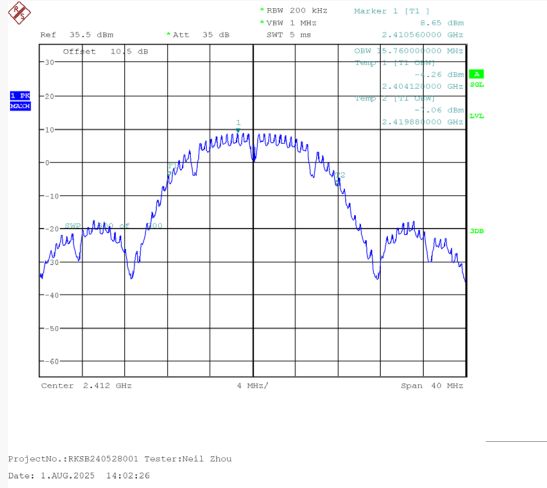
High Channel



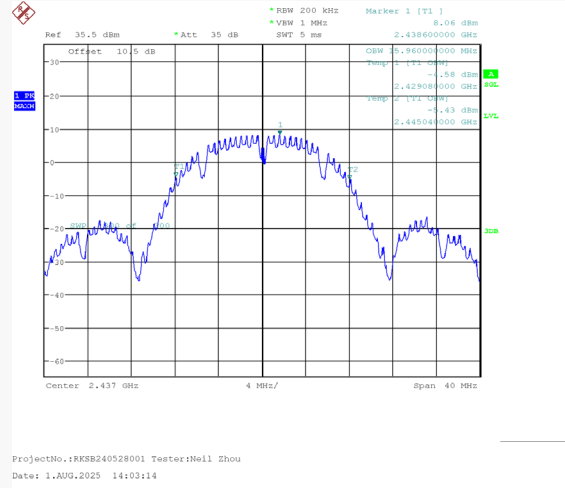
OCCUPIED BANDWIDTH*EUT operation mode: Transmitting***For Wi-Fi Mode:**

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
802.11b Mode		
Low	2412	15.760
Middle	2437	15.960
High	2462	16.440
802.11g Mode		
Low	2412	17.400
Middle	2437	17.360
High	2462	17.400
802.11n-HT20 mode		
Low	2412	18.280
Middle	2437	18.200
High	2462	18.280

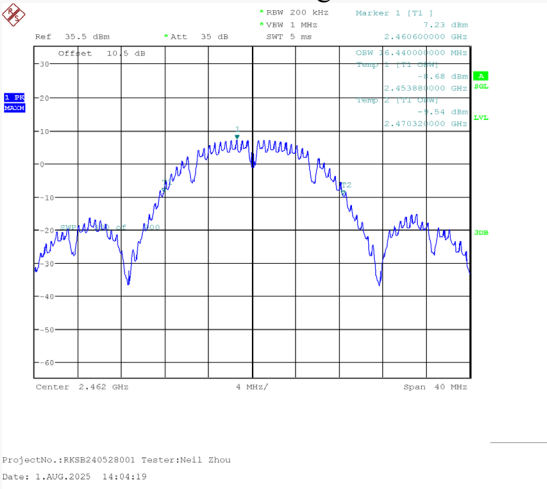
802.11b Mode Low Channel



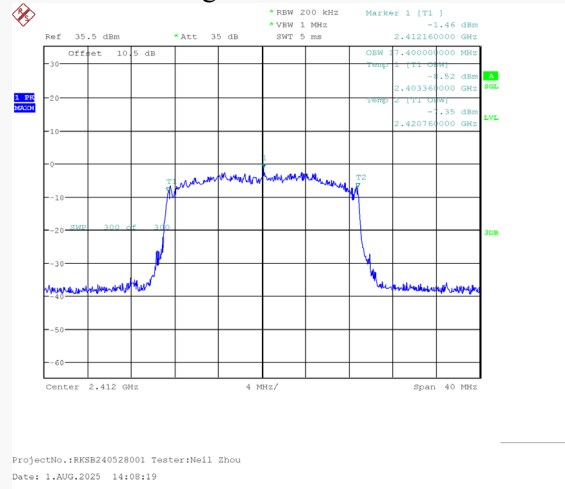
802.11b Mode Middle Channel



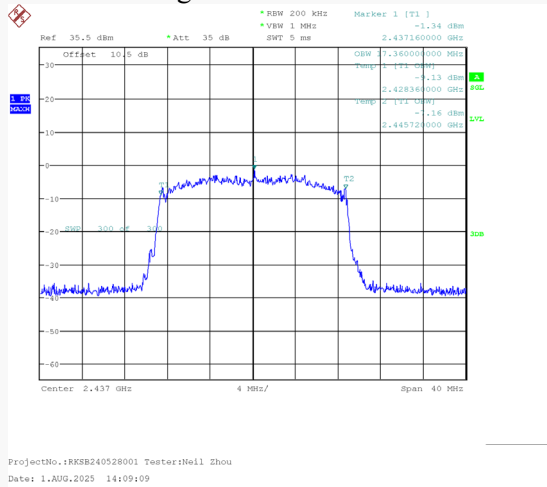
802.11b Mode High Channel



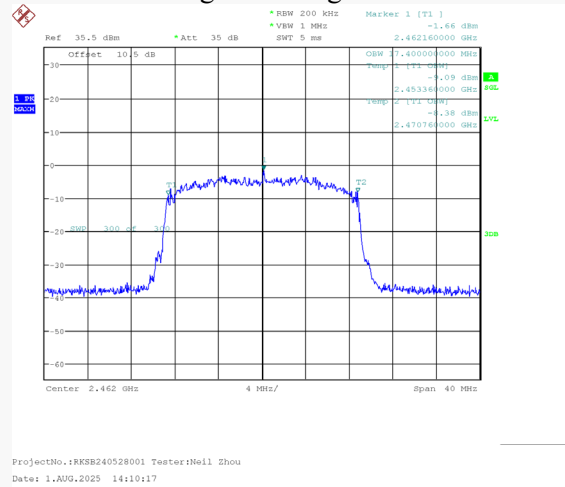
802.11g Mode Low Channel



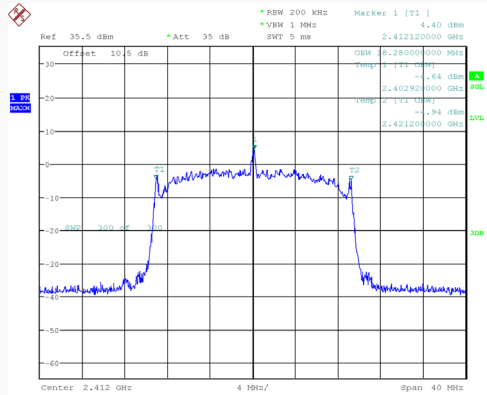
802.11g Mode Middle Channel



802.11g Mode High Channel

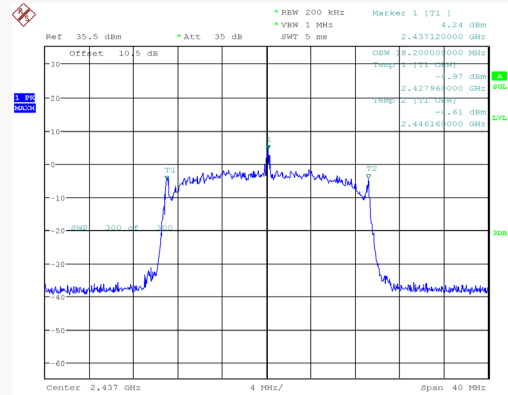


802.11n-HT20 Mode Low Channel



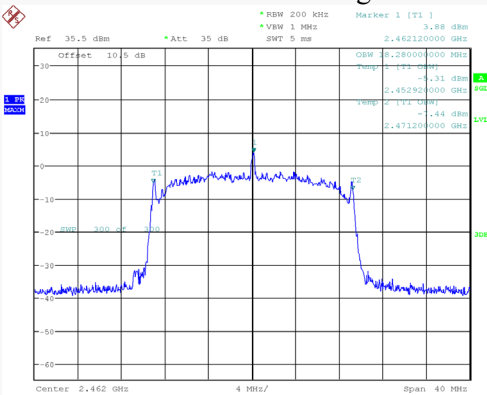
ProjectNo.:RKS240528001 Tester:Neil Zhou
Date: 1.AUG.2025 14:14:23

802.11n-HT20 Mode Middle Channel



ProjectNo.:RKSB240528001 Tester:Neil Zhou
Date: 1.AUG.2025 14:24:26

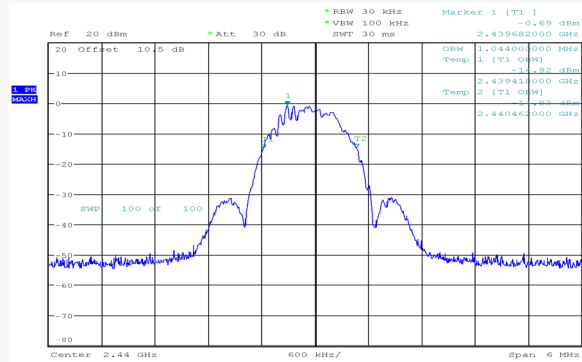
802.11n-HT20 Mode High Channel



ProjectNo.:RKSB240528001 Tester:Neil Zhou
Date: 1.AUG.2025 14:25:41

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
Low	2402	1.044
Middle	2440	1.044
High	2480	1.044

Middle Channel



ProjectNo.:RKSBB240528001 Tester:Jay Liu
Date: 24.JUN.2024 17:09:07

Ref 20 dBm 10.5 dB 3 Att 30 dB 2.47942000 GHz -0.43 dBm
 RBW 30 kHz
 VBW 100 kHz
 SWT 30 ms

Marker 1 [T1] 1
 2.47942000 GHz
 -0.43 dBm

SWP 100 dB 100

Temp 1 [T1] 0.00V
 2.47942000 GHz
 Temp 2 [T1] 0.00V
 2.48042000 GHz

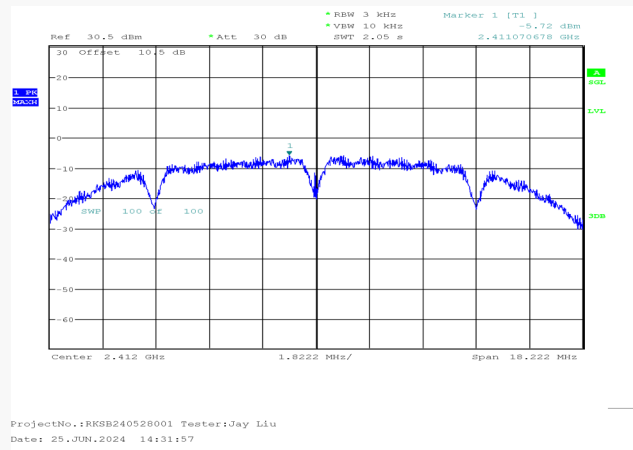
Center 2.48 GHz 600 kHz/ Span 6 GHz

FCC Part 15.247

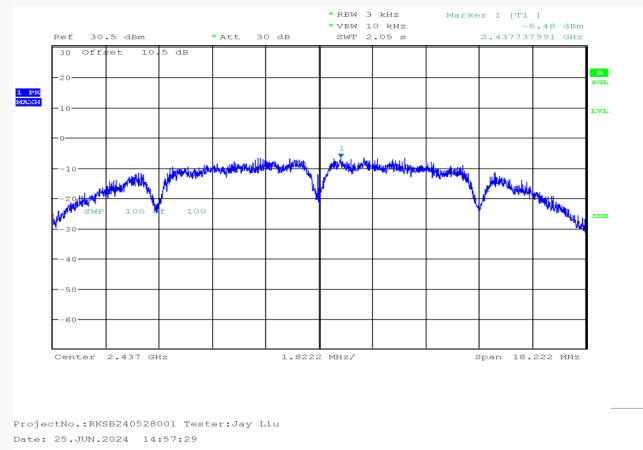
POWER SPECTRAL DENSITY**Test Result:** Compliant.*EUT operation mode: Transmitting***For Wi-Fi Mode:**

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b Mode			
Low	2412	-5.72	≤ 8
Middle	2437	-6.48	≤ 8
High	2462	-7.53	≤ 8
802.11g Mode			
Low	2412	-18.18	≤ 8
Middle	2437	-18.22	≤ 8
High	2462	-18.22	≤ 8
802.11n-HT20 mode			
Low	2412	-17.22	≤ 8
Middle	2437	-17.30	≤ 8
High	2462	-18.65	≤ 8

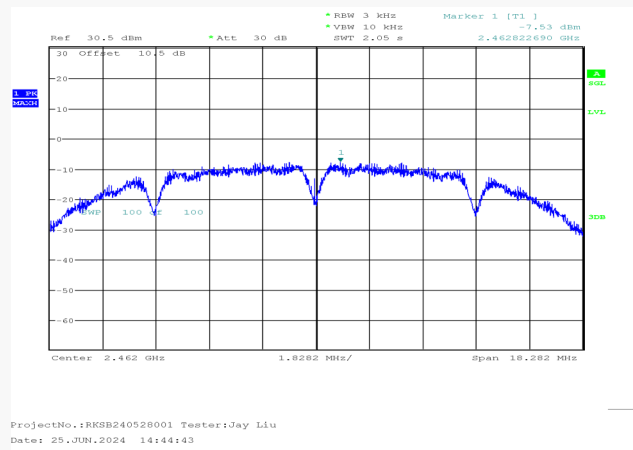
802.11b Low Channel



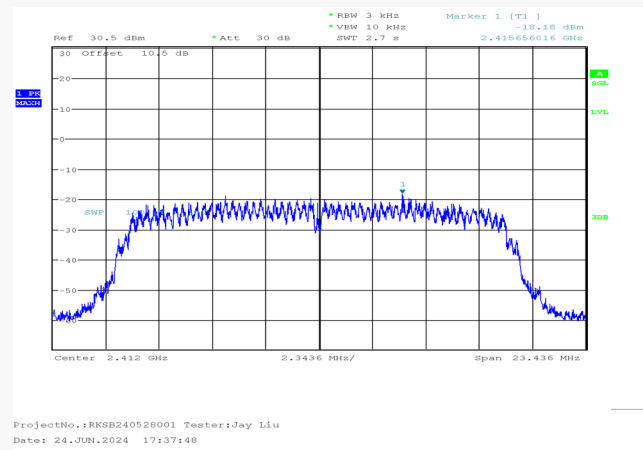
802.11b Middle Channel



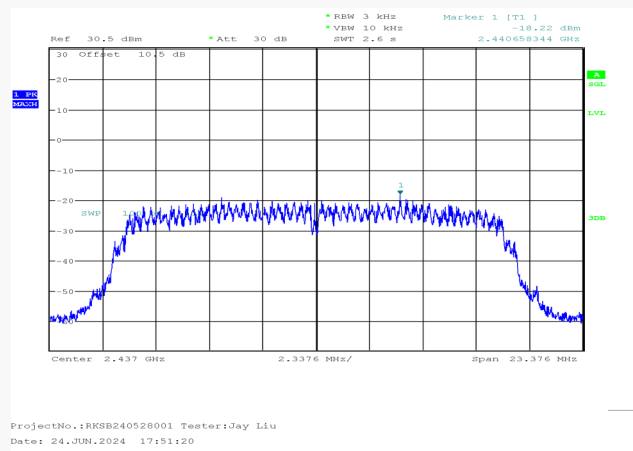
802.11b High Channel



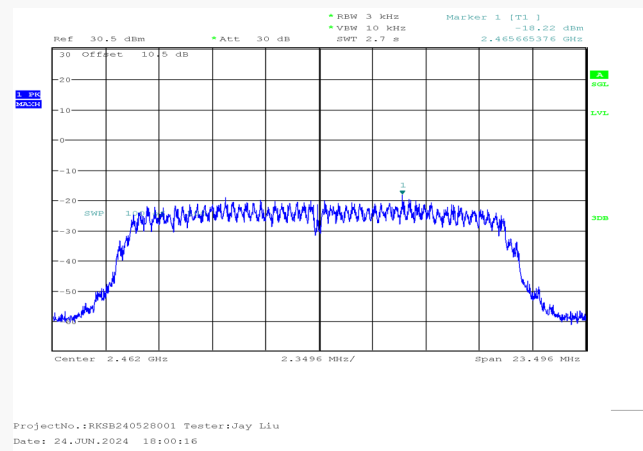
802.11g Low Channel



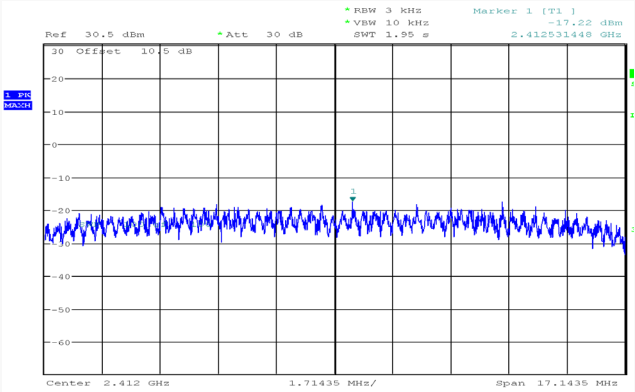
802.11g Middle Channel



802.11g High Channel

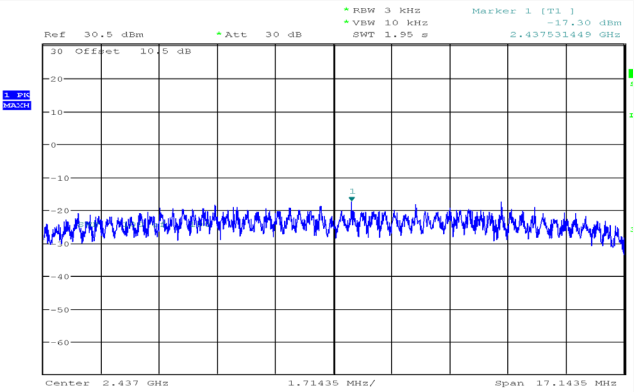


802.11n-HT20 Low Channel



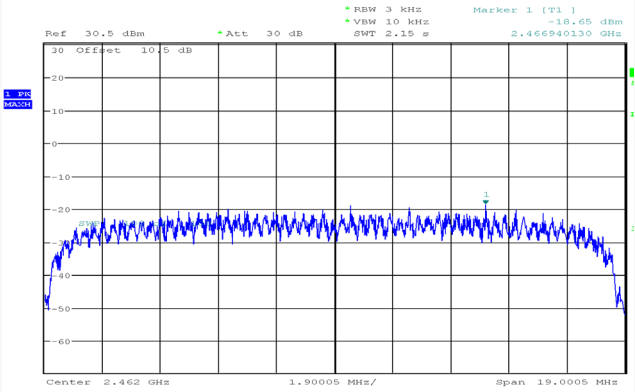
ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 25.JUN.2024 13:38:04

802.11n-HT20 Middle Channel



ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 25.JUN.2024 13:52:14

802.11n-HT20 High Channel

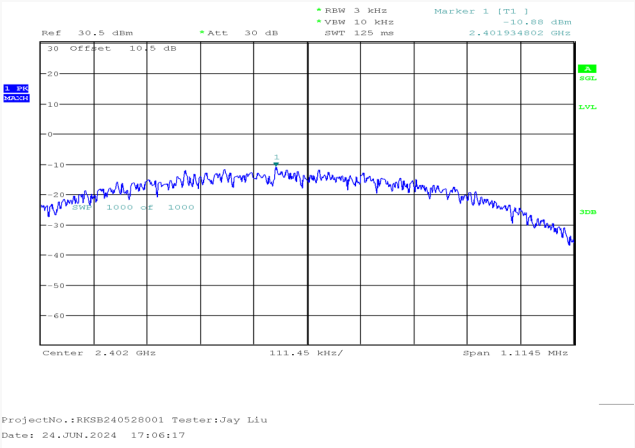


ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 25.JUN.2024 14:00:27

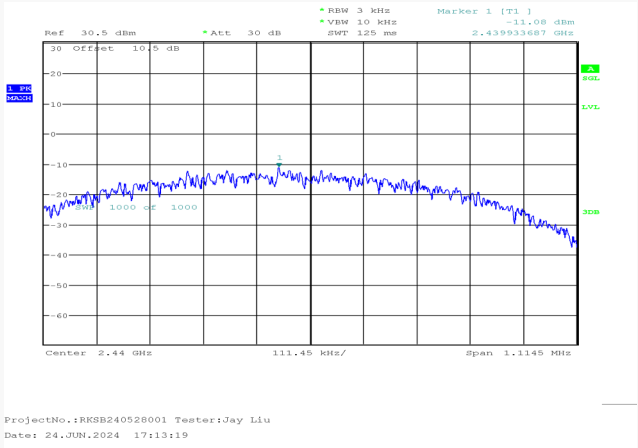
For BLE Mode:

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
Low	2402	-10.88	≤8
Middle	2440	-11.08	≤8
High	2480	-10.78	≤8

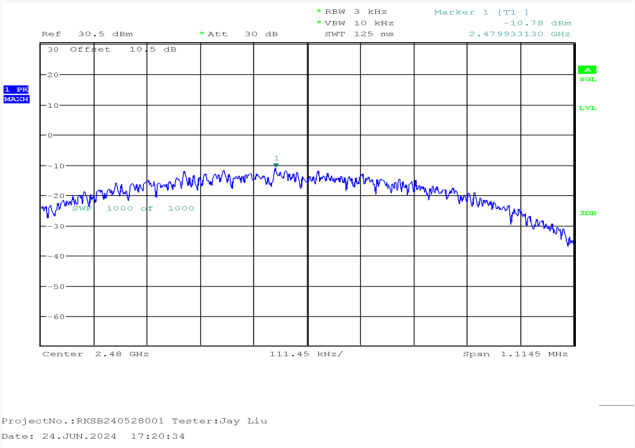
Low Channel



Middle Channel



High Channel



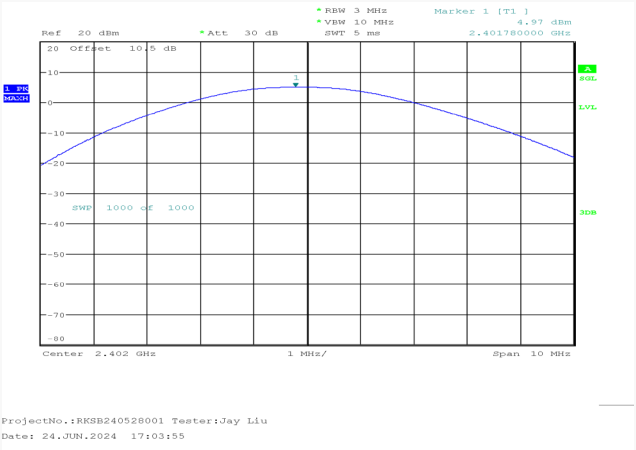
TRANSMITTER OUTPUT POWER MEASUREMENT

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Max Conducted Average Output Power (dBm)	Limit (dBm)
802.11b Mode				
Low	2412	23.41	19.84	≤30
Middle	2437	23.07	19.37	≤30
High	2462	21.98	18.23	≤30
802.11g Mode				
Low	2412	18.19	8.55	≤30
Middle	2437	18.12	8.65	≤30
High	2462	18.27	8.84	≤30
802.11n-HT20 Mode				
Low	2412	19.95	9.86	≤30
Middle	2437	19.75	9.84	≤30
High	2462	18.61	8.68	≤30

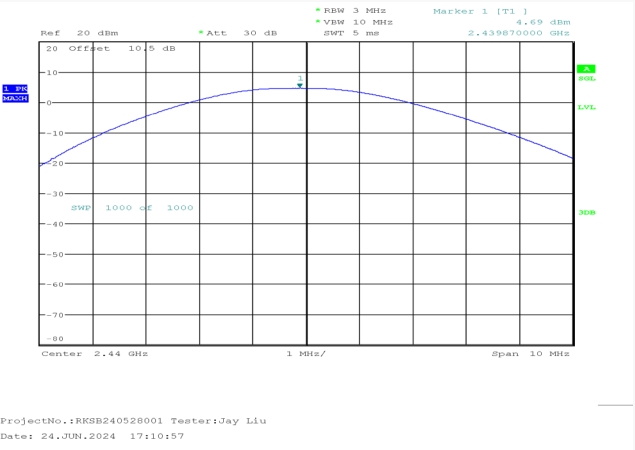
BLE Mode:

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Peak Output Power Limit (dBm)
Low	2402	4.97	≤30
Middle	2440	4.69	≤30
High	2480	4.98	≤30

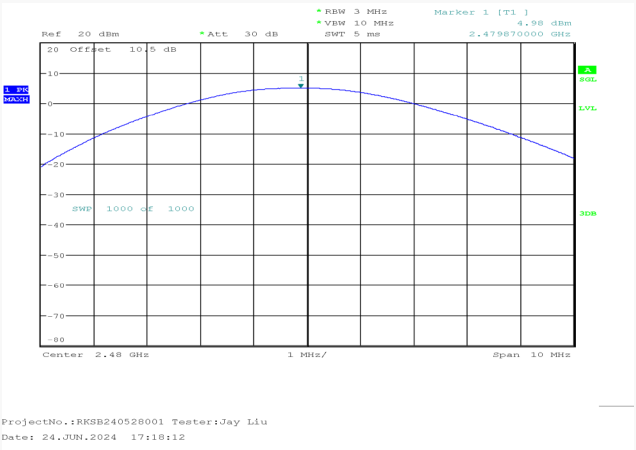
Low Channel

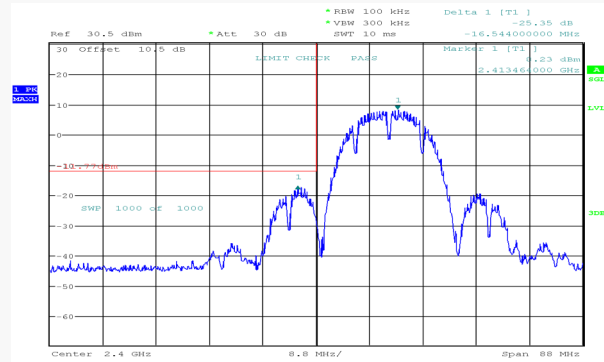
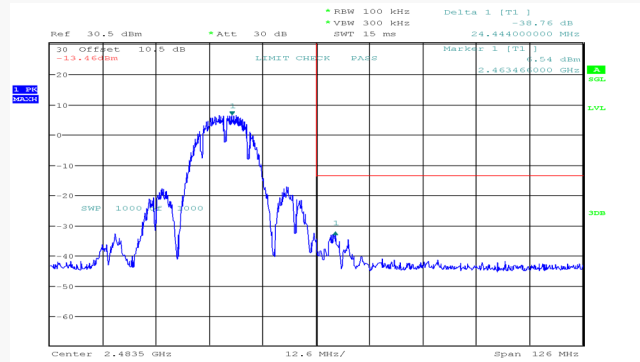
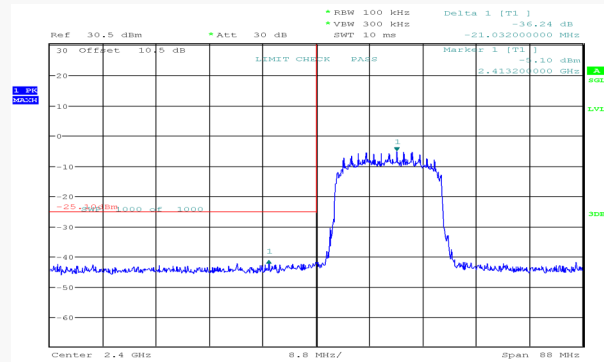
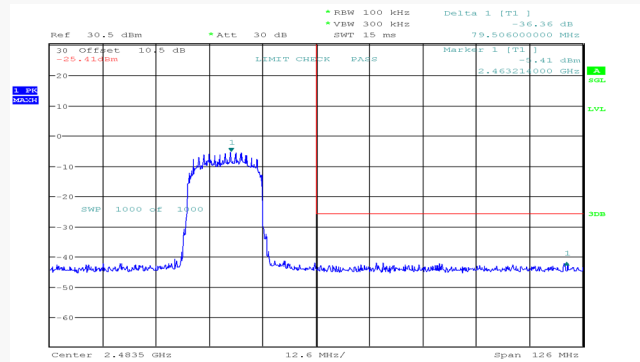
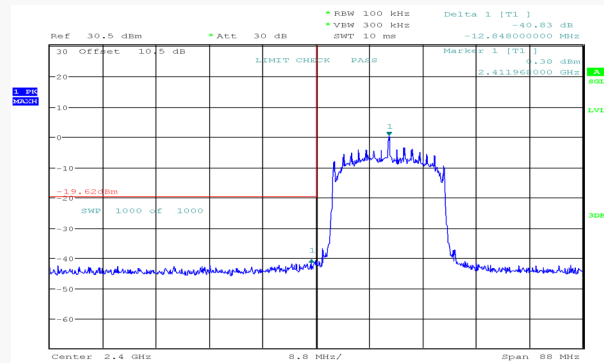
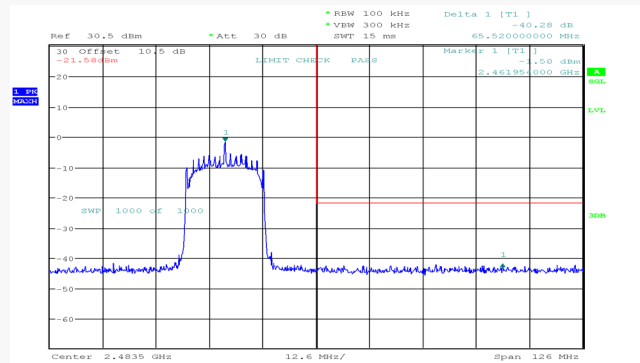


Middle Channel



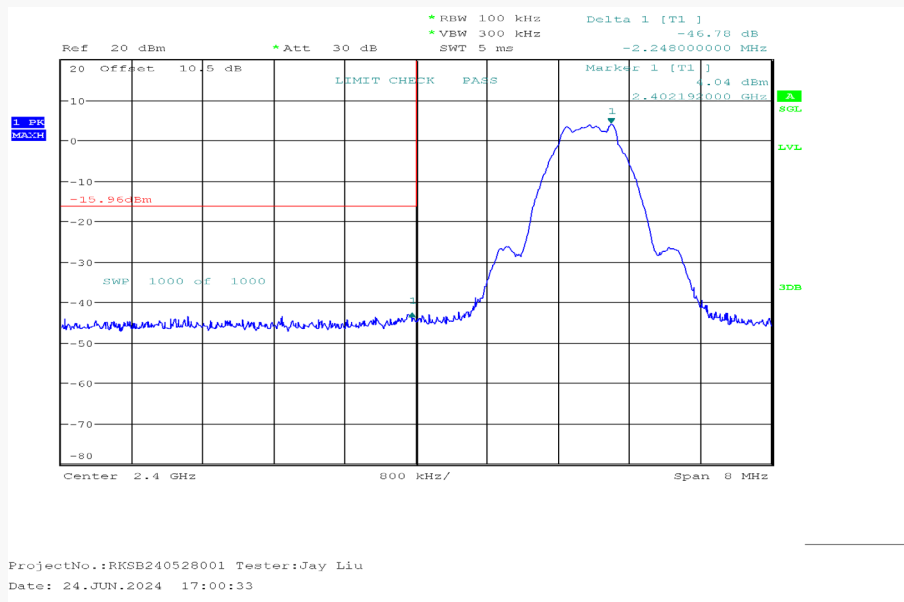
High Channel



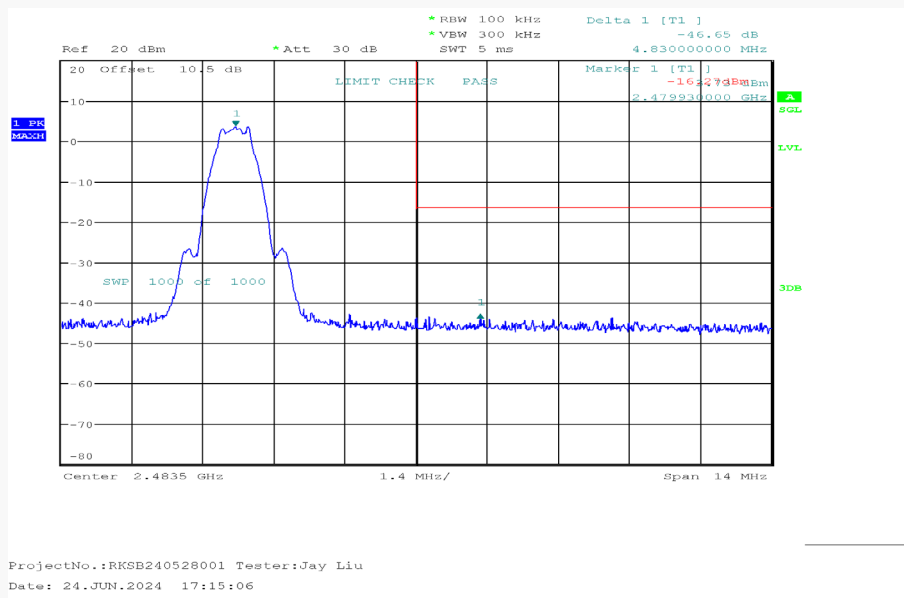
OUT OF BAND EMISSIONS*EUT operation mode: Transmitting***For Wi-Fi Mode:****802.11b Mode Left Side**ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 25.JUN.2024 15:00:15**802.11b Mode Right Side**ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 25.JUN.2024 14:38:11**802.11g Mode Left Side**ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 24.JUN.2024 17:30:35**802.11g Mode Right Side**ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 24.JUN.2024 17:52:39**802.11n-HT20 Mode Left Side**ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 25.JUN.2024 13:32:07**802.11n-HT20 Mode Right Side**ProjectNo.:RKSB240528001 Tester:Jay Liu
Date: 25.JUN.2024 13:53:45

BLE 1Mbps:

Left Side



Right Side



EUT PHOTOGRAPHS

Please refer to the attachment EXHIBIT A - EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B - EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment EXHIBIT C - TEST SETUP PHOTOGRAPHS.

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s).
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.

******* END OF REPORT *******