

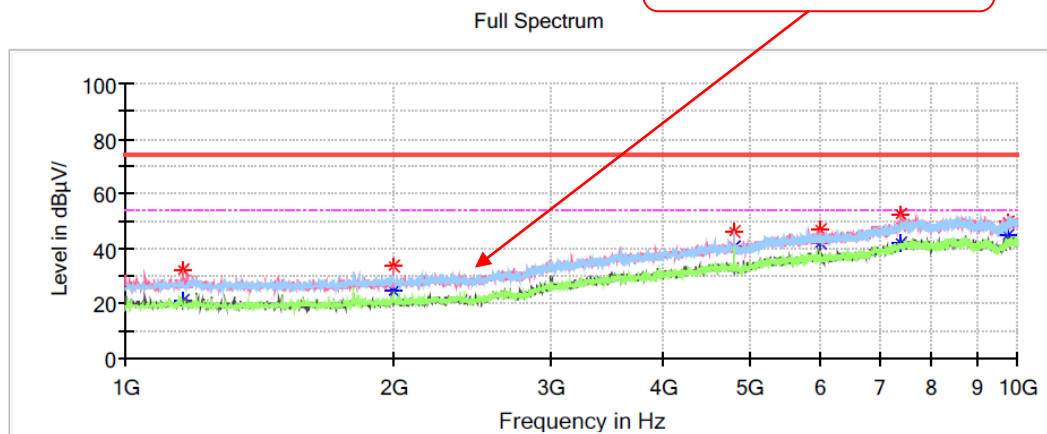
BLE (1 Mbps)
1GHz-10GHz:

Low Channel: 2402MHz

Common Information

Project No.:	RKSA260330001
EUT Model:	F55
Test Mode:	Transmitting in BLE-1M Low Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	19.8°C
Humidity:	50%
Atmospheric Pressure:	101.7kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/4/25

Fundamental Test with
Band Reject Filter



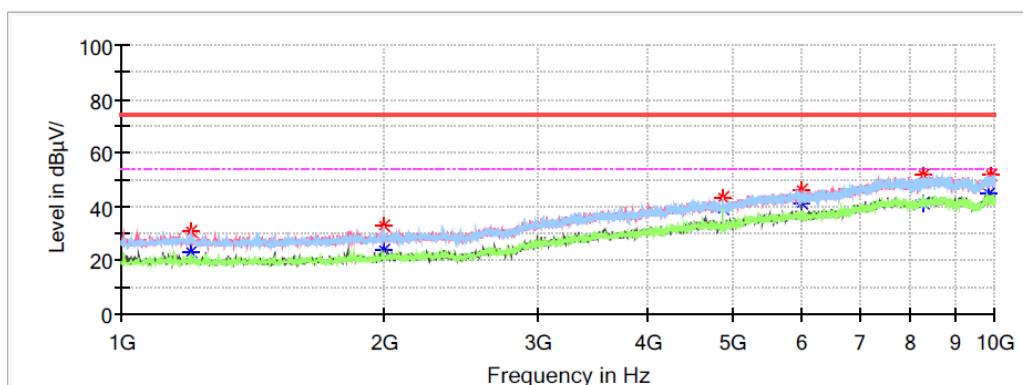
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1160.200000	---	21.14	54.00	32.86	V	-15.5
1160.200000	32.19	---	74.00	41.81	V	-15.5
1994.500000	---	24.17	54.00	29.83	V	-11.7
1994.500000	33.74	---	74.00	40.26	V	-11.7
4804.300000	---	40.88	54.00	13.12	H	-3.4
4804.300000	46.42	---	74.00	27.58	H	-3.4
6000.400000	---	41.97	54.00	12.03	V	-0.7
6000.400000	46.58	---	74.00	27.42	V	-0.7
7389.100000	52.14	---	74.00	21.86	V	2.9
7389.100000	---	41.63	54.00	12.37	V	2.9
9761.500000	49.56	---	74.00	24.44	V	5.6
9761.500000	---	44.65	54.00	9.35	V	5.6

Middle Channel: 2440MHz**Common Information**

Project No.: RKSA260330001
EUT Model: F55
Test Mode: Transmitting in BLE-1M Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 19.8℃
Humidity: 50%
Atmospheric Pressure: 101.7kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/4/25

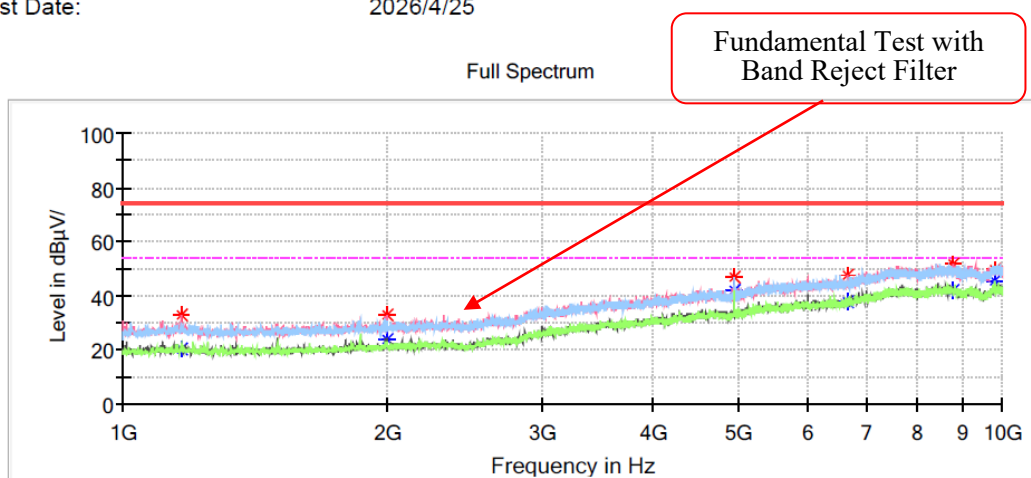
Full Spectrum

**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)
1199.800000	---	22.95	54.00	31.05	V	-15.3
1199.800000	31.02	---	74.00	42.98	V	-15.3
1994.500000	---	23.57	54.00	30.43	V	-11.7
1994.500000	32.64	---	74.00	41.36	V	-11.7
4879.900000	---	39.18	54.00	14.82	H	-3.2
4879.900000	43.65	---	74.00	30.35	H	-3.2
6000.400000	---	41.27	54.00	12.73	V	-0.7
6000.400000	46.33	---	74.00	27.67	V	-0.7
8270.200000	---	41.33	54.00	12.67	H	4.1
8270.200000	51.47	---	74.00	22.53	H	4.1
9835.300000	---	44.72	54.00	9.28	V	5.9
9918.100000	51.92	---	74.00	22.08	V	6.1

High Channel: 2480MHz**Common Information**

Project No.: RKSA260330001
 EUT Model: F55
 Test Mode: Transmitting in BLE-1M High Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 19.8℃
 Humidity: 50%
 Atmospheric Pressure: 101.7kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/4/25

**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)
1164.700000	---	20.40	54.00	33.60	V	-15.5
1164.700000	32.92	---	74.00	41.08	V	-15.5
1995.400000	---	24.07	54.00	29.93	V	-11.7
1995.400000	32.70	---	74.00	41.30	V	-11.7
4960.000000	---	42.26	54.00	11.74	H	-2.9
4960.000000	46.52	---	74.00	27.48	H	-2.9
6656.500000	---	37.81	54.00	16.19	V	0.0
6656.500000	47.66	---	74.00	26.34	V	0.0
8793.100000	---	41.82	54.00	12.18	V	4.8
8793.100000	51.85	---	74.00	22.15	V	4.8
9828.100000	---	45.29	54.00	8.71	H	5.8
9828.100000	49.61	---	74.00	24.39	H	5.8

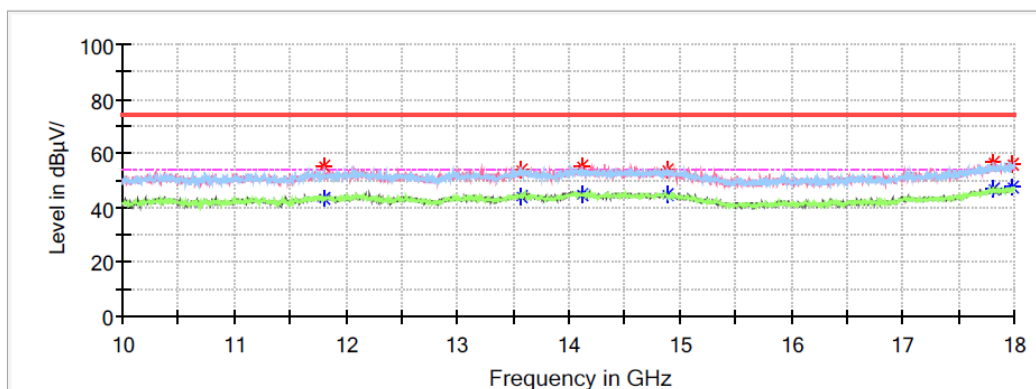
10GHz-18GHz:

Low Channel: 2402MHz

Common Information

Project No.: RKSA260330001
 EUT Model: F55
 Test Mode: Transmitting in BLE-1M Low Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 19.8℃
 Humidity: 50%
 Atmospheric Pressure: 101.7kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/4/25

Full Spectrum



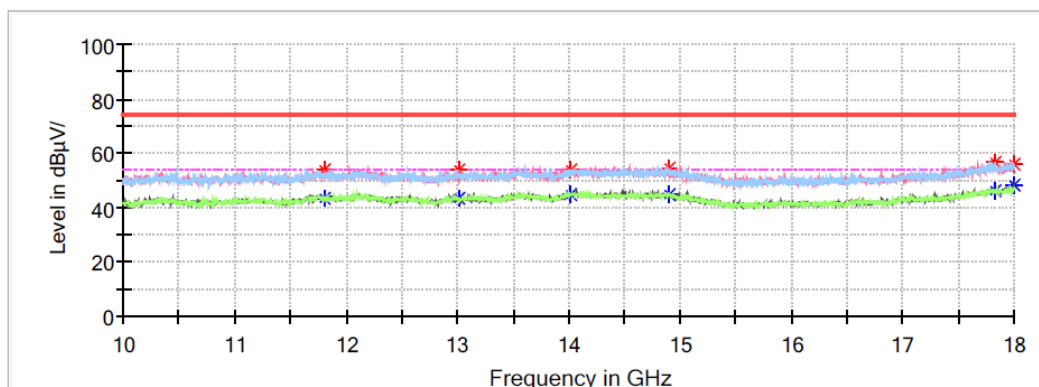
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
11808.000000	---	43.48	54.00	10.52	V	8.7
11808.000000	55.06	---	74.00	18.94	V	8.7
13569.600000	---	44.39	54.00	9.61	H	9.8
13569.600000	54.14	---	74.00	19.86	H	9.8
14115.200000	---	44.81	54.00	9.19	V	10.7
14115.200000	55.35	---	74.00	18.65	V	10.7
14892.800000	---	44.88	54.00	9.12	V	9.7
14892.800000	53.99	---	74.00	20.01	V	9.7
17814.400000	---	46.67	54.00	7.33	H	12.7
17814.400000	56.98	---	74.00	17.02	H	12.7
17985.600000	---	47.45	54.00	6.55	H	13.7
17985.600000	55.78	---	74.00	18.22	H	13.7

Middle Channel: 2440MHz**Common Information**

Project No.:	RKSA260330001
EUT Model:	F55
Test Mode:	Transmitting in BLE-1M Middle Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	19.8°C
Humidity:	50%
Atmospheric Pressure:	101.7kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/4/25

Full Spectrum

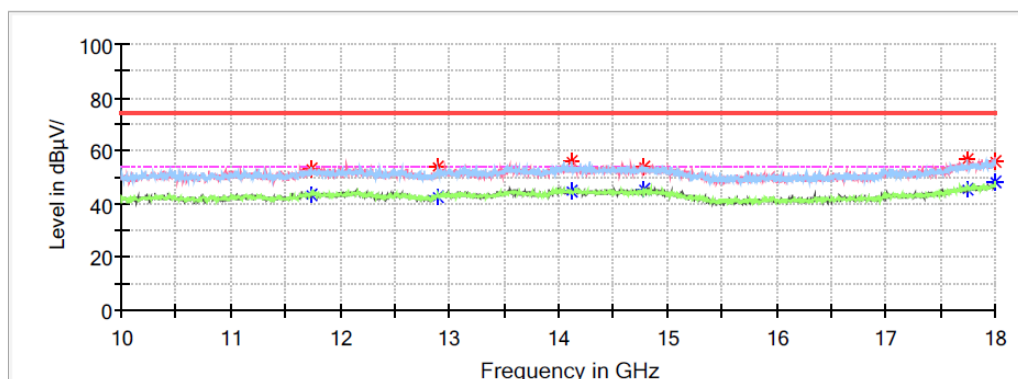
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
11801.600000	---	43.36	54.00	10.64	V	8.7
11801.600000	53.68	---	74.00	20.32	V	8.7
13004.800000	---	43.40	54.00	10.60	V	8.7
13004.800000	53.72	---	74.00	20.28	V	8.7
14019.200000	---	44.69	54.00	9.31	H	10.7
14019.200000	53.87	---	74.00	20.13	H	10.7
14902.400000	---	44.78	54.00	9.22	V	9.7
14902.400000	54.40	---	74.00	19.60	V	9.7
17825.600000	---	46.09	54.00	7.91	H	12.8
17825.600000	56.74	---	74.00	17.26	H	12.8
17992.000000	---	47.99	54.00	6.01	V	13.8
17992.000000	55.85	---	74.00	18.15	V	13.8

High Channel: 2480MHz**Common Information**

Project No.: RKSA260330001
 EUT Model: F55
 Test Mode: Transmitting in BLE-1M High Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 19.8℃
 Humidity: 50%
 Atmospheric Pressure: 101.7kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/4/25

Full Spectrum

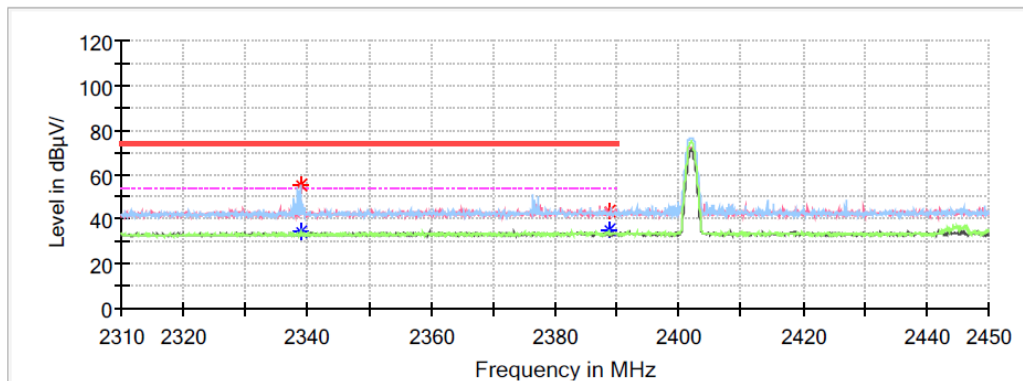
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
11736.000000	---	43.27	54.00	10.73	V	8.6
11736.000000	53.49	---	74.00	20.51	V	8.6
12894.400000	---	42.97	54.00	11.03	H	8.7
12894.400000	53.58	---	74.00	20.42	H	8.7
14126.400000	---	44.67	54.00	9.33	V	10.8
14126.400000	56.11	---	74.00	17.89	V	10.8
14790.400000	---	45.47	54.00	8.53	V	10.1
14790.400000	53.96	---	74.00	20.04	V	10.1
17740.800000	---	45.80	54.00	8.20	H	12.2
17740.800000	56.96	---	74.00	17.04	H	12.2
17996.800000	56.15	---	74.00	17.85	H	13.8
17996.800000	---	47.95	54.00	6.05	H	13.8

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

Project No.: RKSA260330001
EUT Model: F55
Test Mode: Transmitting in BLE-1M Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 19.8℃
Humidity: 50%
Atmospheric Pressure: 101.7kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/4/25

Full Spectrum

**Critical_Freqs**

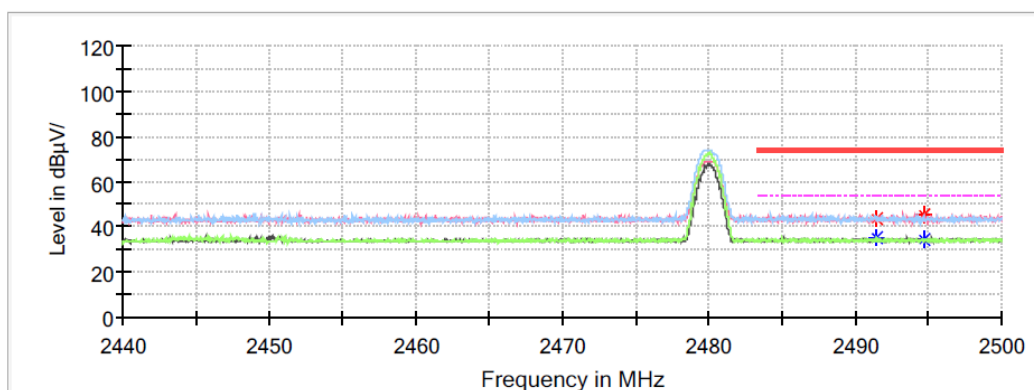
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2338.840000	---	34.76	54.00	19.24	H	-0.7
2338.840000	55.03	---	74.00	18.97	H	-0.7
2388.680000	---	35.03	54.00	18.97	V	-0.6
2388.680000	43.86	---	74.00	30.14	V	-0.6

High Channel

Common Information

Project No.: RKSA260330001
EUT Model: F55
Test Mode: Transmitting in BLE-1M High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 19.8℃
Humidity: 50%
Atmospheric Pressure: 101.7kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/4/25

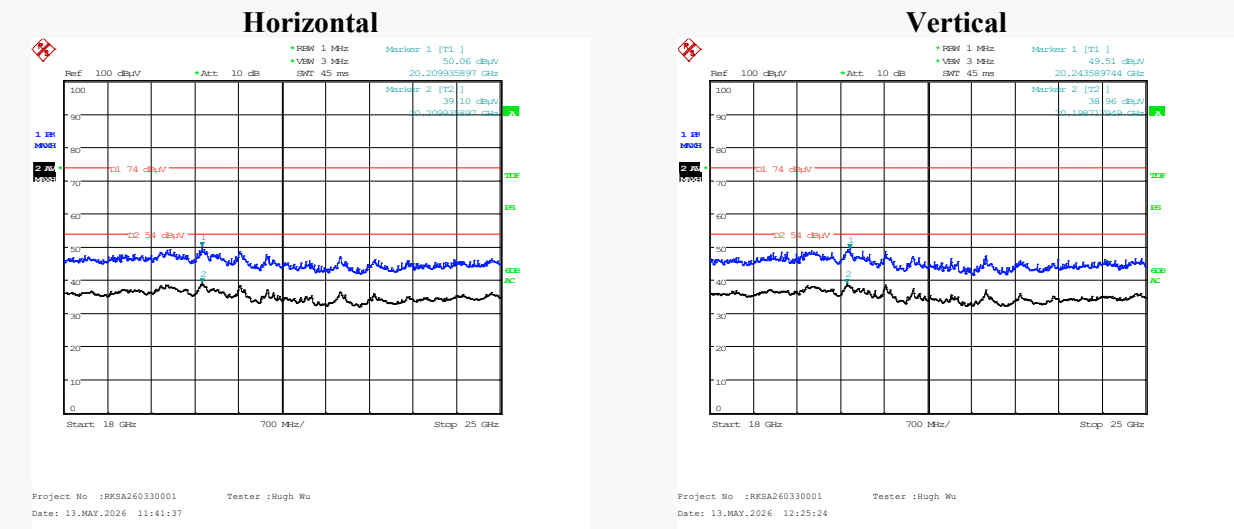
Full Spectrum



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)
2491.528000	---	35.57	54.00	18.43	V	-0.3
2491.528000	43.36	---	74.00	30.64	V	-0.3
2494.672000	---	34.32	54.00	19.68	H	-0.3
2494.672000	45.68	---	74.00	28.32	H	-0.3

18GHz-25GHz: Transmitting in maximum output power mode and BLE 1M low channel



Frequency (GHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
20.20	---	38.96	54	15.04	V	12.46
20.24	49.51	---	74	24.49	V	12.5
20.21	---	39.1	54	14.9	H	12.47
20.21	50.06	---	74	23.94	H	12.47

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

6 dB EMISSION BANDWIDTH**Environmental Conditions & Test Information**

Test Date:	2026-04-15	2026-04-28
Temperature:	21 °C	20.3 °C
Relative Humidity:	50 %	49 %
ATM Pressure:	102.5 kPa	102.4 kPa
Test Engineer:	Neil Zhou	

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

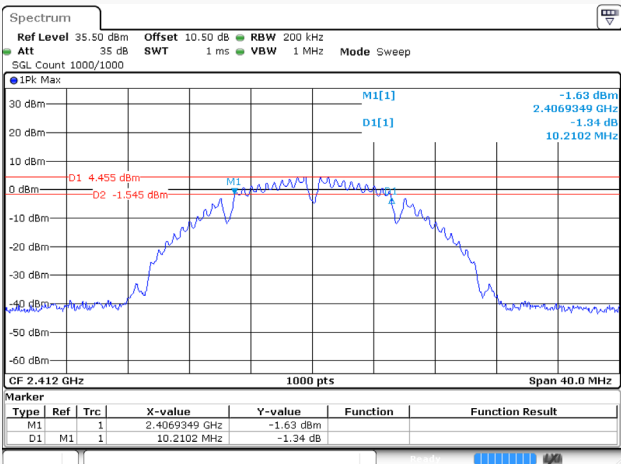
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)	Result
802.11b Mode				
Low	2412	10.210	≥ 0.5	Pass
Middle	2437	10.210	≥ 0.5	Pass
High	2462	10.210	≥ 0.5	Pass
802.11g Mode				
Low	2412	16.176	≥ 0.5	Pass
Middle	2437	16.056	≥ 0.5	Pass
High	2462	16.096	≥ 0.5	Pass
802.11n-HT20 Mode				
Low	2412	17.297	≥ 0.5	Pass
Middle	2437	17.257	≥ 0.5	Pass
High	2462	17.297	≥ 0.5	Pass

For BLE Mode:

Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)	Result
BLE (1 Mbps)	Low	2402	0.677	≥ 0.5	Pass
	Middle	2440	0.677	≥ 0.5	Pass
	High	2480	0.681	≥ 0.5	Pass

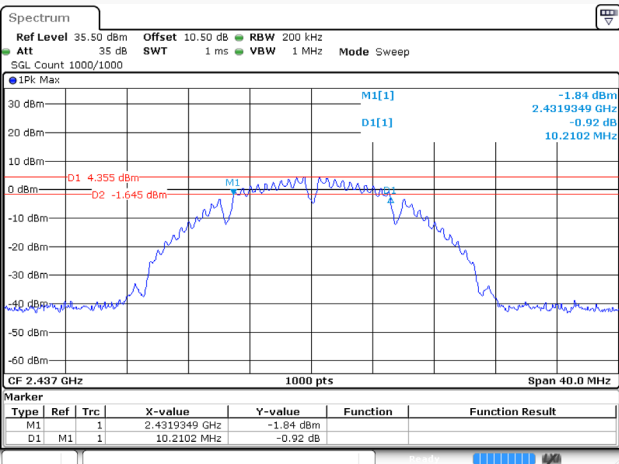
For Wi-Fi Mode:

802.11b_2412MHz



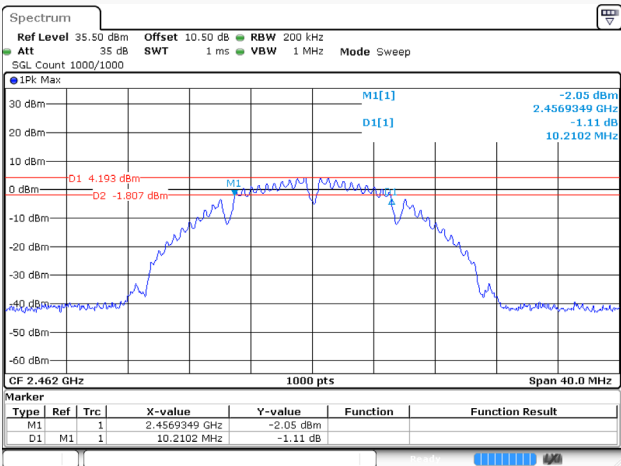
ProjectNo. RKSA260330001 Tester Neil Zhou
Date: 15.APR.2026 15:48:50

802.11b_2437MHz



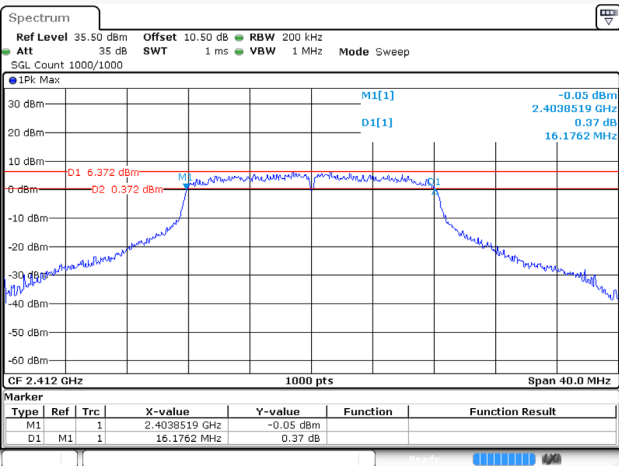
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802.11b_2462MHz



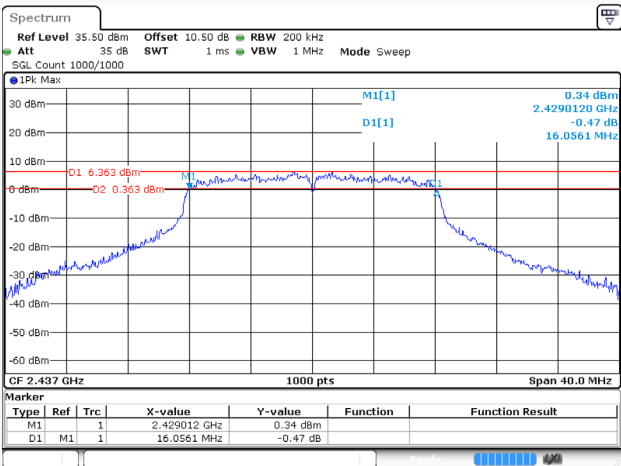
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802.11g_2412MHz



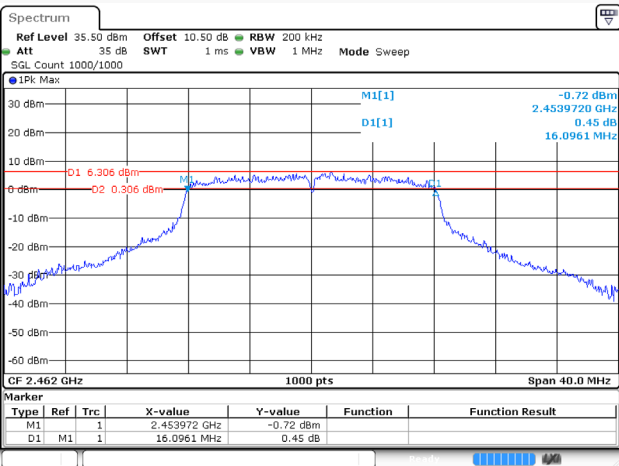
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802.11g_2437MHz



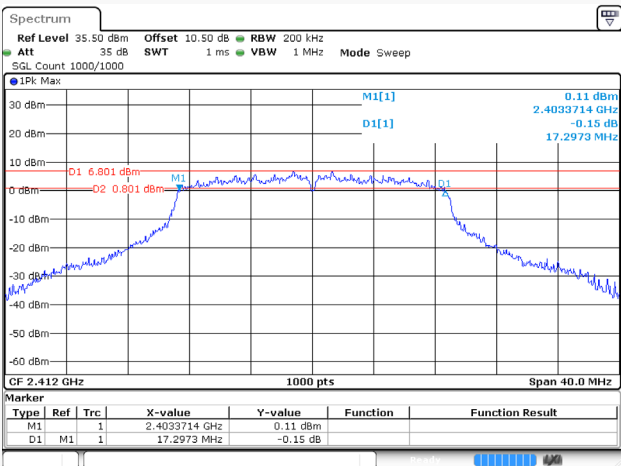
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Date: 15 APR 2026 16:11:33

802.11g_2462MHz



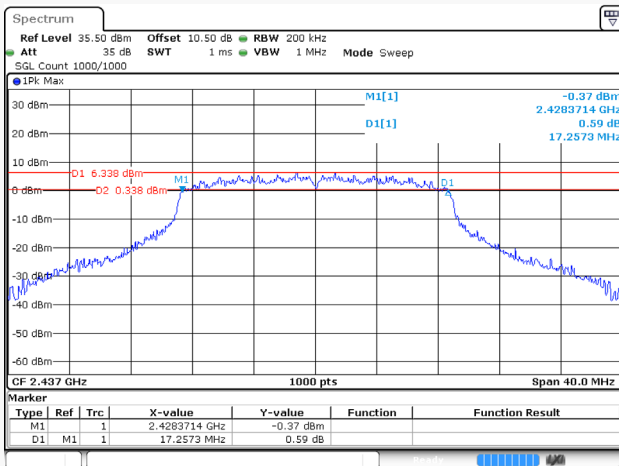
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Date: 15 APR 2026 16:15:50

802.11n20_2412MHz



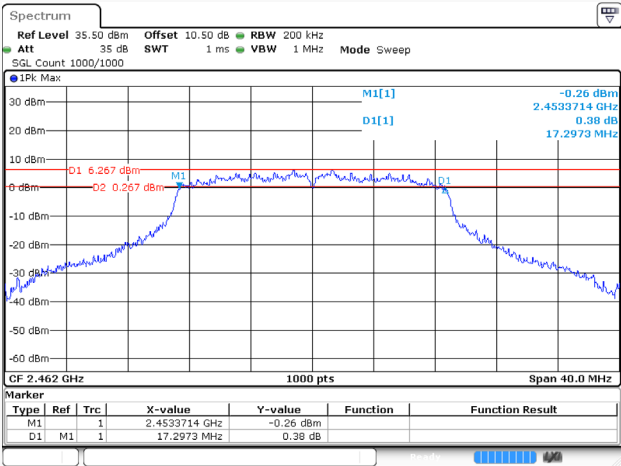
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Date: 15 APR 2026 16:22:13

802.11n20_2437MHz



ProjectNo. RKSA260330001 Tester Neil Zhou
Date: 15 APR 2026 16:29:32

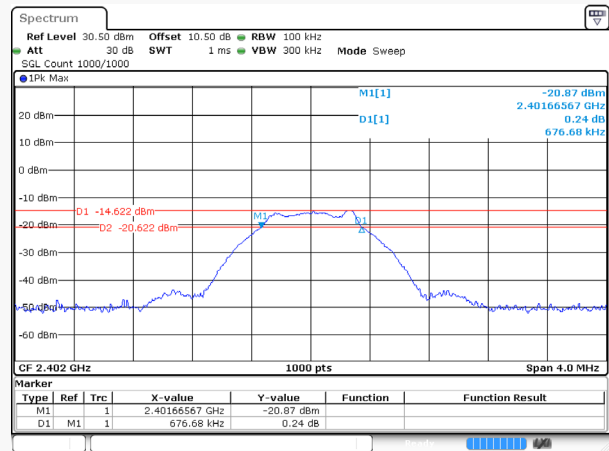
802.11n20_2462MHz



ProjectNo. RKSA260330001 Tester Neil Zhou
Date: 15 APR 2026 16:34:03

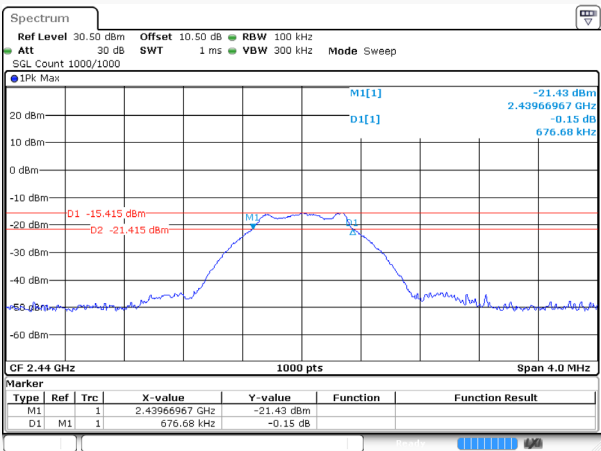
For BLE Mode:
BLE (1 Mbps)

Low Channel



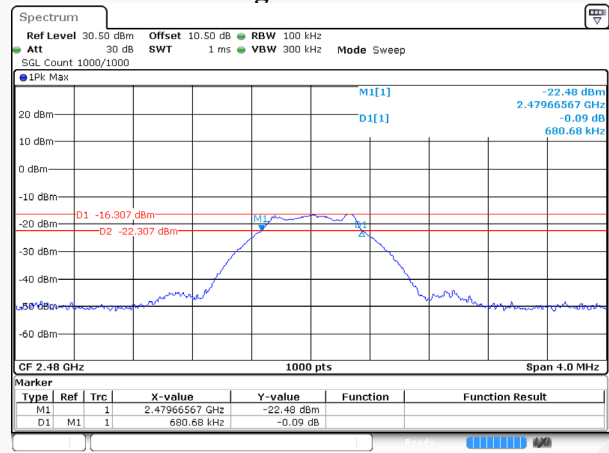
ProjectNo.:RKSA260330001 Tester:Neil Zhou
Date: 28.APR.2026 17:59:02

Middle Channel



ProjectNo.:RKSA260330001 Tester:Neil Zhou
Date: 28.APR.2026 18:07:56

High Channel



ProjectNo.:RKSA260330001 Tester:Neil Zhou
Date: 28.APR.2026 18:11:25

MAXIMUM CONDUCTED OUTPUT POWER**Environmental Conditions & Test Information**

Test Date:	2026-04-28
Temperature:	20.3 °C
Relative Humidity:	49 %
ATM Pressure:	102.4 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant.

EUT operation mode: Transmitting

For Wi-Fi Mode:

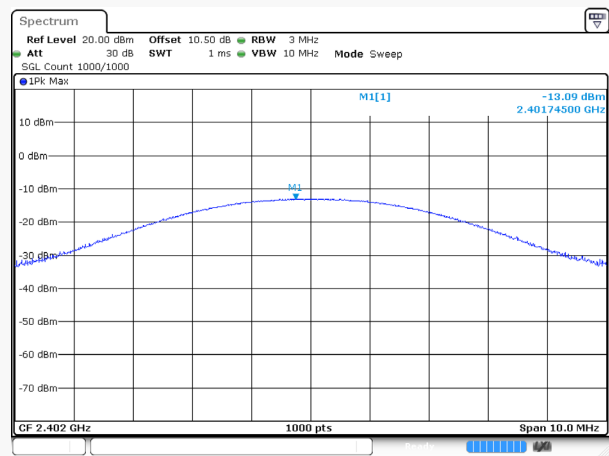
Channel	Frequency (MHz)	Peak Output Power (dBm)	Average Output Power (dBm)	Peak Output Power Limit (dBm)
802.11b Mode				
Low	2412	15.98	13.73	≤30
Middle	2437	15.78	13.53	≤30
High	2462	15.50	13.25	≤30
802.11g Mode				
Low	2412	23.47	14.25	≤30
Middle	2437	23.25	14.01	≤30
High	2462	23.03	13.65	≤30
802.11n-HT20 Mode				
Low	2412	23.46	14.11	≤30
Middle	2437	23.27	13.85	≤30
High	2462	22.98	13.43	≤30

BLE Mode:

Mode	Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	Result
BLE (1 Mbps)	Low	2402	-13.09	≤30	Pass
	Middle	2440	-13.75	≤30	Pass
	High	2480	-14.70	≤30	Pass

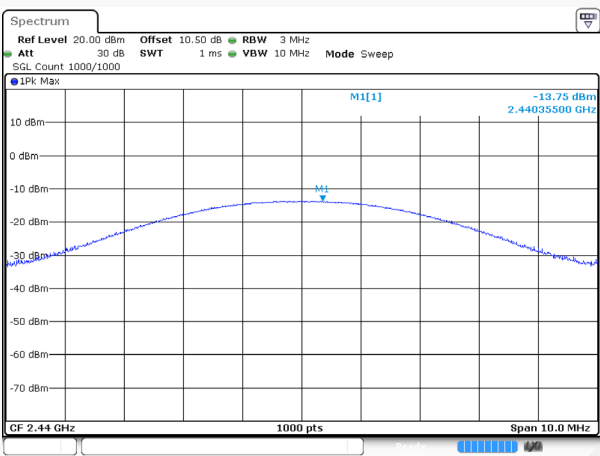
BLE (1 Mbps)

Low Channel



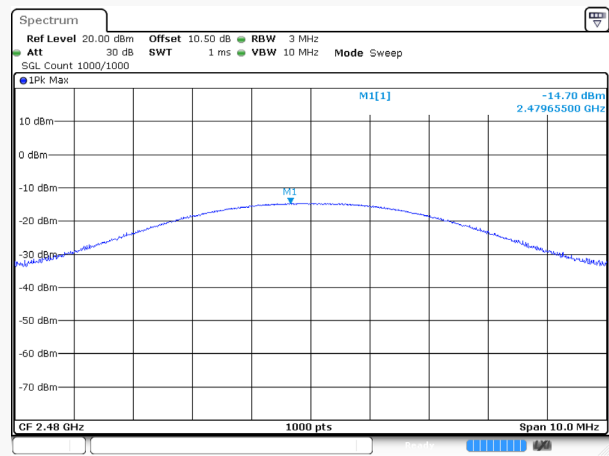
ProjectNo.:RKSA260330001 Tester:Neil Zhou
Date: 28.APR.2026 17:59:14

Middle Channel



ProjectNo.:RKSA260330001 Tester:Neil Zhou
Date: 28.APR.2026 18:08:05

High Channel



ProjectNo.:RKSA260330001 Tester:Neil Zhou
Date: 28.APR.2026 18:11:33

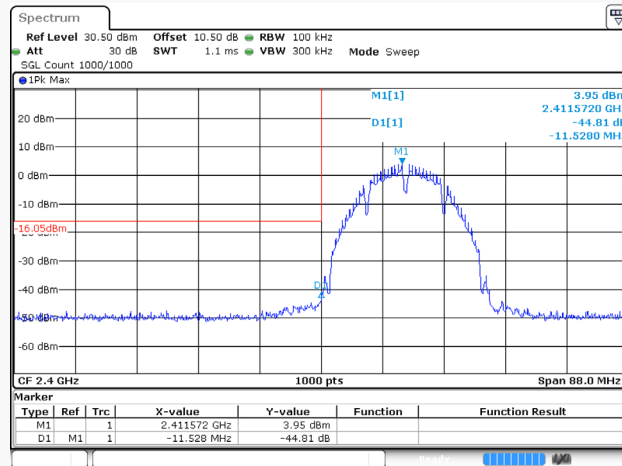
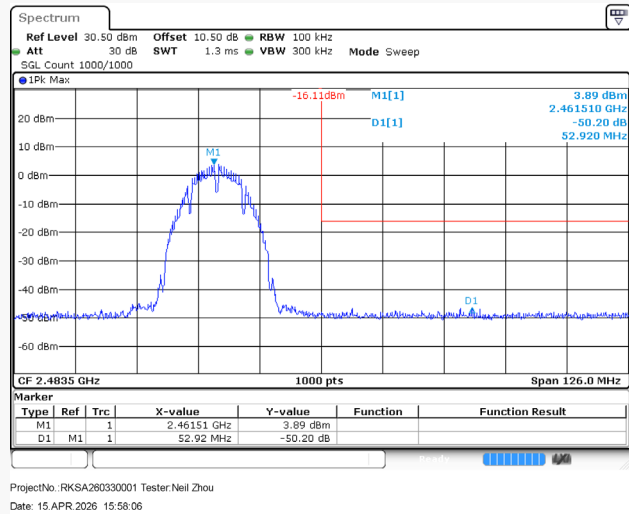
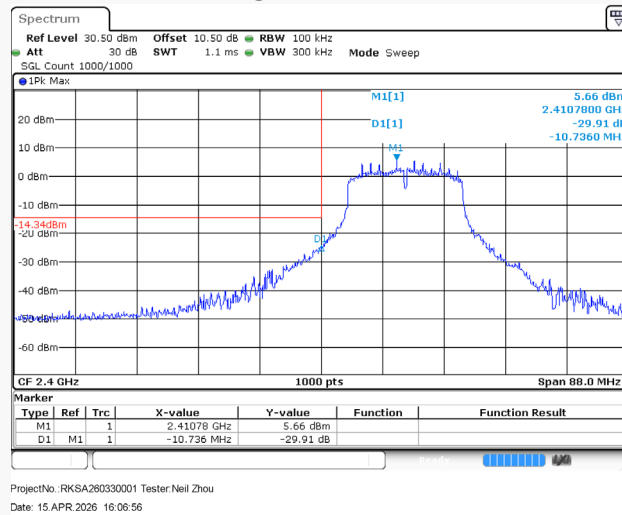
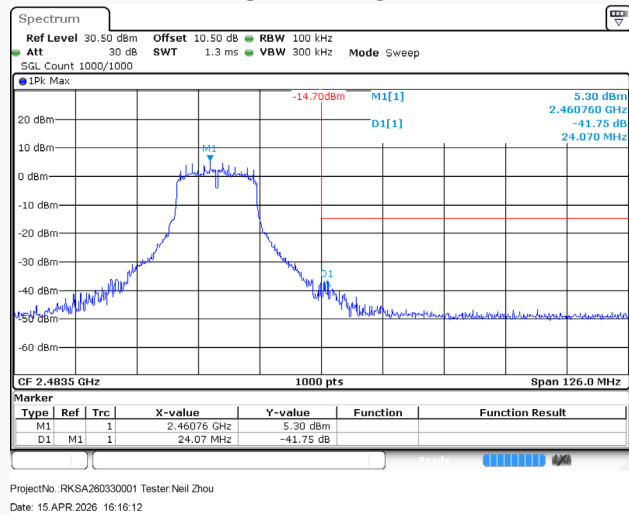
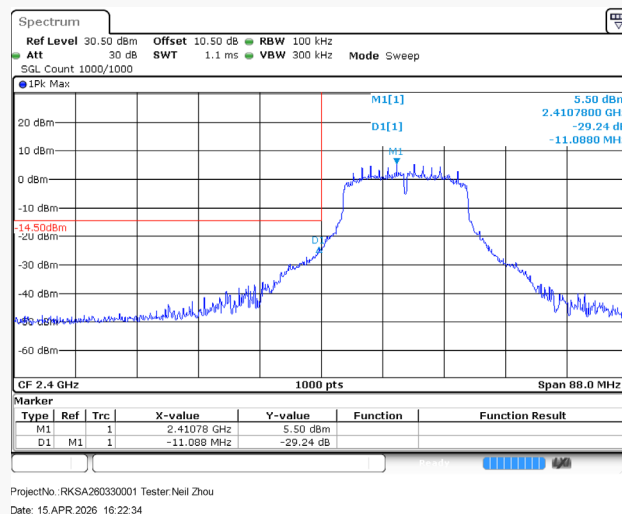
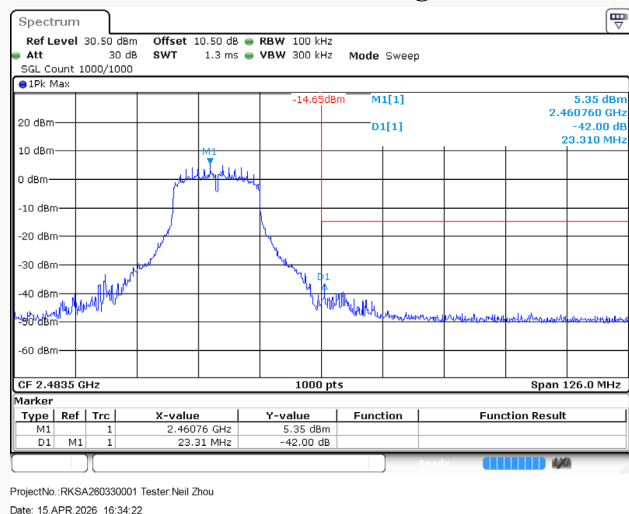
100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE**Environmental Conditions & Test Information**

Test Date:	2026-04-15	2026-04-28
Temperature:	21 °C	20.3 °C
Relative Humidity:	50 %	49 %
ATM Pressure:	102.5 kPa	102.4 kPa
Test Engineer:	Neil Zhou	

*EUT operation mode: Transmitting***Test Result:** Compliant

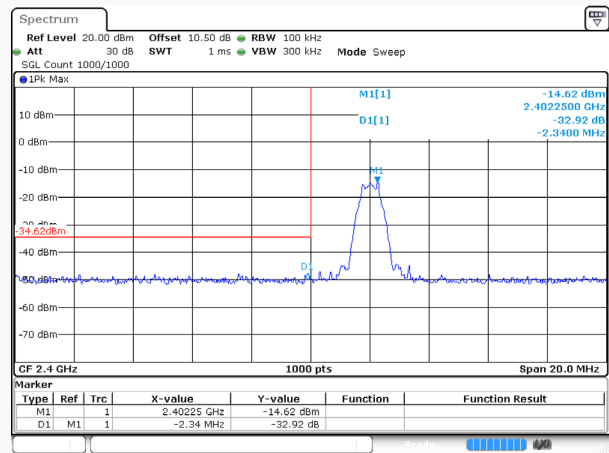
Mode	Channel	Test Frequency (MHz)	Result (dB)	Limit (dB)
802.11b	Low	2412	44.81	20
	High	2462	50.20	20
802.11g	Low	2412	29.91	20
	High	2462	41.75	20
802.11n20	Low	2412	29.24	20
	High	2462	42.00	20

Mode	Channel	Frequency (MHz)	Result (dB)	Limit (dB)
BLE (1 Mbps)	Low	2402	32.92	20
	High	2480	30.36	

**For Wi-Fi Mode:
802.11b Mode Left Side****802.11b Mode Right Side****802.11g Mode Left Side****802.11g Mode Right Side****802.11n-HT20 Mode Left Side****802.11n-HT20 Mode Right Side**

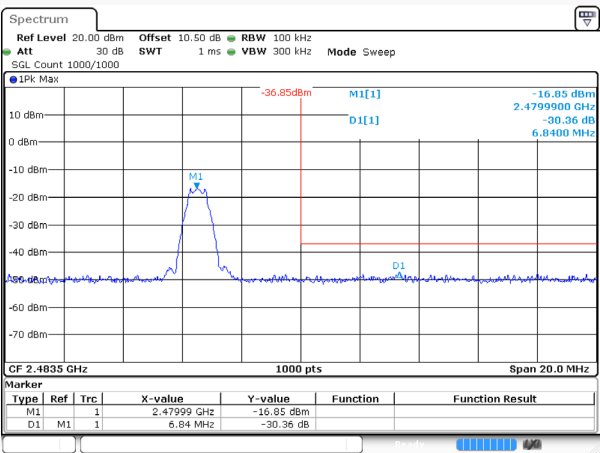
For BLE Mode:
BLE (1 Mbps)

Left Side



ProjectNo.:RKSA260330001 Tester:Neil Zhou
Date: 28.APR.2026 17:59:33

Right Side



ProjectNo.:RKSA260330001 Tester:Neil Zhou
Date: 28.APR.2026 18:11:48

CONDUCTED SPURIOUS EMISSION**Environmental Conditions & Test Information**

Test Date:	2026-04-15	2026-05-12	2026-04-28
Temperature:	21 °C	23.4 °C	20.3 °C
Relative Humidity:	50 %	52 %	49 %
ATM Pressure:	102.5 kPa	100.1 kPa	102.4 kPa
Test Engineer:	Neil Zhou		

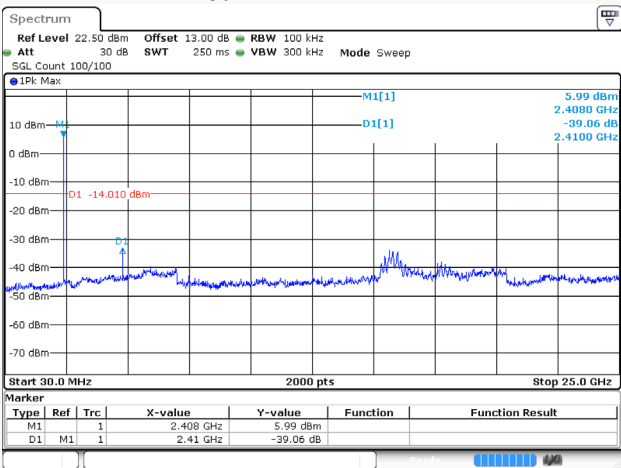
Mode	Channel	Frequency (MHz)	Result (dB)	Limit (dB)
802.11b	Low	2412	39.06	20
	Middle	2437	39.01	20
	High	2462	38.98	20
802.11g	Low	2412	41.30	20
	Middle	2437	40.87	20
	High	2462	38.54	20
802.11n20	Low	2412	41.27	20
	Middle	2437	40.37	20
	High	2462	40.19	20

Mode	Channel	Frequency (MHz)	Result (dB)	Limit (dB)
BLE (1 Mbps)	Low	2402	26.47	20
	Middle	2440	24.77	20
	High	2480	29.54	20

Note: the maximum path attenuation of 30MHz~25GHz was added into the offset

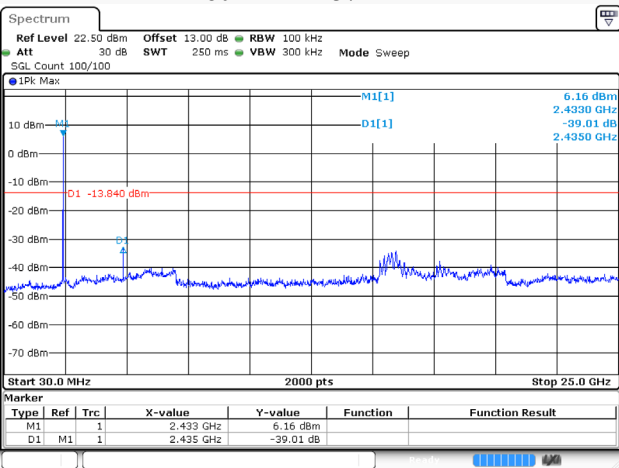
For Wi-Fi Mode:

802.11b 2412MHz



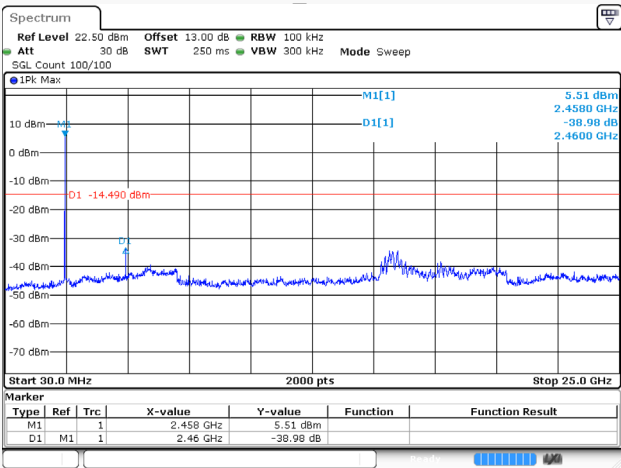
ProjectNo. RKSA260330001 Tester Neil Zhou
Date: 15 APR 2026 15:51:03

802.11b 2437MHz



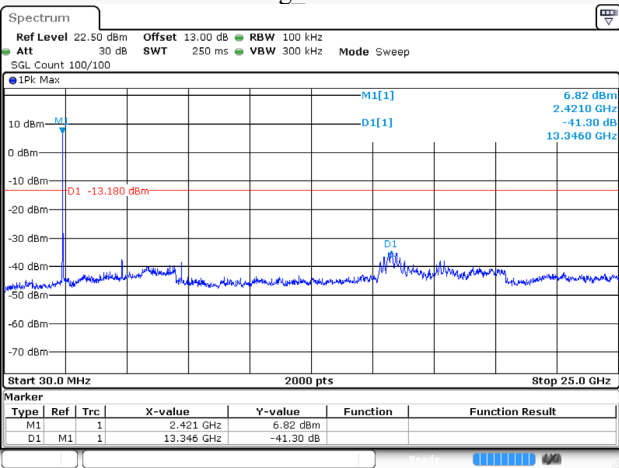
ProjectNo. RKSA260330001 Tester Neil Zhou
Date: 15 APR 2026 15:55:57

802.11b 2462MHz



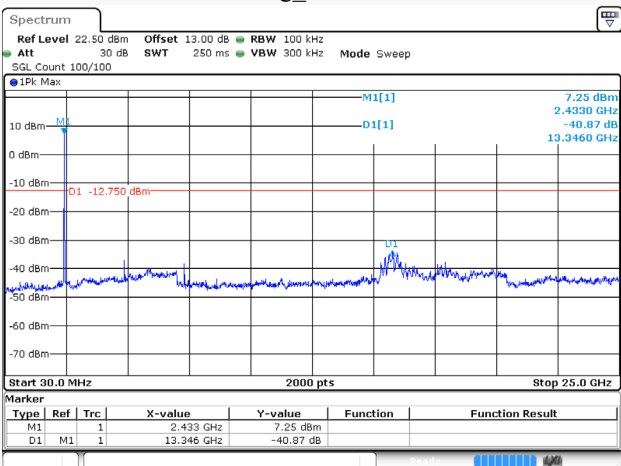
ProjectNo. RKSA260330001 Tester Neil Zhou
Date: 15 APR 2026 16:00:00

802.11g 2412MHz



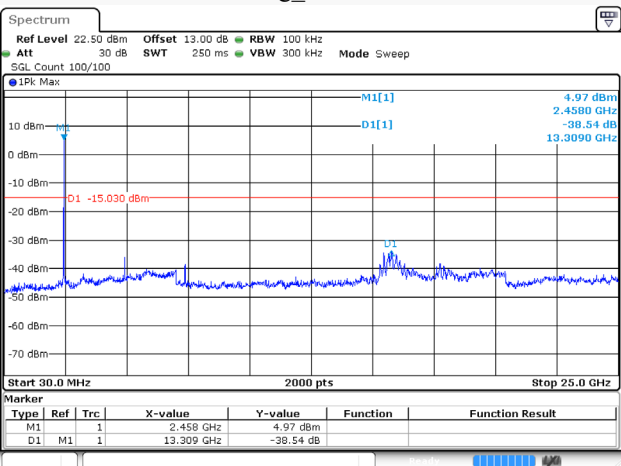
ProjectNo. RKSA260330001 Tester Neil Zhou
Date: 15 APR 2026 16:08:50

802.11g_2437MHz



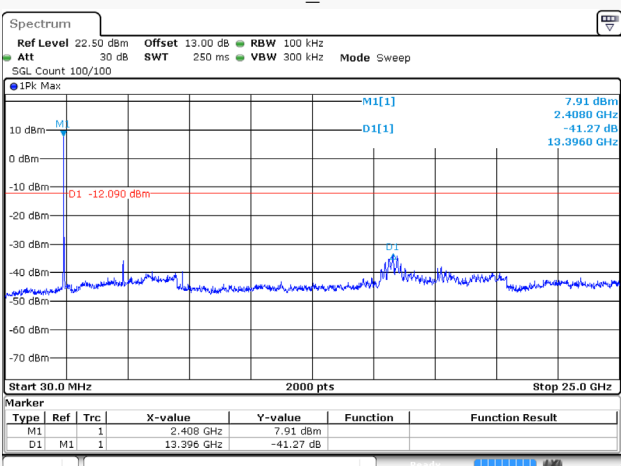
ProjectNo. RKSA260330001 Tester:Neil Zhou
Date: 15 APR 2026 16:13:35

802.11g_2462MHz



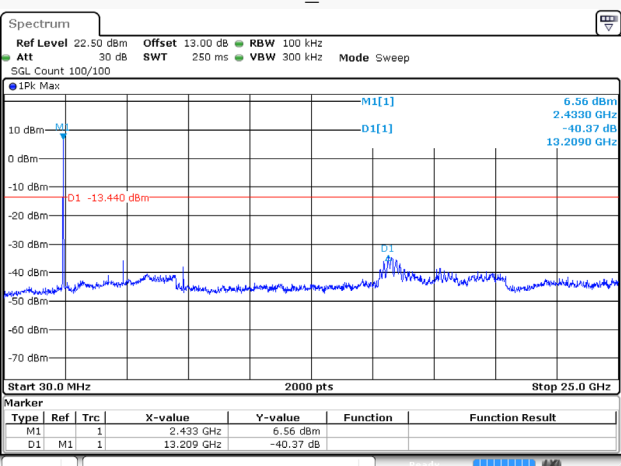
ProjectNo. RKSA260330001 Tester:Neil Zhou
Date: 15 APR 2026 16:18:06

802.11n20_2412MHz



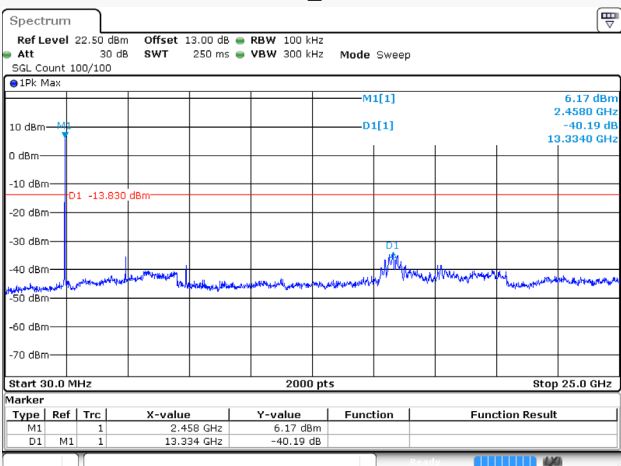
ProjectNo. RKSA260330001 Tester:Neil Zhou
Date: 15 APR 2026 16:24:29

802.11n20_2437MHz



ProjectNo. RKSA260330001 Tester:Neil Zhou
Date: 15 APR 2026 16:31:35

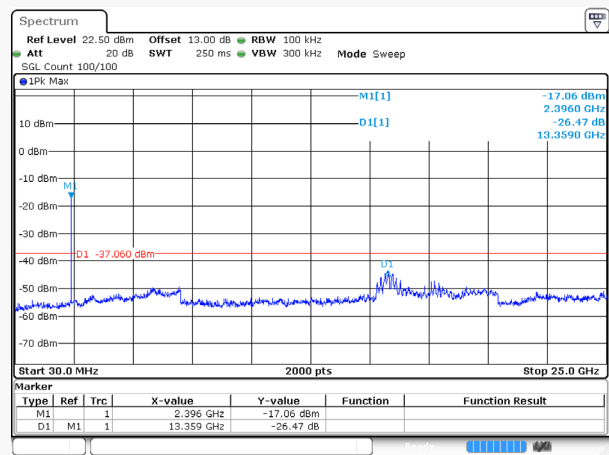
802.11n20_2462MHz



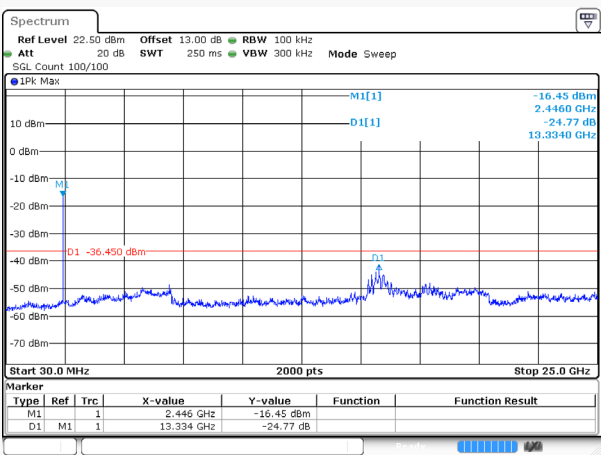
ProjectNo. RKSA260330001 Tester:Neil Zhou
Date: 15 APR 2026 16:36:16

For BLE Mode:
BLE (1 Mbps)

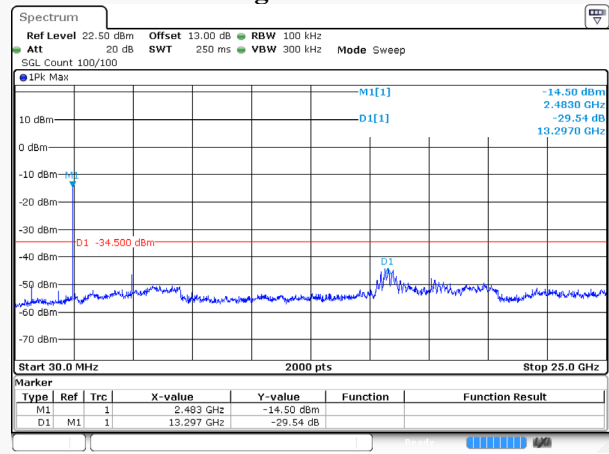
Low Channel



Middle Channel



High Channel



POWER SPECTRAL DENSITY**Environmental Conditions & Test Information**

Test Date:	2026-04-15	2026-04-28
Temperature:	21 °C	20.3 °C
Relative Humidity:	50 %	49 %
ATM Pressure:	102.5 kPa	102.4 kPa
Test Engineer:	Neil Zhou	

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

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11b Mode				
Low	2412	-9.04	≤8	Pass
Middle	2437	-9.14	≤8	Pass
High	2462	-9.94	≤8	Pass
802.11g Mode				
Low	2412	-8.24	≤8	Pass
Middle	2437	-8.61	≤8	Pass
High	2462	-8.27	≤8	Pass
802.11n-HT20 Mode				
Low	2412	-7.90	≤8	Pass
Middle	2437	-8.51	≤8	Pass
High	2462	-8.06	≤8	Pass

For BLE Mode:

Mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE (1 Mbps)	Low	2402	-27.37	≤8	Pass
	Middle	2440	-28.43	≤8	Pass
	High	2480	-29.82	≤8	Pass