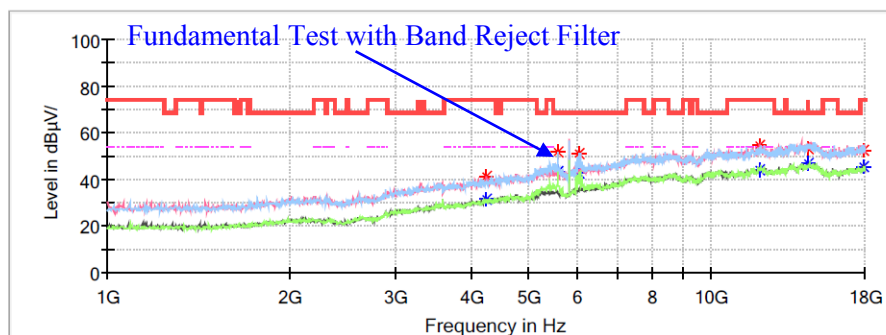


High Channel: 5825MHz**Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU52 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.6°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/11/14

Full Spectrum

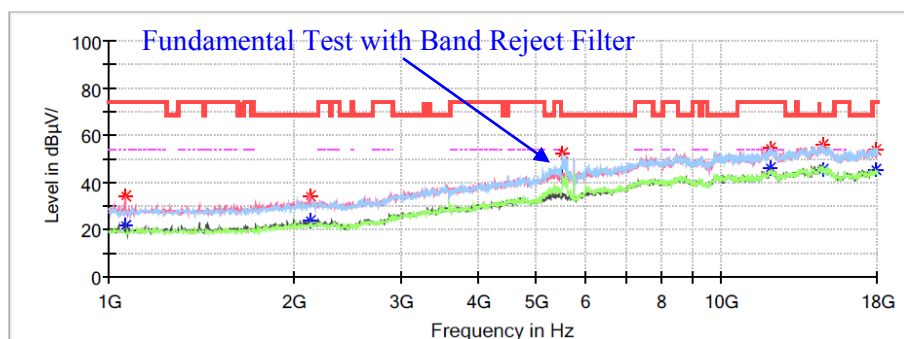
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
4247.000000	---	31.22	54.00	22.78	H	-4.6
4247.000000	41.43	---	74.00	32.57	H	-4.6
5579.800000	---	43.27	---	---	H	-1.5
5579.800000	51.67	---	68.20	16.53	H	-1.5
6059.200000	---	42.66	---	---	H	-0.6
6059.200000	51.36	---	68.20	16.84	H	-0.6
12026.200000	---	43.79	54.00	10.21	V	9.1
12026.200000	54.68	---	74.00	19.32	V	9.1
14494.600000	53.24	---	74.00	20.76	V	12.0
14494.600000	---	46.52	54.00	7.48	V	12.0
17860.600000	52.54	---	74.00	21.46	V	11.4
17860.600000	---	45.66	54.00	8.34	V	11.4

802.11ax20 RU106 Mode:**Channel: 5745MHz****Common Information**

Project No.:	RKSB250928004
EUT Model:	MC Gateway
Test Mode:	5G WIFI 802.11ax20-RU106 mode Low Channel
Standard:	FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	20.6°C
Humidity:	52%
Atmospheric Pressure:	102.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/11/14

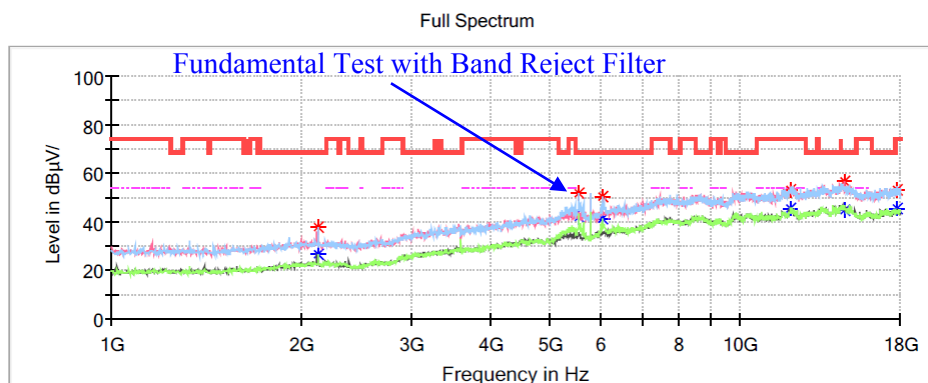
Full Spectrum

**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)
1061.200000	---	21.45	54.00	32.55	V	-15.0
1061.200000	33.94	---	74.00	40.06	V	-15.0
2125.400000	34.51	---	68.20	33.69	V	-9.9
2125.400000	---	23.83	---	---	V	-9.9
5505.000000	52.19	---	68.20	16.01	H	-1.7
5505.000000	---	42.53	---	---	H	-1.7
12063.600000	---	45.92	54.00	8.08	H	9.0
12063.600000	54.25	---	74.00	19.75	H	9.0
14657.800000	56.10	---	68.20	12.10	V	11.4
14657.800000	---	45.13	---	---	V	11.4
17853.800000	---	45.56	54.00	8.44	V	11.4
17853.800000	53.73	---	74.00	20.27	V	11.4

Channel: 5785MHz**Common Information**

Project No.: RKSB250928004
 EUT Model: MC Gateway
 Test Mode: 5G WIFI 802.11ax20-RU106 mode Middle Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 20.6℃
 Humidity: 52%
 Atmospheric Pressure: 102.6kPa
 Test Engineer: Destine Hu
 Test Date: 2025/11/14

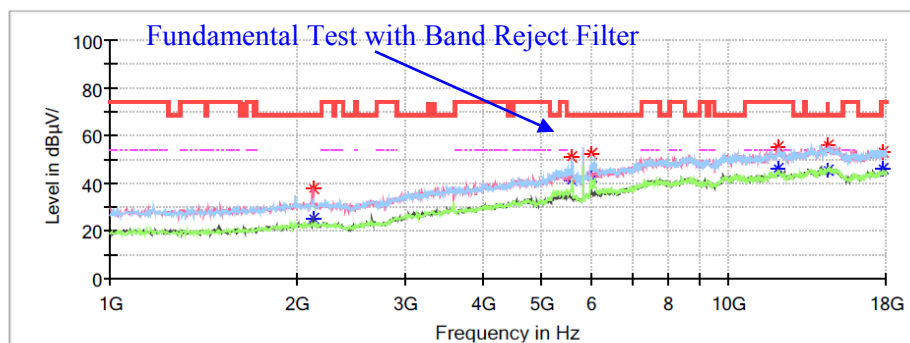
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2132.200000	38.09	---	68.20	30.11	H	-9.9
2132.200000	---	26.29	---	---	H	-9.9
5552.600000	---	42.01	---	---	H	-1.6
5552.600000	51.40	---	68.20	16.80	H	-1.6
6028.600000	50.22	---	68.20	17.98	H	-0.6
6028.600000	---	41.59	---	---	H	-0.6
12012.600000	---	45.53	54.00	8.47	V	9.1
12012.600000	53.17	---	74.00	20.83	V	9.1
14657.800000	---	44.51	---	---	H	11.4
14657.800000	56.38	---	68.20	11.82	H	11.4
17775.600000	53.26	---	74.00	20.74	V	11.2
17775.600000	---	45.15	54.00	8.85	V	11.2

High Channel: 5825MHz**Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU106 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.6℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/11/14

Full Spectrum

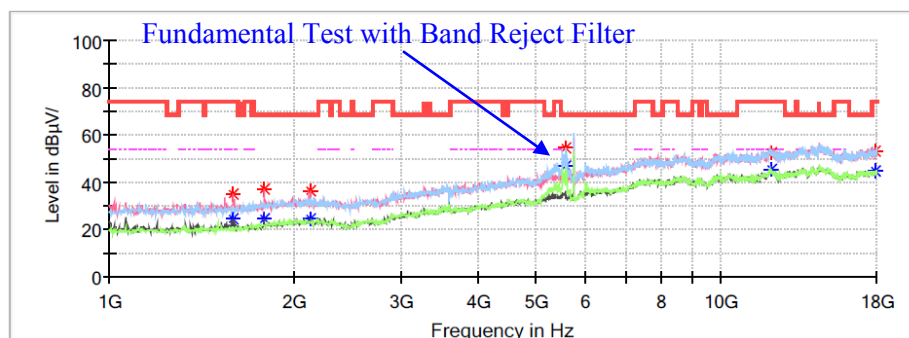
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2125.400000	---	24.85	---	---	V	-9.9
2125.400000	38.08	---	68.20	30.12	V	-9.9
5590.000000	---	41.34	---	---	H	-1.5
5590.000000	51.38	---	68.20	16.82	H	-1.5
5991.200000	---	42.34	---	---	H	-0.6
5991.200000	52.16	---	68.20	16.04	H	-0.6
12026.200000	55.31	---	74.00	18.69	V	9.1
12026.200000	---	46.46	54.00	7.54	V	9.1
14457.200000	56.10	---	68.20	12.10	V	11.9
14457.200000	---	45.55	---	---	V	11.9
17799.400000	53.06	---	74.00	20.94	V	11.2
17799.400000	---	45.92	54.00	8.08	V	11.2

802.11ax20 RU242 Mode:**Channel: 5745MHz****Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU242 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.6°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/11/14

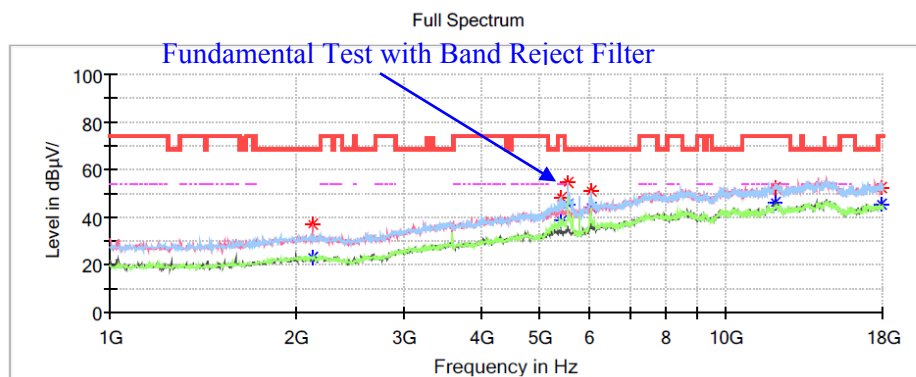
Full Spectrum

**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)
1591.600000	---	24.48	54.00	29.52	V	-12.8
1591.600000	34.86	---	74.00	39.14	V	-12.8
1792.200000	---	24.63	---	---	V	-11.4
1792.200000	37.38	---	68.20	30.82	V	-11.4
2128.800000	---	24.17	---	---	V	-9.9
2128.800000	36.23	---	68.20	31.97	V	-9.9
5590.000000	---	46.59	---	---	H	-1.5
5590.000000	54.74	---	68.20	13.46	H	-1.5
12135.000000	---	45.56	54.00	8.44	H	9.0
12135.000000	52.22	---	74.00	21.78	H	9.0
17925.200000	---	45.00	54.00	9.00	H	11.6
17925.200000	53.24	---	74.00	20.76	H	11.6

Channel: 5785MHz**Common Information**

Project No.:	RKSB250928004
EUT Model:	MC Gateway
Test Mode:	5G WIFI 802.11ax20-RU242 mode Middle Channel
Standard:	FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	20.6℃
Humidity:	52%
Atmospheric Pressure:	102.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/11/14

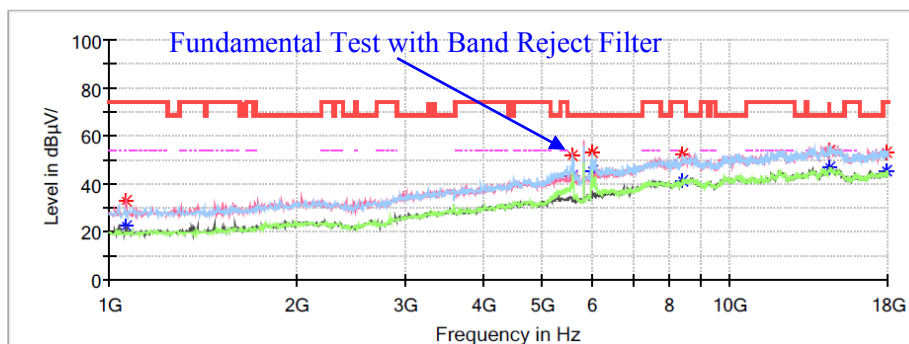
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2128.800000	---	22.76	---	---	V	-9.9
2128.800000	37.17	---	68.20	31.03	V	-9.9
5389.400000	---	38.62	54.00	15.38	H	-2.0
5389.400000	48.36	---	74.00	25.64	H	-2.0
5545.800000	---	45.17	---	---	H	-1.6
5545.800000	54.38	---	68.20	13.82	H	-1.6
6028.600000	---	43.95	---	---	H	-0.6
6028.600000	50.78	---	68.20	17.42	H	-0.6
12050.000000	52.35	---	74.00	21.65	V	9.0
12050.000000	---	46.26	54.00	7.74	V	9.0
17935.400000	52.34	---	74.00	21.66	V	11.6
17935.400000	---	45.59	54.00	8.41	V	11.6

High Channel: 5825MHz**Common Information**

Project No.: RKSB250928004
 EUT Model: MC Gateway
 Test Mode: 5G WIFI 802.11ax20-RU242 mode High Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 20.6℃
 Humidity: 52%
 Atmospheric Pressure: 102.6kPa
 Test Engineer: Destine Hu
 Test Date: 2025/11/14

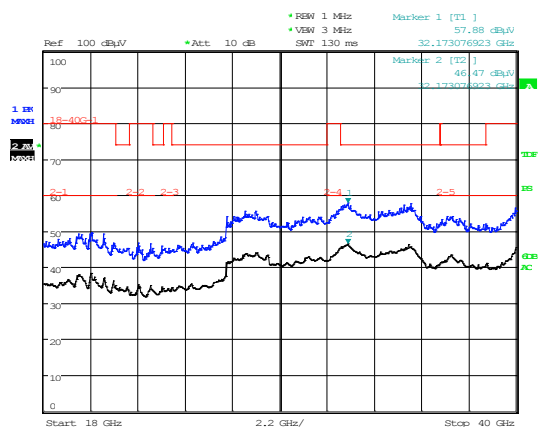
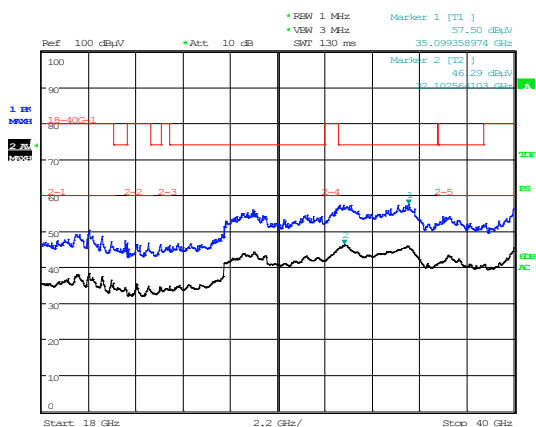
Full Spectrum

**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)
1064.600000	---	22.07	54.00	31.93	V	-15.0
1064.600000	33.00	---	74.00	41.00	V	-15.0
5590.000000	---	43.25	---	---	H	-1.5
5590.000000	51.66	---	68.20	16.54	H	-1.5
5991.200000	---	45.11	---	---	H	-0.6
5991.200000	52.83	---	68.20	15.37	H	-0.6
8408.600000	---	41.03	54.00	12.97	H	4.4
8408.600000	52.66	---	74.00	21.34	H	4.4
14494.600000	53.95	---	74.00	20.05	V	12.0
14494.600000	---	46.73	54.00	7.27	V	12.0
17925.200000	52.86	---	74.00	21.14	V	11.6
17925.200000	---	45.39	54.00	8.61	V	11.6

18GHz-40GHz:

Pre-scan with 802.11a, 802.11ac20, 802.11ax20 modes of operation in the X,Y and Z axes of orientation, the worst case 802.11ac20 mode (5300MHz) was recorded

Horizontal**Vertical**

Project No :RKSB250928004 Tester :Rugh Wu
Date: 15.NOV.2025 19:36:20

Project No :RKSB250928004 Tester :Rugh Wu
Date: 15.NOV.2025 20:10:57

Note: The test distance is 1.5m. The limit is 80dBμV/m(Peak) and 60dBμV/m(Average) in restricted band. The limit outside the restriction band is 74.2 dBμV/m.

Frequency (GHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
32.10	---	46.29	60	13.71	V	23.24
35.10	57.5	---	74.2	16.7	V	22.32
32.17	---	46.47	60	13.53	H	23.31
32.17	57.88	---	74.2	16.32	H	23.31

Restricted Bands Emissions Test (5150-5250MHz Band):

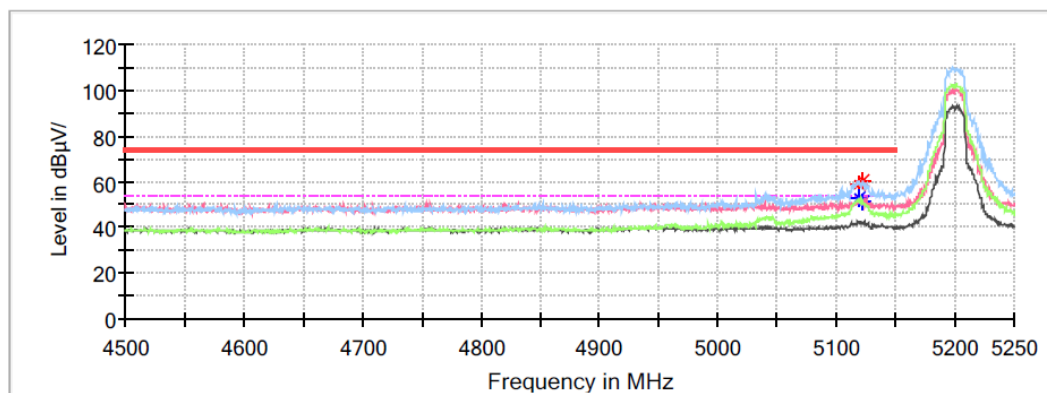
Note:

1. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
2. Corrected Amplitude = Corrected Factor + Reading
3. Margin = Limit - Corrected. Amplitude

802.11a Mode:**Common Information**

Project No.:	RKSB250928004
EUT Model:	MC Gateway
Test Mode:	5G WIFI 802.11a mode Low Channel
Standard:	FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	20.5°C
Humidity:	51%
Atmospheric Pressure:	102.4kPa
Test Engineer:	Destine Hu
Test Date:	2025/11/13

Full Spectrum

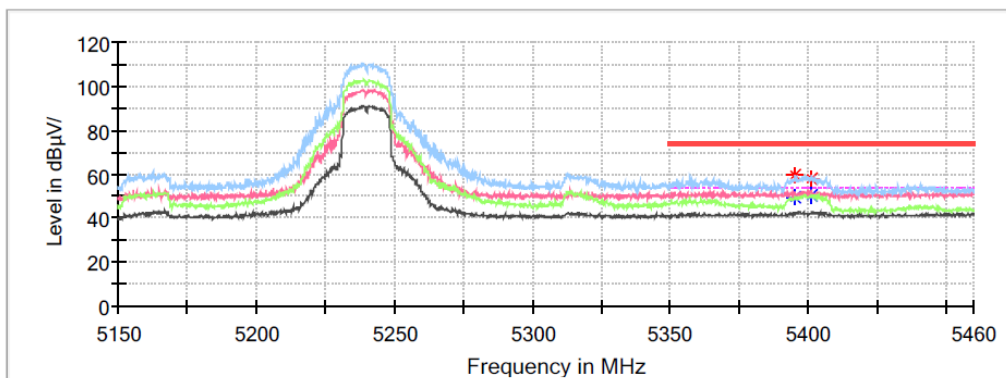
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5118.600000	58.75	---	74.00	15.25	H	3.4
5118.600000	---	52.52	54.00	1.48	H	3.4
5122.200000	60.22	---	74.00	13.78	H	3.4
5122.200000	---	51.03	54.00	2.97	H	3.4

Common Information

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11a mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5°C
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

Full Spectrum



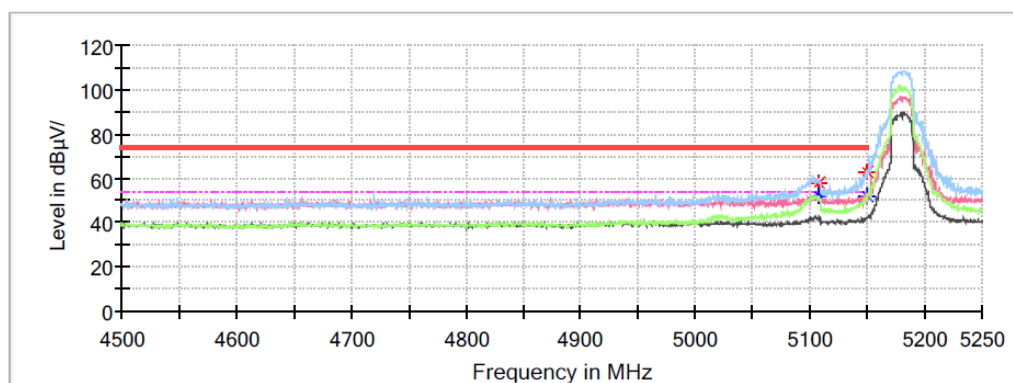
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5395.148000	---	49.82	54.00	4.18	H	4.0
5395.148000	59.28	---	74.00	14.72	H	4.0
5401.472000	57.97	---	74.00	16.03	H	4.1
5401.472000	---	50.59	54.00	3.41	H	4.1

802.11ac20 Mode:**Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ac20 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5°C
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

Full Spectrum

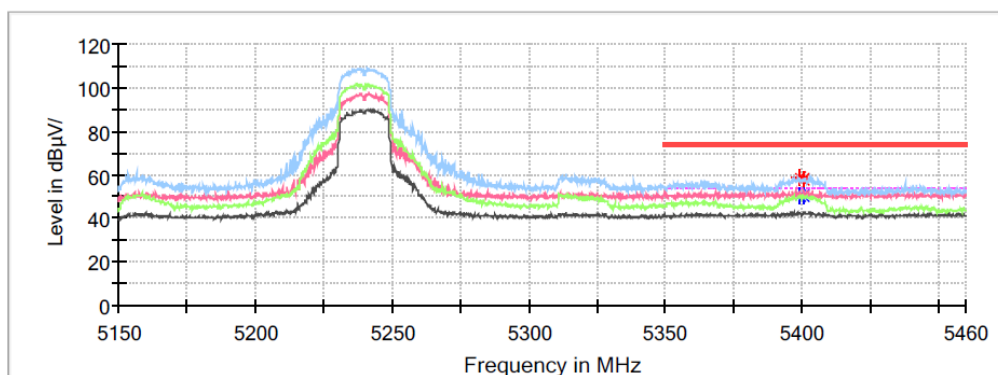
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5108.100000	58.25	---	74.00	15.75	H	3.4
5108.100000	---	52.02	54.00	1.98	H	3.4
5149.800000	62.90	---	74.00	11.10	H	3.5
5149.800000	---	51.78	54.00	2.22	H	3.5

Common Information

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ac20 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5°C
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

Full Spectrum



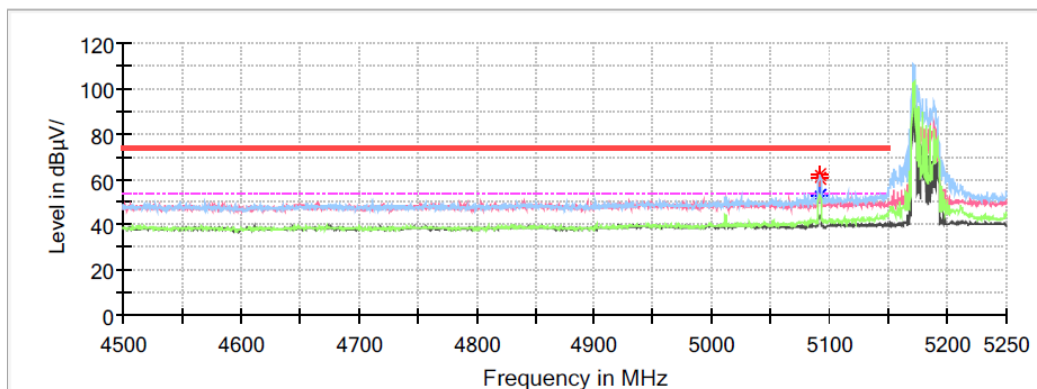
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5399.116000	---	50.20	54.00	3.80	H	4.0
5399.116000	58.82	---	74.00	15.18	H	4.0
5400.852000	58.12	---	74.00	15.88	H	4.1
5400.852000	---	50.57	54.00	3.43	H	4.1

802.11ax20 RU26 Mode:**Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU26 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 17.8°C
Humidity: 45%
Atmospheric Pressure: 102.9kPa
Test Engineer: Destine Hu
Test Date: 2025/11/25

Full Spectrum

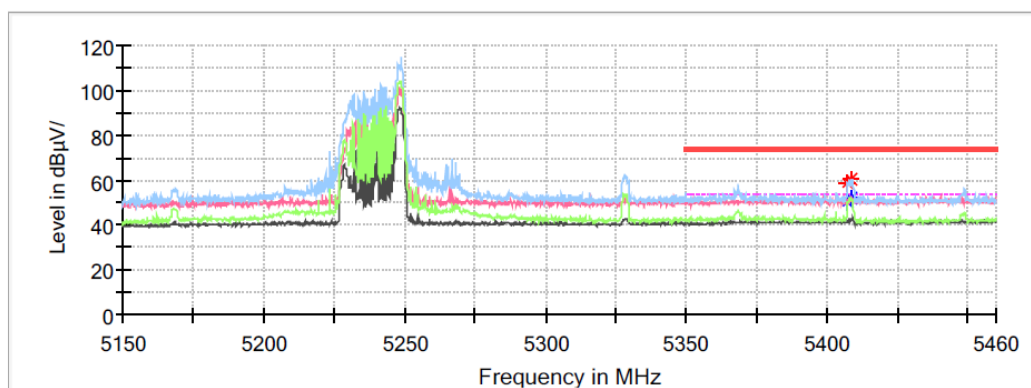
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5091.000000	---	52.64	54.00	1.36	H	3.3
5091.000000	60.81	---	74.00	13.19	H	3.3
5091.900000	---	53.12	54.00	0.88	H	3.3
5091.900000	62.26	---	74.00	11.74	H	3.3

Common Information

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU26 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 17.8°C
Humidity: 45%
Atmospheric Pressure: 102.9kPa
Test Engineer: Destine Hu
Test Date: 2025/11/25

Full Spectrum



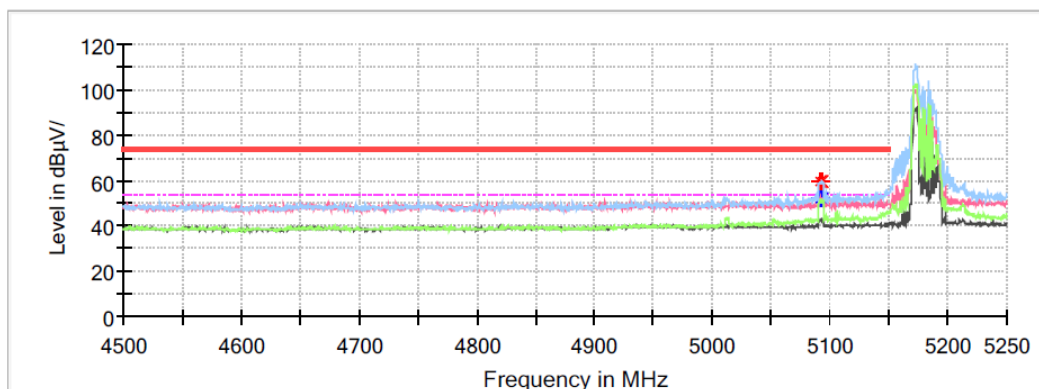
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5407.548000	---	50.64	54.00	3.36	H	4.1
5407.548000	58.80	---	74.00	15.20	H	4.1
5408.664000	60.43	---	74.00	13.57	H	4.1
5408.664000	---	52.25	54.00	1.75	H	4.1

802.11ax20 RU52 Mode:**Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU52 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 17.8℃
Humidity: 45%
Atmospheric Pressure: 102.9kPa
Test Engineer: Destine Hu
Test Date: 2025/11/25

Full Spectrum

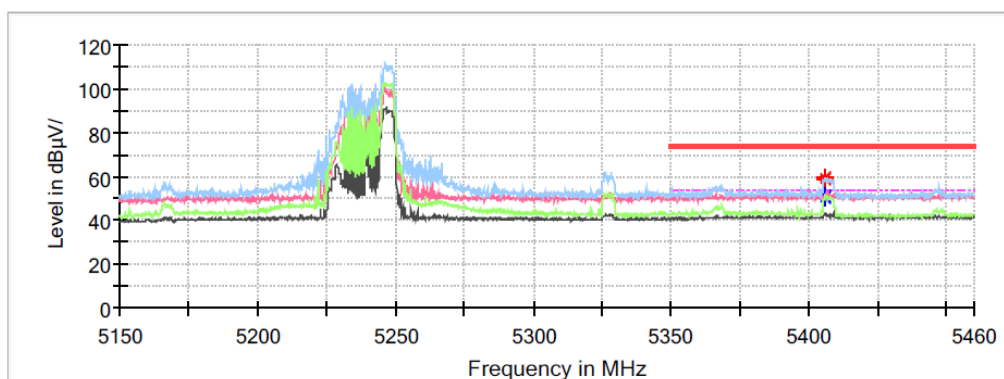
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5091.300000	---	51.82	54.00	2.18	H	3.3
5091.300000	59.75	---	74.00	14.25	H	3.3
5093.700000	---	52.00	54.00	2.00	H	3.3
5093.700000	59.83	---	74.00	14.17	H	3.3

Common Information

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU52 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 17.8℃
Humidity: 45%
Atmospheric Pressure: 102.9kPa
Test Engineer: Destine Hu
Test Date: 2025/11/25

Full Spectrum



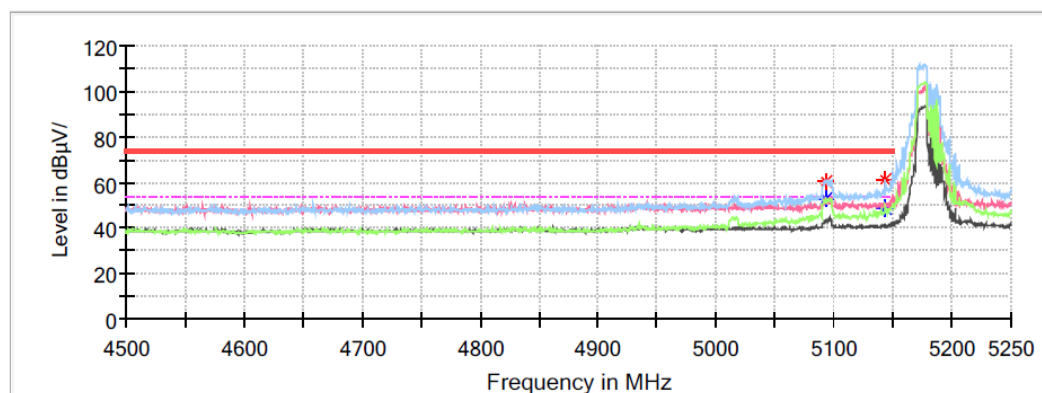
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5405.688000	59.91	---	74.00	14.09	H	4.1
5405.688000	---	50.19	54.00	3.81	H	4.1
5406.184000	58.32	---	74.00	15.68	H	4.1
5406.184000	---	51.22	54.00	2.78	H	4.1

802.11ax20 RU106 Mode:**Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU106 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 17.8°C
Humidity: 45%
Atmospheric Pressure: 102.9kPa
Test Engineer: Destine Hu
Test Date: 2025/11/25

Full Spectrum

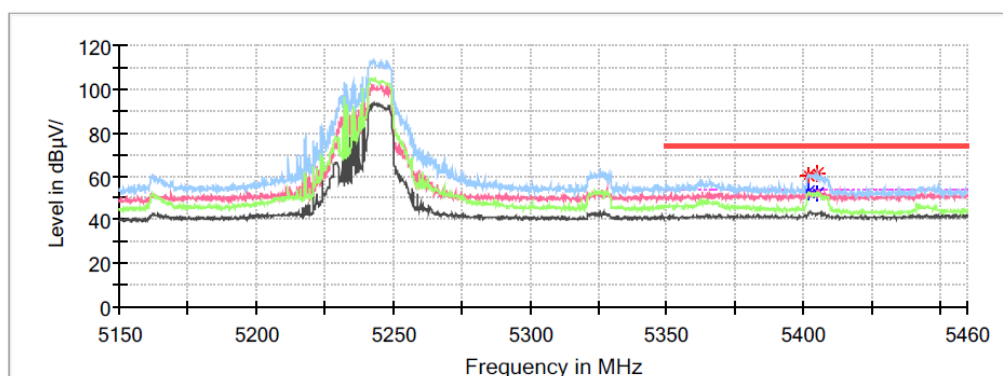
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5094.000000	---	52.90	54.00	1.10	H	3.3
5094.000000	60.11	---	74.00	13.89	H	3.3
5143.800000	---	48.29	54.00	5.71	H	3.4
5143.800000	61.51	---	74.00	12.49	H	3.4

Common Information

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU106 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5℃
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

Full Spectrum



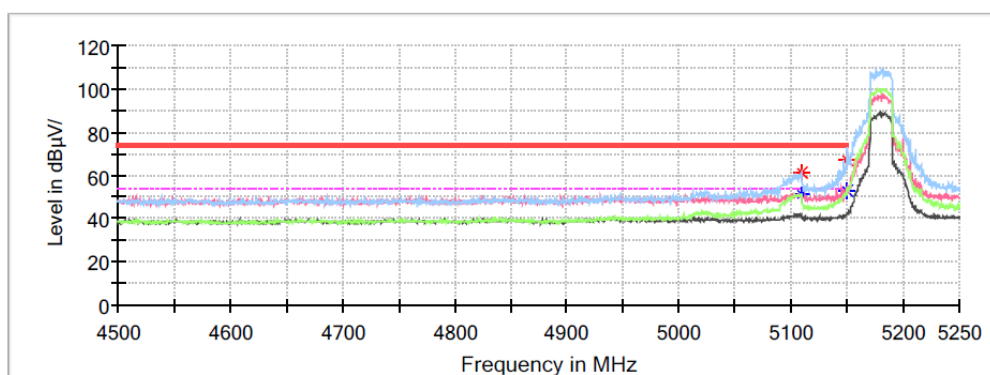
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5401.844000	60.48	---	74.00	13.52	H	4.1
5401.844000	---	52.57	54.00	1.43	H	4.1
5405.440000	61.51	---	74.00	12.49	H	4.1
5405.440000	---	51.71	54.00	2.29	H	4.1

802.11ax20 RU242 Mode:**Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU242 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5°C
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

Full Spectrum

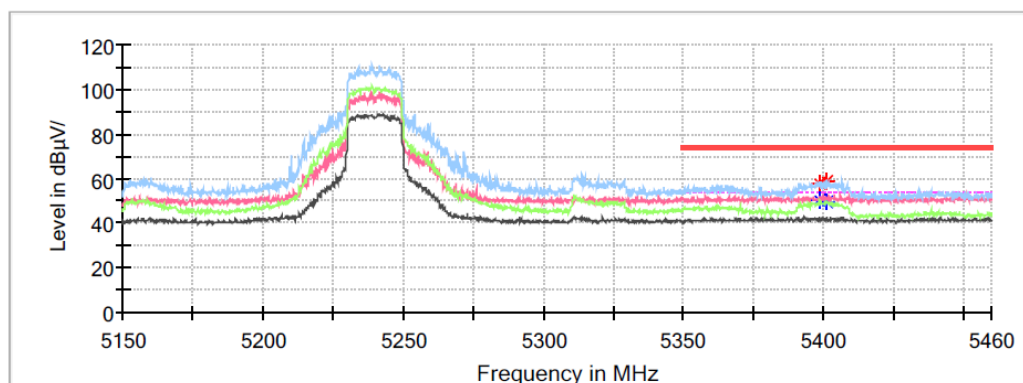
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5108.700000	---	51.20	54.00	2.80	H	3.4
5108.700000	61.45	---	74.00	12.55	H	3.4
5149.500000	---	52.51	54.00	1.49	H	3.5
5149.500000	67.11	---	74.00	6.89	H	3.5

Common Information

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU242 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5℃
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

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)
5398.868000	58.09	---	74.00	15.91	H	4.0
5398.868000	---	50.32	54.00	3.68	H	4.0
5400.976000	---	49.12	54.00	4.88	H	4.1
5400.976000	59.10	---	74.00	14.90	H	4.1

Bandedge Emissions Test (5725-5850MHz Band):

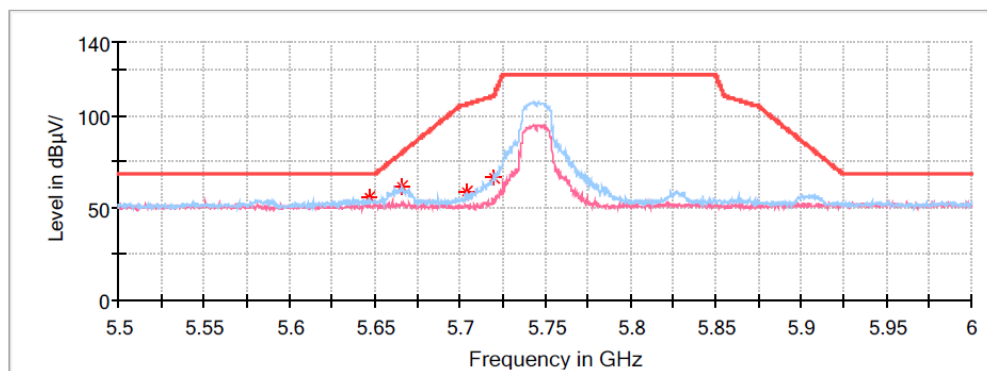
Note:

1. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
2. Corrected Amplitude = Corrected Factor + Reading
3. Margin = Limit - Corrected. Amplitude

802.11a Mode:**Common Information**

Project No.:	RKSB250928004
EUT Model:	MC Gateway
Test Mode:	5G WIFI 802.11a mode Low Channel
Standard:	FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	20.6°C
Humidity:	52%
Atmospheric Pressure:	102.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/11/14

Full Spectrum

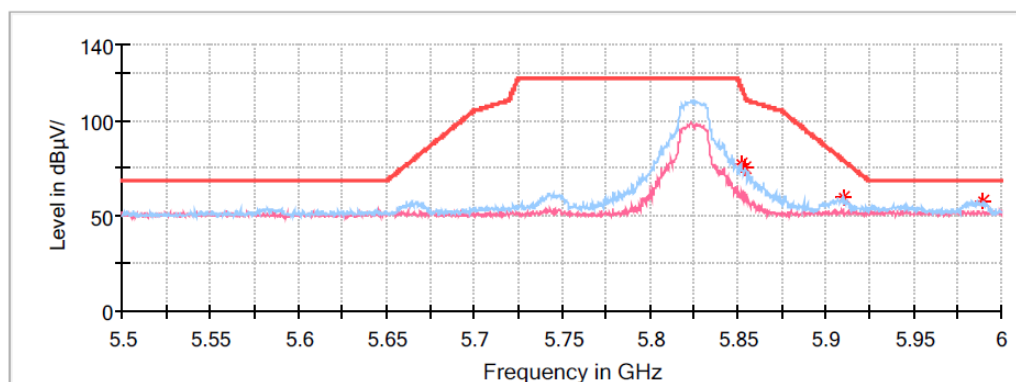
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5647.200000	56.16	---	68.20	12.04	H	4.6
5666.400000	61.53	---	80.34	18.81	H	4.7
5703.800000	59.06	---	106.26	47.21	H	4.7
5719.800000	67.06	---	110.74	43.68	H	4.8

Common Information

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11a mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.6℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/11/14

Full Spectrum



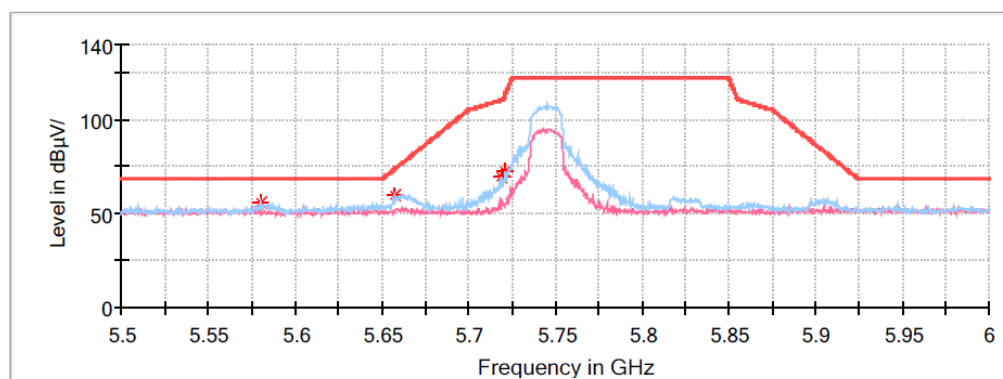
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5851.600000	76.95	---	118.55	41.60	H	5.1
5854.400000	75.69	---	112.17	36.48	H	5.1
5910.600000	59.91	---	78.86	18.94	H	5.2
5989.200000	58.20	---	68.20	10.00	H	5.4

802.11ac20 Mode:**Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ac20 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.6°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/11/14

Full Spectrum

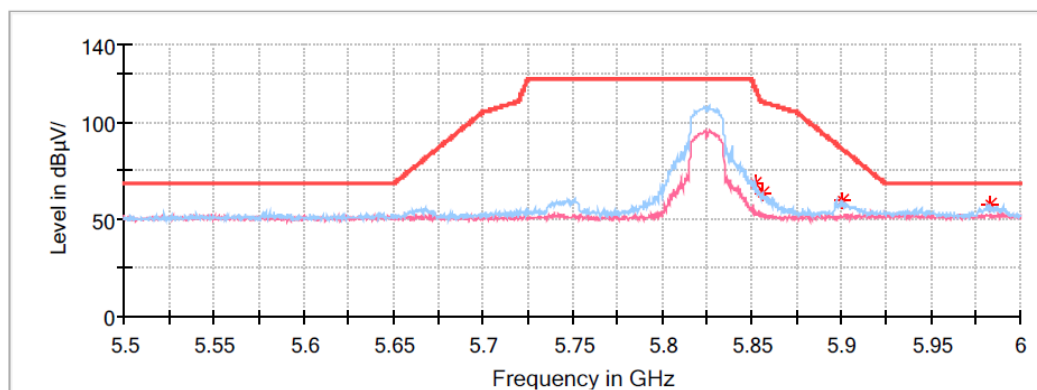
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5580.800000	55.65	---	68.20	12.55	H	4.5
5658.000000	59.78	---	74.12	14.34	H	4.6
5718.400000	69.42	---	110.35	40.94	H	4.8
5721.000000	72.71	---	113.08	40.37	H	4.8

Common Information

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ac20 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.6°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/11/14

Full Spectrum



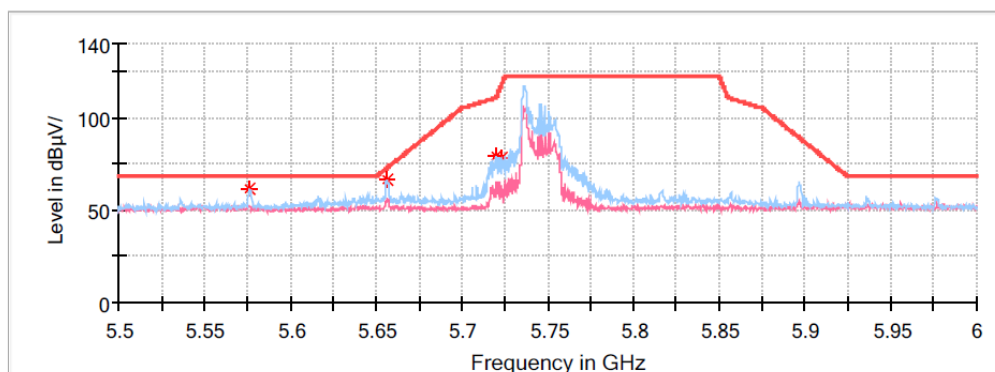
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5852.400000	68.15	---	116.73	48.57	H	5.1
5855.800000	63.68	---	110.58	46.90	H	5.1
5900.600000	59.72	---	86.26	26.53	H	5.2
5983.200000	57.36	---	68.20	10.84	H	5.3

802.11ax20 RU26 Mode:**Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU26 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 17.8°C
Humidity: 45%
Atmospheric Pressure: 102.9kPa
Test Engineer: Destine Hu
Test Date: 2025/11/25

Full Spectrum

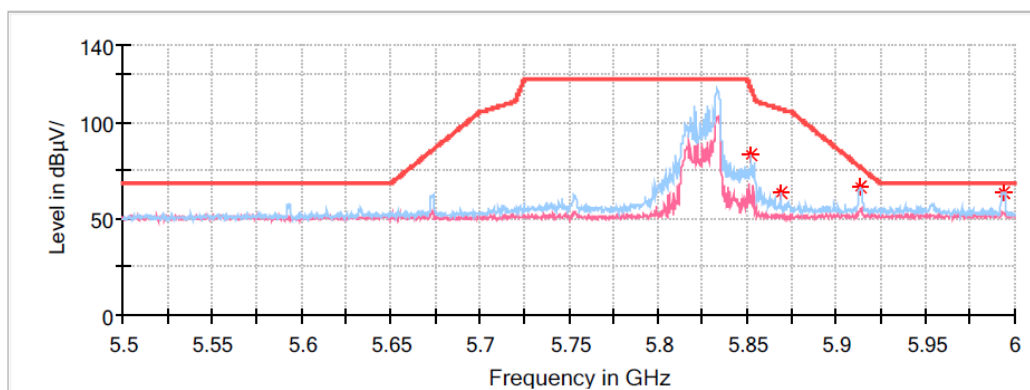
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5576.000000	61.30	---	68.20	6.90	H	4.5
5656.200000	66.65	---	72.79	6.14	H	4.6
5719.800000	79.63	---	110.74	31.12	H	4.8
5723.200000	78.62	---	118.10	39.47	H	4.8

Common Information

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU26 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 17.8℃
Humidity: 45%
Atmospheric Pressure: 102.9kPa
Test Engineer: Destine Hu
Test Date: 2025/11/25

Full Spectrum



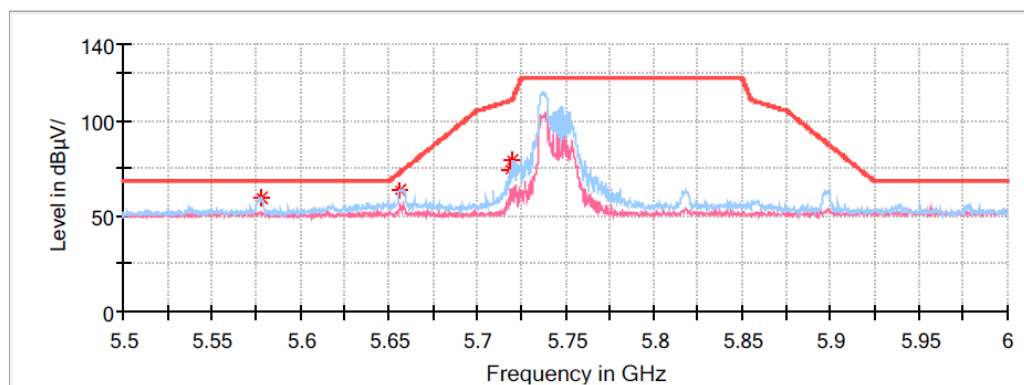
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5851.800000	83.28	---	118.10	34.81	H	5.1
5869.000000	63.23	---	106.88	43.65	H	5.1
5913.400000	66.49	---	76.78	10.29	H	5.2
5994.000000	63.88	---	68.20	4.32	H	5.4

802.11ax20 RU52 Mode:**Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU52 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 17.8℃
Humidity: 45%
Atmospheric Pressure: 102.9kPa
Test Engineer: Destine Hu
Test Date: 2025/11/25

Full Spectrum

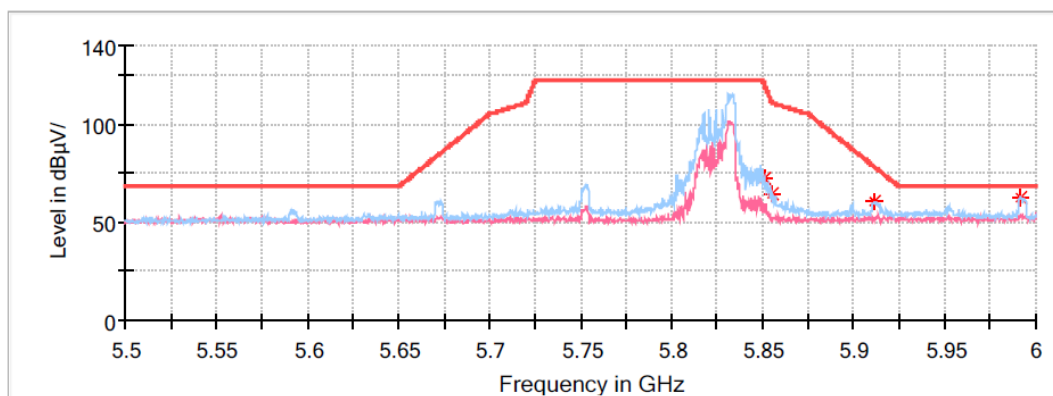
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5578.200000	59.95	---	68.20	8.25	H	4.5
5656.600000	63.80	---	73.08	9.28	H	4.6
5719.000000	74.58	---	110.52	35.94	H	4.8
5720.200000	79.49	---	111.26	31.76	H	4.8

Common Information

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU52 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 17.8°C
Humidity: 45%
Atmospheric Pressure: 102.9kPa
Test Engineer: Destine Hu
Test Date: 2025/11/25

Full Spectrum



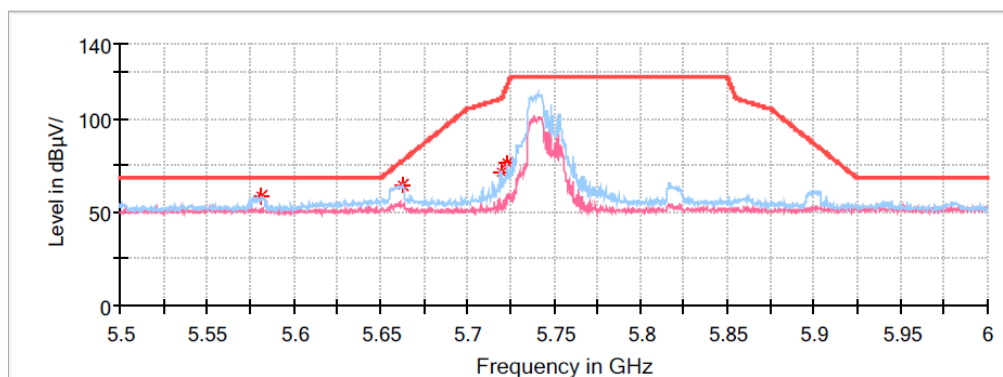
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5850.600000	72.70	---	120.83	48.13	H	5.1
5855.600000	64.42	---	110.63	46.21	H	5.1
5911.400000	60.41	---	78.26	17.85	H	5.2
5992.000000	62.60	---	68.20	5.60	H	5.4

802.11ax20 RU106 Mode:**Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU106 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 17.8°C
Humidity: 45%
Atmospheric Pressure: 102.9kPa
Test Engineer: Destine Hu
Test Date: 2025/11/25

Full Spectrum

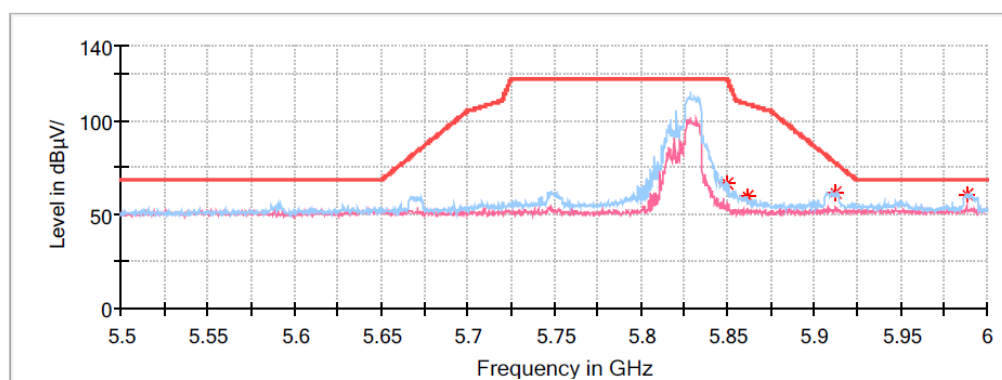
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5581.200000	58.47	---	68.20	9.73	H	4.5
5663.000000	64.53	---	77.82	13.29	H	4.6
5719.600000	71.47	---	110.69	39.22	H	4.8
5723.000000	75.96	---	117.64	41.68	H	4.8

Common Information

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU106 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.6°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/11/14

Full Spectrum



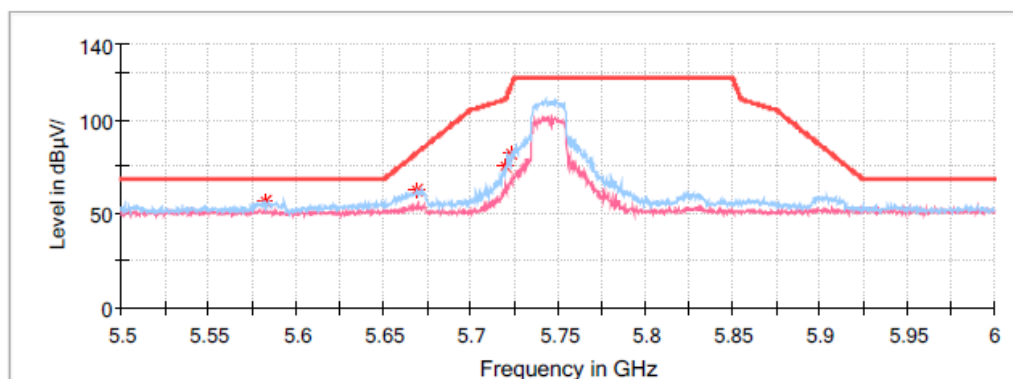
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5850.400000	66.38	---	121.29	54.91	H	5.1
5861.600000	60.15	---	108.95	48.80	H	5.1
5912.200000	61.97	---	77.67	15.70	H	5.2
5988.800000	61.02	---	68.20	7.18	H	5.4

802.11ax20 RU242 Mode:**Common Information**

Project No.:	RKSB250928004
EUT Model:	MC Gateway
Test Mode:	5G WIFI 802.11ax20-RU242 mode Low Channel
Standard:	FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	17.8°C
Humidity:	45%
Atmospheric Pressure:	102.9kPa
Test Engineer:	Destine Hu
Test Date:	2025/11/25

Full Spectrum

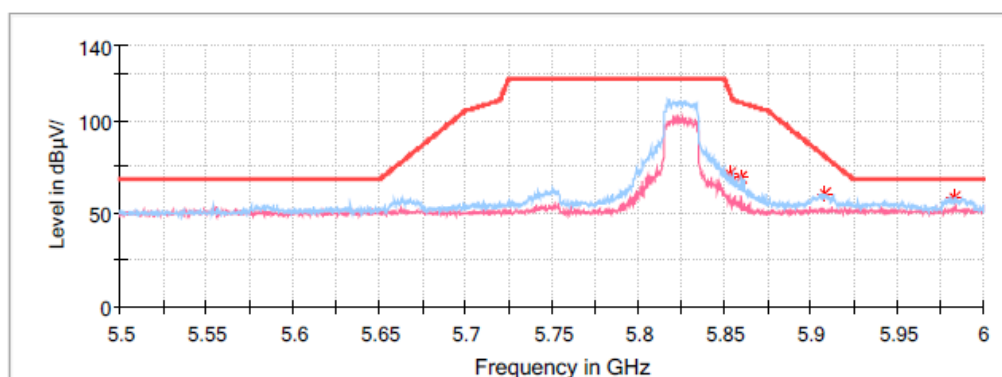
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5582.600000	56.95	---	68.20	11.25	H	4.5
5669.600000	62.34	---	82.70	20.37	H	4.7
5719.600000	75.12	---	110.69	35.57	H	4.8
5723.000000	82.37	---	117.64	35.27	H	4.8

Common Information

Project No.: RKS250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU242 mode High Channel
Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 17.8°C
Humidity: 45%
Atmospheric Pressure: 102.9kPa
Test Engineer: Destine Hu
Test Date: 2025/11/25

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)
5852.800000	71.61	---	115.82	44.21	H	5.1
5859.800000	69.81	---	109.46	39.65	H	5.1
5908.200000	60.74	---	80.63	19.89	H	5.2
5982.800000	58.71	---	68.20	9.49	H	5.3

EMISSION BANDWIDTH**Environmental Conditions & Test Information**

Test Date:	2025-11-13 to 2025-11-27
Temperature:	24.1-25.2℃
Relative Humidity:	51-55 %
ATM Pressure:	101.2-102.8kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant

5150-5250 MHz:

Test mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
802.11 a	Low	5180	23.426	16.750
	Middle	5200	23.378	16.750
	High	5240	22.907	16.700
802.11 ac20	Low	5180	20.756	17.600
	Middle	5200	23.715	17.600
	High	5240	20.402	17.600
802.11ax20_RU_242/1	Low	5180	31.337	18.900
	Middle	5200	31.540	18.900
	High	5240	25.084	18.850

Note: the 99% Occupied Bandwidth have not fall into the band 5250-5350MHz.

5725-5850MHz:

Test mode	Channel	Frequency (MHz)	99% Bandwidth (MHz)
802.11 a	Low	5745	17.550
	Middle	5785	17.400
	High	5825	17.700
802.11 ac20	Low	5745	18.550
	Middle	5785	18.350
	High	5825	18.700
802.11ax20_RU_242/1	Low	5745	19.250
	Middle	5785	19.150
	High	5825	19.350

Note: the 99% Occupied Bandwidth have not fall into the band 5470-5725MHz.

Test mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
802.11 a	Low	5745	15.200	0.5
	Middle	5785	15.150	
	High	5825	15.200	
802.11 ac20	Low	5745	15.200	
	Middle	5785	15.200	
	High	5825	15.150	
802.11ax20_RU_242/1	Low	5745	18.450	
	Middle	5785	18.500	
	High	5825	18.450	

802.11a 5745MHz



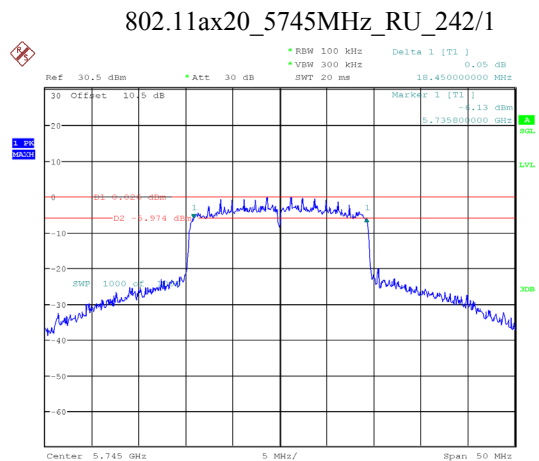
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Date: 13.NOV.2025 14:08:17

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Date: 13.NOV.2025 14:13:58

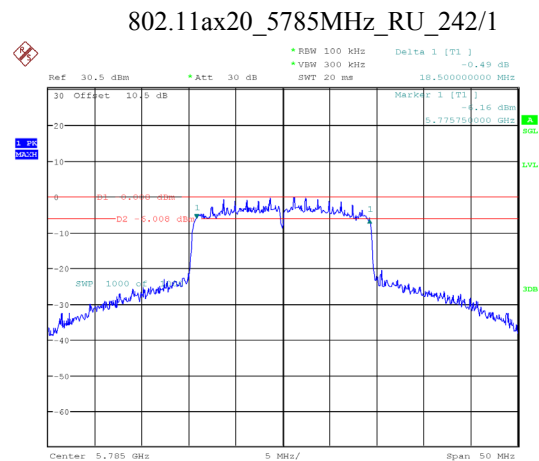
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Date: 13.NOV.2025 14:24:10

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Date: 13.NOV.2025 14:29:55

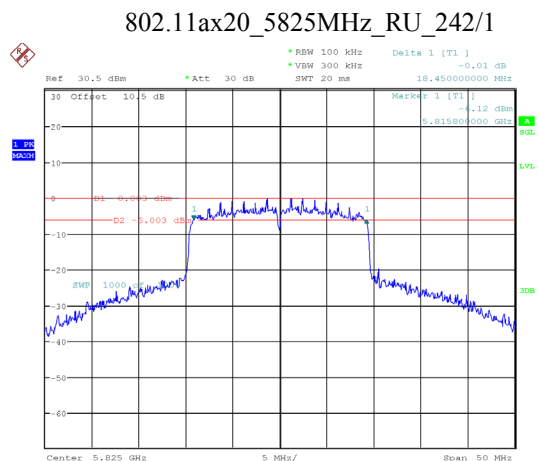
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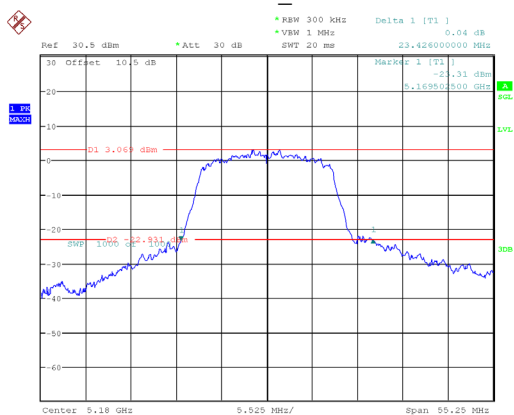
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Date: 13.NOV.2025 15:42:53



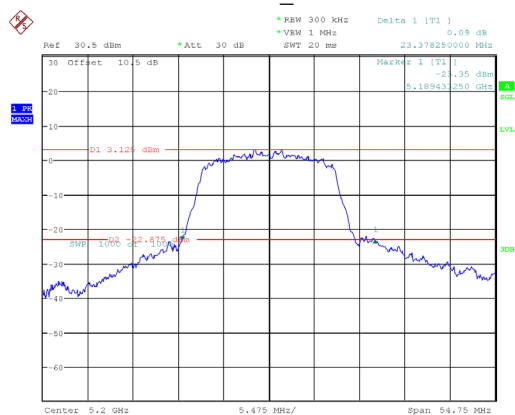
ProjectNo.:RKSB250928004 Tester:Neil Zhou
Date: 13.NOV.2025 15:48:00



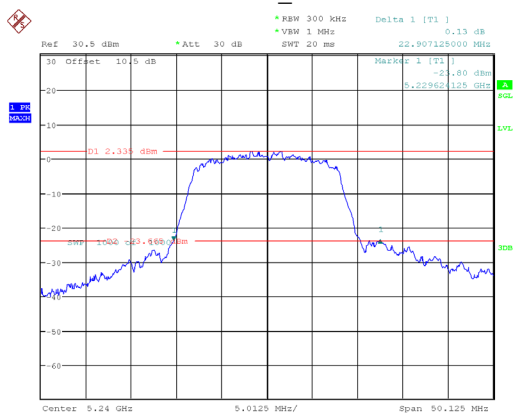
ProjectNo.:RKSB250928004 Tester:Neil Zhou
Date: 13.NOV.2025 15:56:03

**26 Bandwidth
5150-5250 MHz Band:****802.11a_5180MHz**

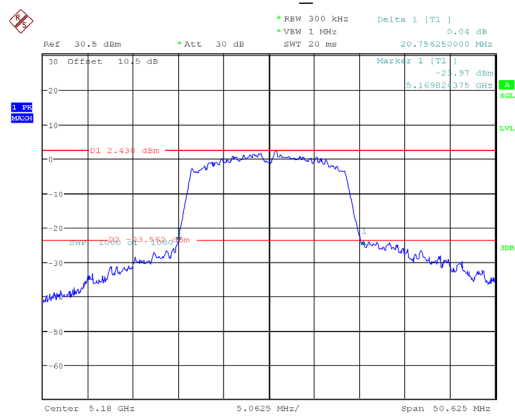
ProjectNo.:RKSB250928004 Tester:Neil Zhou
Date: 13.NOV.2025 09:23:59

802.11a_5200MHz

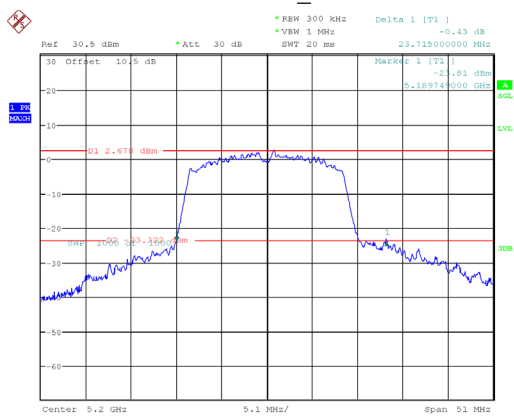
ProjectNo.:RKSB250928004 Tester:Neil Zhou
Date: 13.NOV.2025 09:31:01

802.11a_5240MHz

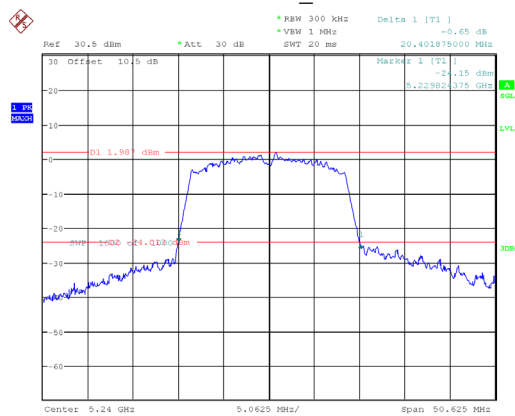
ProjectNo.:RKSB250928004 Tester:Neil Zhou
Date: 13.NOV.2025 09:38:40

802.11ac20_5180MHz

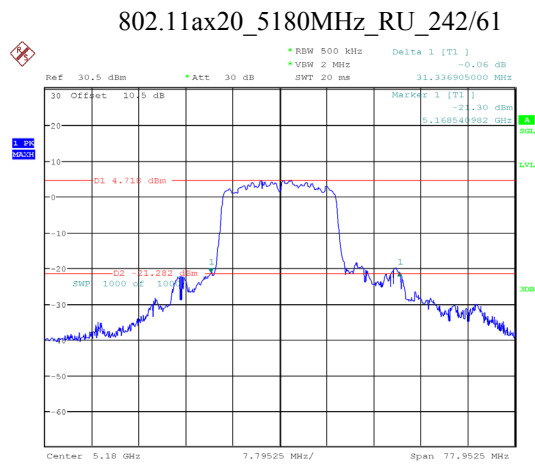
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802.11ac20_5200MHz

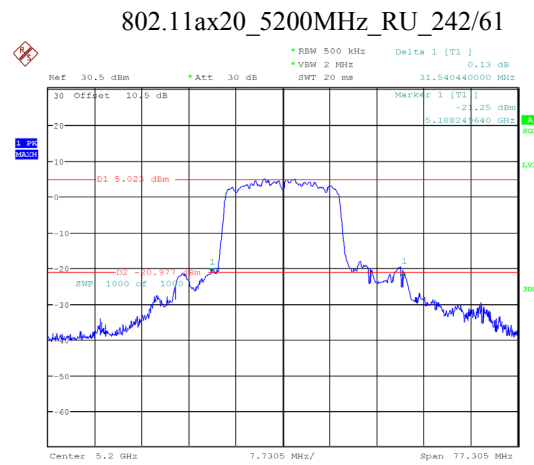
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Date: 13.NOV.2025 09:53:48

802.11ac20_5240MHz

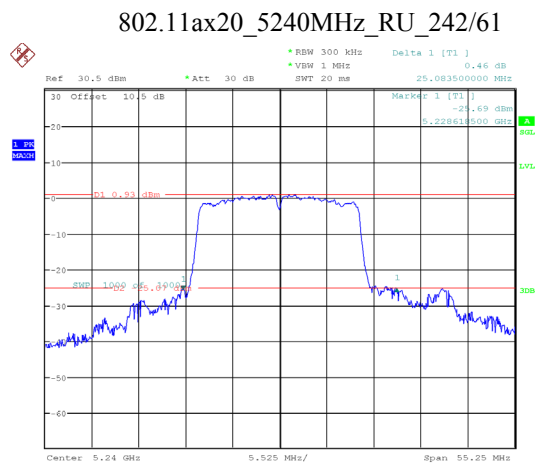
ProjectNo.:RKSB250928004 Tester:Neil Zhou
Date: 13.NOV.2025 10:08:14



ProjectNo.:RKSB250928004 Tester:Neil Zhou
Date: 13.NOV.2025 10:59:34



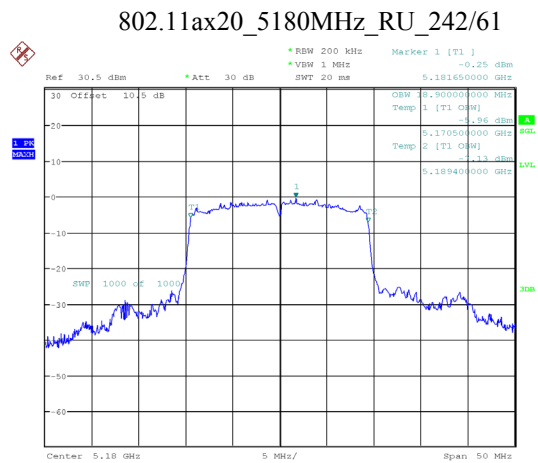
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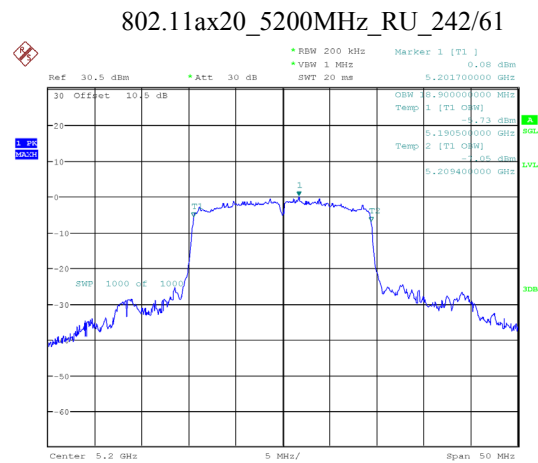
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Date: 13.NOV.2025 11:30:41

802.11a 5180MHz

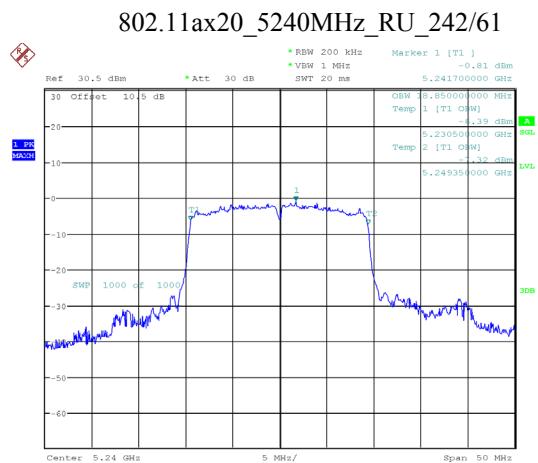




ProjectNo.:RKSB250928004 Tester:Neil Zhou
Date: 13.NOV.2025 11:00:38

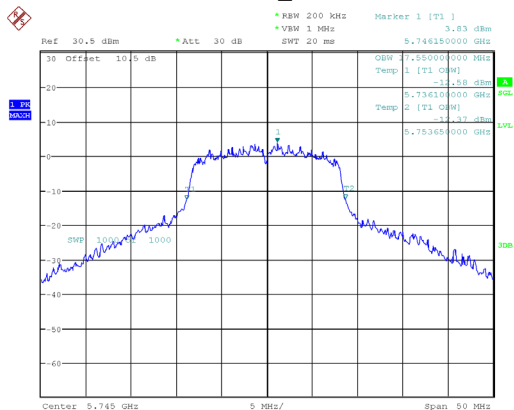


ProjectNo.:RKSB250928004 Tester:Neil Zhou
Date: 13.NOV.2025 11:09:34



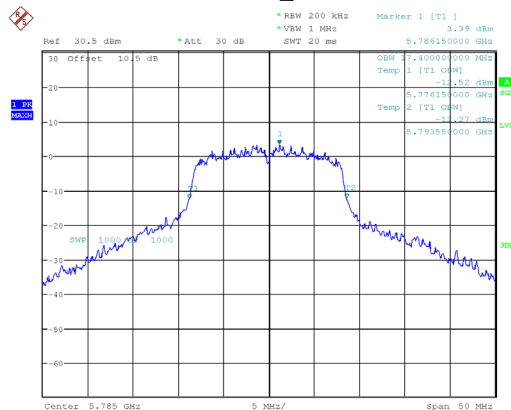
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802.11a 5745MHz



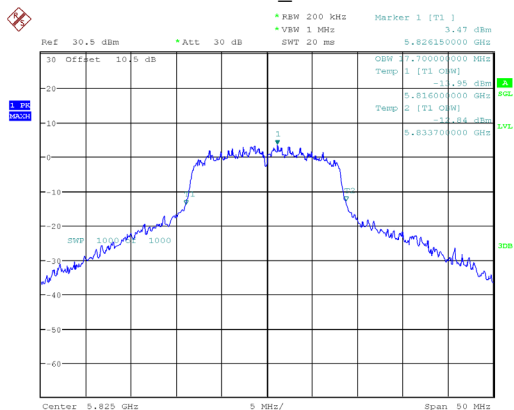
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Date: 13.NOV.2025 14:02:34

802.11a 5785MHz



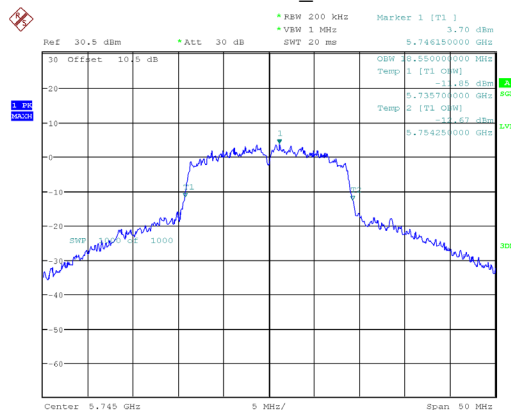
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802.11a 5825MHz



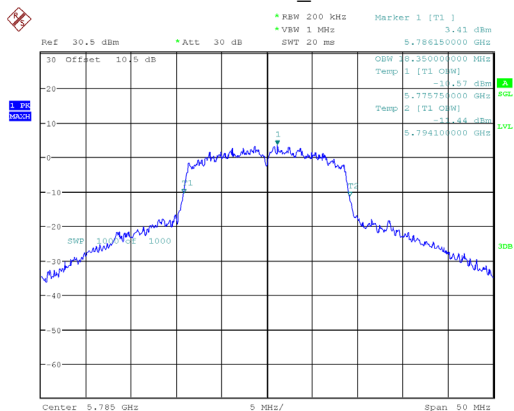
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802.11ac20 5745MHz



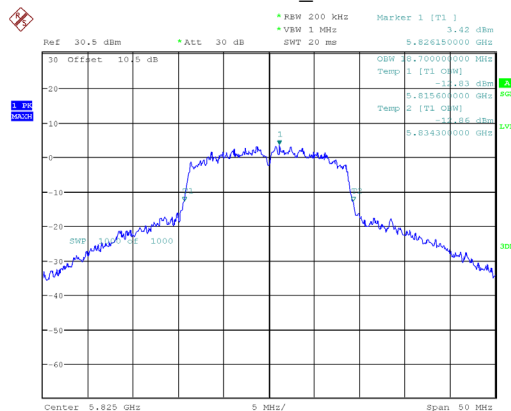
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802.11ac20 5785MHz



ProjectNo.:RKSB250928004 Tester:Neil Zhou
Date: 13.NOV.2025 14:30:59

802.11ac20 5825MHz



ProjectNo.:RKS250928004 Tester:Neil Zhou
Date: 13.NOV.2025 14:50:11