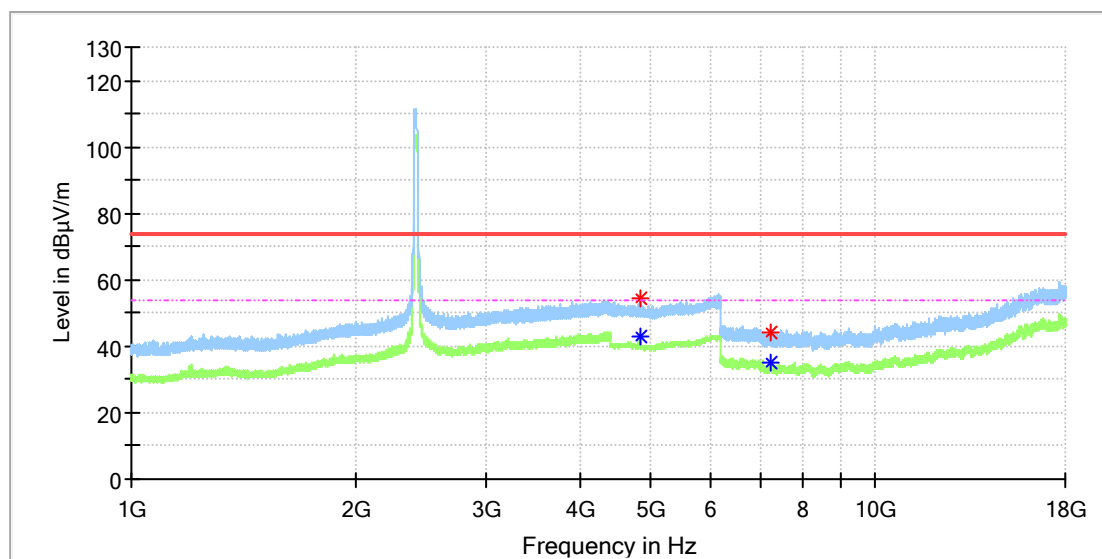


EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11g_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

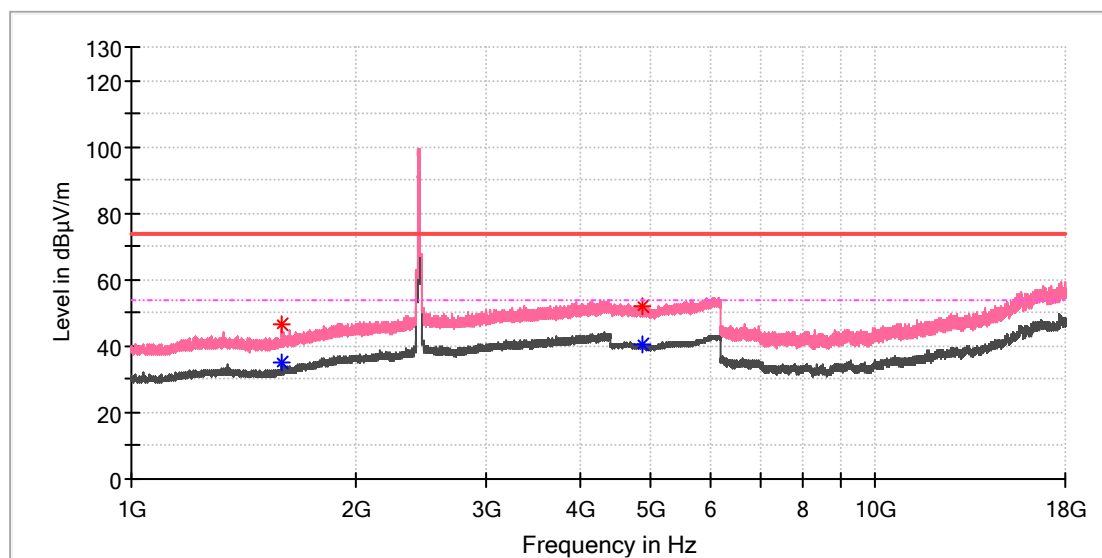


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4821.500000	54.16	---	74.00	19.84	100.0	H	18.0	13.5
4823.500000	---	43.17	54.00	10.83	100.0	H	9.0	13.5
7229.058333	---	34.96	54.00	19.04	100.0	H	7.0	8.6
7233.975000	44.03	---	74.00	29.97	100.0	H	7.0	8.6

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11g_Mid CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

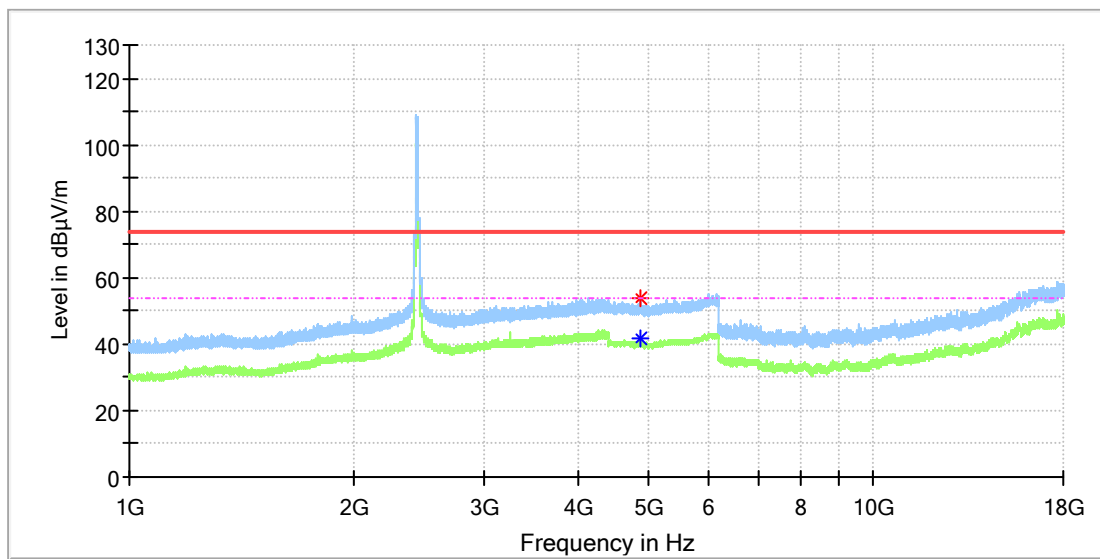


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1594.362500	46.30	---	74.00	27.70	100.0	V	170.0	2.0
1595.212500	---	34.99	54.00	19.01	100.0	V	286.0	2.0
4864.000000	51.83	---	74.00	22.17	100.0	V	220.0	13.4
4874.500000	---	40.45	54.00	13.55	100.0	V	289.0	13.4

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11g_Mid CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

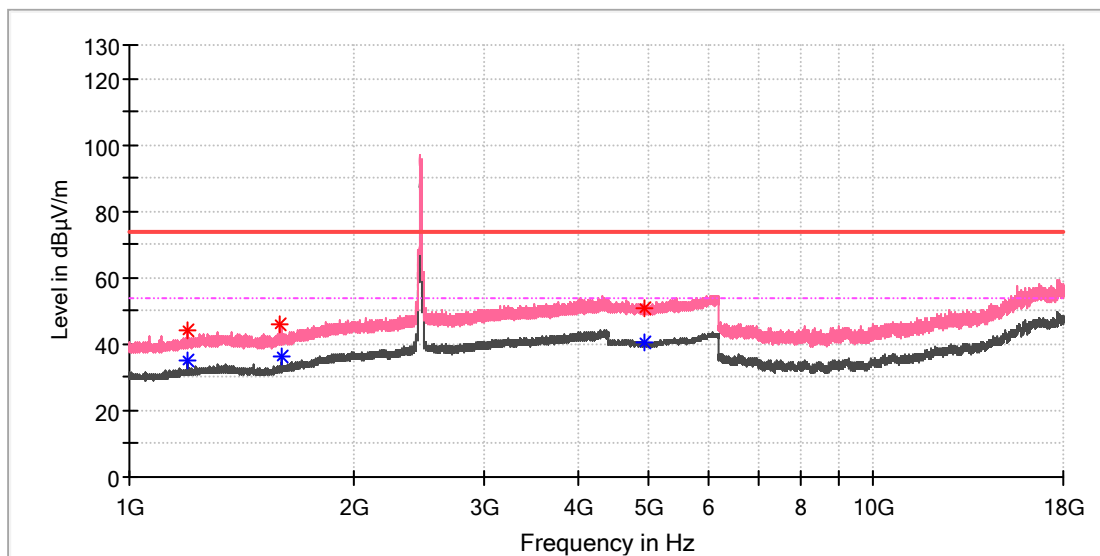


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4867.000000	53.62	---	74.00	20.38	100.0	H	4.0	13.4
4875.000000	---	41.99	54.00	12.01	100.0	H	21.0	13.4

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11g_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

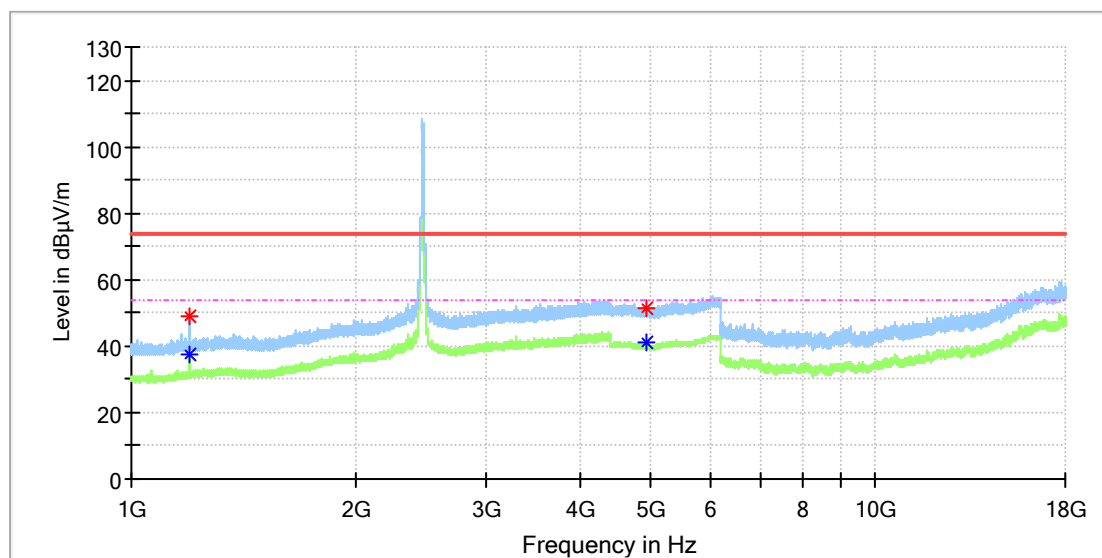


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1198.475000	44.15	---	74.00	29.85	100.0	V	0.0	1.1
1198.475000	---	35.32	54.00	18.68	100.0	V	0.0	1.1
1595.000000	45.67	---	74.00	28.33	100.0	V	297.0	2.0
1597.762500	---	36.28	54.00	17.72	100.0	V	48.0	2.1
4921.000000	50.86	---	74.00	23.14	100.0	V	314.0	13.3
4923.500000	---	40.23	54.00	13.77	100.0	V	306.0	13.3

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WiFi 2.4G_11g_High CH
 Test Voltage:: DC 5V
 Remark: Temp 24 Humi:47%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

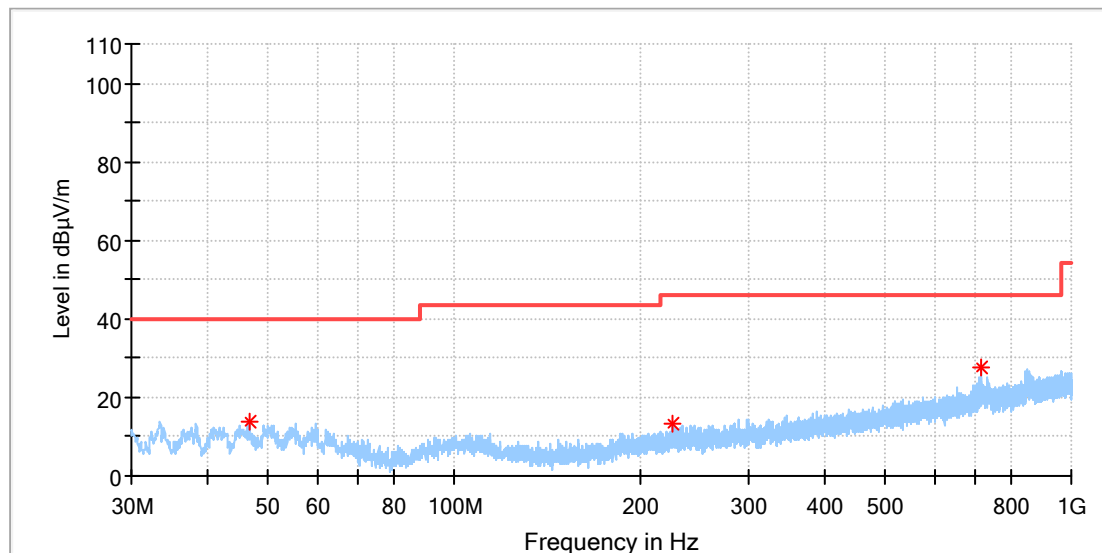


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.562500	48.78	---	74.00	25.22	100.0	H	194.0	1.1
1196.562500	---	37.61	54.00	16.39	100.0	H	194.0	1.1
4925.000000	---	41.02	54.00	12.98	100.0	H	2.0	13.3
4927.000000	51.14	---	74.00	22.86	100.0	H	8.0	13.3

Wi-Fi 802.11 n(HT20) mode, MCS0
30MHz - 1GHz
EUT Information

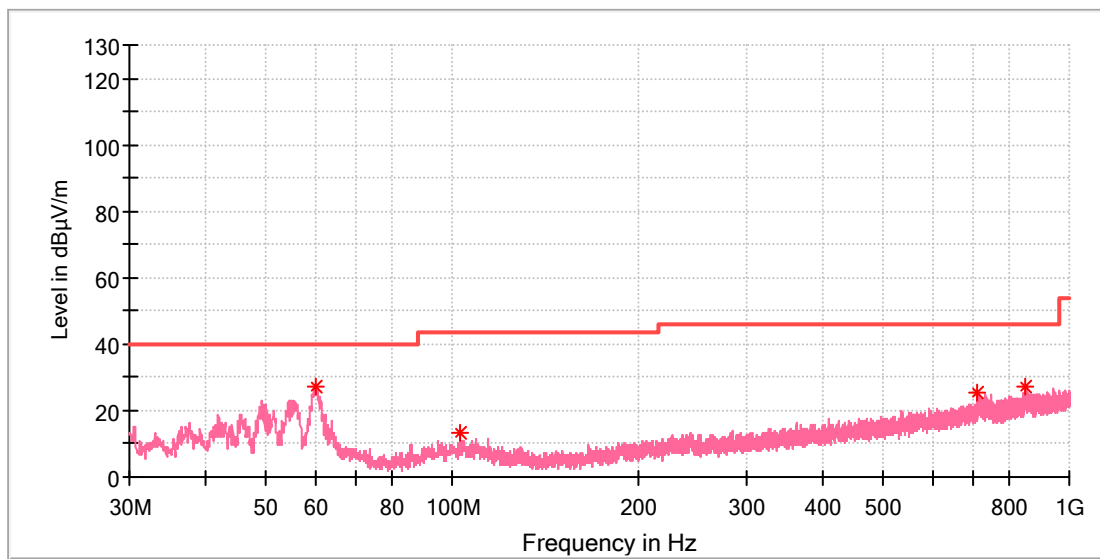
EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n 20M_Low CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.635500	13.93	---	40.00	26.07	100.0	H	17.0	-18.9
226.570500	13.45	---	46.00	32.55	100.0	H	240.0	-18.6
713.850000	27.45	---	46.00	18.55	100.0	H	4.0	-8.2

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n 20M_Low CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

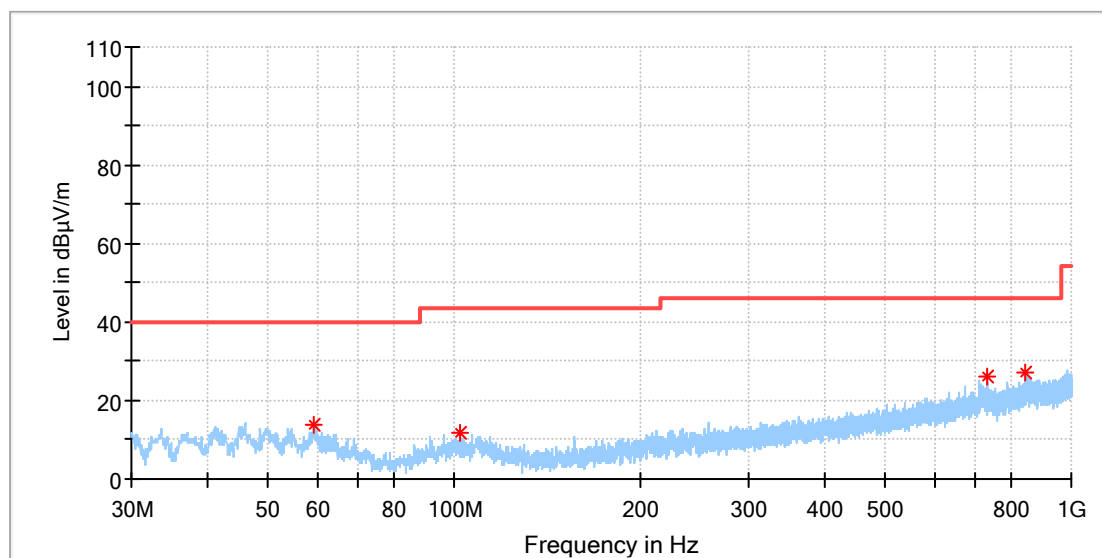


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
60.070000	27.27	---	40.00	12.73	100.0	V	148.0	-19.3
103.089500	13.53	---	43.50	29.97	100.0	V	24.0	-19.2
709.485000	25.34	---	46.00	20.66	100.0	V	106.0	-8.3
845.479000	27.06	---	46.00	18.94	100.0	V	177.0	-6.0

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n 20M_High CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

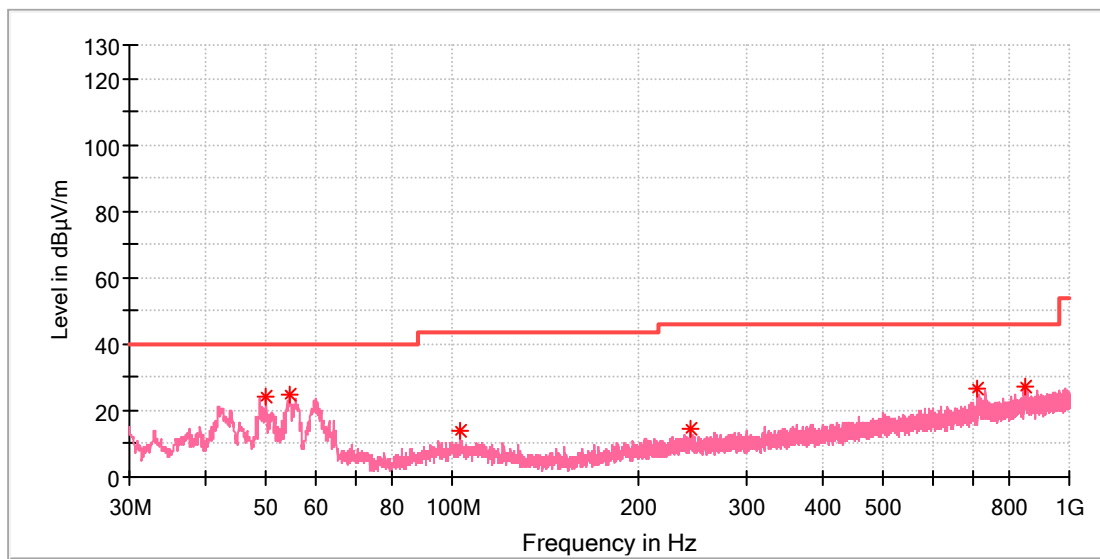


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.342500	13.75	---	40.00	26.25	100.0	H	202.0	-19.2
102.410500	11.58	---	43.50	31.92	100.0	H	359.0	-19.2
728.885000	25.88	---	46.00	20.12	100.0	H	109.0	-7.9
845.042500	26.95	---	46.00	19.05	100.0	H	0.0	-6.0

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n 20M_High CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

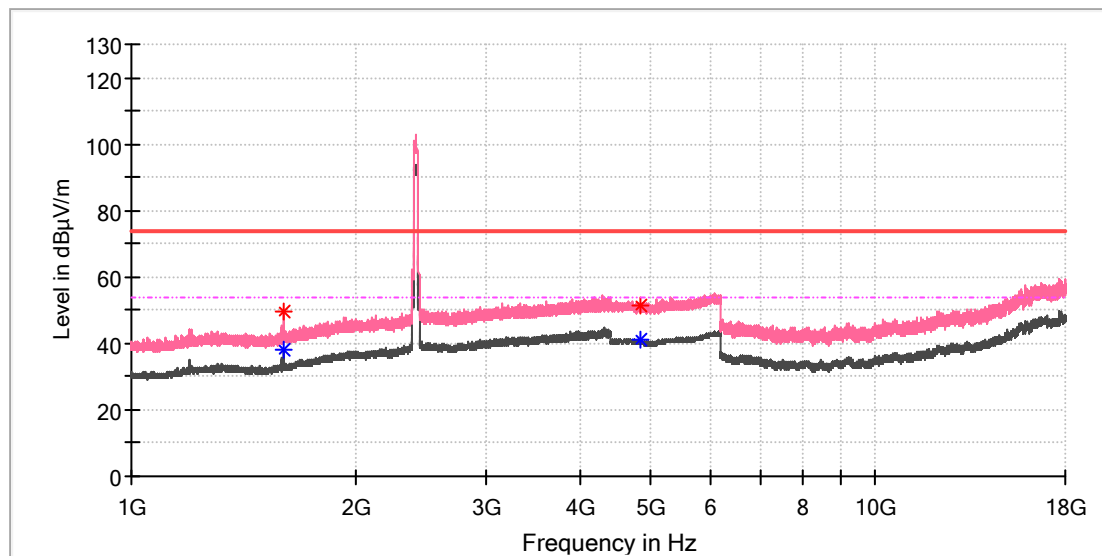


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.982000	24.14	---	40.00	15.86	100.0	V	314.0	-18.6
54.589500	24.55	---	40.00	15.45	100.0	V	343.0	-18.7
103.089500	13.86	---	43.50	29.64	100.0	V	51.0	-19.2
243.497000	14.28	---	46.00	31.72	100.0	V	156.0	-17.9
709.291000	26.31	---	46.00	19.69	100.0	V	176.0	-8.3
845.867000	27.12	---	46.00	18.88	100.0	V	67.0	-6.0

1GHz - 18GHz**EUT Information**

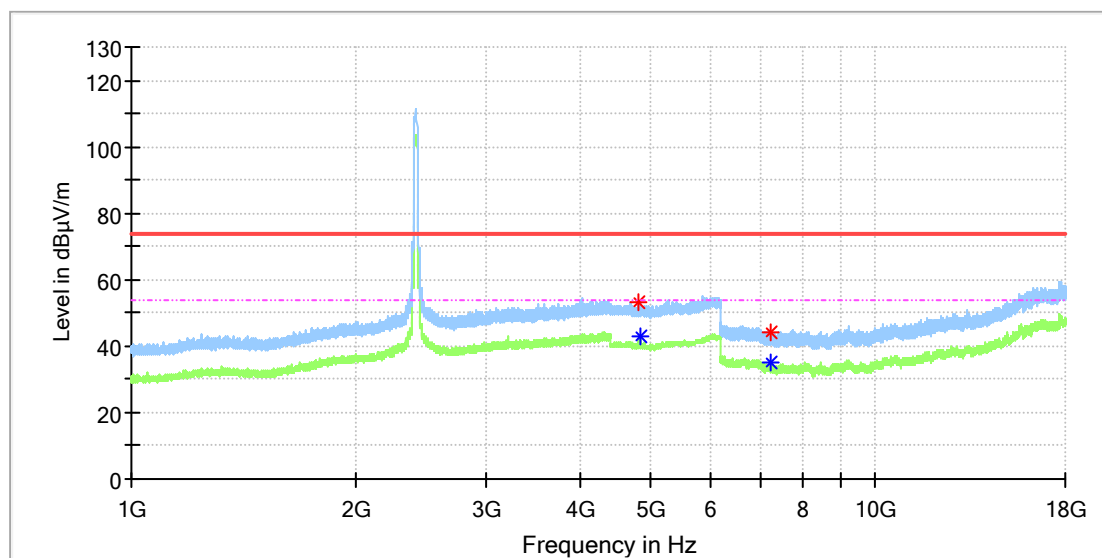
EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1597.975000	49.69	---	74.00	24.31	100.0	V	256.0	2.1
1597.975000	---	37.93	54.00	16.07	100.0	V	256.0	2.1
4820.000000	---	41.14	54.00	12.86	100.0	V	126.0	13.5
4823.000000	51.58	---	74.00	22.42	100.0	V	309.0	13.5

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

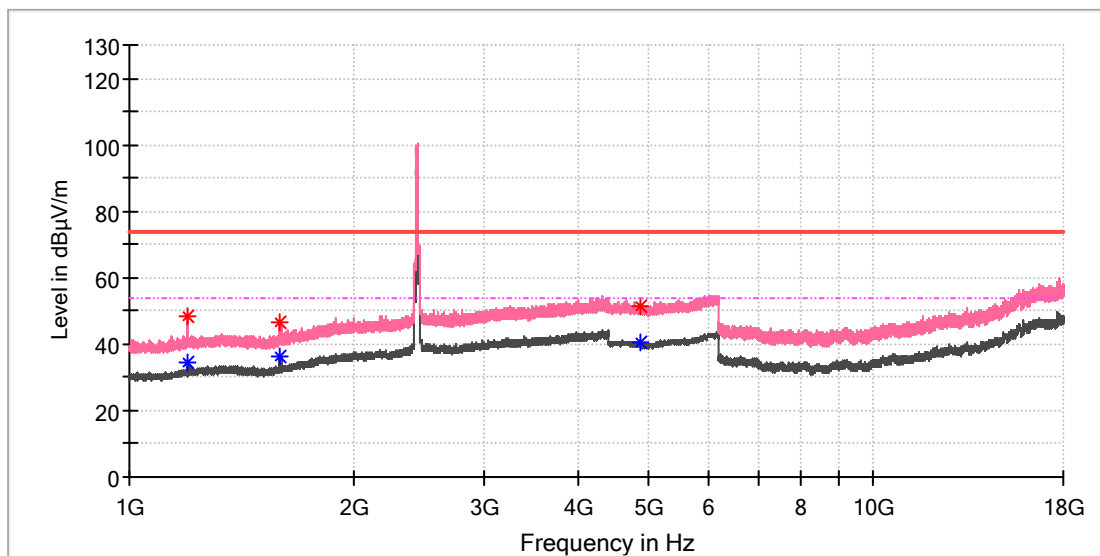


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4817.500000	53.37	---	74.00	20.63	100.0	H	13.0	13.5
4822.000000	---	42.83	54.00	11.17	100.0	H	6.0	13.5
7237.908333	---	34.97	54.00	19.03	100.0	H	8.0	8.6
7241.350000	43.98	---	74.00	30.02	100.0	H	255.0	8.6

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WiFi 2.4G_11n20_Mid CH
 Test Voltage:: DC 5V
 Remark: Temp 24 Humi:47%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

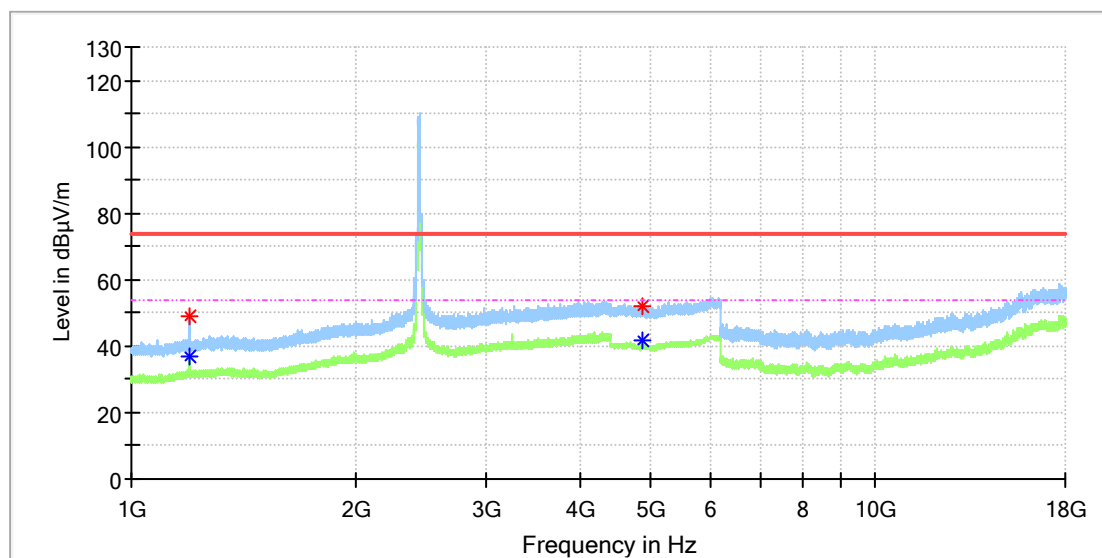


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.350000	48.57	---	74.00	25.43	100.0	V	354.0	1.1
1199.112500	---	34.72	54.00	19.28	100.0	V	0.0	1.1
1593.512500	46.45	---	74.00	27.55	100.0	V	302.0	2.0
1596.487500	---	36.35	54.00	17.65	100.0	V	293.0	2.1
4873.500000	51.61	---	74.00	22.39	100.0	V	289.0	13.4
4876.500000	---	40.35	54.00	13.65	100.0	V	309.0	13.4

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_Mid CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

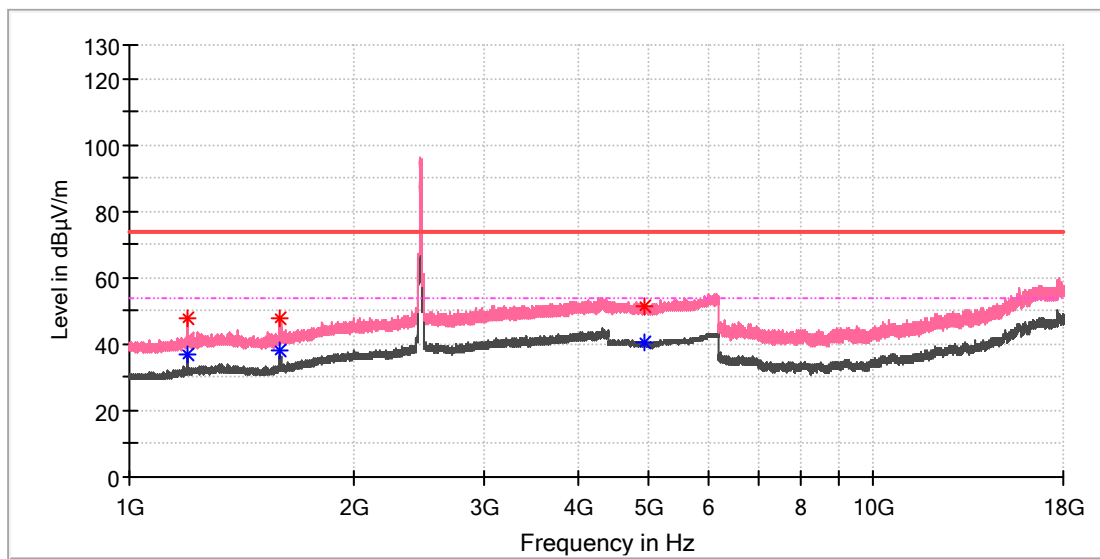


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.137500	48.83	---	74.00	25.17	100.0	H	248.0	1.1
1196.987500	---	36.74	54.00	17.26	100.0	H	248.0	1.1
4867.500000	52.00	---	74.00	22.00	100.0	H	12.0	13.4
4875.500000	---	41.56	54.00	12.44	100.0	H	12.0	13.4

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

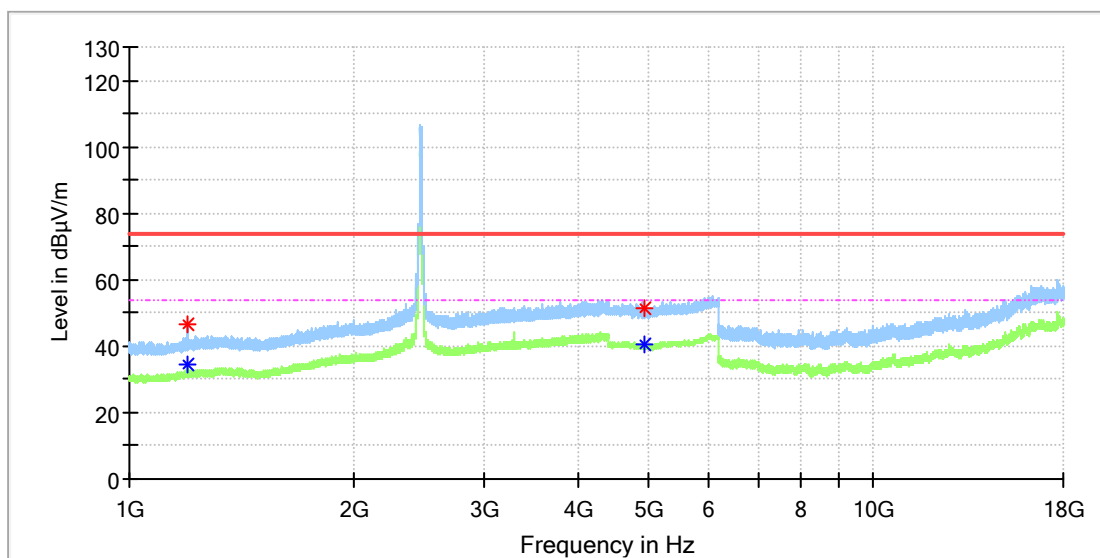


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.562500	---	36.58	54.00	17.42	100.0	V	0.0	1.1
1197.200000	47.94	---	74.00	26.06	100.0	V	0.0	1.1
1595.637500	---	37.96	54.00	16.04	100.0	V	252.0	2.0
1597.125000	47.89	---	74.00	26.11	100.0	V	252.0	2.1
4922.000000	51.37	---	74.00	22.63	100.0	V	43.0	13.3
4922.500000	---	40.47	54.00	13.53	100.0	V	79.0	13.3

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

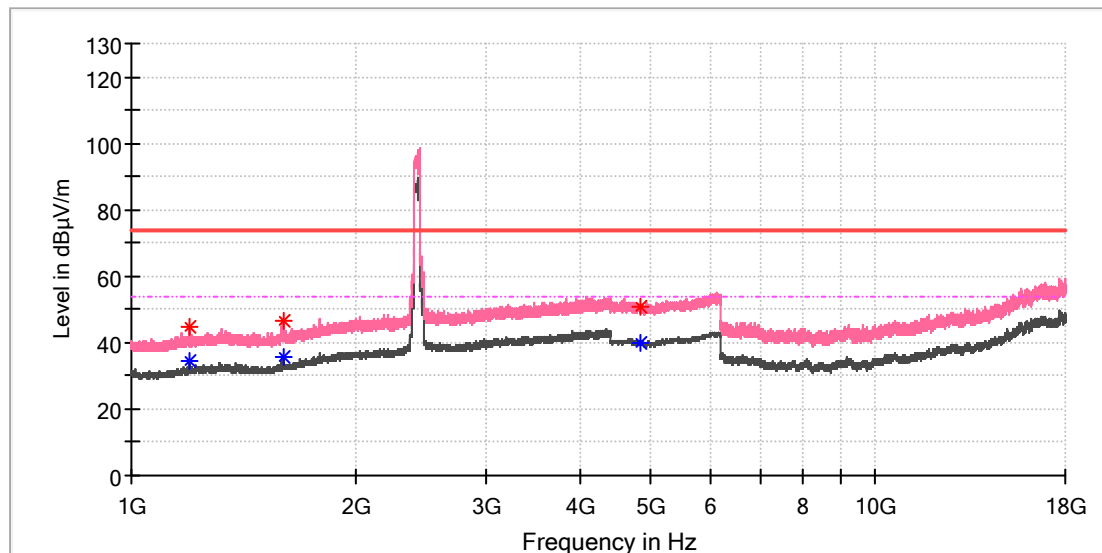


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1195.500000	---	34.42	54.00	19.58	100.0	H	122.0	1.1
1197.412500	46.76	---	74.00	27.24	100.0	H	122.0	1.1
4920.500000	---	40.38	54.00	13.62	100.0	H	54.0	13.3
4922.500000	51.59	---	74.00	22.41	100.0	H	304.0	13.3

Wi-Fi 802.11 n(HT40) mode, MCS0
1GHz - 18GHz
EUT Information

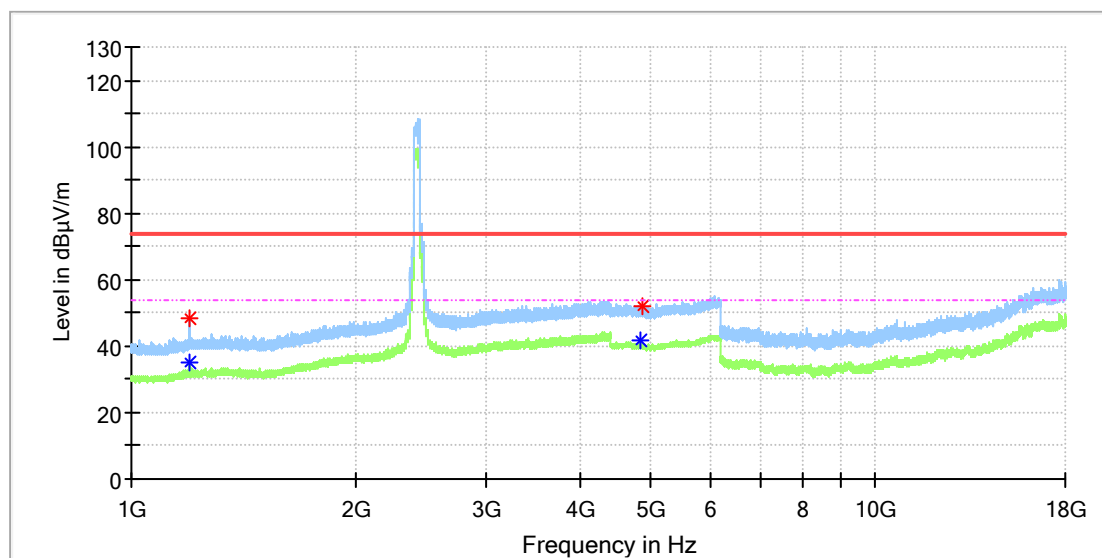
EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n40_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.137500	---	34.28	54.00	19.72	100.0	V	268.0	1.1
1199.750000	44.53	---	74.00	29.47	100.0	V	268.0	1.1
1597.550000	46.46	---	74.00	27.54	100.0	V	256.0	2.1
1597.550000	---	35.81	54.00	18.19	100.0	V	256.0	2.1
4844.500000	---	40.19	54.00	13.81	100.0	V	122.0	13.4
4846.000000	50.80	---	74.00	23.20	100.0	V	108.0	13.4

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n40_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

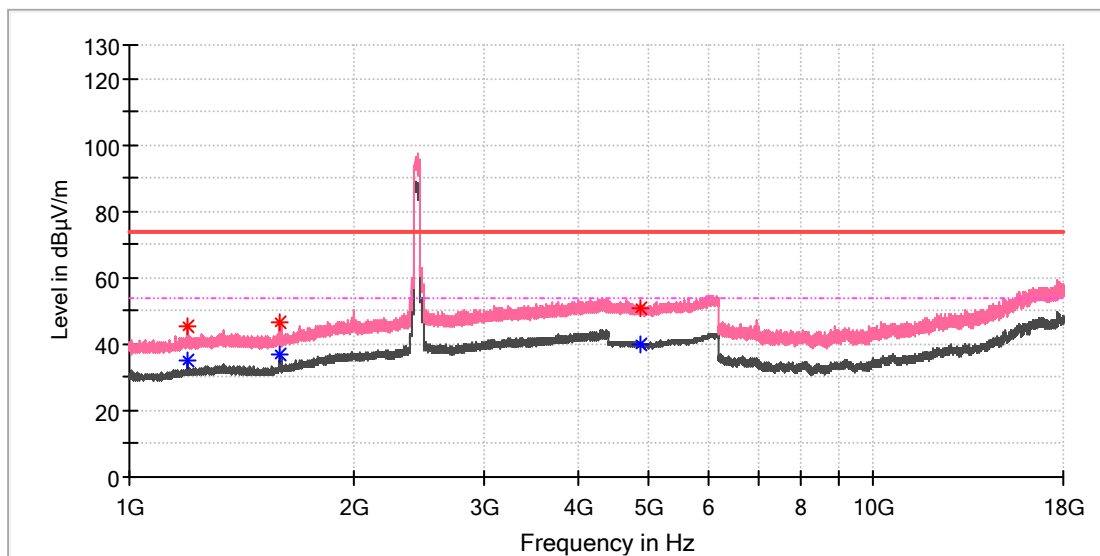


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1195.287500	---	35.08	54.00	18.92	100.0	H	87.0	1.1
1197.200000	48.51	---	74.00	25.49	100.0	H	87.0	1.1
4843.000000	---	41.44	54.00	12.56	100.0	H	20.0	13.4
4850.500000	51.94	---	74.00	22.06	100.0	H	20.0	13.4

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n40_Mid CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

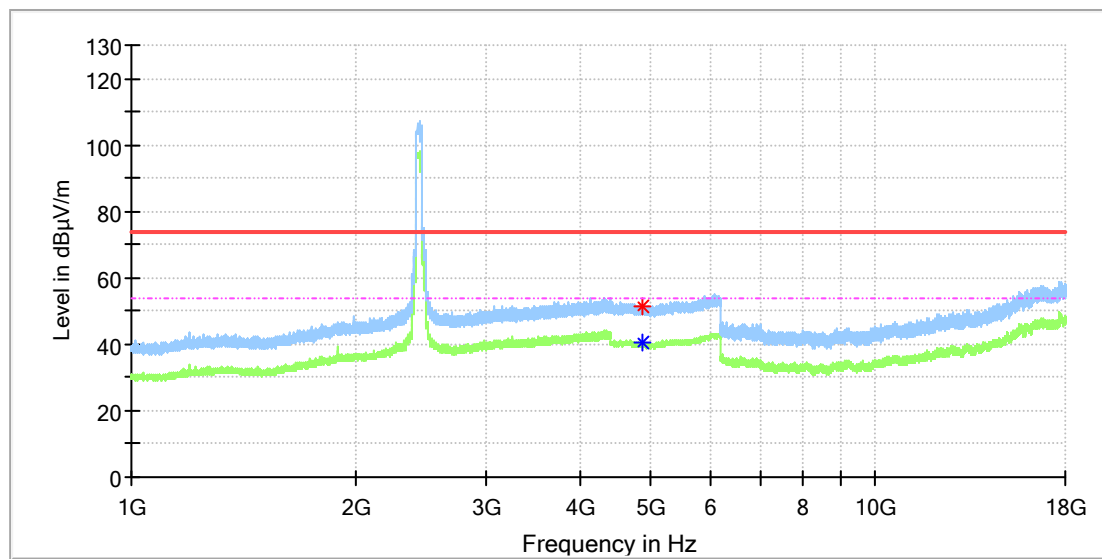


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1195.925000	---	35.35	54.00	18.65	100.0	V	33.0	1.1
1196.987500	45.11	---	74.00	28.89	100.0	V	33.0	1.1
1596.487500	---	36.68	54.00	17.32	100.0	V	268.0	2.1
1596.487500	46.32	---	74.00	27.68	100.0	V	268.0	2.1
4873.500000	---	39.93	54.00	14.07	100.0	V	293.0	13.4
4874.000000	50.62	---	74.00	23.38	100.0	V	127.0	13.4

EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n40_Mid CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

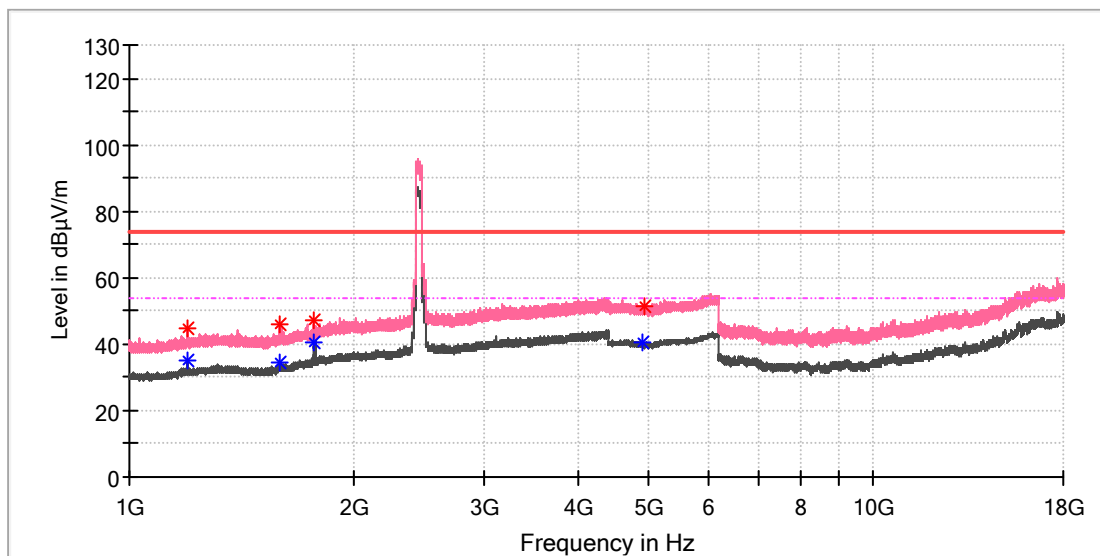


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.500000	51.25	---	74.00	22.75	100.0	H	10.0	13.4
4877.000000	---	40.29	54.00	13.71	100.0	H	18.0	13.4

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WiFi 2.4G_11n40_High CH
 Test Voltage:: DC 5V
 Remark: Temp 24 Humi:47%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

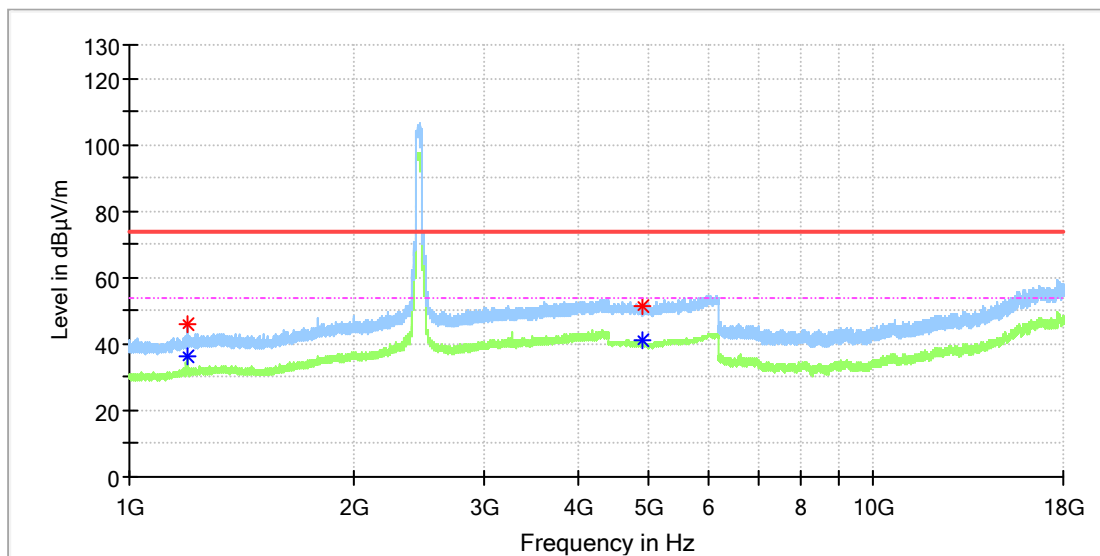


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.987500	44.83	---	74.00	29.17	100.0	V	0.0	1.1
1197.837500	---	34.82	54.00	19.18	100.0	V	6.0	1.1
1597.125000	---	34.54	54.00	19.46	100.0	V	259.0	2.1
1597.125000	46.05	---	74.00	27.95	100.0	V	259.0	2.1
1766.912500	46.93	---	74.00	27.07	100.0	V	119.0	4.1
1766.912500	---	40.32	54.00	13.68	100.0	V	119.0	4.1
4900.500000	---	40.47	54.00	13.53	100.0	V	87.0	13.3
4910.000000	51.21	---	74.00	22.79	100.0	V	23.0	13.3

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n40_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1195.075000	45.67	---	74.00	28.33	100.0	H	250.0	1.1
1195.925000	---	36.40	54.00	17.60	100.0	H	250.0	1.1
4901.500000	---	40.82	54.00	13.18	100.0	H	69.0	13.3
4904.000000	51.40	---	74.00	22.60	100.0	H	327.0	13.3

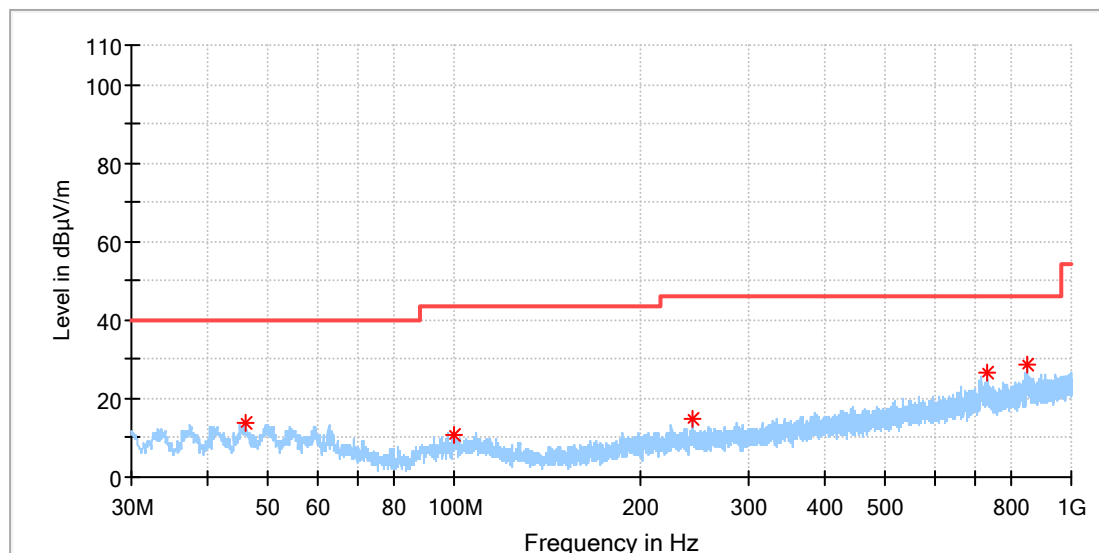
Appendix B.3: Test Results of Radiated Spurious Emissions, configuration 3

Bluetooth Low Energy

30MHz - 1GHz

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_High channel
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

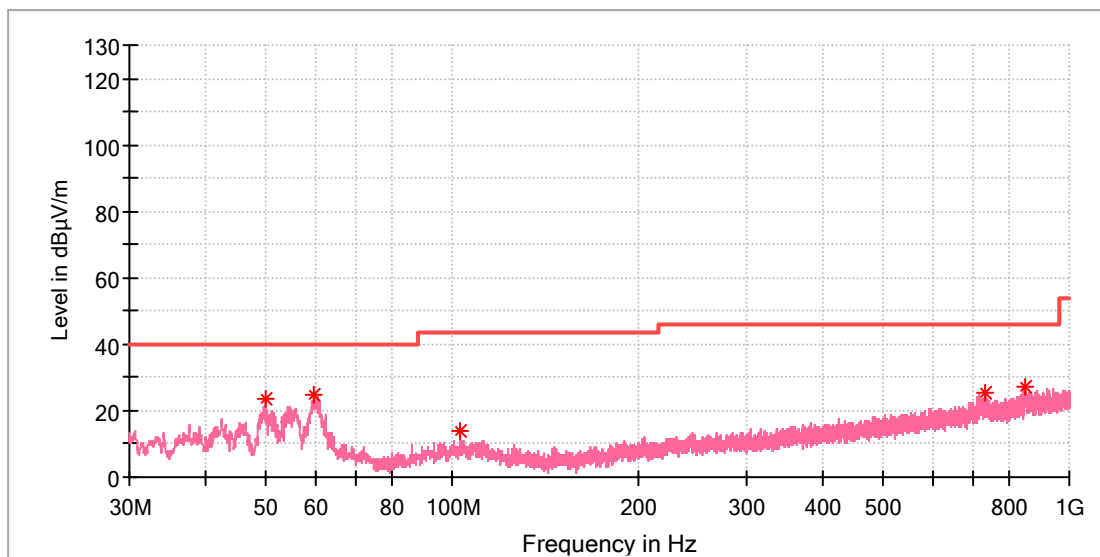


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.908000	13.98	---	40.00	26.02	100.0	H	250.0	-19.0
99.888500	10.74	---	43.50	32.76	100.0	H	279.0	-19.3
243.739500	14.92	---	46.00	31.08	100.0	H	54.0	-17.9
728.545500	26.44	---	46.00	19.56	100.0	H	12.0	-7.9
845.333500	28.46	---	46.00	17.54	100.0	H	115.0	-6.0

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_High channel
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

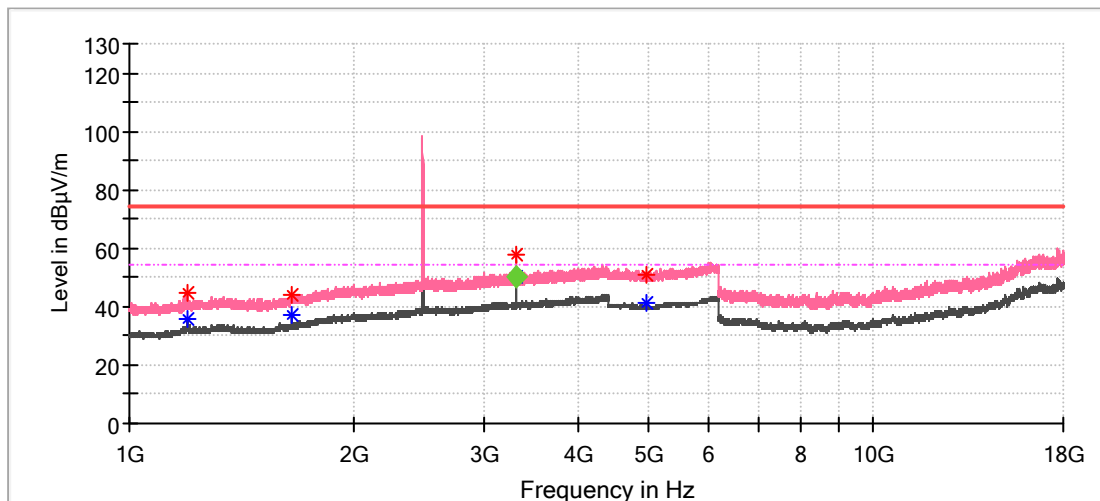


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.982000	23.36	---	40.00	16.64	100.0	V	308.0	-18.6
59.827500	24.57	---	40.00	15.43	100.0	V	76.0	-19.3
103.089500	13.87	---	43.50	29.63	100.0	V	268.0	-19.2
729.079000	25.14	---	46.00	20.86	100.0	V	15.0	-7.9
845.236500	27.18	---	46.00	18.82	100.0	V	329.0	-6.0

1GHz - 18GHz**EUT Information**

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_High channel
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Comment

Critical_Freqs

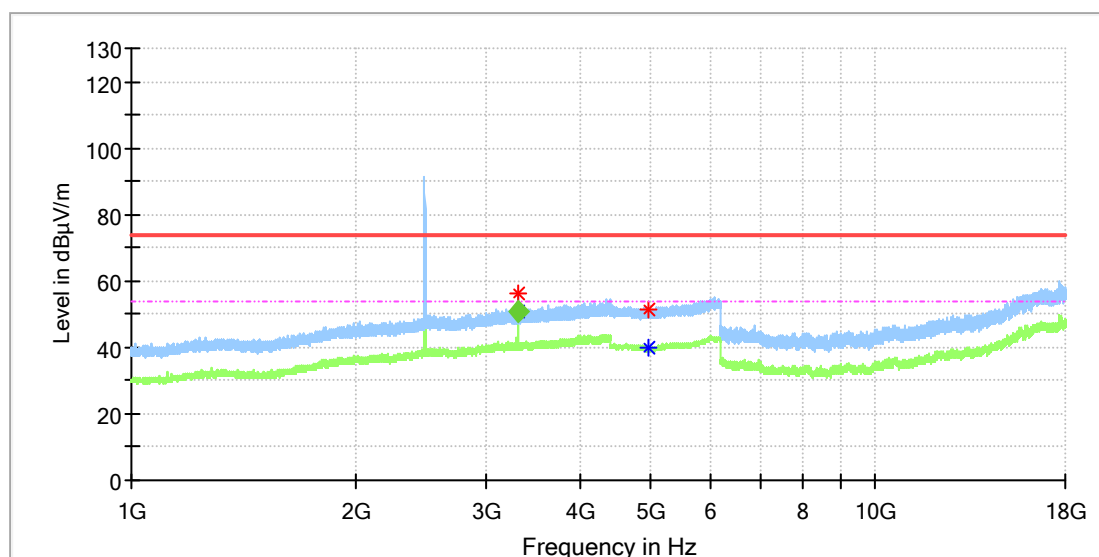
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1195.287500	---	35.71	54.00	18.29	100.0	V	241.0	1.1
1198.262500	44.91	---	74.00	29.09	100.0	V	261.0	1.1
1652.800000	43.91	---	74.00	30.09	100.0	V	221.0	2.6
1653.012500	---	37.24	54.00	16.76	100.0	V	221.0	2.6
3306.626250	57.48	---	74.00	16.52	100.0	V	221.0	8.6
4959.000000	51.10	---	74.00	22.90	100.0	V	29.0	13.2
4960.000000	---	41.16	54.00	12.84	100.0	V	1.0	13.2

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3306.590000	---	50.36	54.00	3.64	100.0	V	210.0	8.6

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model: LA02301
Test Mode: BLE_High channel
Test Voltage:: DC 5V
Remark: Temp 24 Humi:47%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

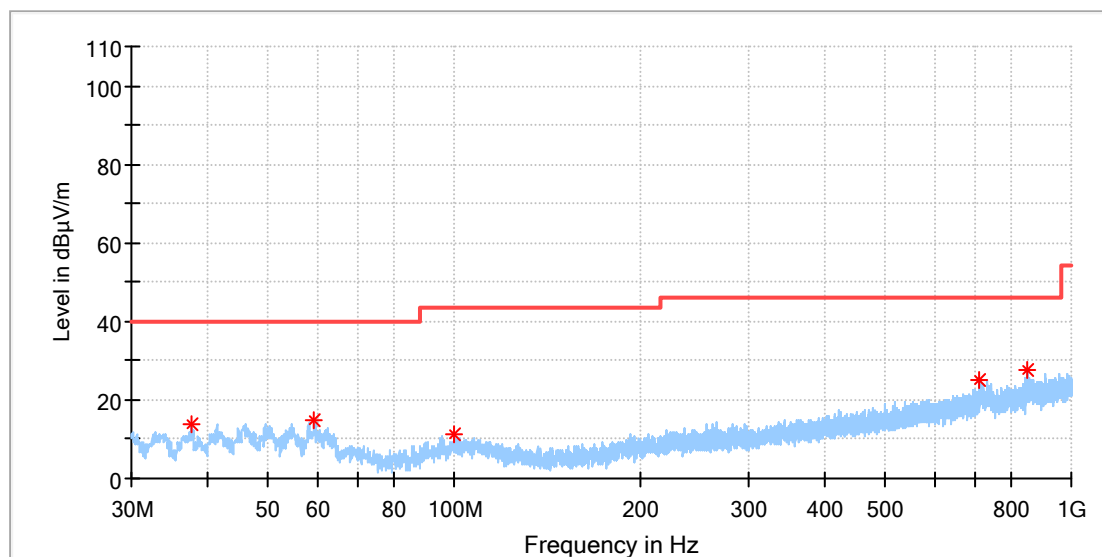


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3306.793125	56.09	---	74.00	17.91	100.0	H	60.0	8.6
4959.000000	51.20	---	74.00	22.80	100.0	H	50.0	13.2
4959.500000	---	39.92	54.00	14.08	100.0	H	180.0	13.2

Wi-Fi 802.11 n(HT20) mode, MCS0
30MHz - 1GHz
EUT Information

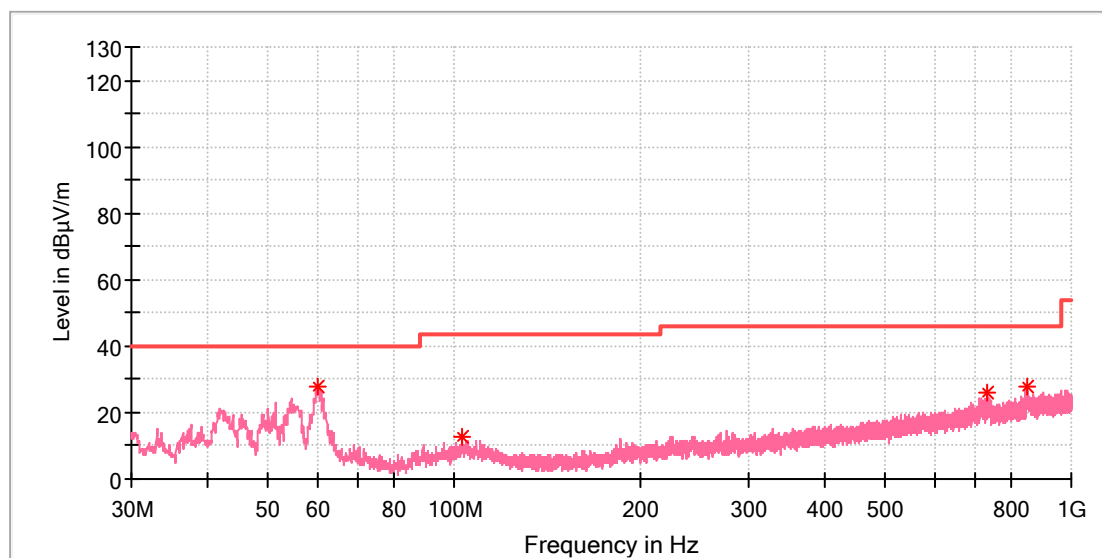
EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n 20M_High CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.517500	13.60	---	40.00	26.40	100.0	H	345.0	-21.2
59.391000	14.67	---	40.00	25.33	100.0	H	148.0	-19.2
100.325000	11.34	---	43.50	32.16	100.0	H	301.0	-19.3
709.873000	25.20	---	46.00	20.80	100.0	H	334.0	-8.3
845.770000	27.48	---	46.00	18.52	100.0	H	35.0	-6.0

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n 20M_High CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

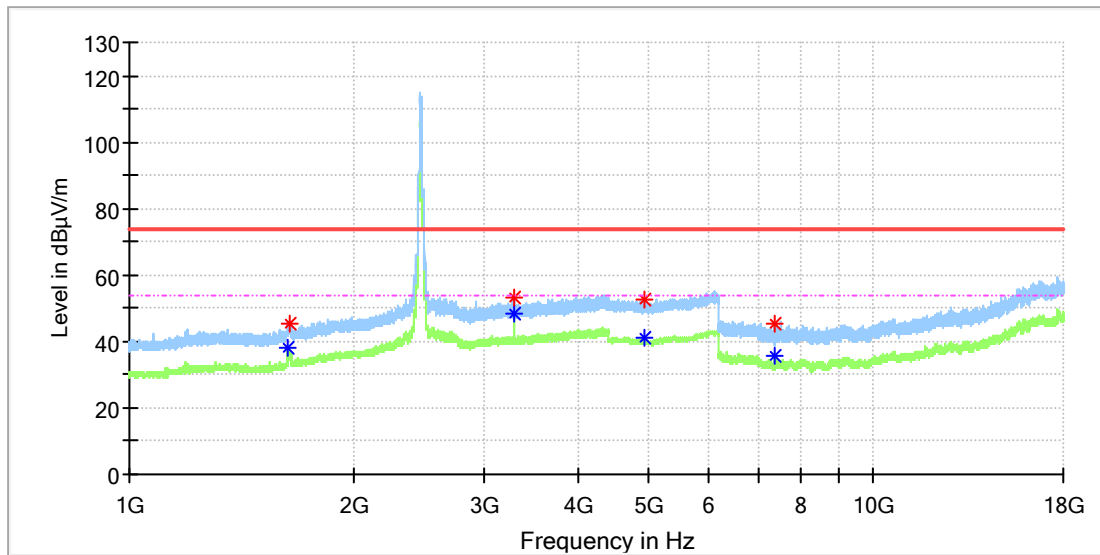


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
60.264000	28.07	---	40.00	11.93	100.0	V	168.0	-19.4
103.089500	12.67	---	43.50	30.83	100.0	V	318.0	-19.2
728.400000	25.73	---	46.00	20.27	100.0	V	186.0	-7.9
845.818500	27.77	---	46.00	18.23	100.0	V	25.0	-6.0

1GHz - 18GHz**EUT Information**

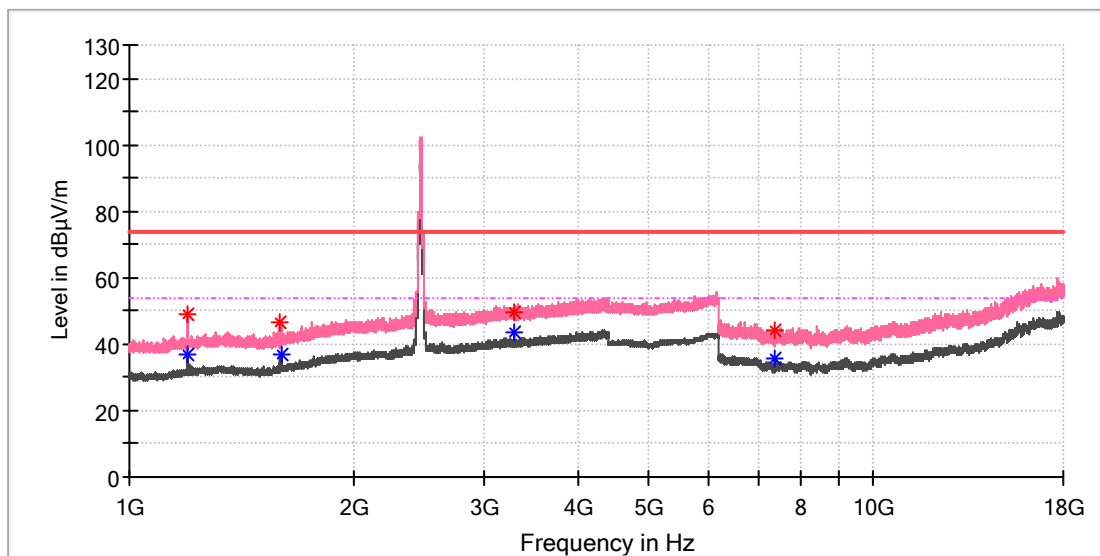
EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1635.375000	---	37.80	54.00	16.20	100.0	H	211.0	2.5
1640.262500	45.56	---	74.00	28.44	100.0	H	251.0	2.5
3282.462500	---	48.11	54.00	5.89	100.0	H	53.0	8.5
3282.887500	53.03	---	74.00	20.97	100.0	H	53.0	8.5
4915.000000	---	41.13	54.00	12.87	100.0	H	149.0	13.3
4917.000000	52.61	---	74.00	21.39	100.0	H	140.0	13.3
7374.100000	---	35.74	54.00	18.26	100.0	H	1.0	8.2
7383.933333	45.56	---	74.00	28.44	100.0	H	19.0	8.2

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

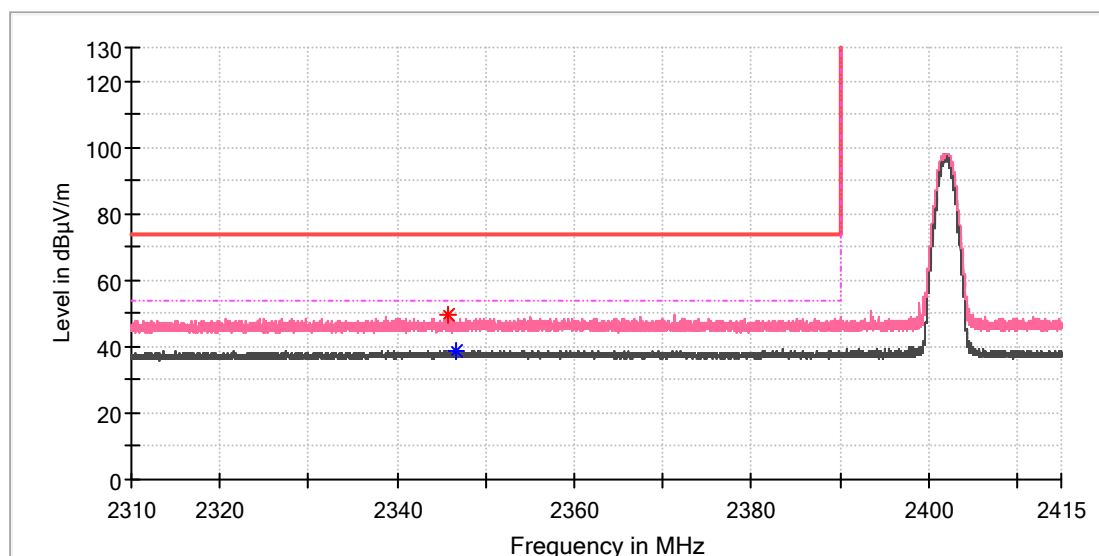
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.350000	49.07	---	74.00	24.93	100.0	V	264.0	1.1
1196.350000	---	36.98	54.00	17.02	100.0	V	264.0	1.1
1593.300000	46.85	---	74.00	27.15	100.0	V	182.0	2.0
1597.762500	---	37.10	54.00	16.90	100.0	V	202.0	2.1
3282.675000	49.85	---	74.00	24.15	100.0	V	222.0	8.5
3282.675000	---	43.74	54.00	10.26	100.0	V	222.0	8.5
7381.475000	44.39	---	74.00	29.61	100.0	V	104.0	8.2
7387.375000	---	35.59	54.00	18.41	100.0	V	192.0	8.2

Appendix B.4: Test Results of Radiated Emissions in Restricted Bands, configuration 1

Bluetooth Low Energy Low channel

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model: LA02301
Test Mode: BLE_Low channel
Test Voltage:: DC 5V
Remark: Temp 24 Humi:47%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

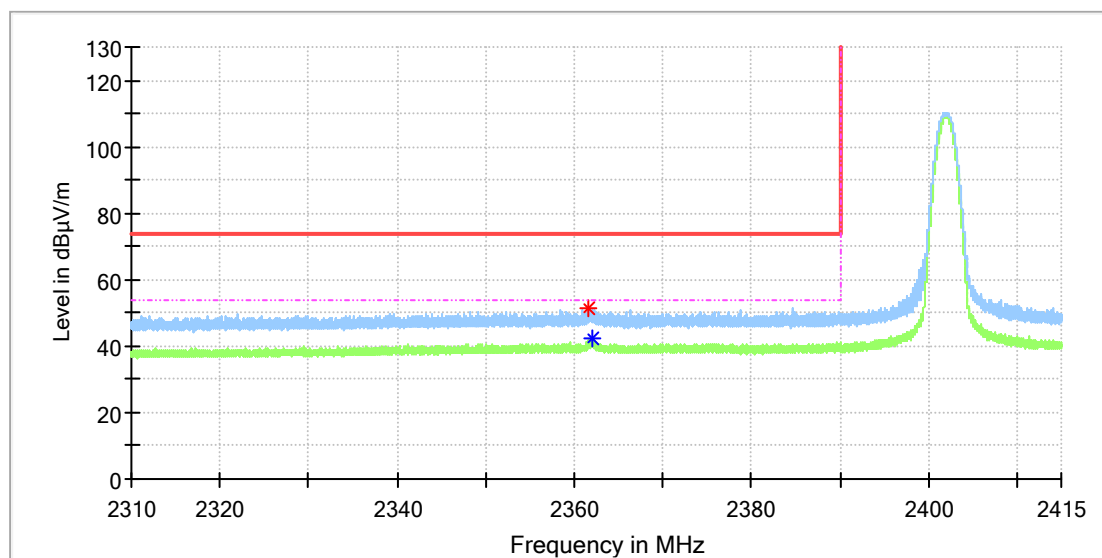


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2345.680313	49.35	---	74.00	24.65	100.0	V	347.0	6.9
2346.645000	---	38.81	54.00	15.19	100.0	V	335.0	6.9

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_Low channel
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



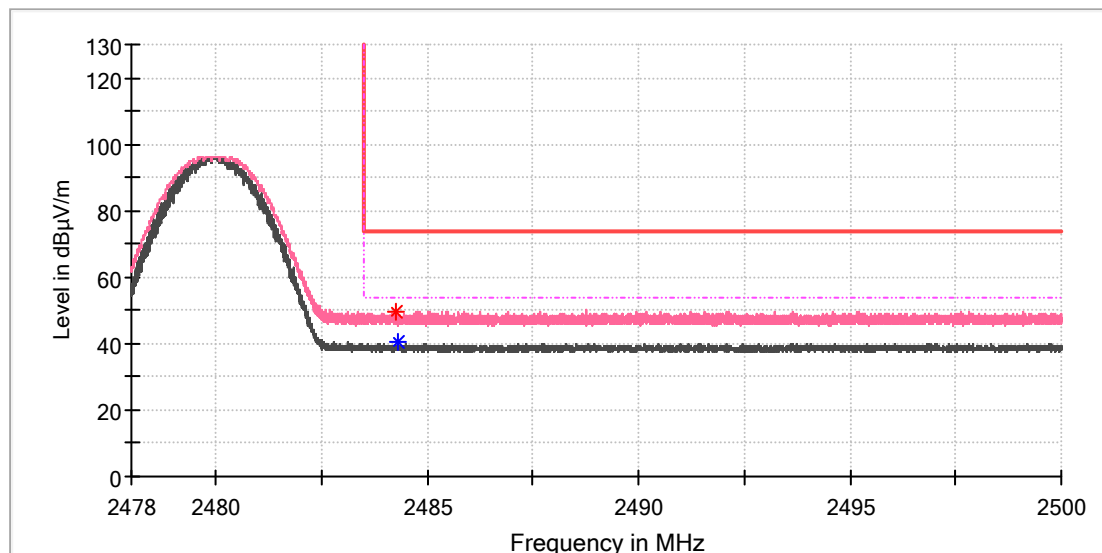
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2361.620625	51.18	---	74.00	22.82	100.0	H	123.0	6.9
2362.112813	---	42.38	54.00	11.62	100.0	H	0.0	6.9

High channel

EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_High channel
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

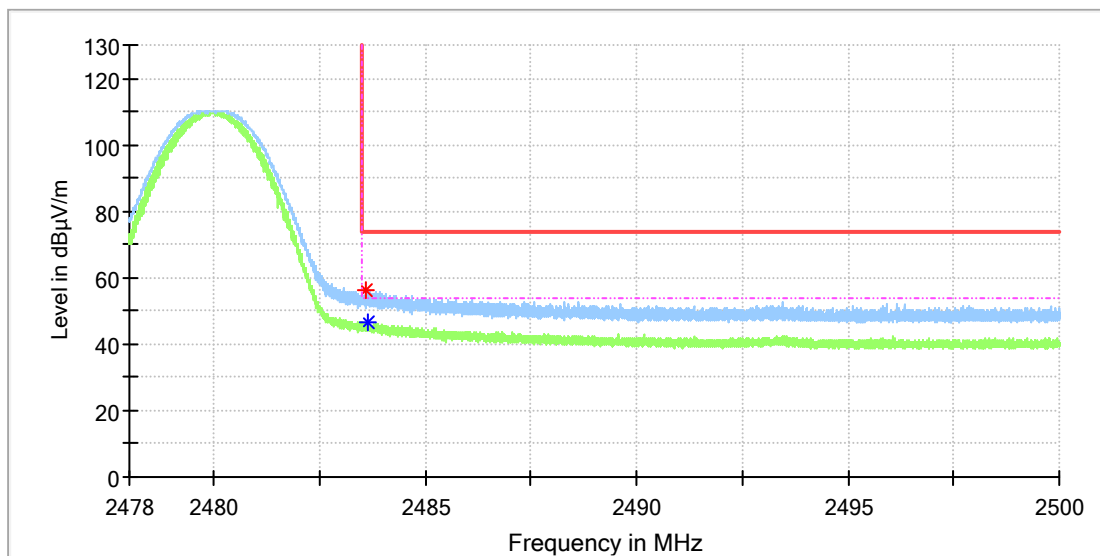


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.274125	49.54	---	74.00	24.46	100.0	V	127.0	7.4
2484.285125	---	40.35	54.00	13.65	100.0	V	351.0	7.4

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_High channel
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

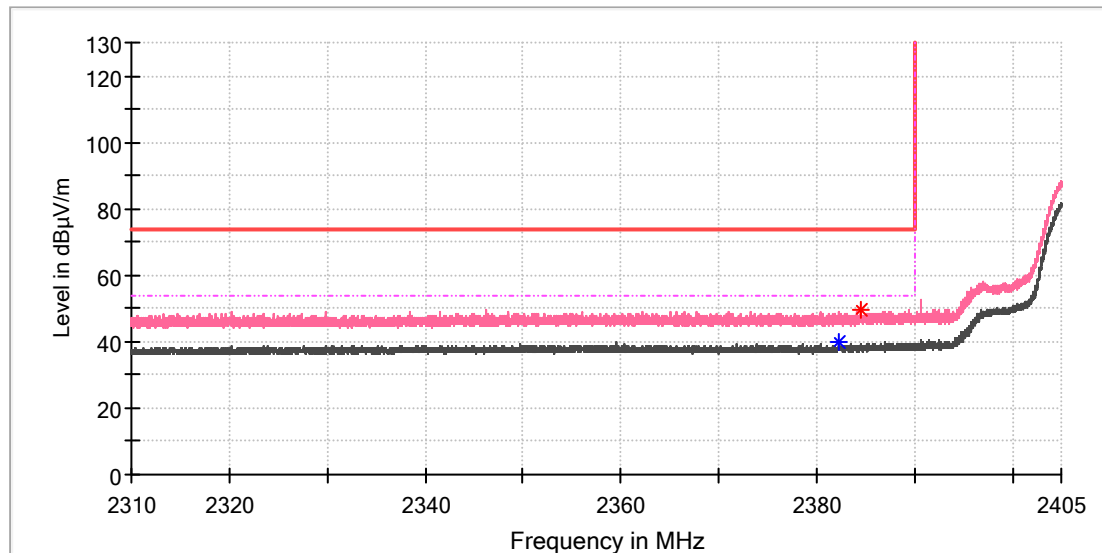


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.583875	56.10	---	74.00	17.90	100.0	H	355.0	7.4
2483.663625	---	46.29	54.00	7.71	100.0	H	0.0	7.4

Wi-Fi 802.11 b mode, 1 Mbps
Low channel**EUT Information**

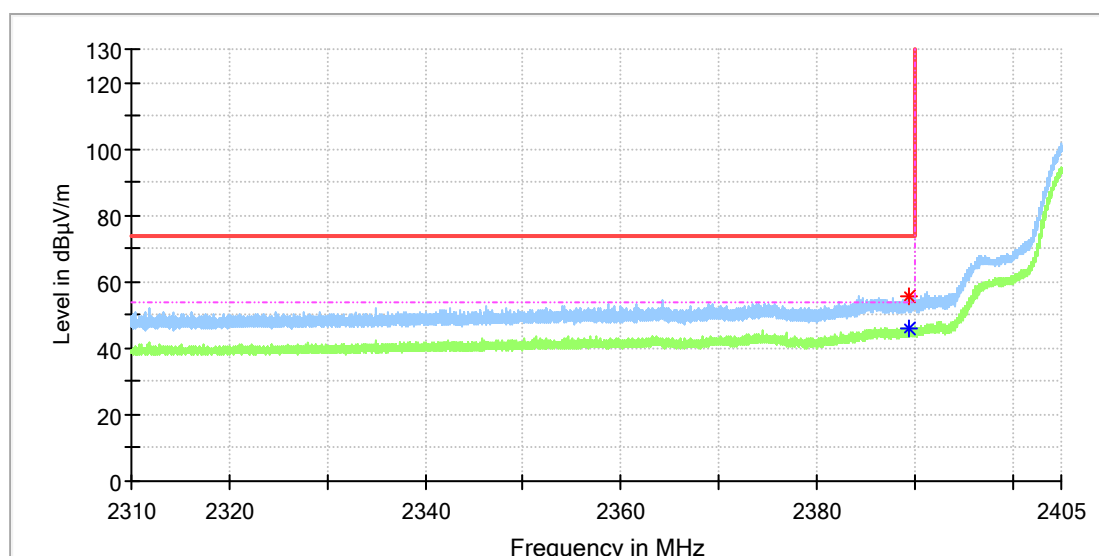
EUT Name: LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model: LA02301
Test Mode: WiFi 2.4G_11b_Low CH
Test Voltage:: DC 5V
Remark: Temp 24 Humi:47%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2382.217813	---	39.64	54.00	14.36	100.0	V	355.0	7.0
2384.616563	49.48	---	74.00	24.52	100.0	V	359.0	7.0

EUT Information

EUT Name: LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WiFi 2.4G_11b_Low CH
 Test Voltage:: DC 5V
 Remark: Temp 24 Humi:47%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



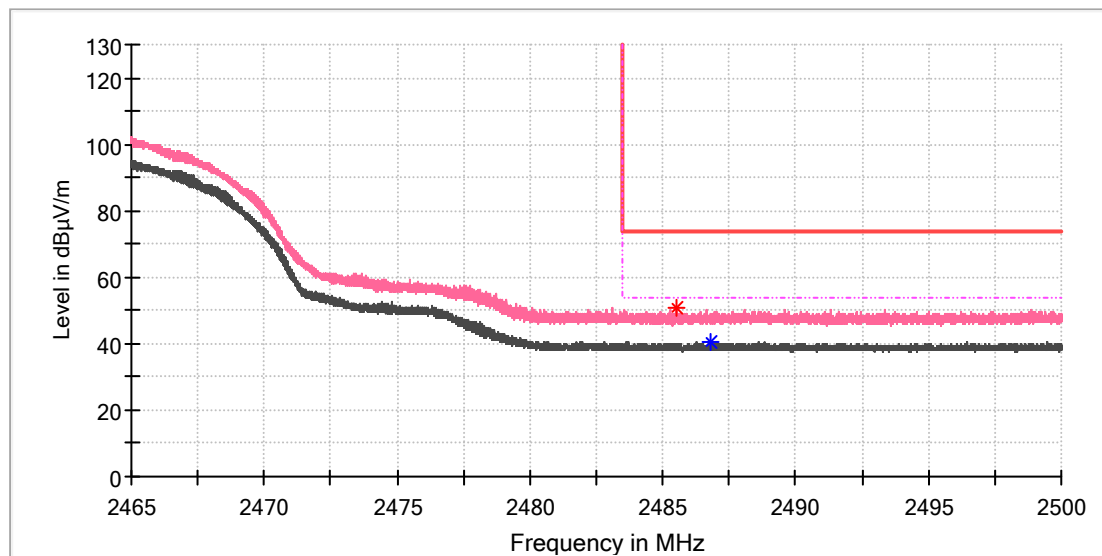
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.378438	---	46.00	54.00	8.00	100.0	H	112.0	7.0
2389.408125	55.66	---	74.00	18.34	100.0	H	99.0	7.0

High channel

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11b_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

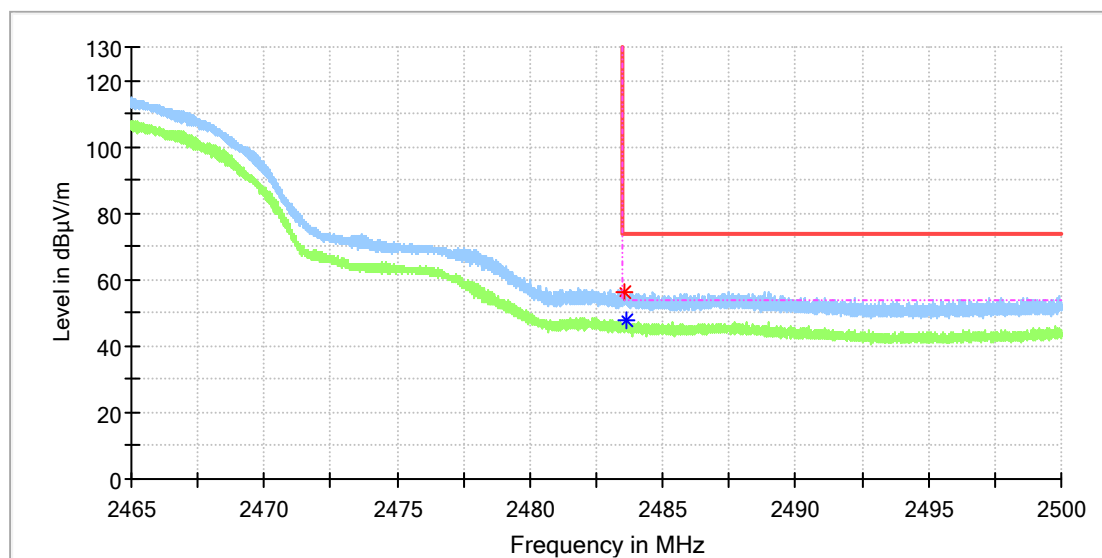


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.536250	50.91	---	74.00	23.09	100.0	V	27.0	7.4
2486.824688	---	40.56	54.00	13.44	100.0	V	348.0	7.4

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11b_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

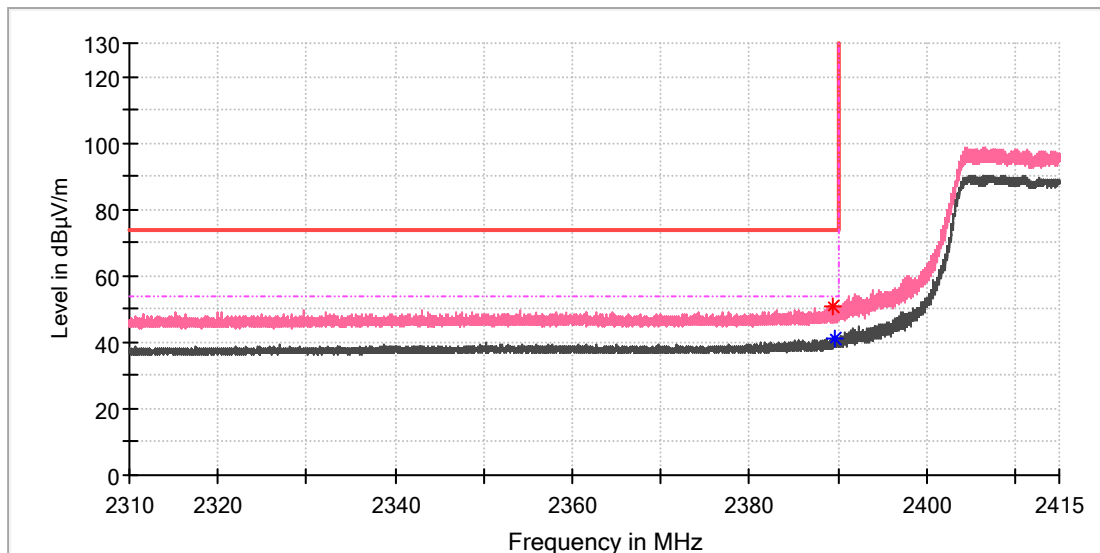


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.565313	56.17	---	74.00	17.83	100.0	H	85.0	7.4
2483.598125	---	47.62	54.00	6.38	100.0	H	99.0	7.4

Wi-Fi 802.11 g mode, 6 Mbps
Low channel**EUT Information**

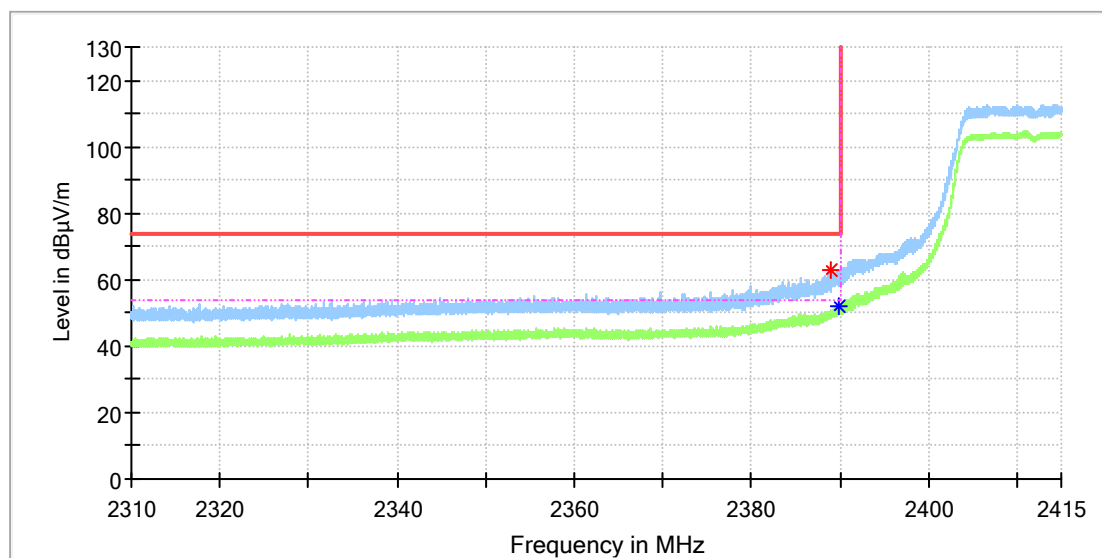
EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11g_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.347188	50.85	---	74.00	23.15	100.0	V	274.0	7.0
2389.721250	---	41.30	54.00	12.70	100.0	V	261.0	7.0

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11g_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



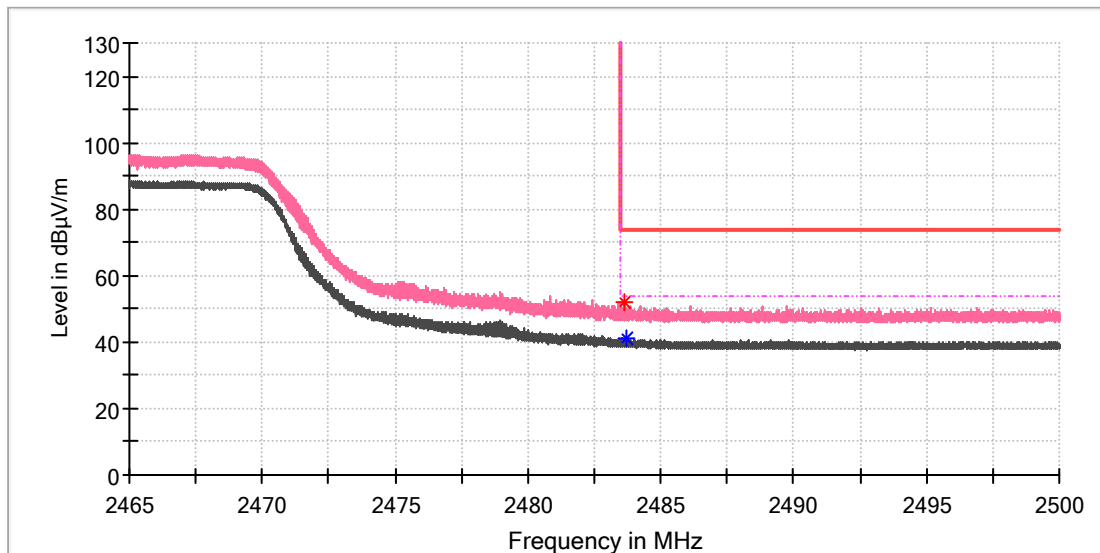
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.005938	62.65	---	74.00	11.35	100.0	H	3.0	7.0
2389.950938	---	51.88	54.00	2.12	100.0	H	0.0	7.0

High channel

EUT Information

EUT Name: LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model: LA02301
Test Mode: WiFi 2.4G_11g_High CH
Test Voltage:: DC 5V
Remark: Temp 24 Humi:47%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

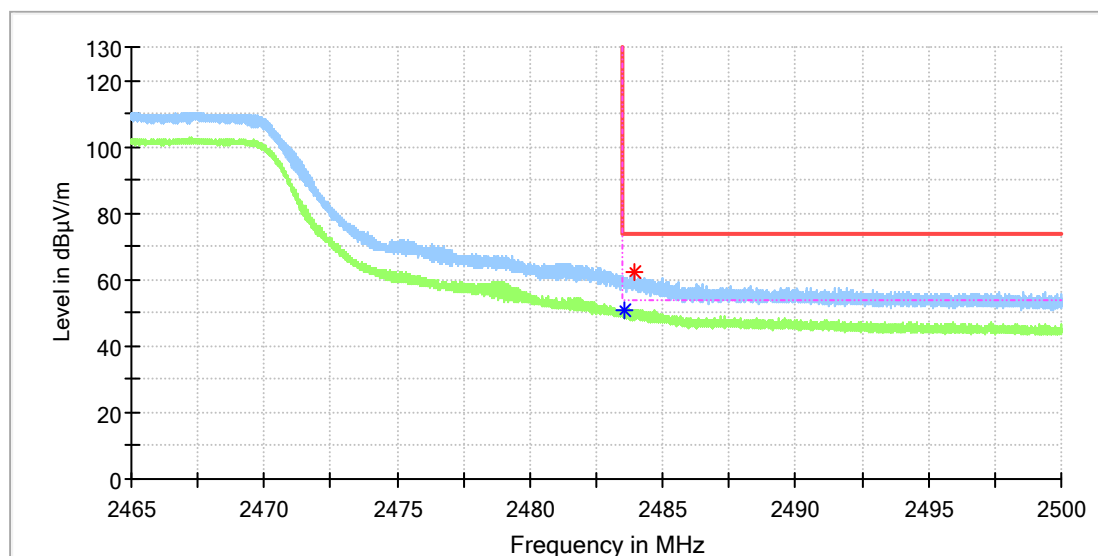


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.646250	51.93	---	74.00	22.07	100.0	V	260.0	7.4
2483.711875	---	41.08	54.00	12.92	100.0	V	260.0	7.4

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WiFi 2.4G_11g_High CH
 Test Voltage:: DC 5V
 Remark: Temp 24 Humi:47%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

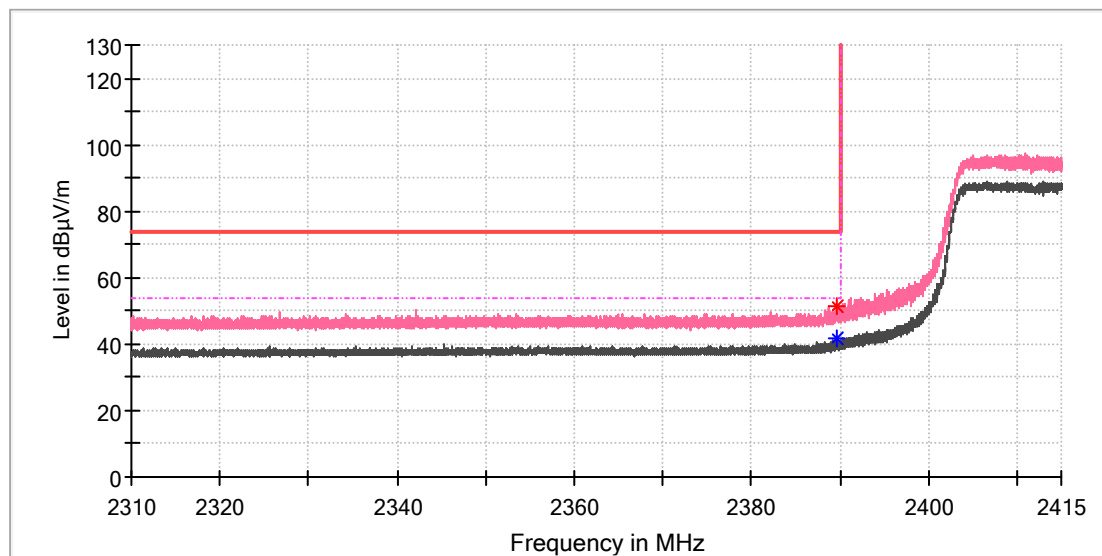


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.576250	---	51.00	54.00	3.00	100.0	H	15.0	7.4
2483.963438	62.00	---	74.00	12.00	100.0	H	15.0	7.4

Wi-Fi 802.11 n(HT20) mode, MCS0
Low channel
EUT Information

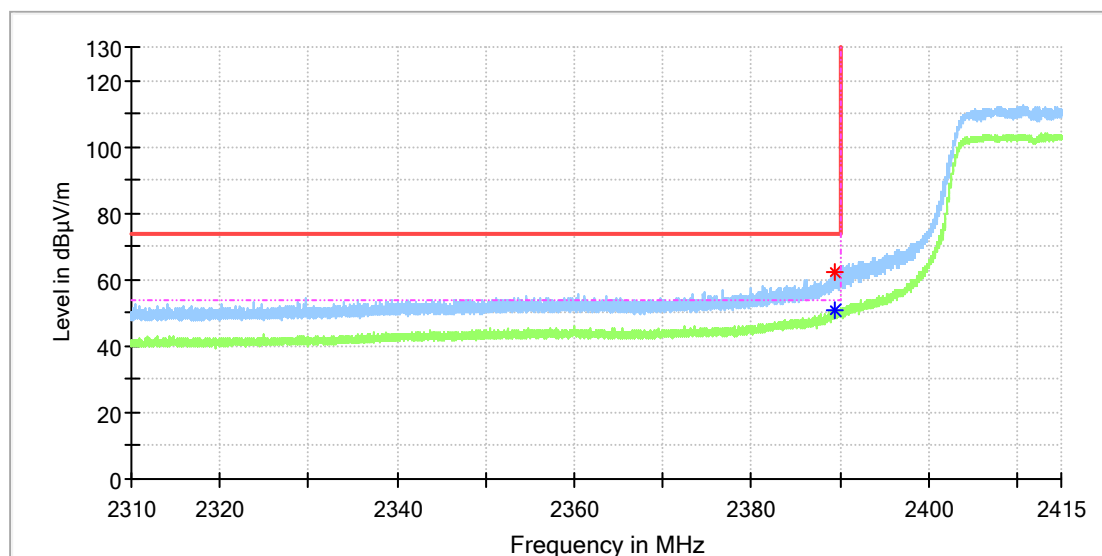
EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.727813	51.51	---	74.00	22.49	100.0	V	87.0	7.0
2389.727813	---	42.01	54.00	11.99	100.0	V	87.0	7.0

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

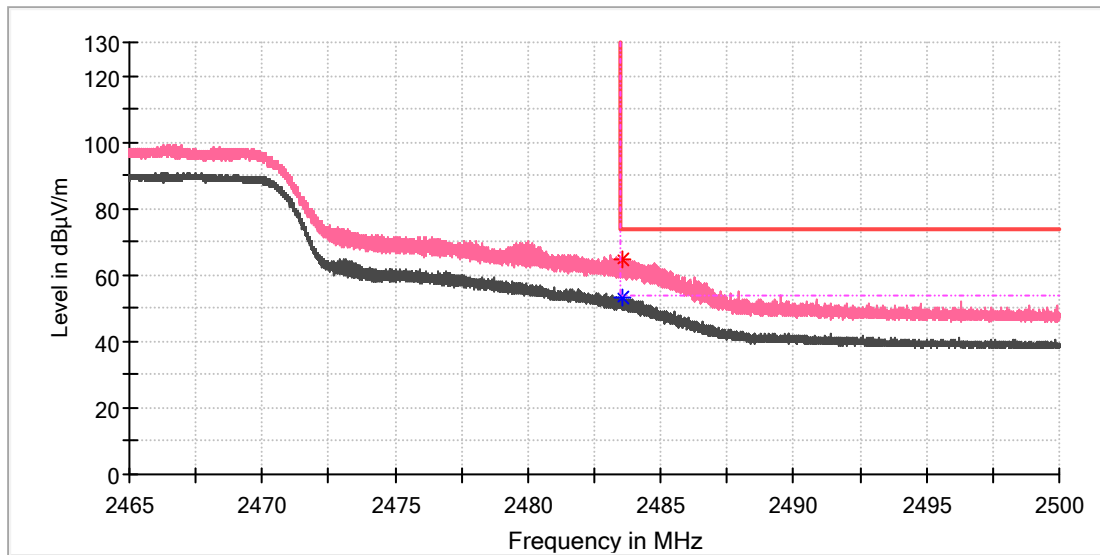


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.386563	62.10	---	74.00	11.90	100.0	H	17.0	7.0
2389.425938	---	50.81	54.00	3.19	100.0	H	0.0	7.0

High channel**EUT Information**

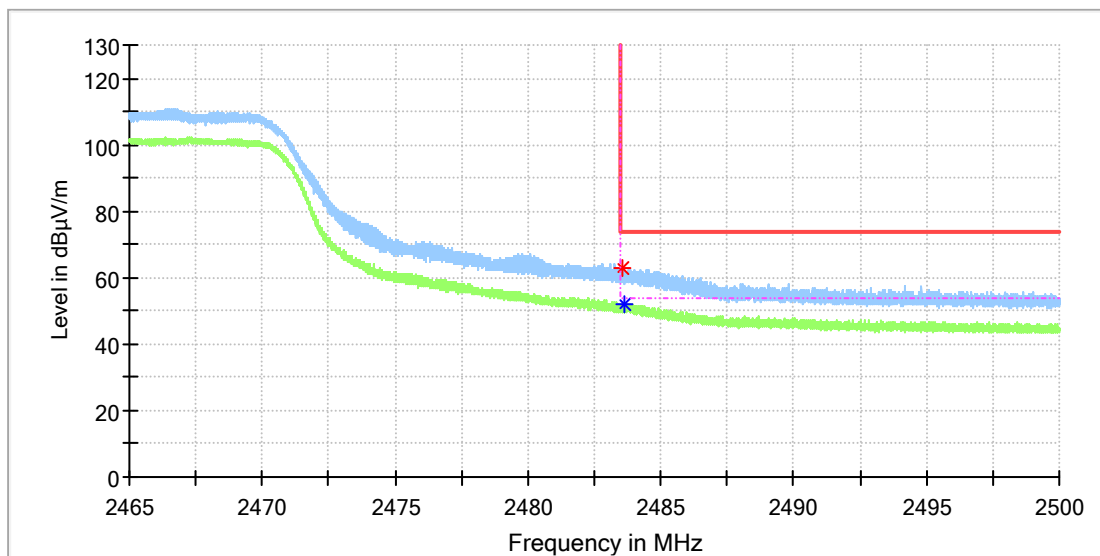
EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.521563	---	52.97	54.00	1.03	100.0	V	76.0	7.4
2483.578438	64.65	---	74.00	9.35	100.0	V	76.0	7.4

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

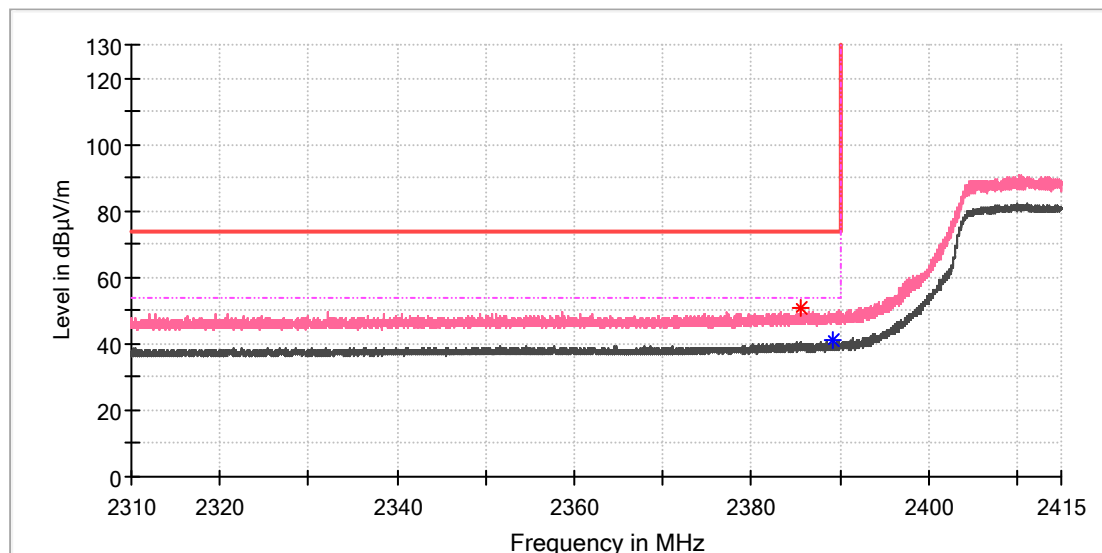


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.547813	63.12	---	74.00	10.88	100.0	H	0.0	7.4
2483.617813	---	52.25	54.00	1.75	100.0	H	14.0	7.4

Wi-Fi 802.11 n(HT40) mode, MCS0
Low channel
EUT Information

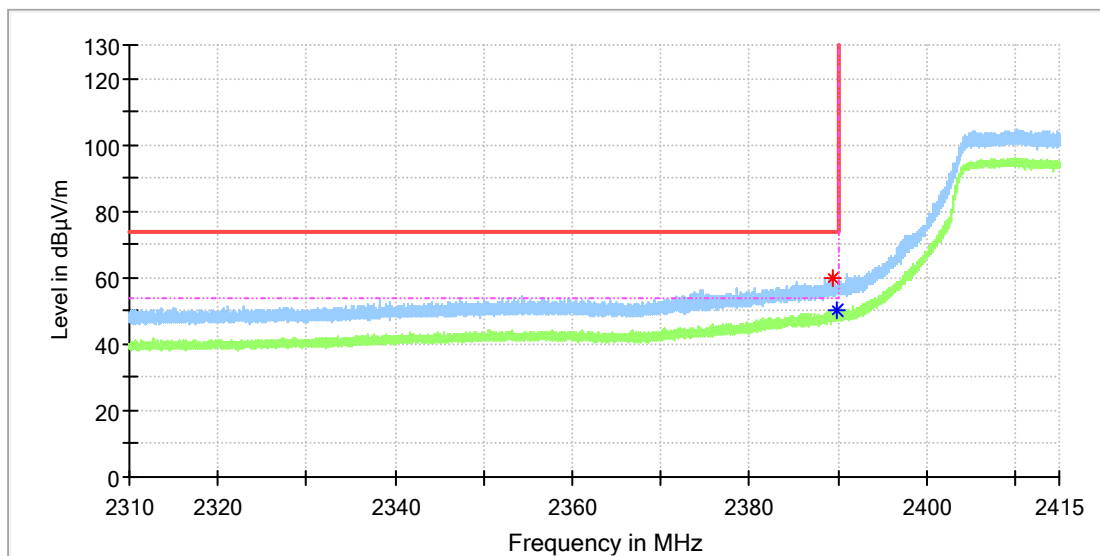
EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n40_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.547500	50.69	---	74.00	23.31	100.0	V	0.0	7.0
2389.124063	---	41.15	54.00	12.85	100.0	V	340.0	7.0

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n40_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



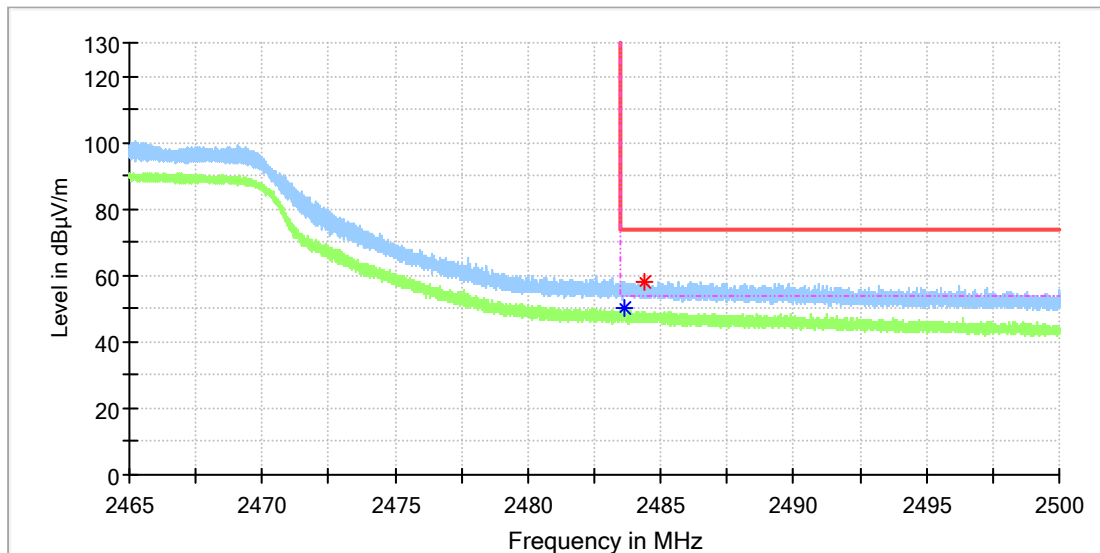
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.425938	59.99	---	74.00	14.01	100.0	H	103.0	7.0
2389.944375	---	49.91	54.00	4.09	100.0	H	103.0	7.0

High channel

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n40_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

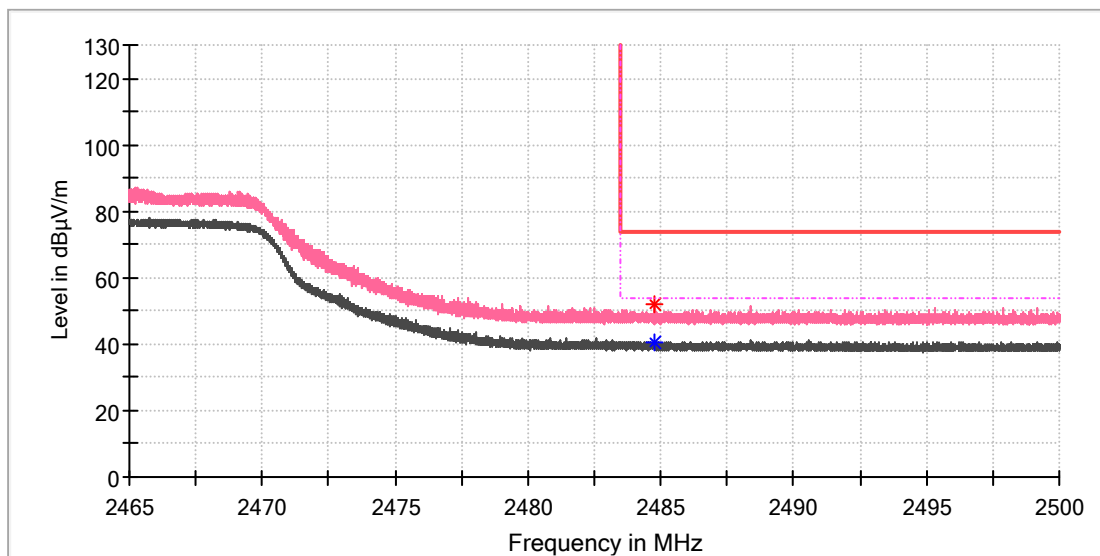


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.613438	---	50.24	54.00	3.76	100.0	H	92.0	7.4
2484.387813	58.18	---	74.00	15.82	100.0	H	92.0	7.4

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n40_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

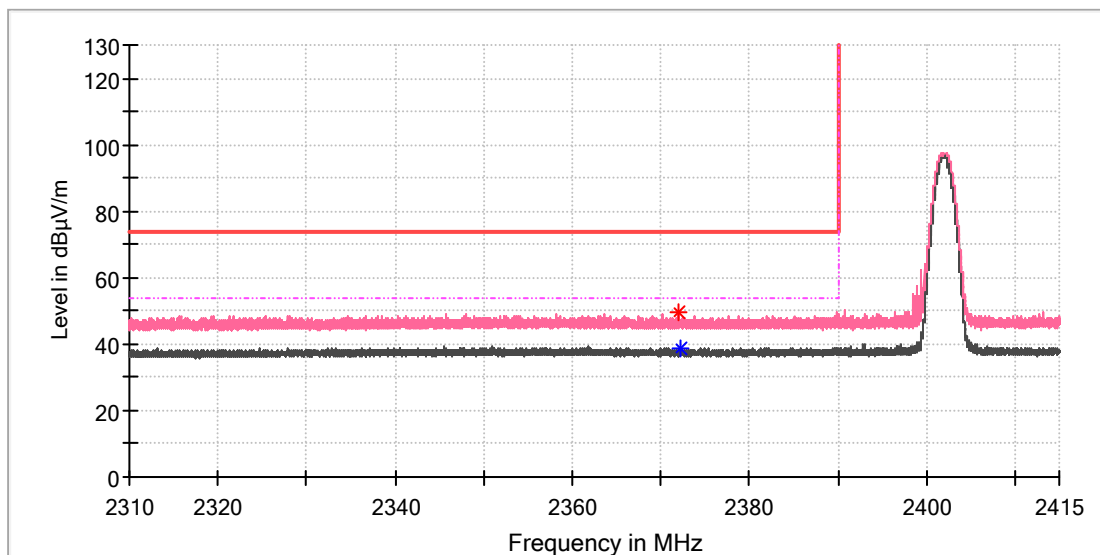
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.733438	51.73	---	74.00	22.27	100.0	V	144.0	7.4
2484.737813	---	40.38	54.00	13.62	100.0	V	59.0	7.4

Appendix B.5: Test Results of Radiated Emissions in Restricted Bands, configuration 2

Bluetooth Low Energy Low channel

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_Low channel
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

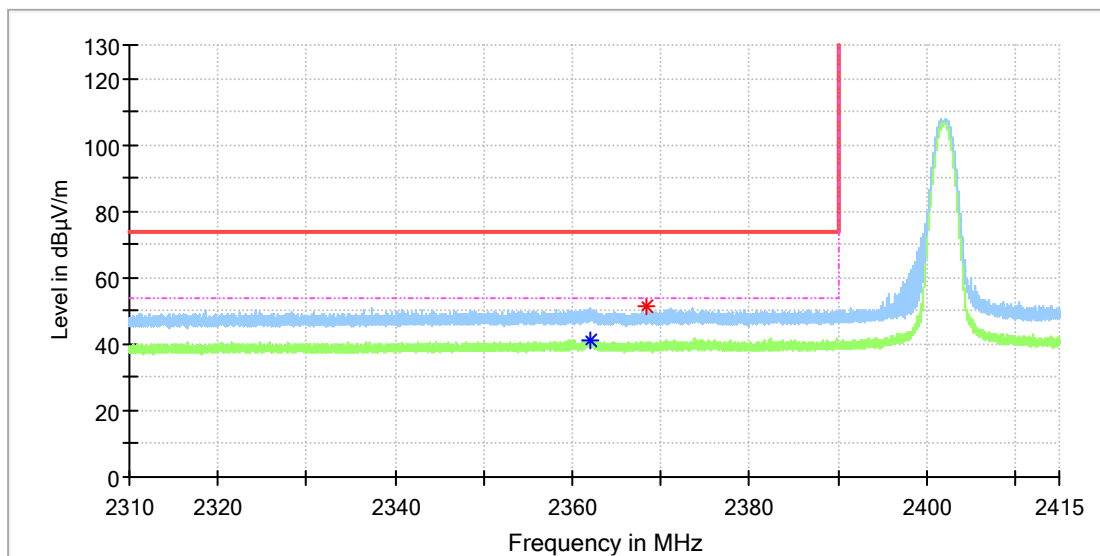


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2372.055000	49.34	---	74.00	24.66	100.0	V	253.0	6.9
2372.225625	---	38.55	54.00	15.45	100.0	V	331.0	6.9

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_Low channel
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



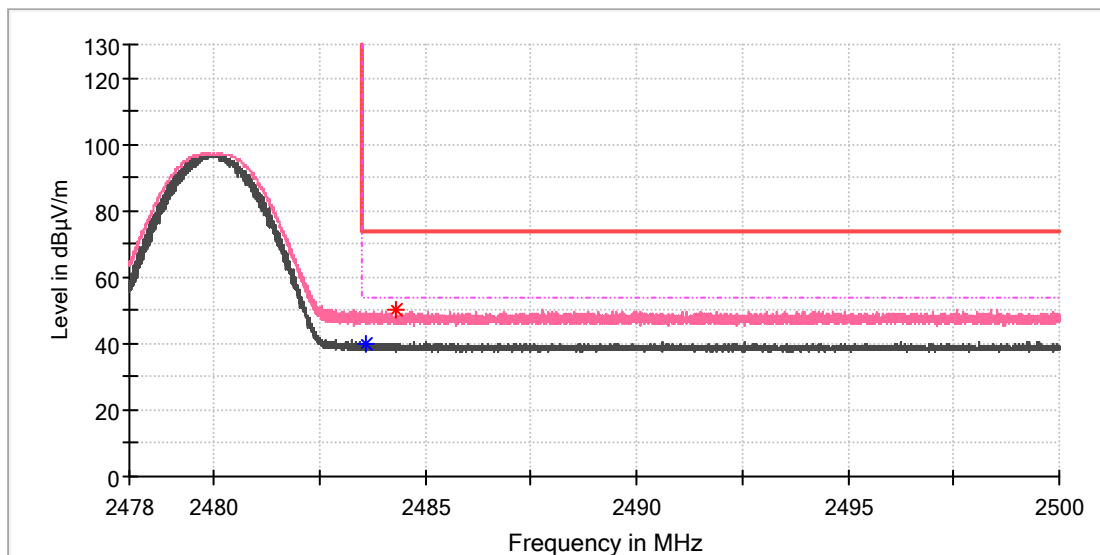
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2362.007813	---	41.18	54.00	12.82	100.0	H	6.0	6.9
2368.425938	51.55	---	74.00	22.45	100.0	H	6.0	6.9

High channel

EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_High channel
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



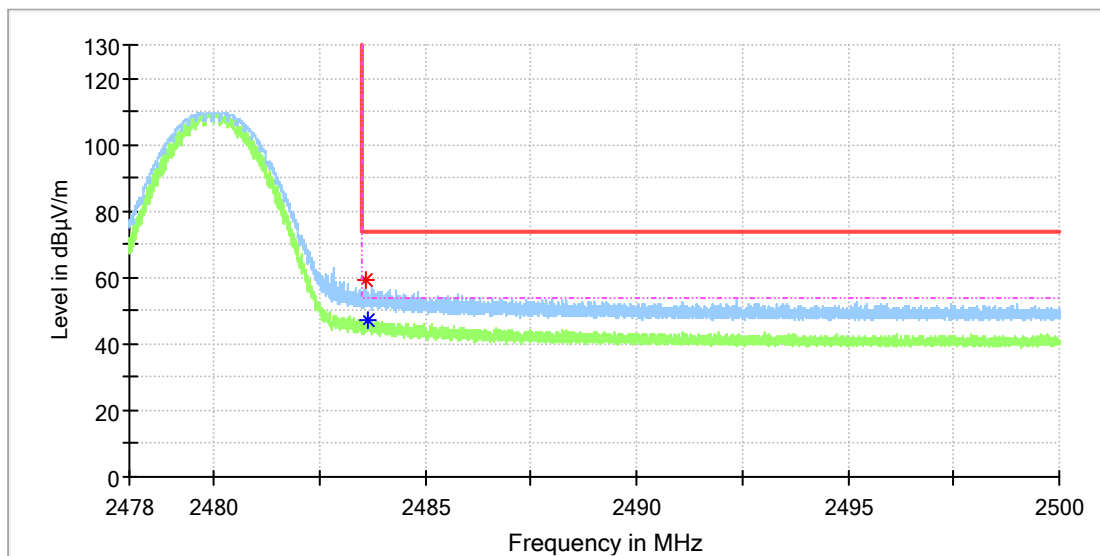
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.586625	---	40.19	54.00	13.81	100.0	V	37.0	7.4
2484.285125	49.99	---	74.00	24.01	100.0	V	219.0	7.4

Produkte
Products

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_High channel
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

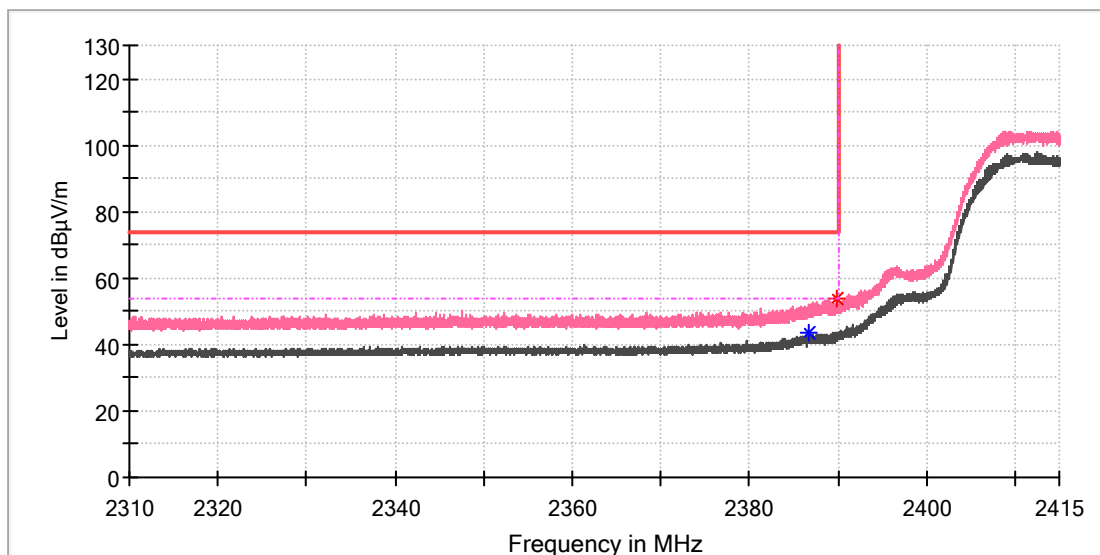


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.572875	59.43	---	74.00	14.57	100.0	H	2.0	7.4
2483.652625	---	47.25	54.00	6.75	100.0	H	11.0	7.4

**Wi-Fi 802.11 b mode, 1 Mbps
Low channel****EUT Information**

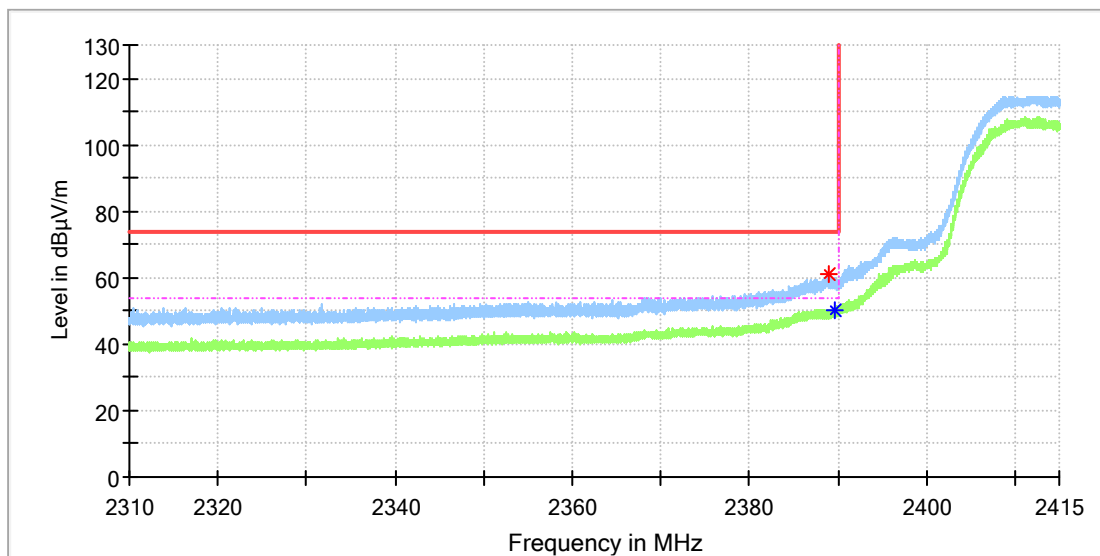
EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11b_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.676250	---	43.34	54.00	10.66	100.0	V	1.0	7.0
2389.878750	53.69	---	74.00	20.31	100.0	V	291.0	7.0

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11b_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



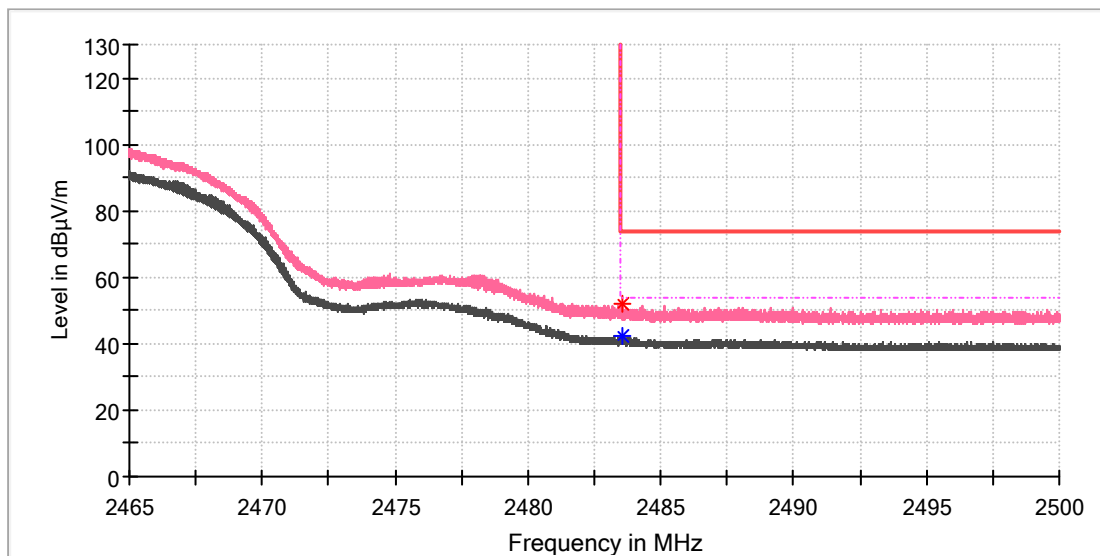
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.973125	61.09	---	74.00	12.91	100.0	H	17.0	7.0
2389.681875	---	50.44	54.00	3.56	100.0	H	74.0	7.0

High channel

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11b_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

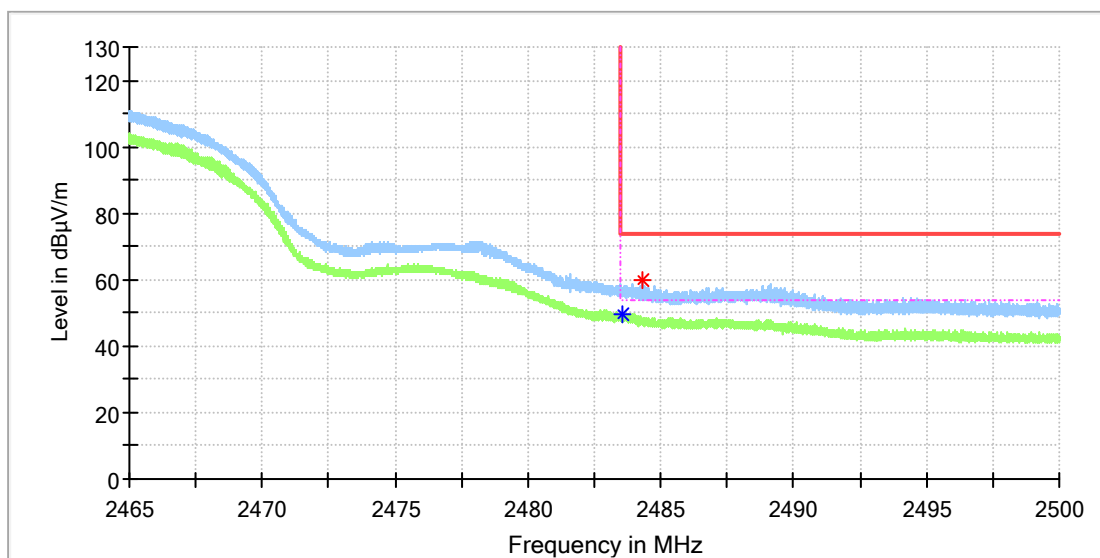


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.534688	---	42.48	54.00	11.52	100.0	V	351.0	7.4
2483.569688	51.95	---	74.00	22.06	100.0	V	358.0	7.4

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11b_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

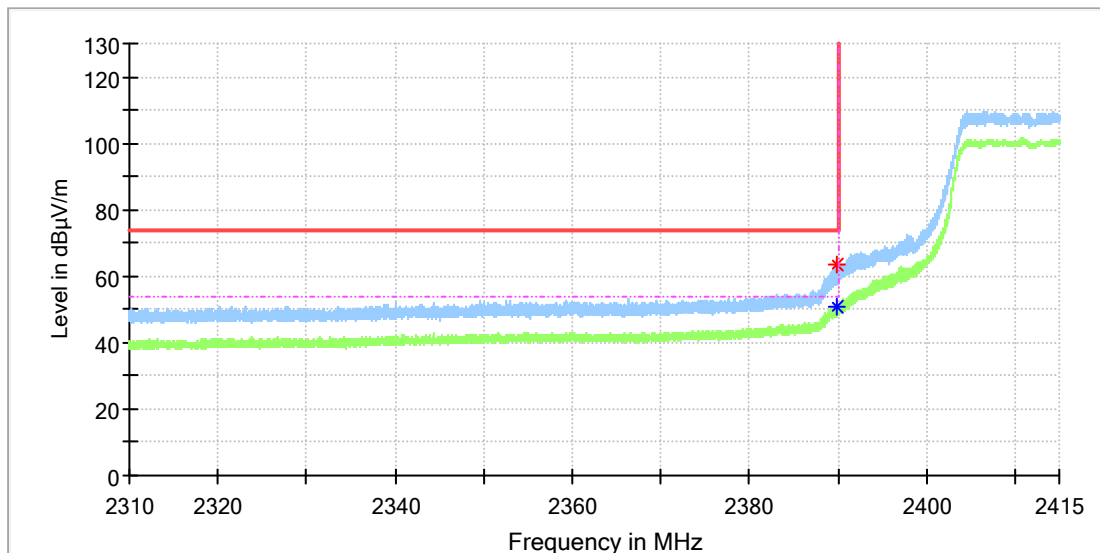


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.534688	---	49.80	54.00	4.20	100.0	H	24.0	7.4
2484.337500	60.06	---	74.00	13.94	100.0	H	11.0	7.4

Wi-Fi 802.11 g mode, 6 Mbps
Low channel
EUT Information

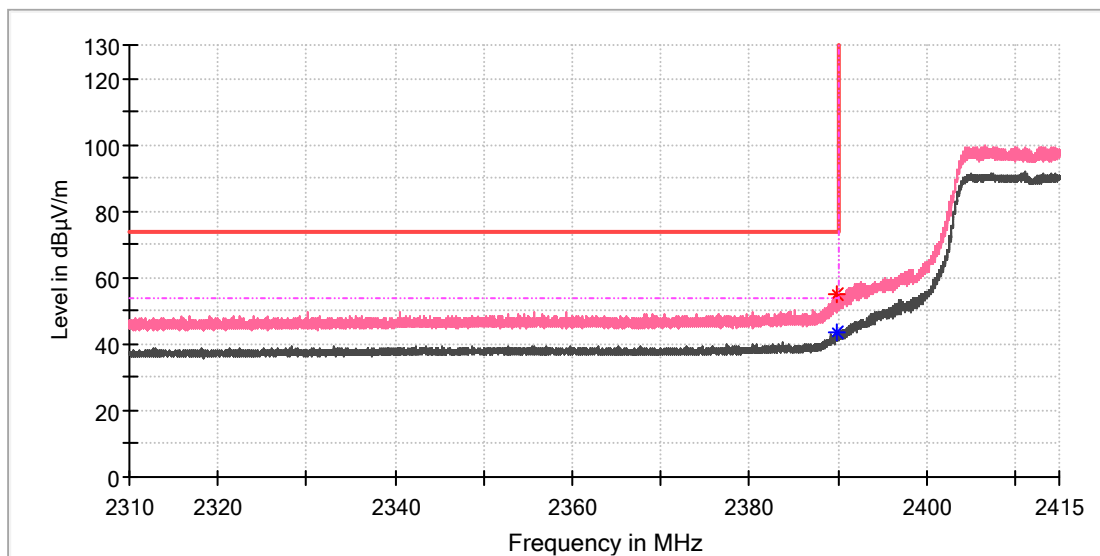
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Model:	LA02301
Test Mode:	WiFi 2.4G_11g_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.905000	63.48	---	74.00	10.52	100.0	H	17.0	7.0
2389.944375	---	50.92	54.00	3.08	100.0	H	311.0	7.0

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11g_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



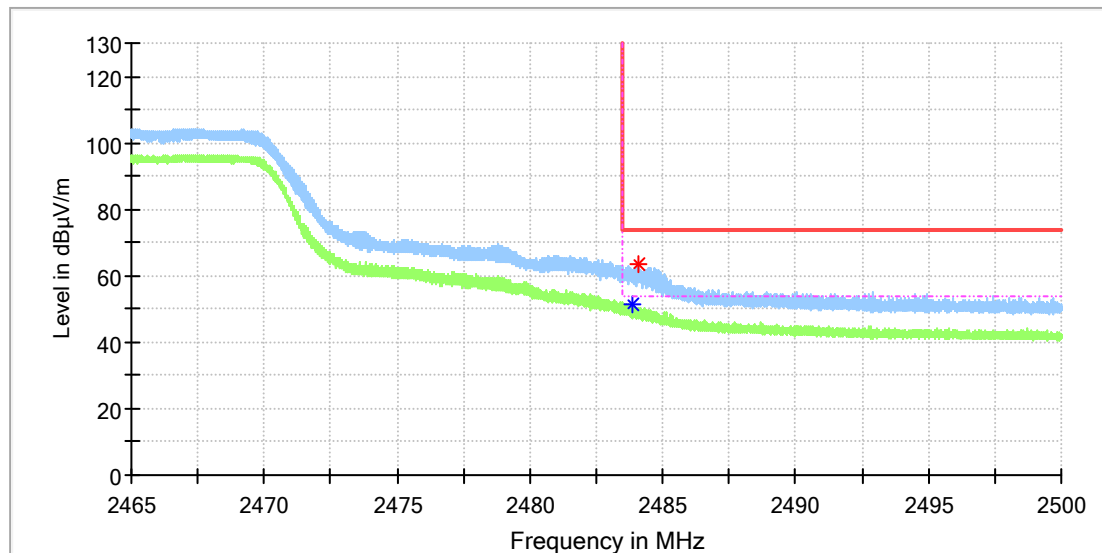
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.872188	55.29	---	74.00	18.71	100.0	V	345.0	7.0
2389.918125	---	43.25	54.00	10.75	100.0	V	345.0	7.0

High channel

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11g_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

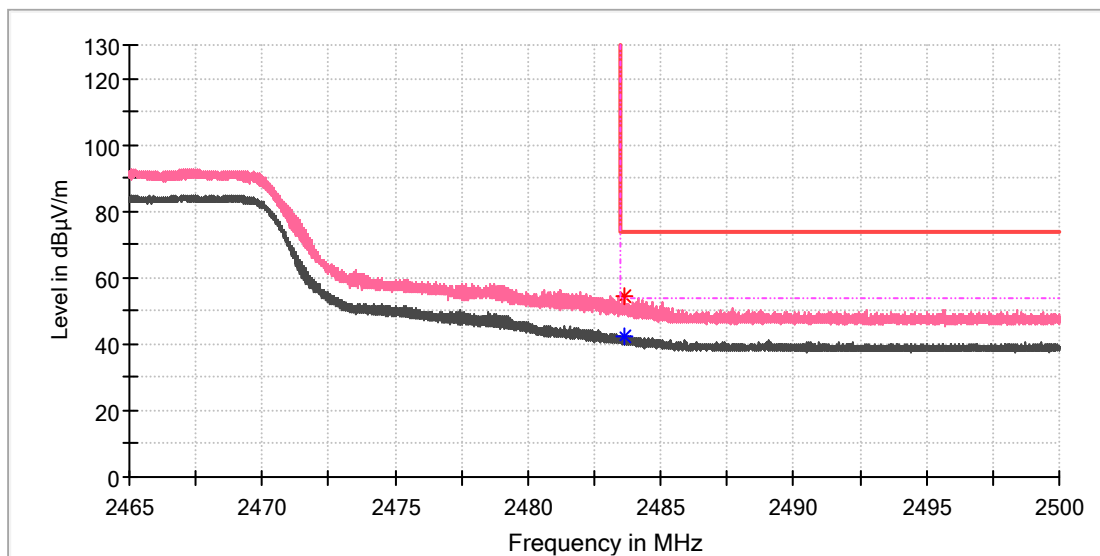


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.891250	---	51.41	54.00	2.59	100.0	H	20.0	7.4
2484.050938	63.41	---	74.00	10.59	100.0	H	20.0	7.4

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11g_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



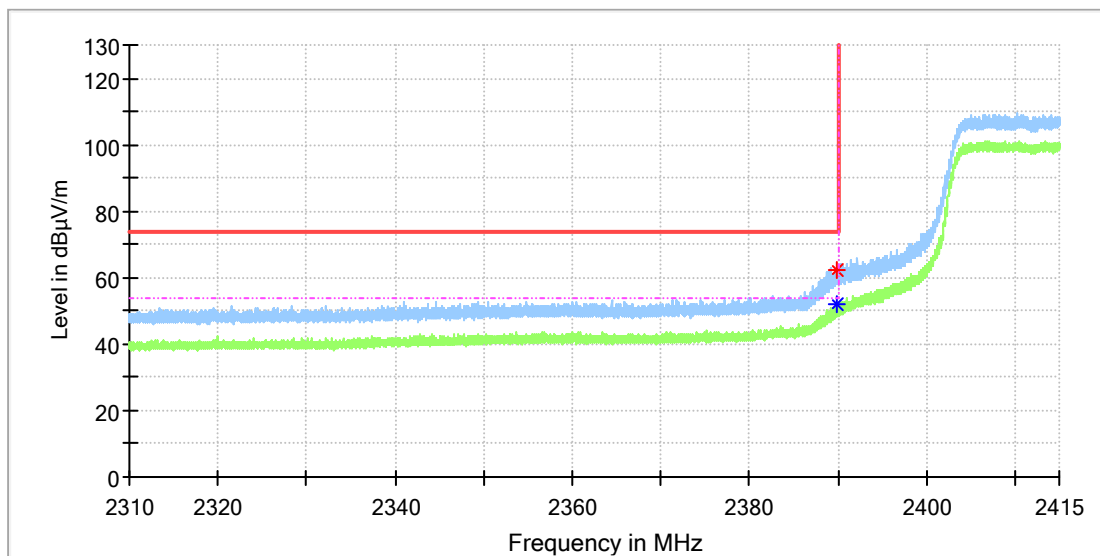
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.611250	---	42.61	54.00	11.39	100.0	V	0.0	7.4
2483.620000	54.16	---	74.00	19.84	100.0	V	114.0	7.4

Wi-Fi 802.11 n(HT20) mode, MCS0
Low channel

EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

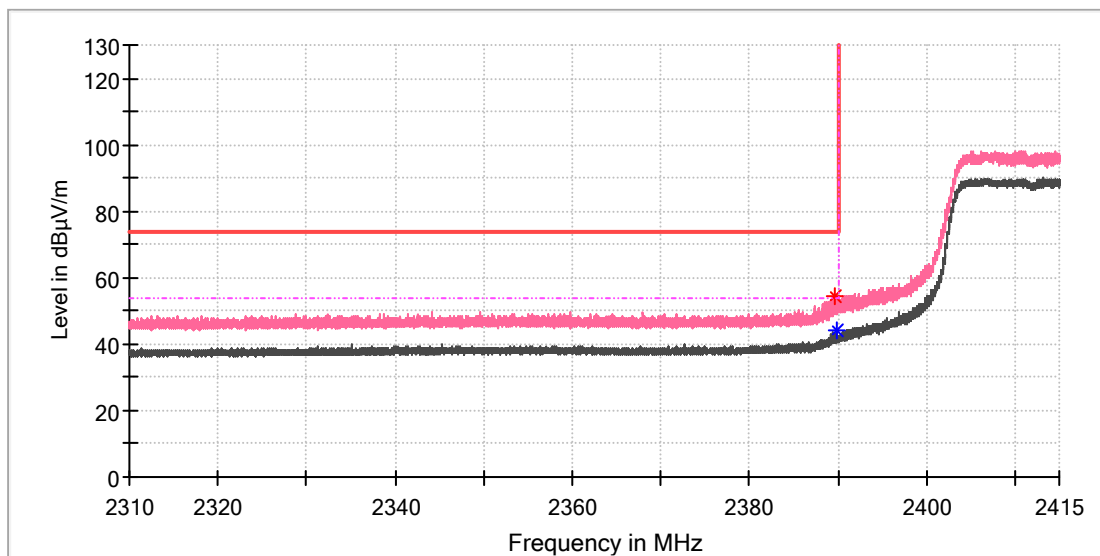


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.813125	62.53	---	74.00	11.47	100.0	H	82.0	7.0
2389.970625	---	51.79	54.00	2.21	100.0	H	82.0	7.0

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



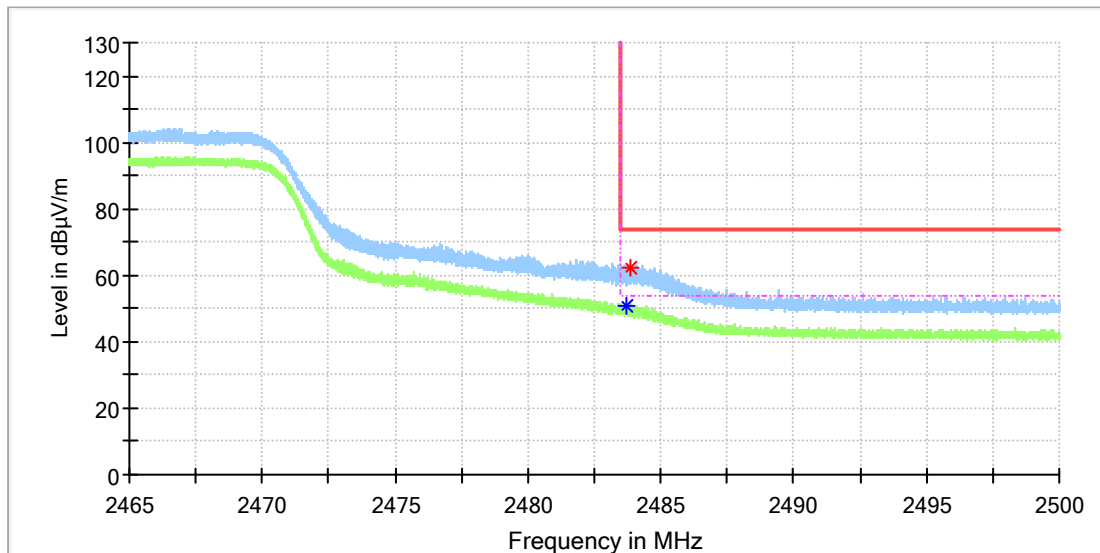
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.727813	54.54	---	74.00	19.46	100.0	V	346.0	7.0
2389.885313	---	43.99	54.00	10.01	100.0	V	346.0	7.0

High channel

EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

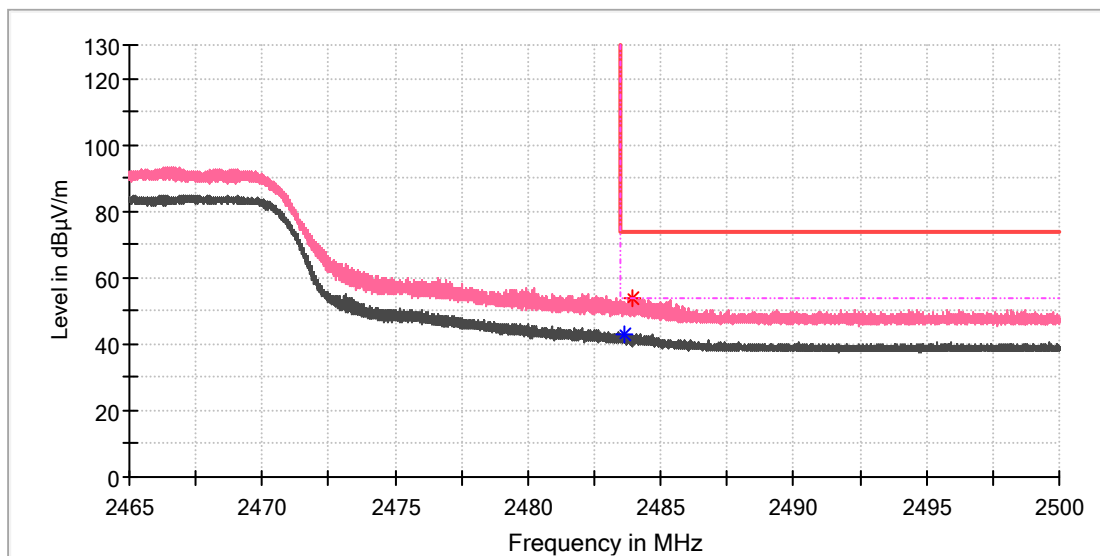


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.729375	---	50.84	54.00	3.16	100.0	H	249.0	7.4
2483.832188	62.55	---	74.00	11.45	100.0	H	6.0	7.4

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



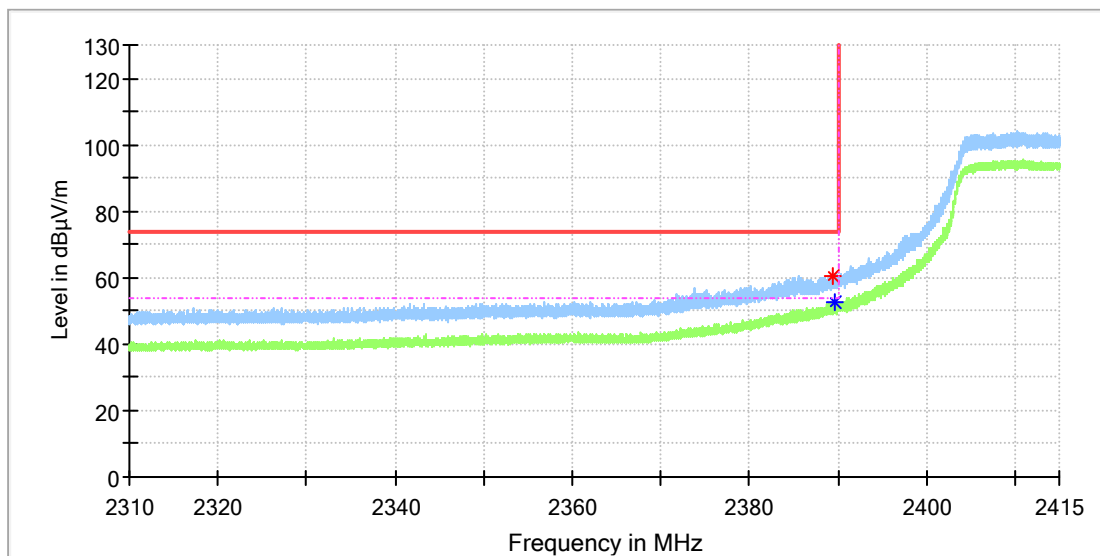
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.602500	---	43.19	54.00	10.81	100.0	V	112.0	7.4
2483.952500	53.92	---	74.00	20.08	100.0	V	112.0	7.4

Wi-Fi 802.11 n(HT40) mode, MCS0
Low channel

EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n40_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

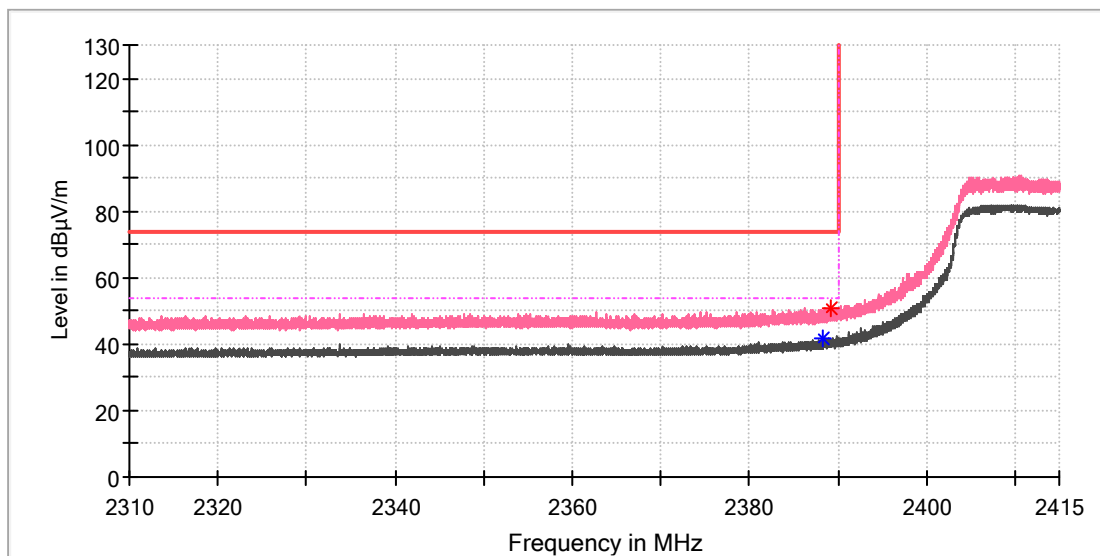


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.452188	60.67	---	74.00	13.33	100.0	H	76.0	7.0
2389.649063	---	52.86	54.00	1.14	100.0	H	76.0	7.0

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n40_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

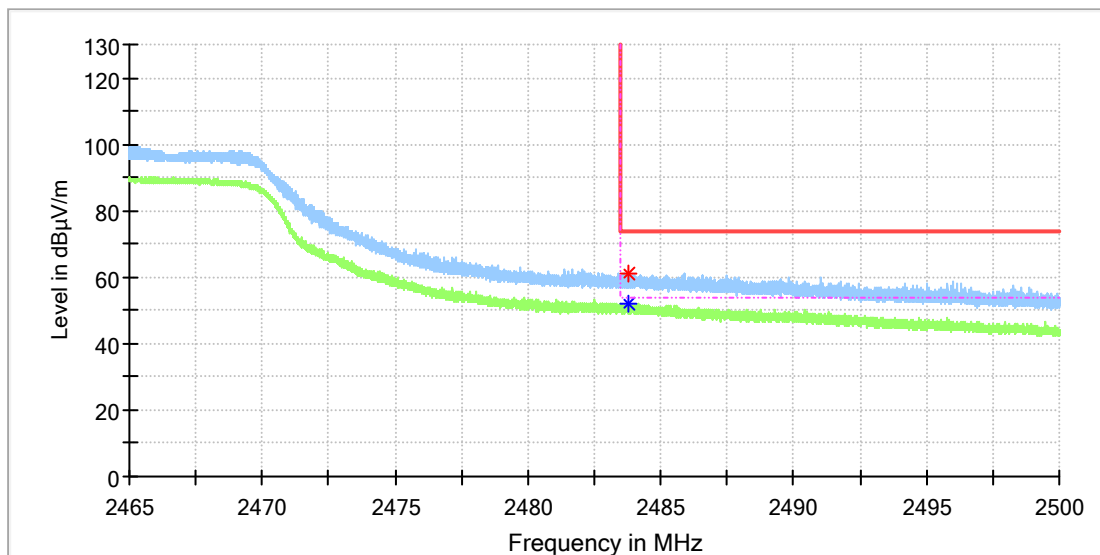


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.225000	---	41.65	54.00	12.35	100.0	V	94.0	7.0
2389.183125	50.81	---	74.00	23.19	100.0	V	355.0	7.0

High channel**EUT Information**

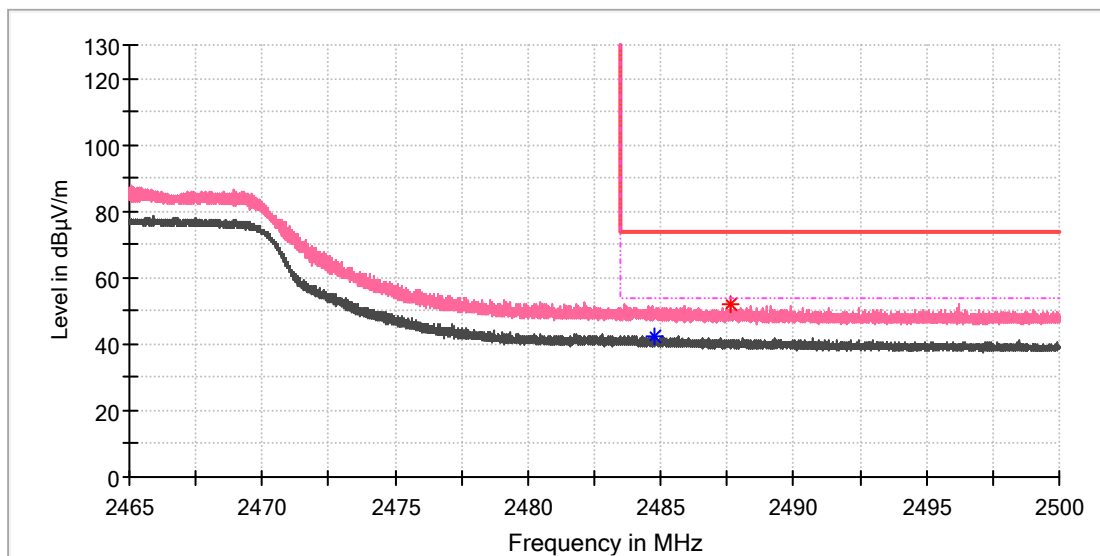
EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n40_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.755625	60.88	---	74.00	13.12	100.0	H	7.0	7.4
2483.773125	---	51.94	54.00	2.06	100.0	H	18.0	7.4

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WiFi 2.4G_11n40_High CH
 Test Voltage:: DC 5V
 Remark: Temp 24 Humi:47%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.726875	---	42.54	54.00	11.46	100.0	V	118.0	7.4
2487.616563	52.25	---	74.00	21.75	100.0	V	118.0	7.4

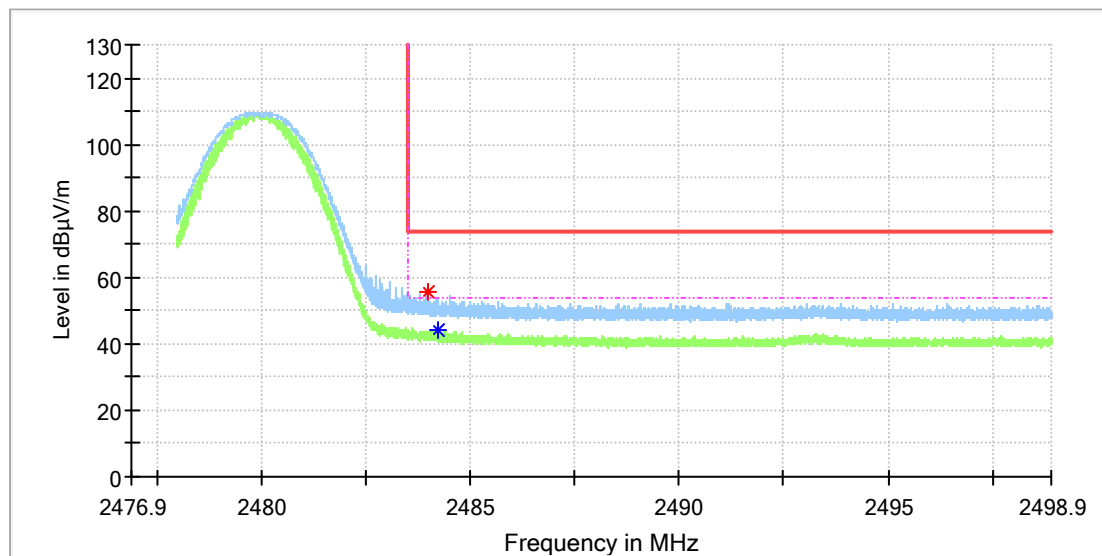
Appendix B.6: Test Results of Radiated Emissions in Restricted Bands, configuration 3

Bluetooth Low Energy

High channel

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_High channel
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

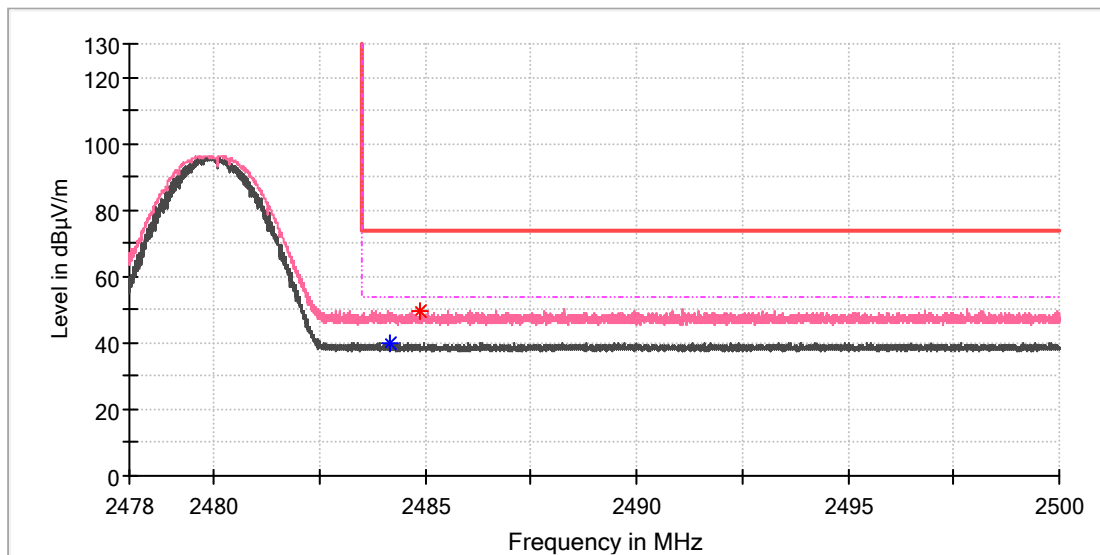


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.996375	55.74	---	74.00	18.26	100.0	H	170.0	7.4
2484.232875	---	43.88	54.00	10.12	100.0	H	170.0	7.4

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model: LA02301
Test Mode: BLE_High channel
Test Voltage:: DC 5V
Remark: Temp 24 Humi:47%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

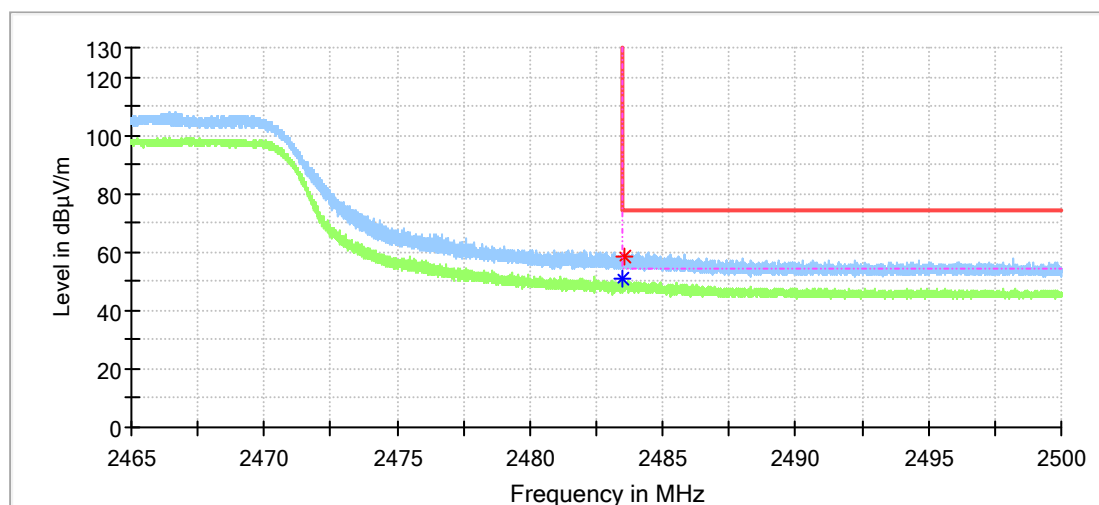
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.160313	---	39.71	54.00	14.29	100.0	V	44.0	7.4
2484.895313	49.72	---	74.00	24.28	100.0	V	210.0	7.4

Wi-Fi 802.11 n(HT20) mode, MCS0

High channel

EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



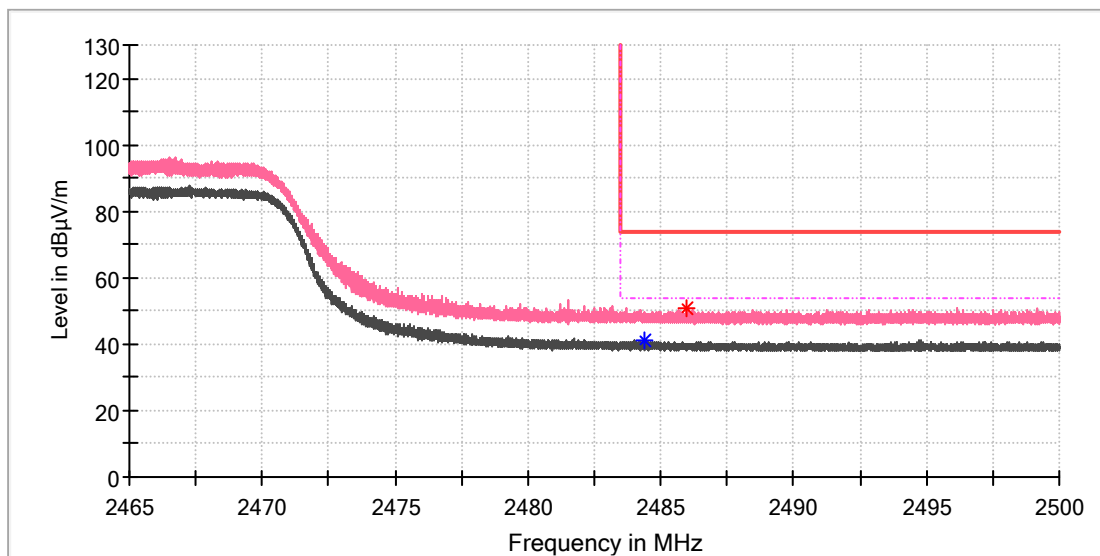
Comment

Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.508438	---	50.94	54.00	3.06	100.0	H	175.0	7.4
2483.560938	58.76	---	74.00	15.24	100.0	H	175.0	7.4

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WiFi 2.4G_11n20_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.361563	---	40.99	54.00	13.01	100.0	V	292.0	7.4
2485.984688	50.58	---	74.00	23.42	100.0	V	228.0	7.4