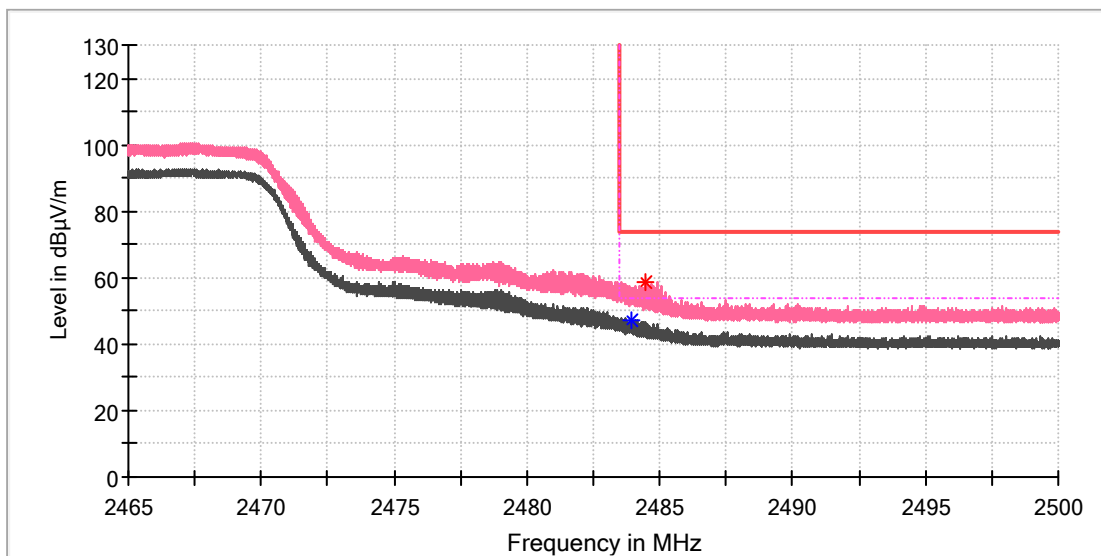


EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WiFi 2.4G_11g_High channel
 Test Voltage: DC 5V from USB
 Remark: Temp 23 Humi:48%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



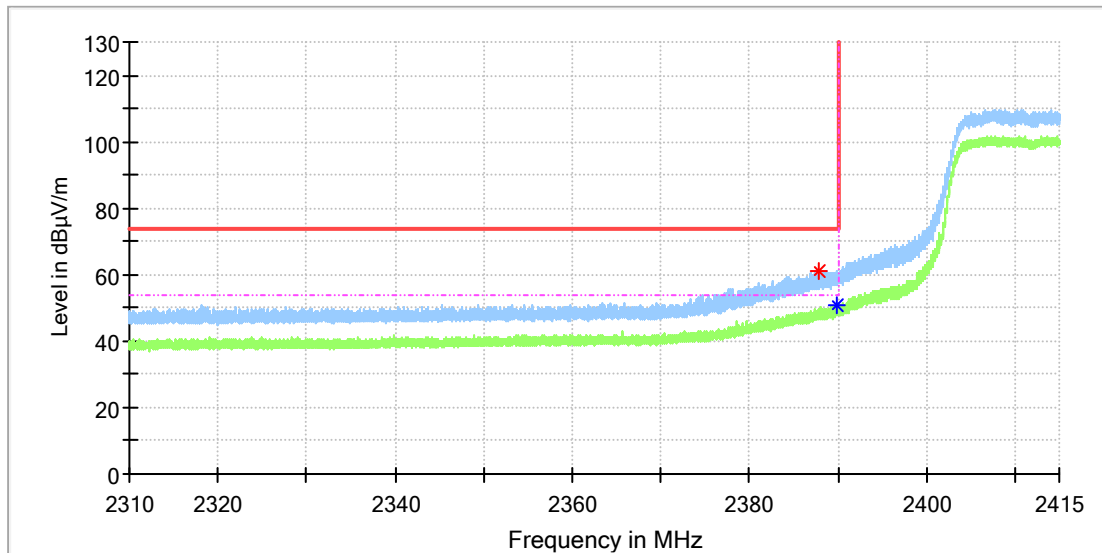
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.963000	---	47.35	54.00	6.65	100.0	V	160.0	7.4
2484.486250	58.39	---	74.00	15.61	100.0	V	160.0	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 channel
 Test Voltage:: DC 5V from USB
 Remark: Temp 23 Humi:48%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

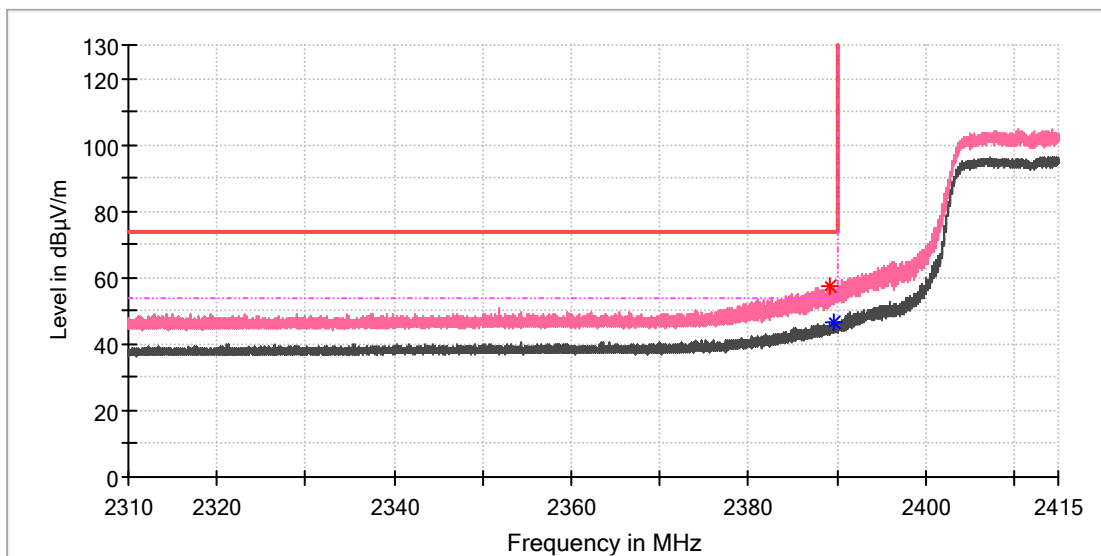


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.925750	61.02	---	74.00	12.98	100.0	H	237.0	7.0
2389.899750	---	50.76	54.00	3.24	100.0	H	250.0	7.0

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WiFi 2.4G_11n20_Low channel
 Test Voltage: DC 5V from USB
 Remark: Temp 23 Humi:48%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



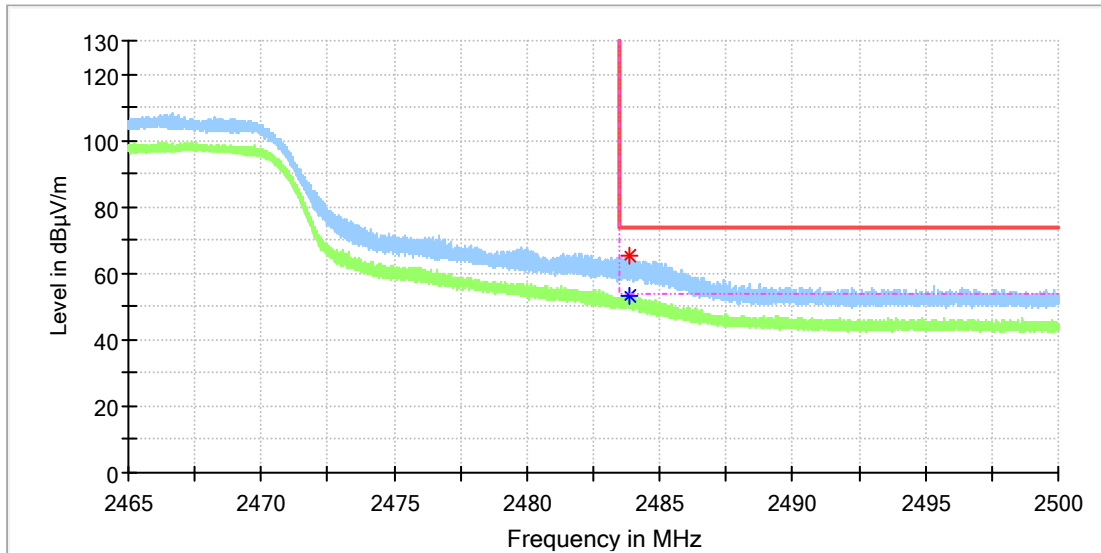
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.290750	57.16	---	74.00	16.84	100.0	V	86.0	7.0
2389.758000	---	46.71	54.00	7.29	100.0	V	134.0	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 channel
 Test Voltage:: DC 5V from USB
 Remark: Temp 23 Humi:48%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

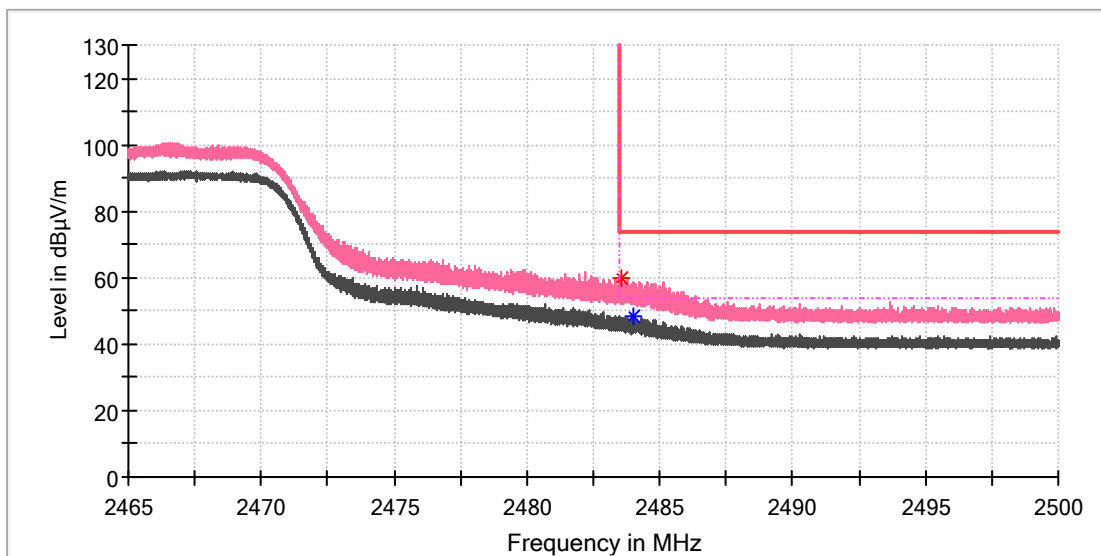


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.824750	---	52.91	54.00	1.09	100.0	H	258.0	7.4
2483.873750	65.15	---	74.00	8.85	100.0	H	238.0	7.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WiFi 2.4G_11n20_High channel
 Test Voltage: DC 5V from USB
 Remark: Temp 23 Humi:48%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



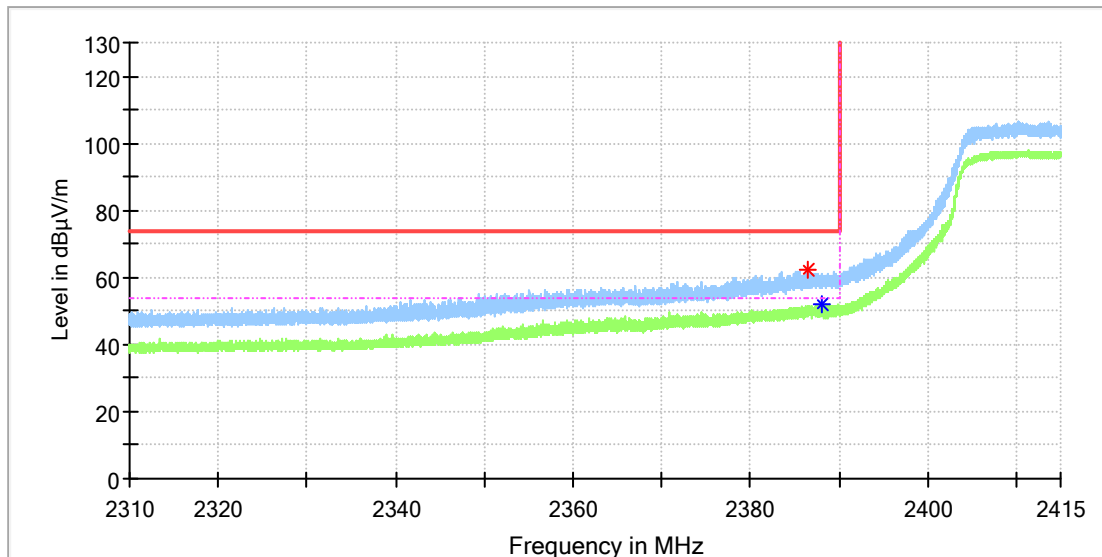
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.586750	59.66	---	74.00	14.34	100.0	V	162.0	7.4
2484.038250	---	48.33	54.00	5.67	100.0	V	162.0	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 channel
 Test Voltage:: DC 5V from USB
 Remark: Temp 23 Humi:48%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

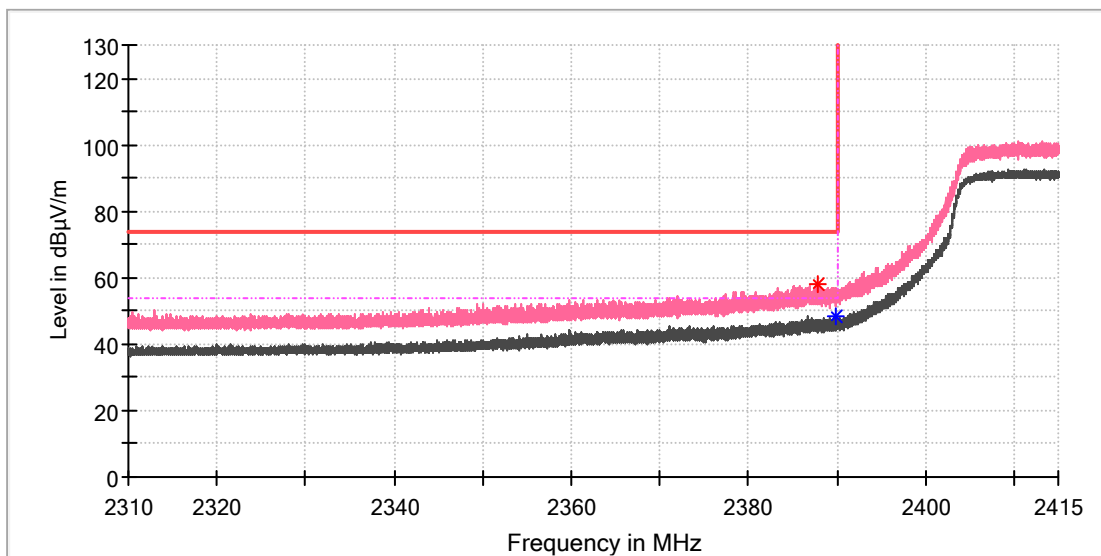


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.487250	61.99	---	74.00	12.01	100.0	H	195.0	7.0
2388.088500	---	51.92	54.00	2.08	100.0	H	169.0	7.0

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WiFi 2.4G_11n40_Low channel
 Test Voltage:: DC 5V from USB
 Remark: Temp 23 Humi:48%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



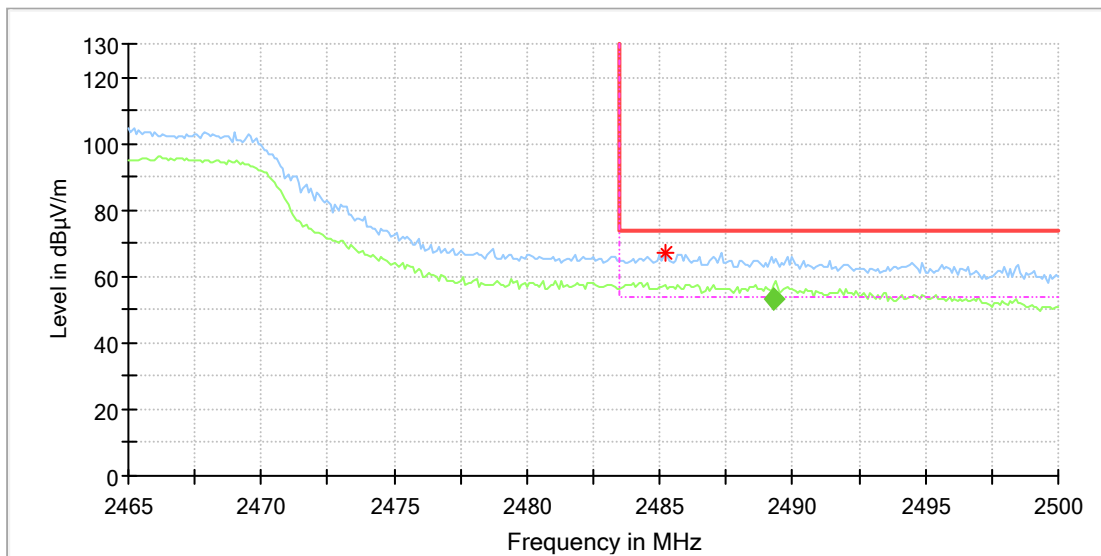
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.778750	57.86	---	74.00	16.14	100.0	V	124.0	7.0
2389.915500	---	48.50	54.00	5.50	100.0	V	86.0	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 channel
 Test Voltage:: DC 5V from USB
 Remark: Temp 23 Humi:48%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

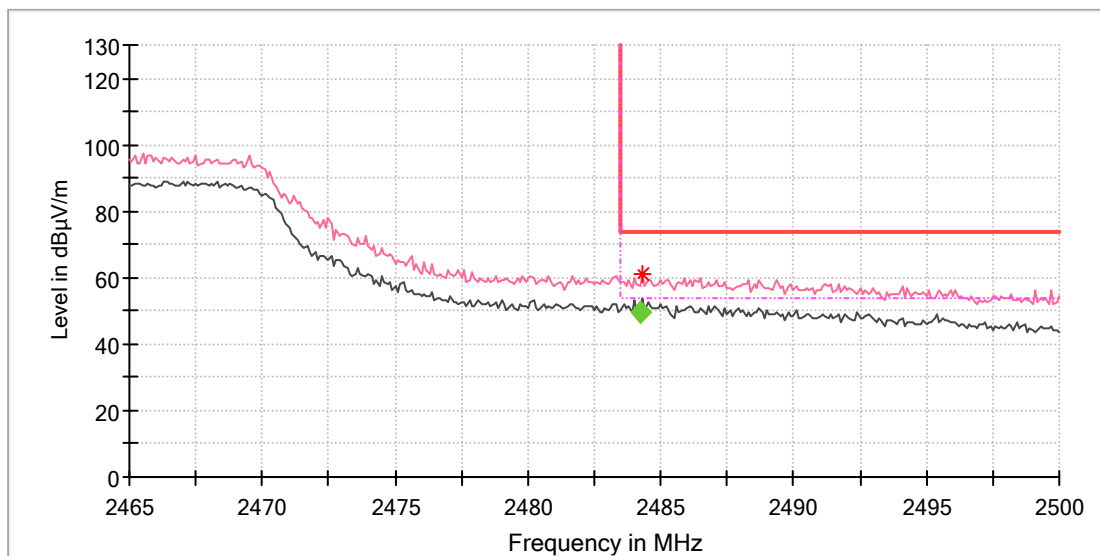
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.200000	67.41	---	74.00	6.59	100.0	H	243.0	7.4

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2489.271250	52.92	54.00	1.08	102.0	H	240.0	7.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WiFi 2.4G_11n40_High channel
 Test Voltage:: DC 5V from USB
 Remark: Temp 23 Humi:48%
 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)
2484.300000	60.97	---	74.00	13.03	100.0	V	169.0	7.4

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.218350	49.48	54.00	4.52	102.0	V	161.0	7.4

Appendix C: Test Results of Radiated Testing for new antenna

APPENDIX C: TEST RESULTS OF RADIATED TESTING FOR NEW ANTENNA	1
APPENDIX C.1: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS, CONFIGURATION 1	2
<i>Bluetooth Low Energy</i>	<i>2</i>
<i>Wi-Fi 802.11 b mode, 1 Mbps.....</i>	<i>18</i>
<i>Wi-Fi 802.11 g mode, 6Mbps.....</i>	<i>34</i>
<i>Wi-Fi 802.11 n(HT20) mode, MCS0.....</i>	<i>46</i>
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<i>Wi-Fi 802.11 b mode, 1 Mbps.....</i>	<i>74</i>
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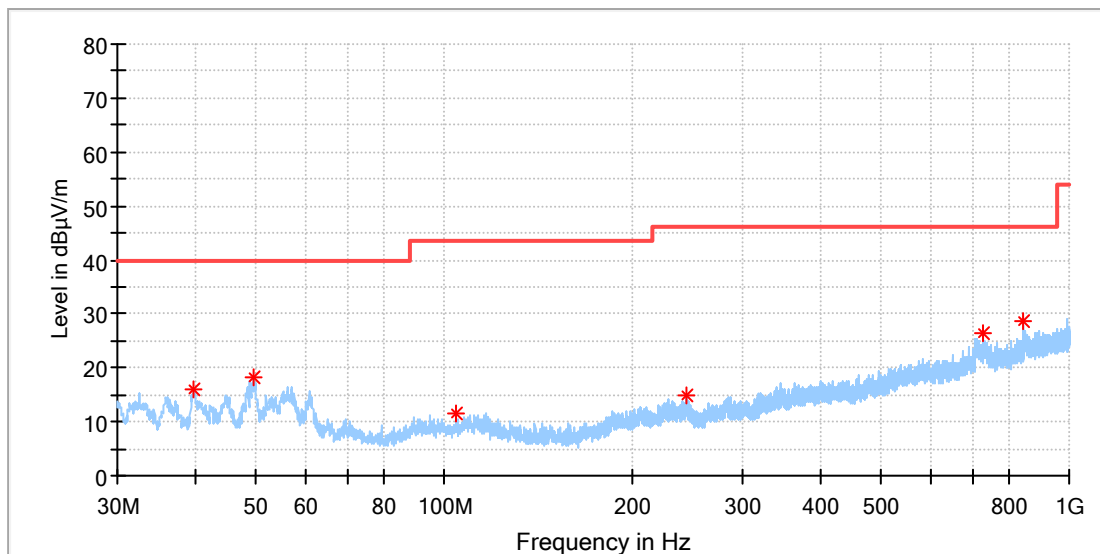
Note 1: Testing was carried out within frequency range 9 kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix C.1: Test Results of Radiated Spurious Emissions, configuration 1

Bluetooth Low Energy
30MHz - 1GHz

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_Low channel
Test Voltage::	DC 3.3V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Terry Yin
Reviewed By:	Terry Yin

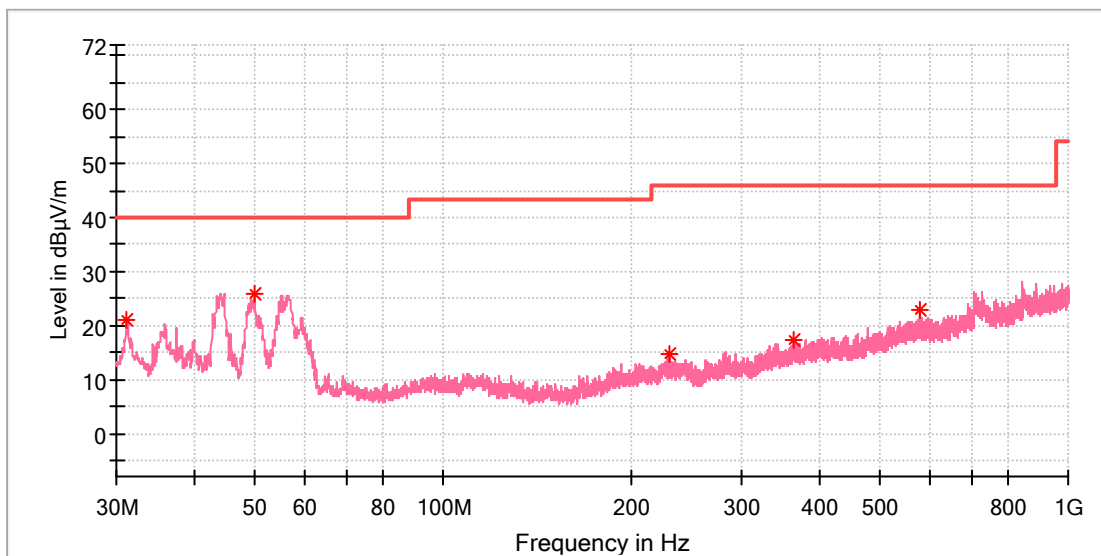


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.700000	15.93	40.00	24.07	100.0	H	197.0	-20.5
49.545500	18.16	40.00	21.84	100.0	H	225.0	-18.6
104.302000	11.66	43.50	31.84	100.0	H	354.0	-19.1
244.224500	14.94	46.00	31.06	100.0	H	304.0	-17.9
728.885000	26.25	46.00	19.75	100.0	H	78.0	-7.9
844.848500	28.75	46.00	17.25	100.0	H	346.0	-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 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Terry Yin
 Reviewed By: Terry Yin

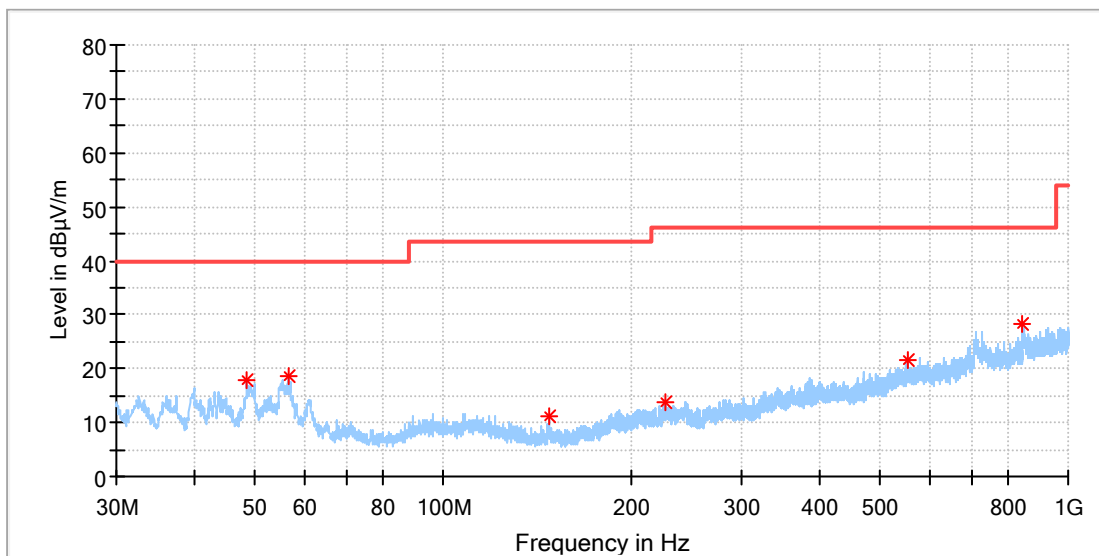


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.212500	21.01	40.00	18.99	100.0	V	226.0	-23.1
49.982000	26.01	40.00	13.99	100.0	V	6.0	-18.6
230.741500	14.67	46.00	31.33	100.0	V	53.0	-18.4
362.467500	17.36	46.00	28.64	100.0	V	14.0	-14.9
578.244000	22.96	46.00	23.04	100.0	V	275.0	-10.6

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: BLE_Low channel
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Terry Yin
 Reviewed By: Terry Yin

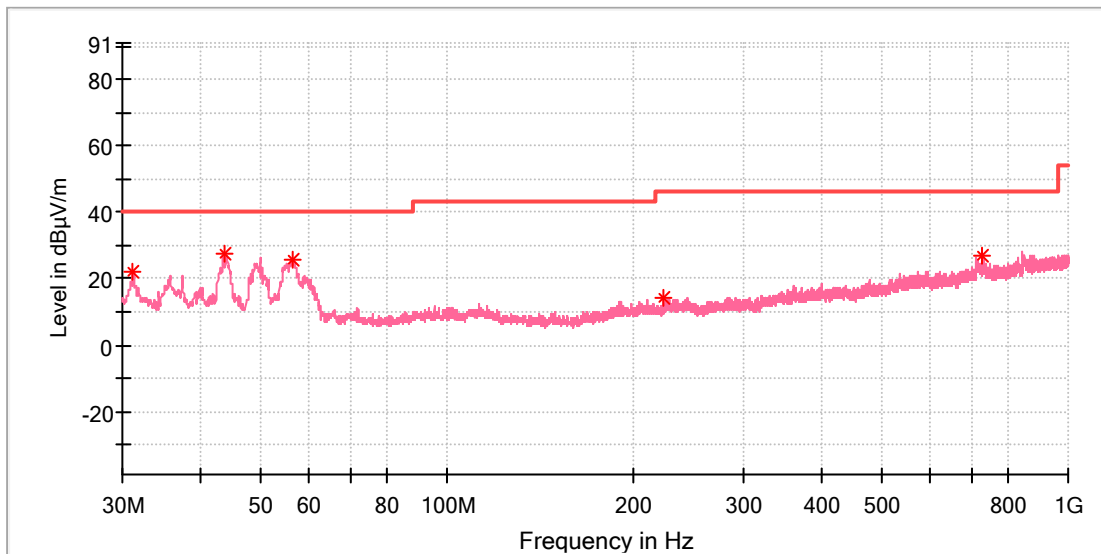


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
48.527000	17.85	40.00	22.15	100.0	H	193.0	-18.7
56.481000	18.47	40.00	21.53	100.0	H	234.0	-18.9
147.418500	10.99	43.50	32.51	100.0	H	135.0	-22.6
227.201000	13.93	46.00	32.07	100.0	H	108.0	-18.6
554.430500	21.42	46.00	24.58	100.0	H	47.0	-11.1
845.285000	28.31	46.00	17.69	100.0	H	98.0	-6.0

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: BLE_Low channel
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Terry Yin
 Reviewed By: Terry Yin



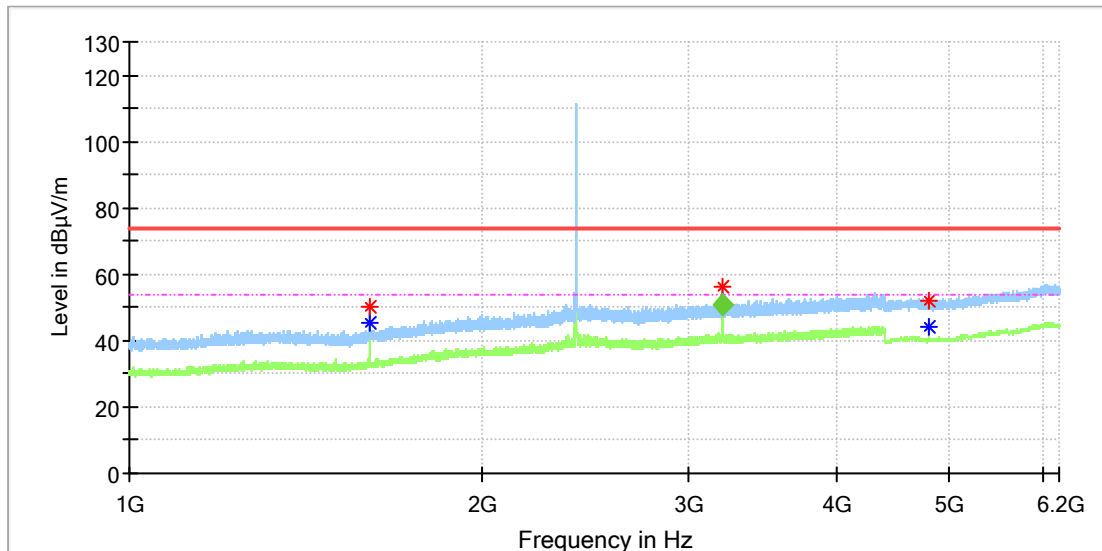
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.212500	22.32	40.00	17.68	100.0	V	222.0	-23.1
43.677000	27.27	40.00	12.73	100.0	V	356.0	-19.4
56.384000	25.89	40.00	14.11	100.0	V	280.0	-18.9
222.205500	14.46	46.00	31.54	100.0	V	299.0	-18.8
729.079000	27.00	46.00	19.00	100.0	V	31.0	-7.9

1GHz - 6.2GHz

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: BLE_Low channel
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

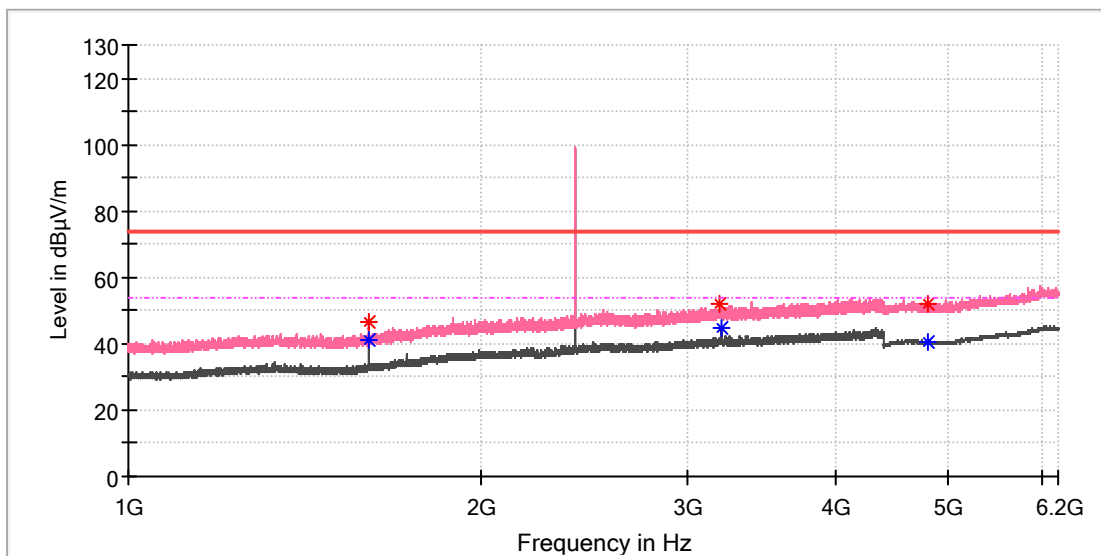
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1600.950000	50.28	---	74.00	23.72	100.0	H	285.0	2.1
1601.290000	---	45.43	54.00	8.57	100.0	H	274.0	2.1
3202.690000	56.45	---	74.00	17.55	100.0	H	296.0	8.6
4803.500000	---	44.36	54.00	9.64	100.0	H	158.0	11.8
4804.000000	52.24	---	74.00	21.76	100.0	H	326.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3202.631000	50.87	54.00	3.13	105.0	H	295.0	8.6

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: BLE_Low channel
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

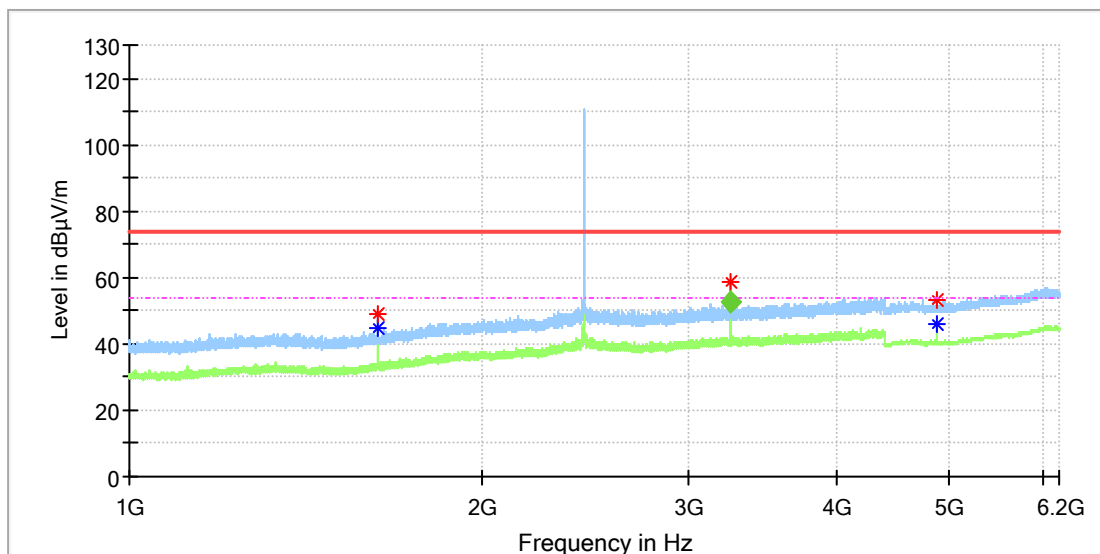


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1601.460000	---	41.20	54.00	12.80	100.0	V	296.0	2.1
1601.460000	46.37	---	74.00	27.63	100.0	V	296.0	2.1
3196.060000	51.72	---	74.00	22.28	100.0	V	47.0	8.6
3202.690000	---	44.64	54.00	9.36	100.0	V	307.0	8.6
4803.500000	---	40.81	54.00	13.19	100.0	V	261.0	11.8
4805.000000	51.75	---	74.00	22.25	100.0	V	297.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: BLE_Mid channel
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

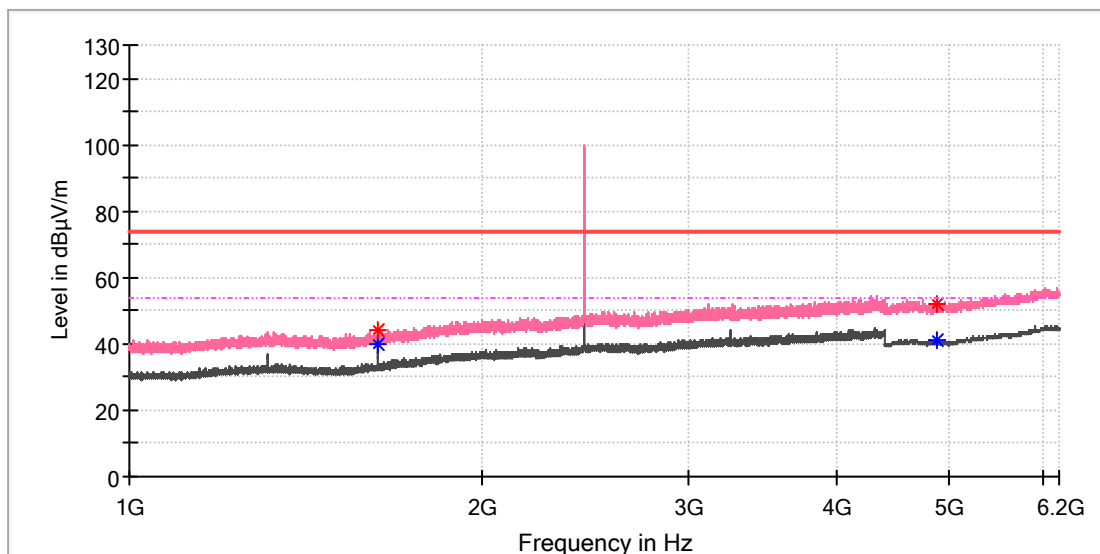
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1626.450000	---	44.64	54.00	9.36	100.0	H	101.0	2.4
1626.960000	48.87	---	74.00	25.13	100.0	H	286.0	2.4
3253.180000	58.58	---	74.00	15.42	100.0	H	297.0	8.5
4880.000000	---	45.81	54.00	8.19	100.0	H	328.0	11.8
4880.500000	53.36	---	74.00	20.64	100.0	H	328.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3253.206000	52.63	54.00	1.37	105.0	H	292.0	8.5

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_Mid channel
Test Voltage::	DC 3.3V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

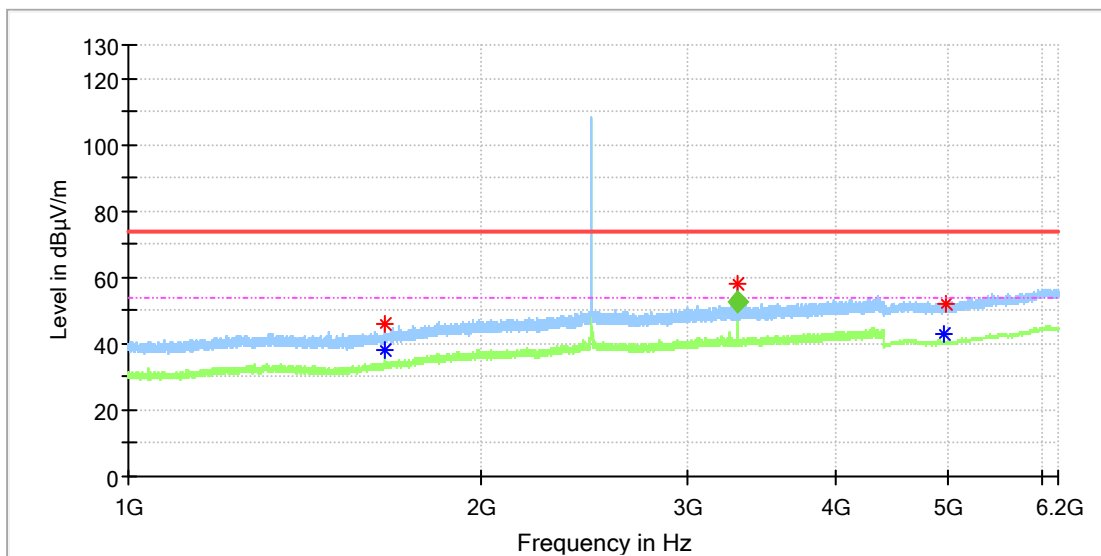


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1626.620000	44.14	---	74.00	29.86	100.0	V	309.0	2.4
1626.790000	---	40.11	54.00	13.89	100.0	V	309.0	2.4
4880.000000	---	41.02	54.00	12.98	100.0	V	357.0	11.8
4885.000000	51.86	---	74.00	22.14	100.0	V	154.0	11.8

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: BLE_High channel
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

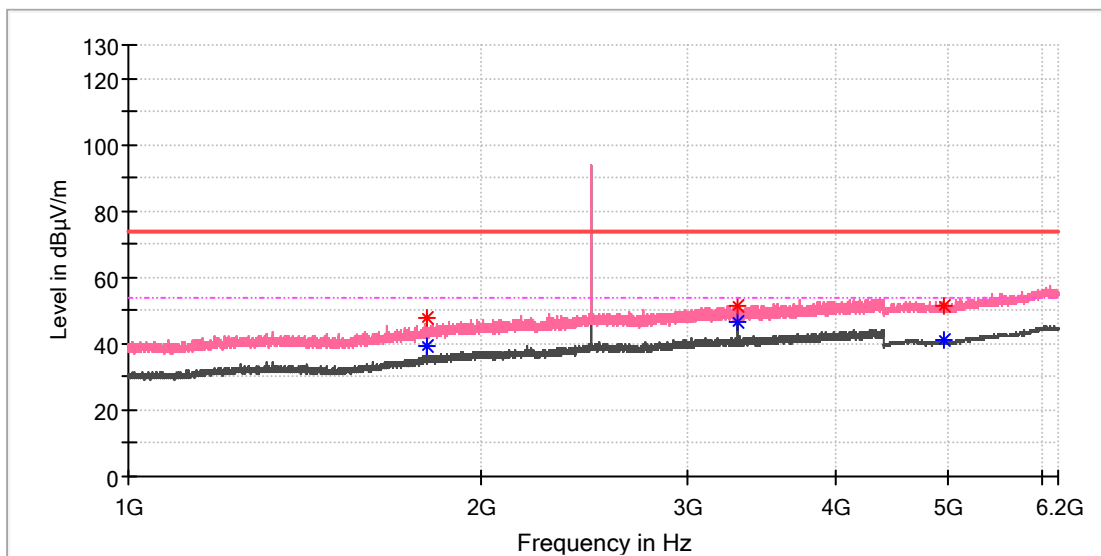
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1653.310000	---	37.94	54.00	16.06	100.0	H	288.0	2.6
1653.650000	46.21	---	74.00	27.79	100.0	H	276.0	2.6
3306.560000	58.20	---	74.00	15.80	100.0	H	288.0	8.6
4960.000000	---	43.10	54.00	10.90	100.0	H	328.0	11.8
4967.000000	52.13	---	74.00	21.87	100.0	H	348.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3306.660500	52.76	54.00	1.24	105.0	H	188.0	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 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



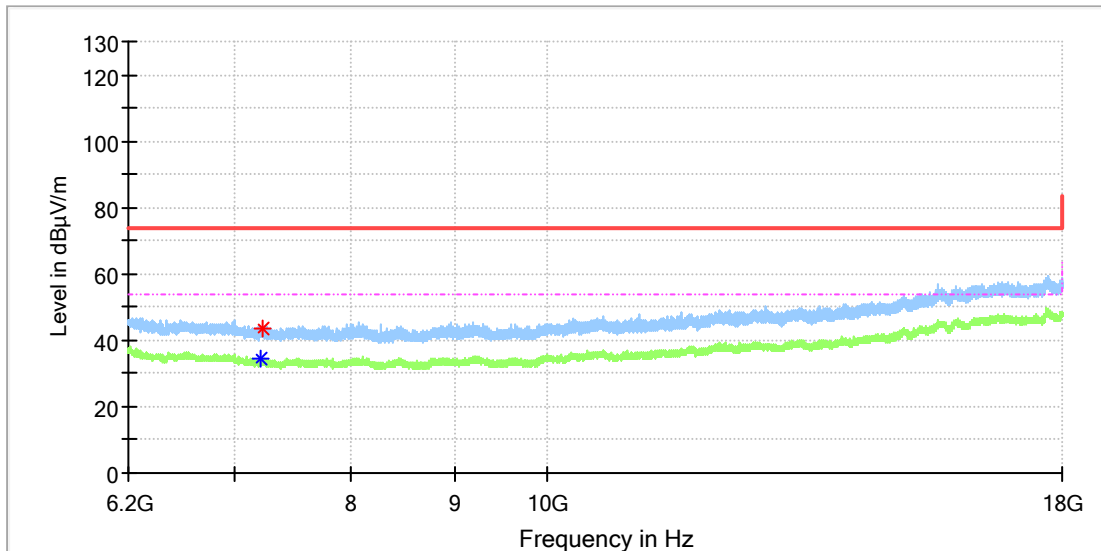
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1797.640000	---	39.06	54.00	14.94	100.0	V	341.0	4.7
1798.660000	47.81	---	74.00	26.19	100.0	V	341.0	4.7
3306.560000	---	46.82	54.00	7.18	100.0	V	145.0	8.6
3306.900000	51.64	---	74.00	22.36	100.0	V	145.0	8.6
4958.000000	---	40.91	54.00	13.09	100.0	V	302.0	11.8
4962.000000	51.60	---	74.00	22.40	100.0	V	316.0	11.8

6.2GHz - 18GHz

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: BLE_Low channel
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

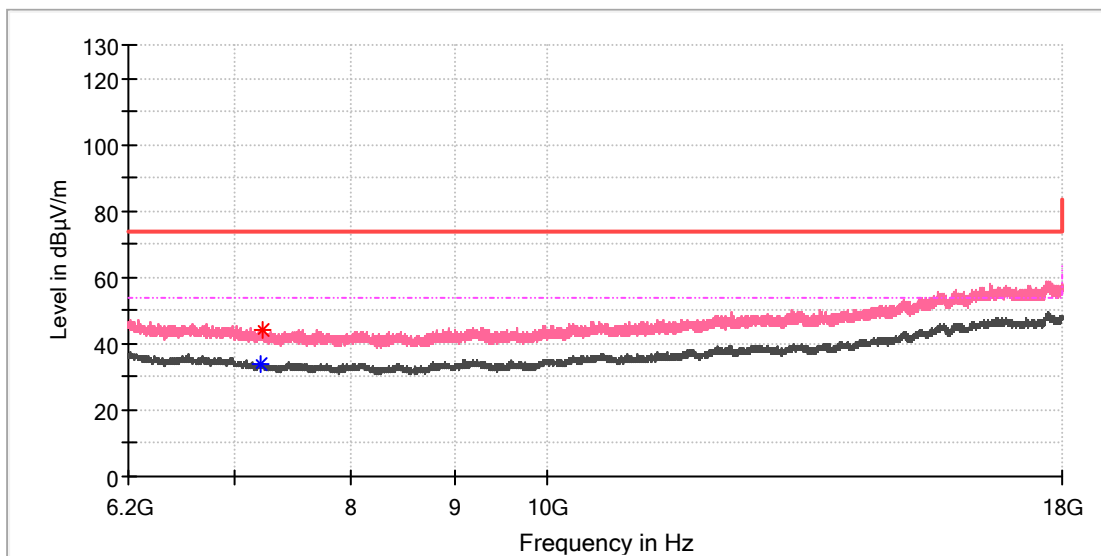


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7214.800000	---	34.38	54.00	19.62	100.0	H	323.0	8.7
7219.225000	43.82	---	74.00	30.18	100.0	H	209.0	8.7

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: BLE_Low channel
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

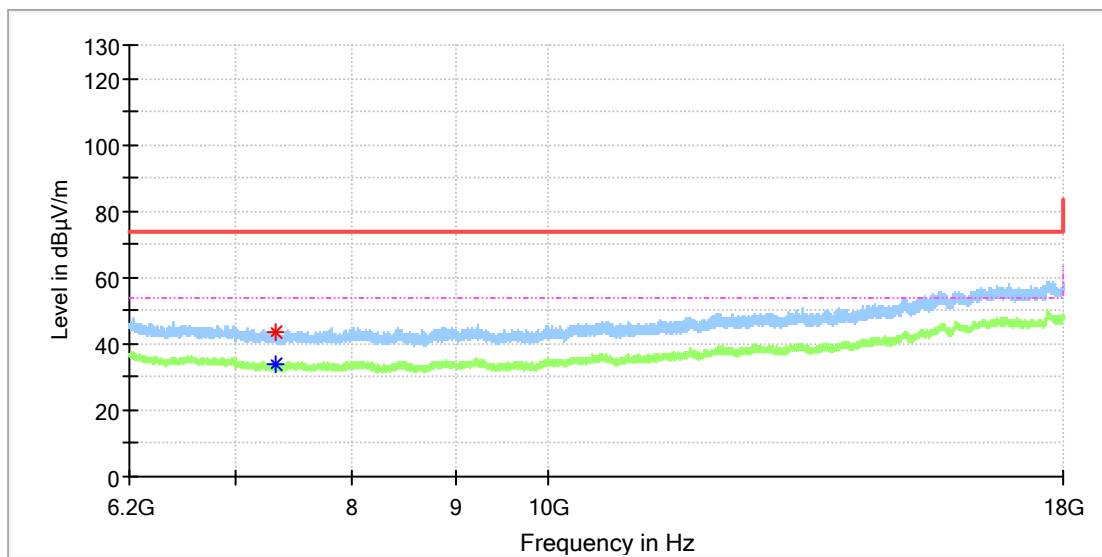


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7209.391667	---	33.89	54.00	20.11	100.0	V	112.0	8.8
7226.600000	44.01	---	74.00	29.99	100.0	V	126.0	8.7

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: BLE_Mid channel
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

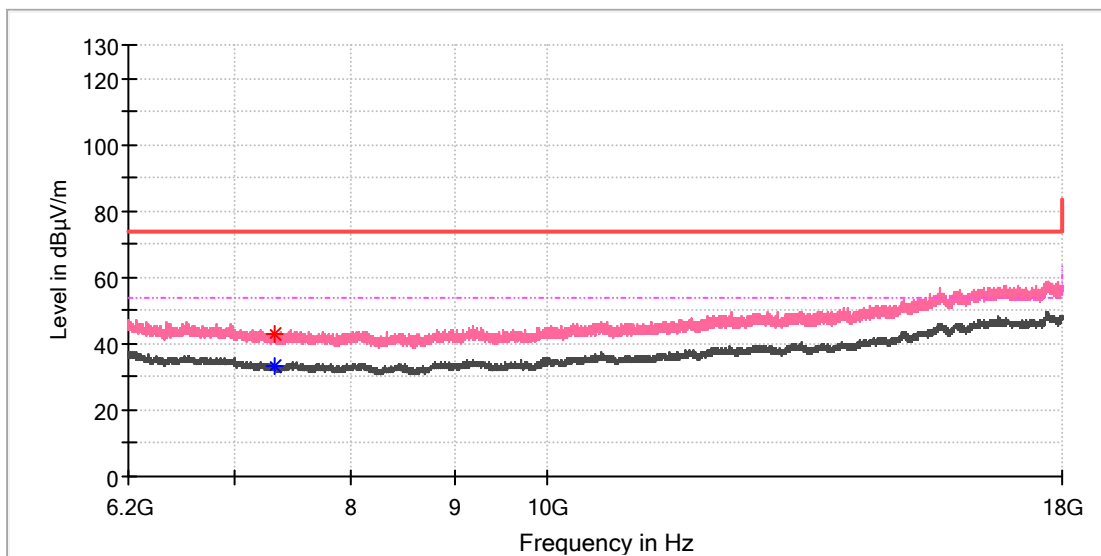


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7323.458333	43.32	---	74.00	30.68	100.0	H	182.0	8.2
7327.883333	---	33.95	54.00	20.05	100.0	H	279.0	8.1

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: BLE_Mid channel
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

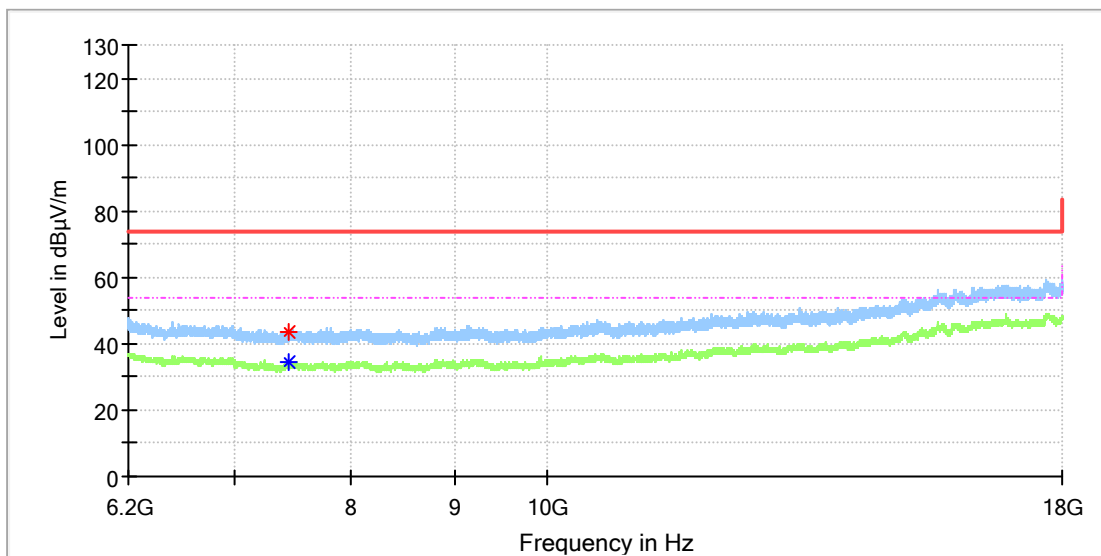


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7326.408333	43.22	---	74.00	30.78	100.0	V	333.0	8.1
7328.375000	---	33.50	54.00	20.50	100.0	V	333.0	8.1

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: BLE_High channel
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

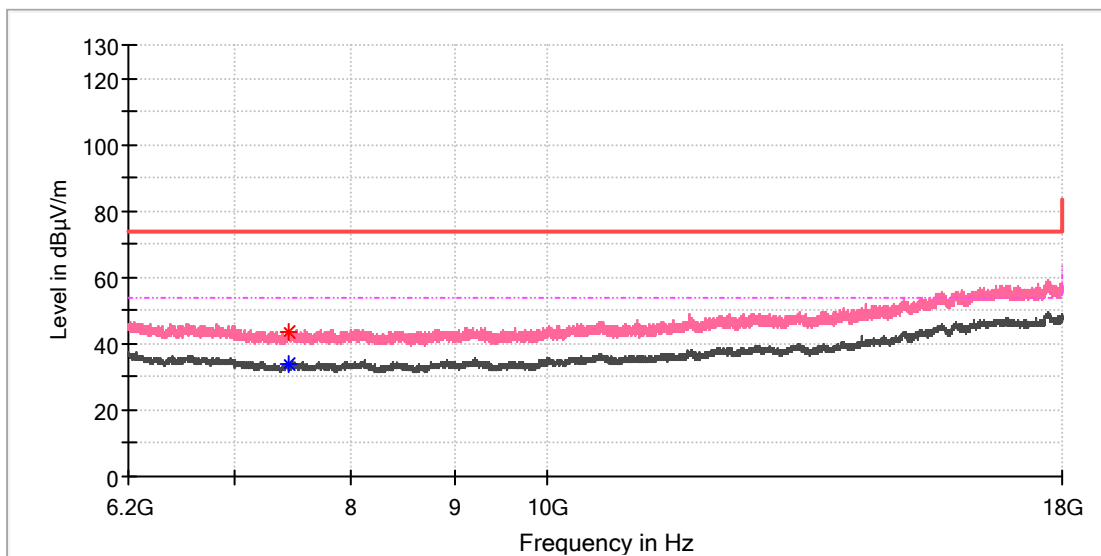


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	---	34.26	54.00	19.74	100.0	H	126.0	8.4
7439.983333	43.45	---	74.00	30.55	100.0	H	265.0	8.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: BLE_High channel
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



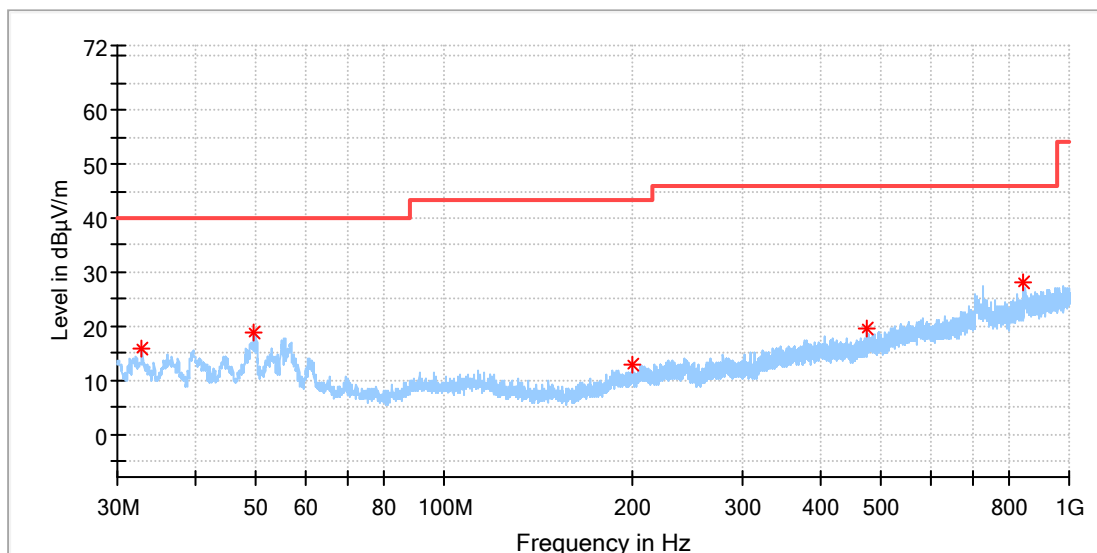
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.983333	43.46	---	74.00	30.54	100.0	V	1.0	8.4
7440.475000	---	33.91	54.00	20.09	100.0	V	338.0	8.4

**Wi-Fi 802.11 b mode, 1 Mbps
30MHz - 1GHz**

EUT Information

EUT Name: LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 1
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Terry Yin
 Reviewed By: Terry Yin

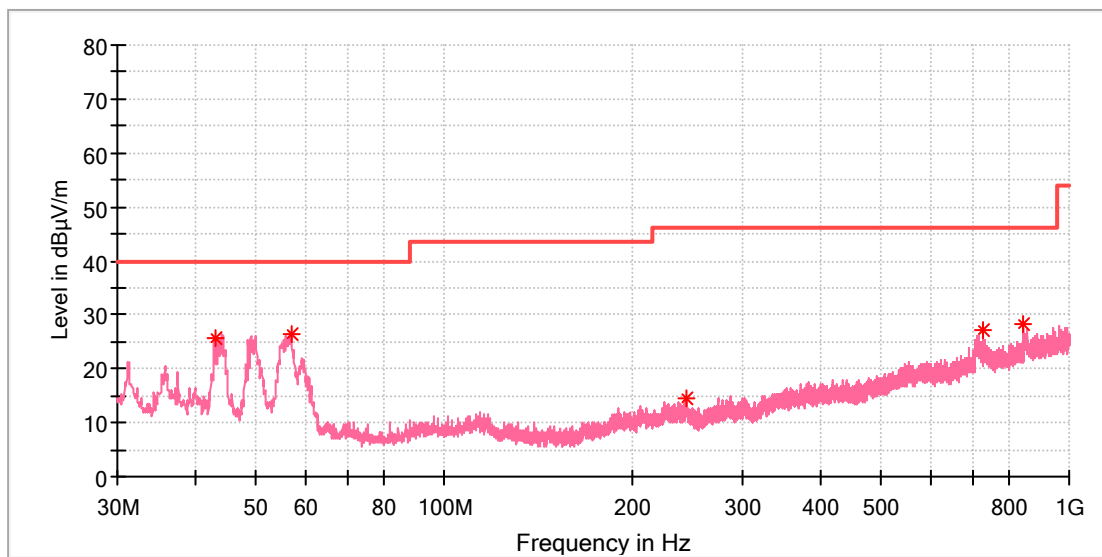


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.813000	16.00	40.00	24.00	100.0	H	77.0	-22.8
49.594000	18.87	40.00	21.13	100.0	H	271.0	-18.6
199.992500	12.74	43.50	30.76	100.0	H	241.0	-19.3
475.424000	19.57	46.00	26.43	100.0	H	174.0	-12.7
844.945500	28.24	46.00	17.76	100.0	H	308.0	-6.0

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 1
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Terry Yin
 Reviewed By: Terry Yin

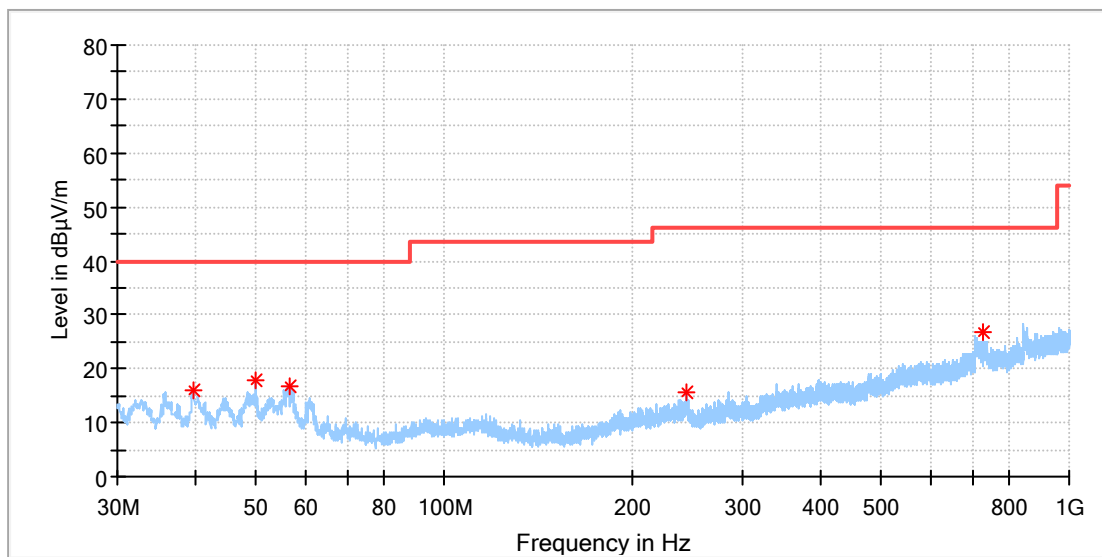


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
42.949500	25.69	40.00	14.31	100.0	V	272.0	-19.6
56.820500	26.43	40.00	13.57	100.0	V	0.0	-18.9
243.739500	14.63	46.00	31.37	100.0	V	180.0	-17.9
728.400000	27.13	46.00	18.87	100.0	V	336.0	-7.9
844.897000	28.45	46.00	17.55	100.0	V	89.0	-6.0

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 11
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Terry Yin
 Reviewed By: Terry Yin

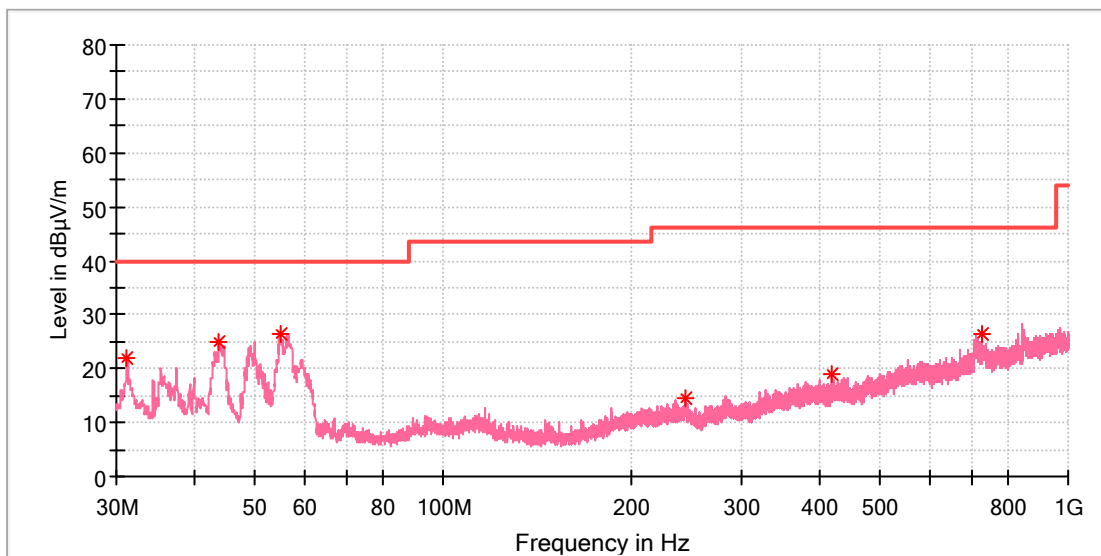


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.748500	15.87	40.00	24.13	100.0	H	233.0	-20.5
49.982000	17.69	40.00	22.31	100.0	H	252.0	-18.6
56.772000	16.88	40.00	23.12	100.0	H	193.0	-18.9
244.709500	15.62	46.00	30.38	100.0	H	252.0	-17.9
728.497000	26.85	46.00	19.15	100.0	H	22.0	-7.9

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 11
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Terry Yin
 Reviewed By: Terry Yin



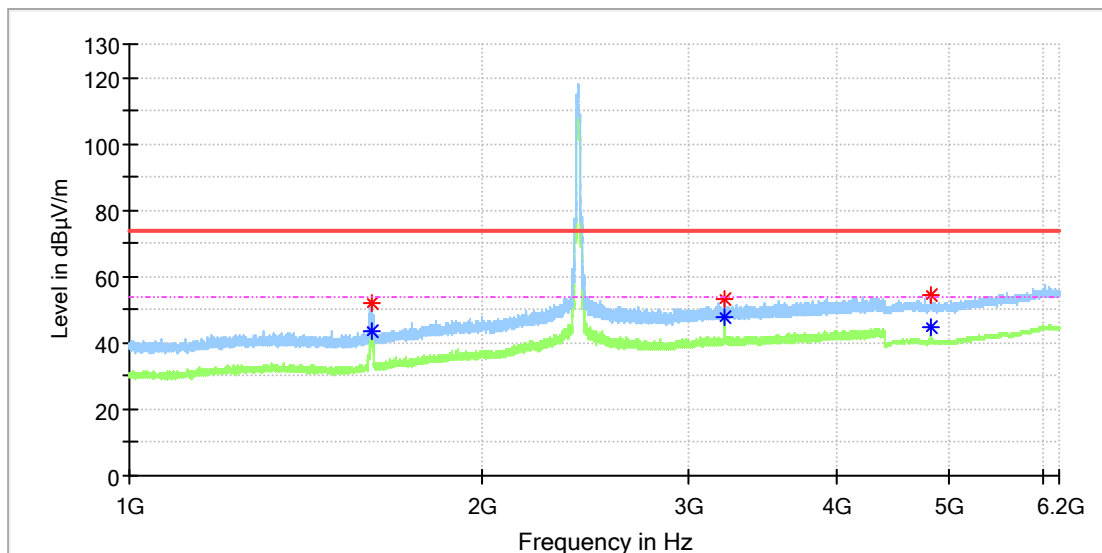
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.212500	21.93	40.00	18.07	100.0	V	257.0	-23.1
43.871000	25.09	40.00	14.91	100.0	V	345.0	-19.4
54.783500	26.40	40.00	13.60	100.0	V	201.0	-18.7
244.370000	14.50	46.00	31.50	100.0	V	220.0	-17.9
418.388000	18.91	46.00	27.09	100.0	V	239.0	-13.8
728.739500	26.50	46.00	19.50	100.0	V	325.0	-7.9

1GHz - 6.2GHz

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 1
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

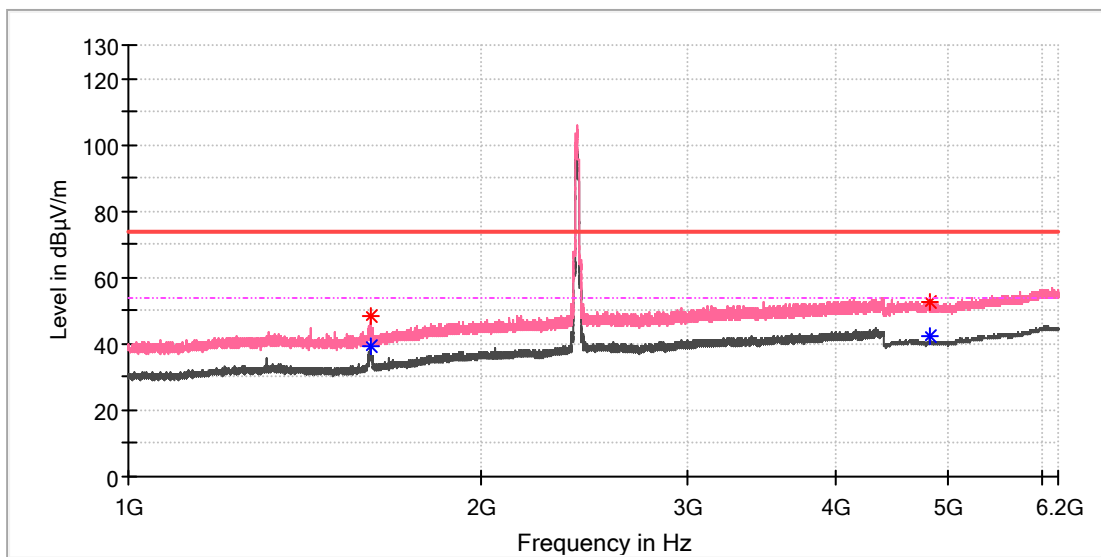


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1607.070000	---	43.57	54.00	10.43	100.0	H	236.0	2.2
1608.090000	52.29	---	74.00	21.71	100.0	H	236.0	2.2
3215.780000	53.09	---	74.00	20.91	100.0	H	247.0	8.6
3216.120000	---	47.79	54.00	6.21	100.0	H	247.0	8.6
4823.000000	---	44.52	54.00	9.48	100.0	H	253.0	11.8
4828.500000	54.42	---	74.00	19.58	100.0	H	174.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 1
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

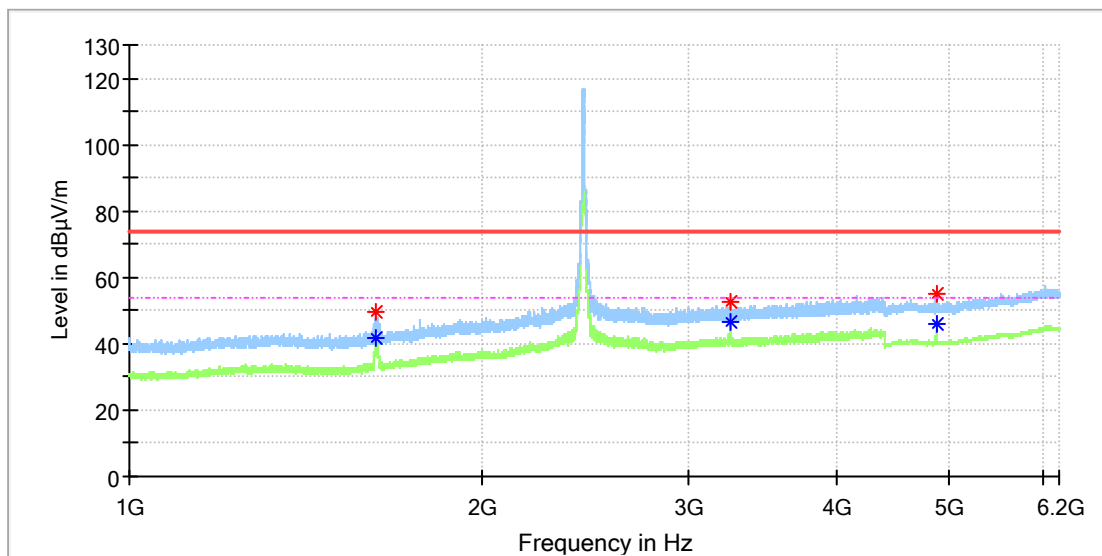


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1607.750000	---	39.44	54.00	14.56	100.0	V	266.0	2.2
1607.920000	48.19	---	74.00	25.81	100.0	V	277.0	2.2
4819.500000	52.49	---	74.00	21.51	100.0	V	222.0	11.8
4823.000000	---	42.16	54.00	11.84	100.0	V	271.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 6
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

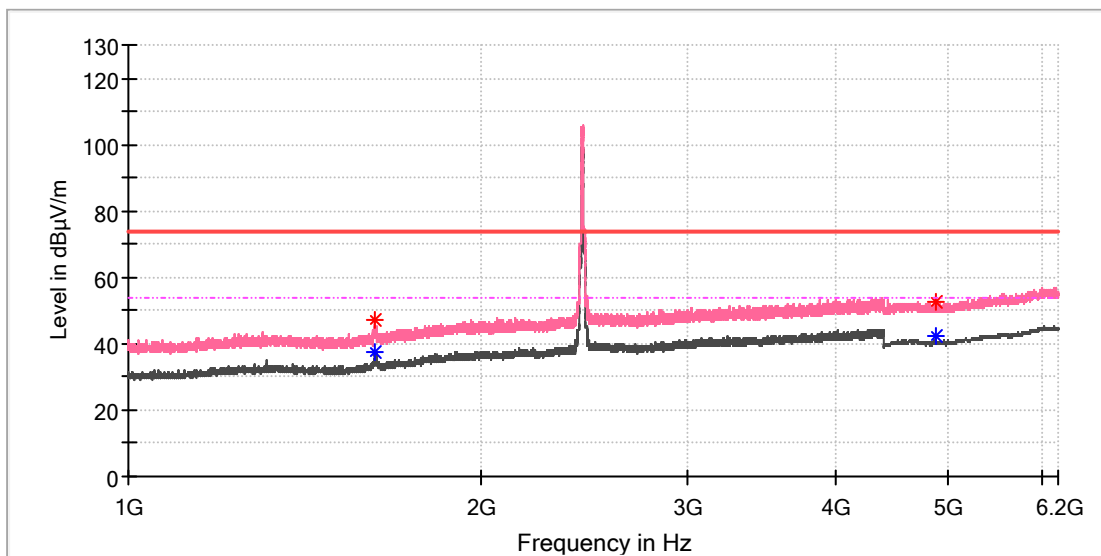


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1624.410000	---	41.61	54.00	12.39	100.0	H	242.0	2.3
1624.750000	49.87	---	74.00	24.13	100.0	H	242.0	2.3
3249.270000	---	46.51	54.00	7.49	100.0	H	252.0	8.5
3249.610000	52.78	---	74.00	21.22	100.0	H	252.0	8.5
4874.000000	55.03	---	74.00	18.97	100.0	H	294.0	11.8
4874.500000	---	46.22	54.00	7.78	100.0	H	294.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 6
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

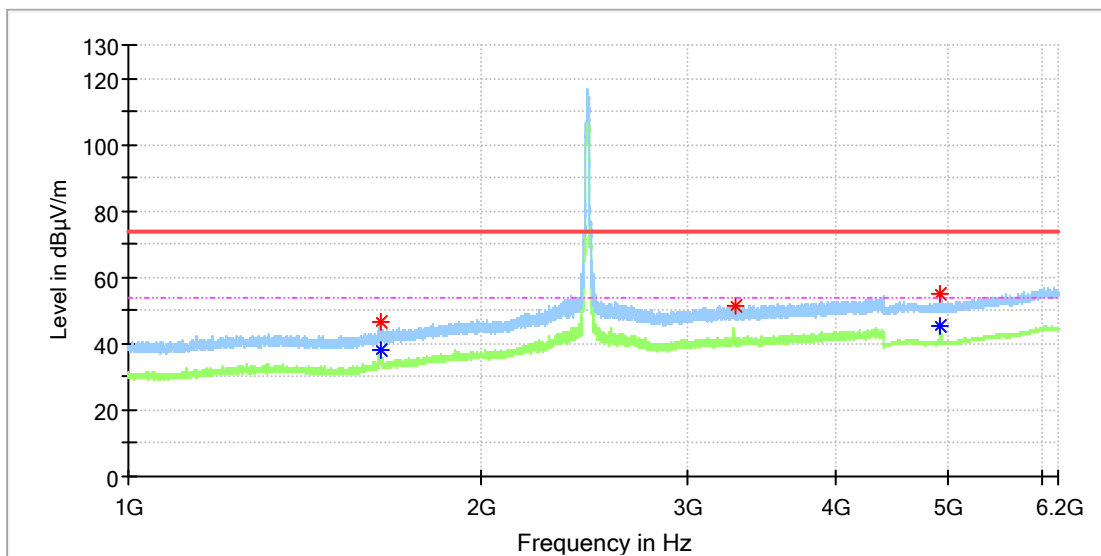


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1624.070000	---	37.76	54.00	16.24	100.0	V	6.0	2.3
1624.920000	47.19	---	74.00	26.81	100.0	V	6.0	2.3
4874.500000	52.68	---	74.00	21.32	100.0	V	270.0	11.8
4874.500000	---	42.53	54.00	11.47	100.0	V	270.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 11
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

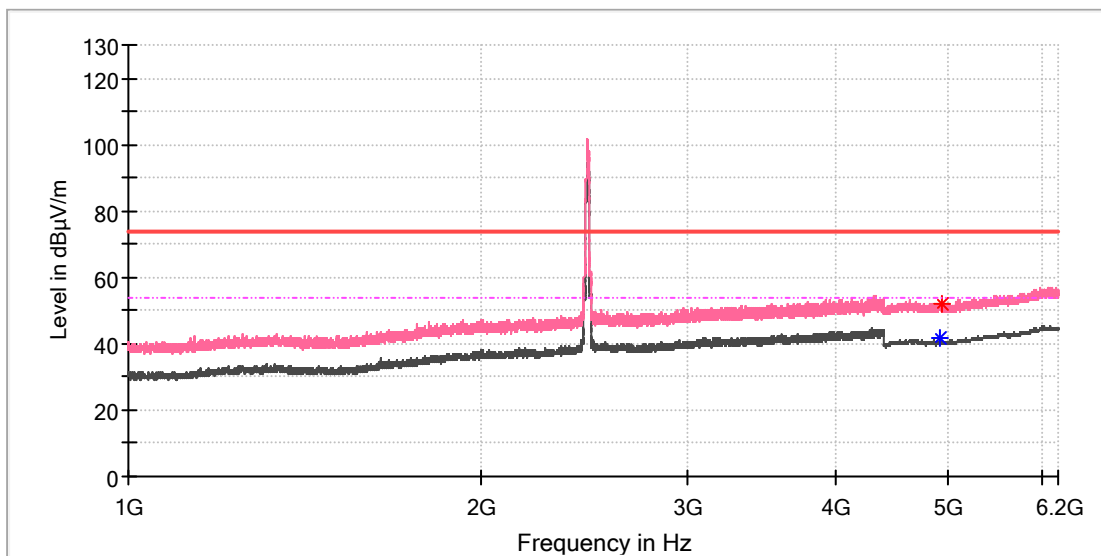


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1640.390000	---	38.32	54.00	15.68	100.0	H	218.0	2.5
1641.070000	46.57	---	74.00	27.43	100.0	H	241.0	2.5
3290.580000	51.62	---	74.00	22.38	100.0	H	251.0	8.6
4923.500000	---	45.42	54.00	8.58	100.0	H	321.0	11.8
4924.500000	54.86	---	74.00	19.14	100.0	H	294.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 11
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin



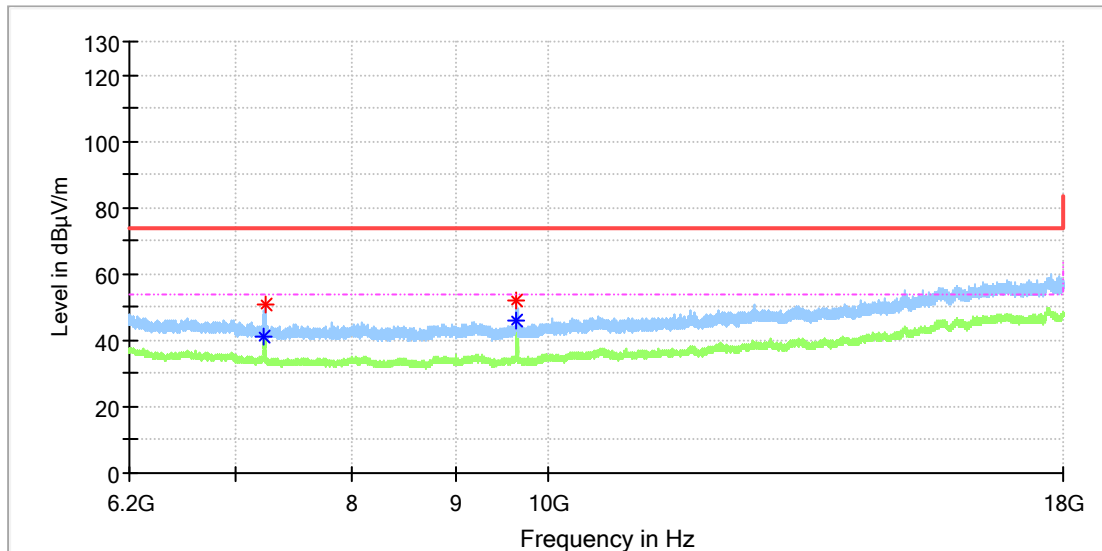
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4923.000000	---	41.74	54.00	12.27	100.0	V	277.0	11.8
4927.500000	51.88	---	74.00	22.12	100.0	V	115.0	11.8

6.2GHz - 18GHz

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 1
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

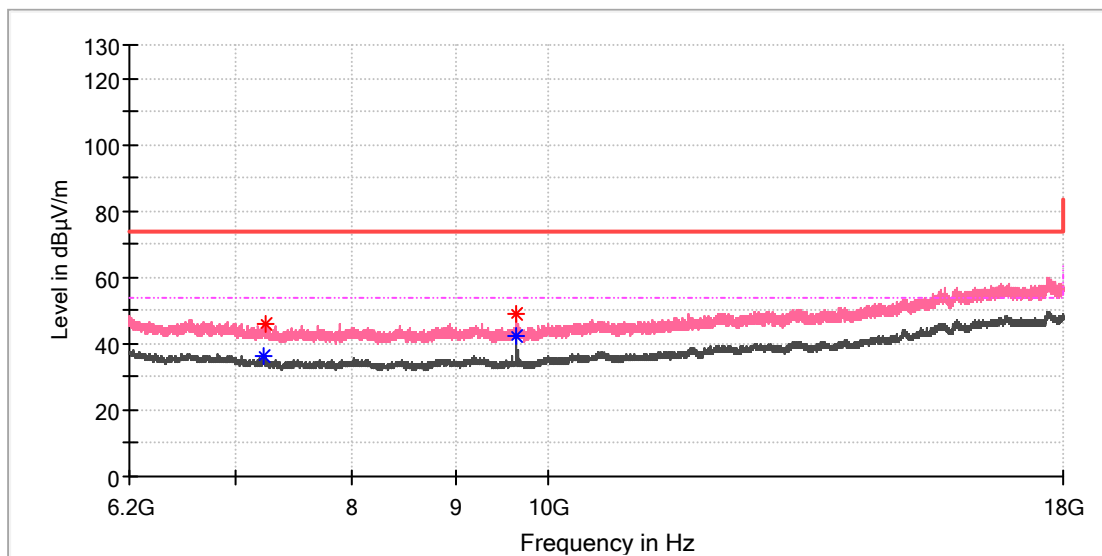


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7234.466667	---	40.83	54.00	13.17	100.0	H	326.0	8.6
7236.433333	50.62	---	74.00	23.38	100.0	H	326.0	8.6
9647.566667	52.14	---	74.00	21.86	100.0	H	113.0	10.4
9648.058333	---	46.18	54.00	7.82	100.0	H	99.0	10.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 1
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

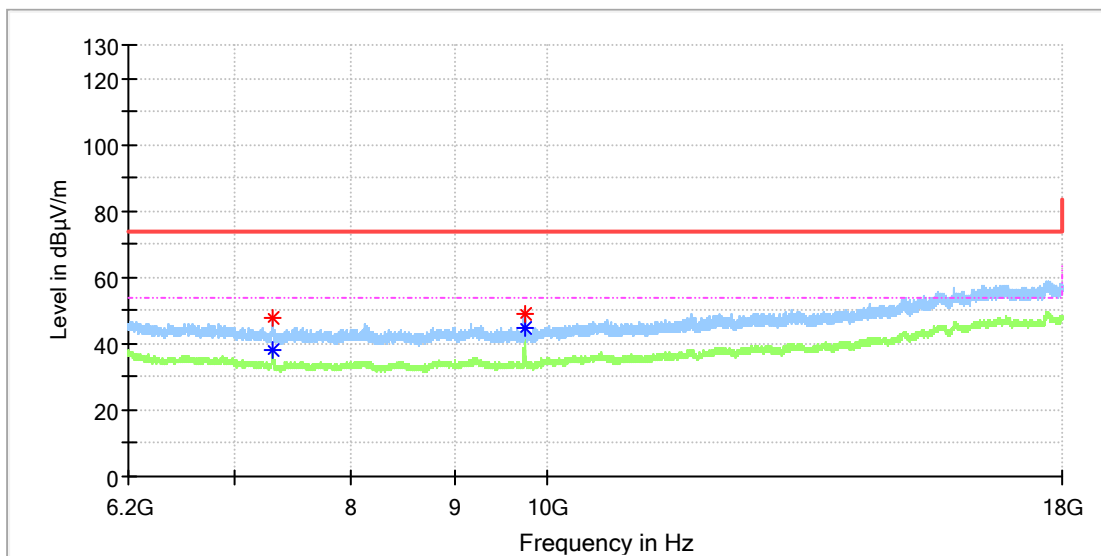


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7233.975000	---	36.55	54.00	17.45	100.0	V	121.0	8.6
7236.433333	45.87	---	74.00	28.13	100.0	V	261.0	8.6
9648.058333	49.00	---	74.00	25.00	100.0	V	232.0	10.4
9648.058333	---	42.38	54.00	11.62	100.0	V	232.0	10.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 6
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

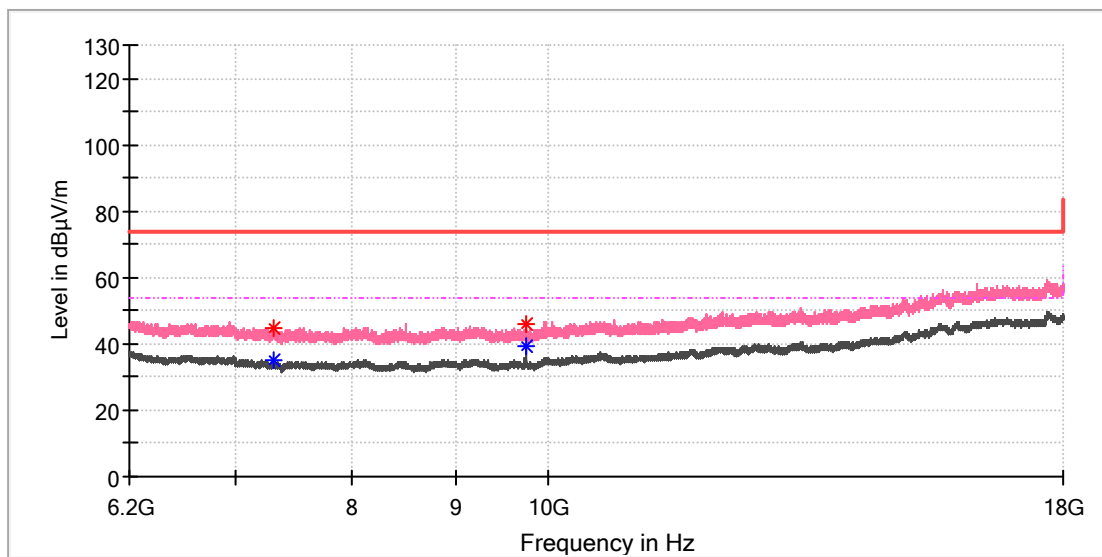


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7309.200000	47.84	---	74.00	26.16	100.0	H	320.0	8.2
7311.658333	---	37.83	54.00	16.17	100.0	H	320.0	8.2
9747.866667	---	44.52	54.00	9.48	100.0	H	119.0	10.4
9748.358333	49.14	---	74.00	24.86	100.0	H	119.0	10.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 6
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

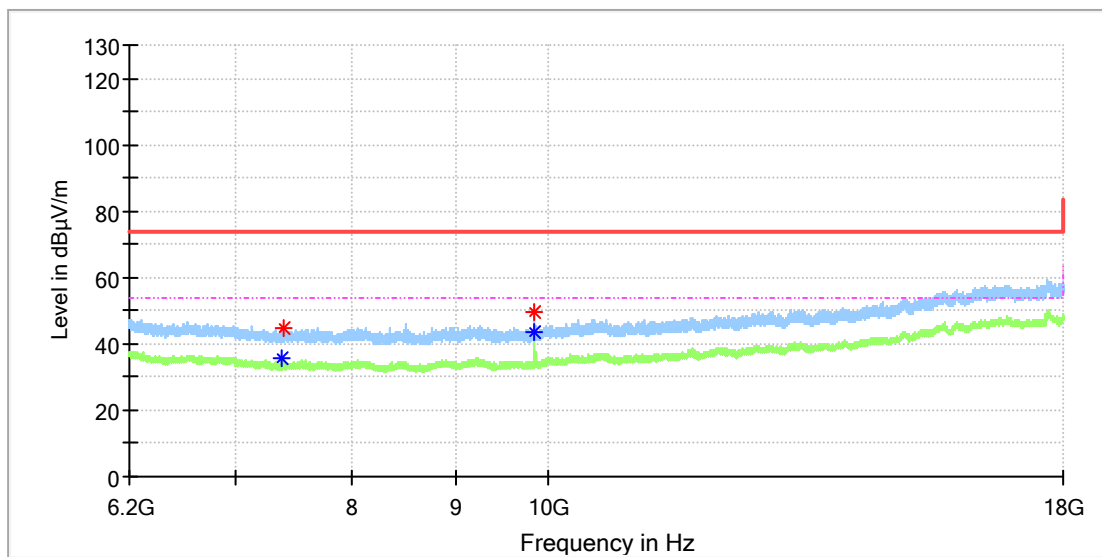


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7309.691667	---	35.26	54.00	18.74	100.0	V	160.0	8.2
7311.658333	44.50	---	74.00	29.50	100.0	V	36.0	8.2
9747.866667	46.20	---	74.00	27.80	100.0	V	282.0	10.4
9747.866667	---	39.31	54.00	14.69	100.0	V	282.0	10.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 11
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

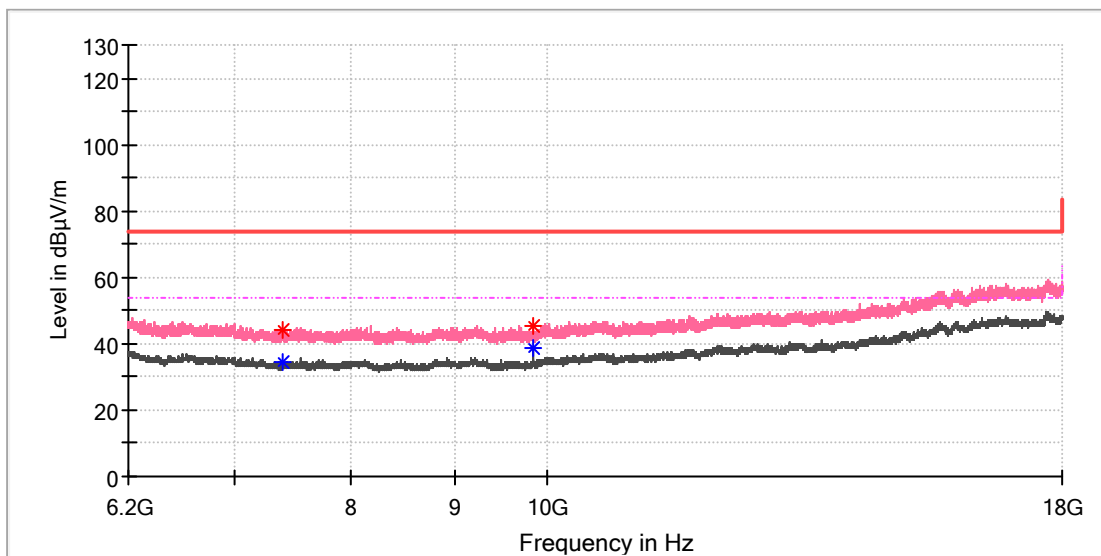


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7383.441667	---	35.66	54.00	18.34	100.0	H	315.0	8.2
7386.883333	44.76	---	74.00	29.24	100.0	H	315.0	8.2
9847.675000	49.56	---	74.00	24.44	100.0	H	107.0	10.6
9847.675000	---	43.49	54.00	10.51	100.0	H	107.0	10.6

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 11
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



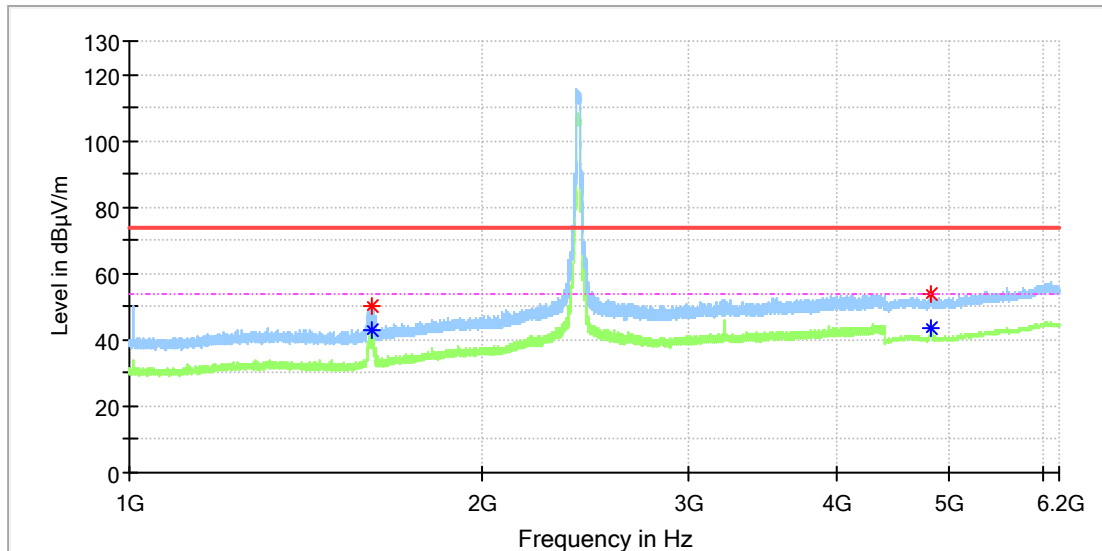
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7389.833333	---	34.58	54.00	19.42	100.0	V	338.0	8.2
7391.800000	43.96	---	74.00	30.04	100.0	V	1.0	8.3
9847.675000	45.60	---	74.00	28.40	100.0	V	40.0	10.6
9848.166667	---	38.44	54.00	15.56	100.0	V	180.0	10.6

Wi-Fi 802.11 g mode, 6Mbps
1GHz - 6.2GHz

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI2.4G_11g_CH 1
Test Voltage::	DC 3.3V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

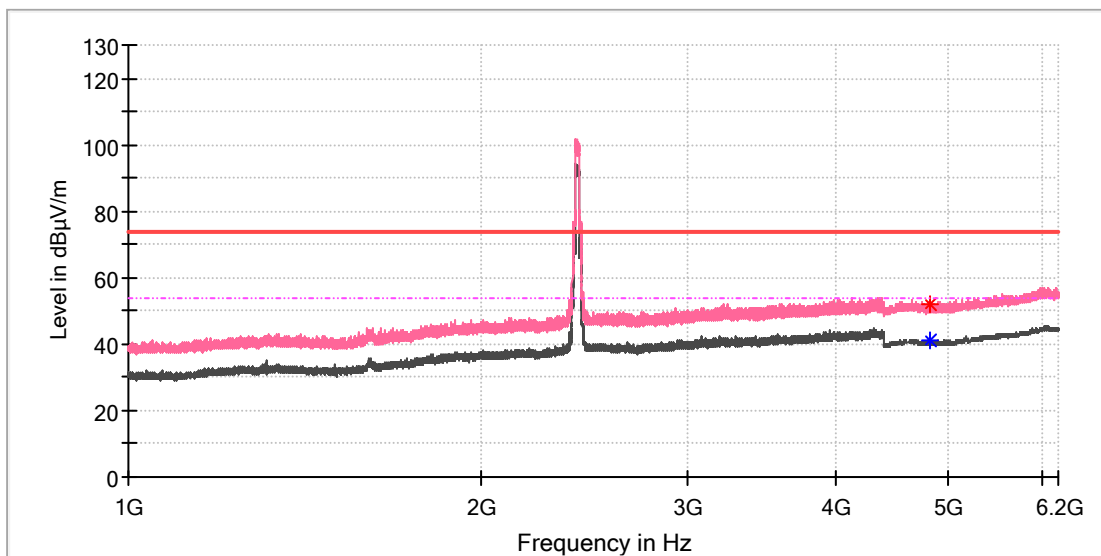


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1609.280000	50.06	---	74.00	23.94	100.0	H	222.0	2.2
1609.620000	---	42.93	54.00	11.07	100.0	H	222.0	2.2
4817.000000	53.83	---	74.00	20.17	100.0	H	150.0	11.8
4821.500000	---	43.38	54.00	10.62	100.0	H	272.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11g_CH 1
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

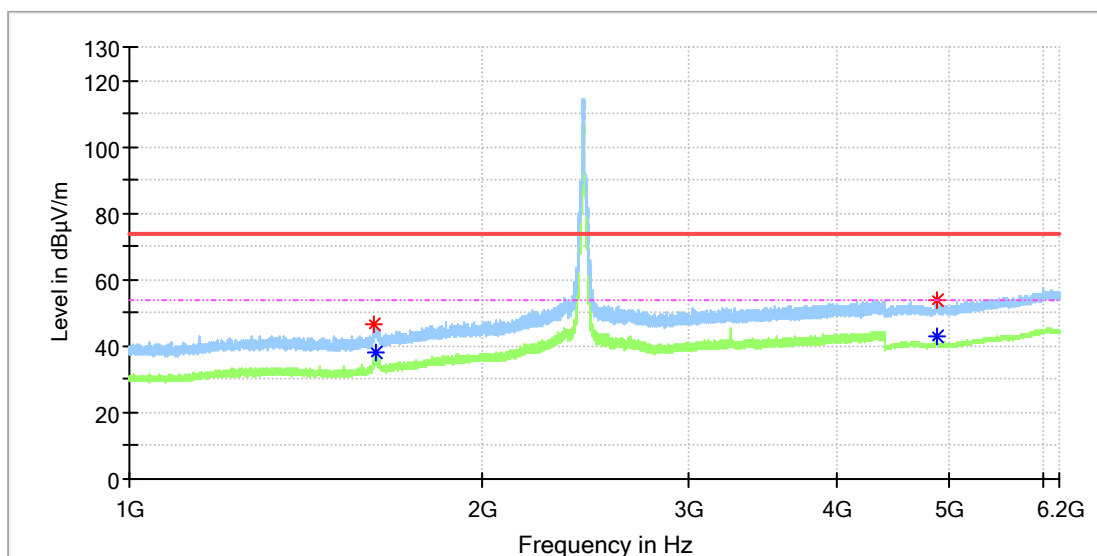


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4818.000000	---	41.20	54.00	12.80	100.0	V	257.0	11.8
4822.500000	51.95	---	74.00	22.05	100.0	V	251.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11g_CH 6
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

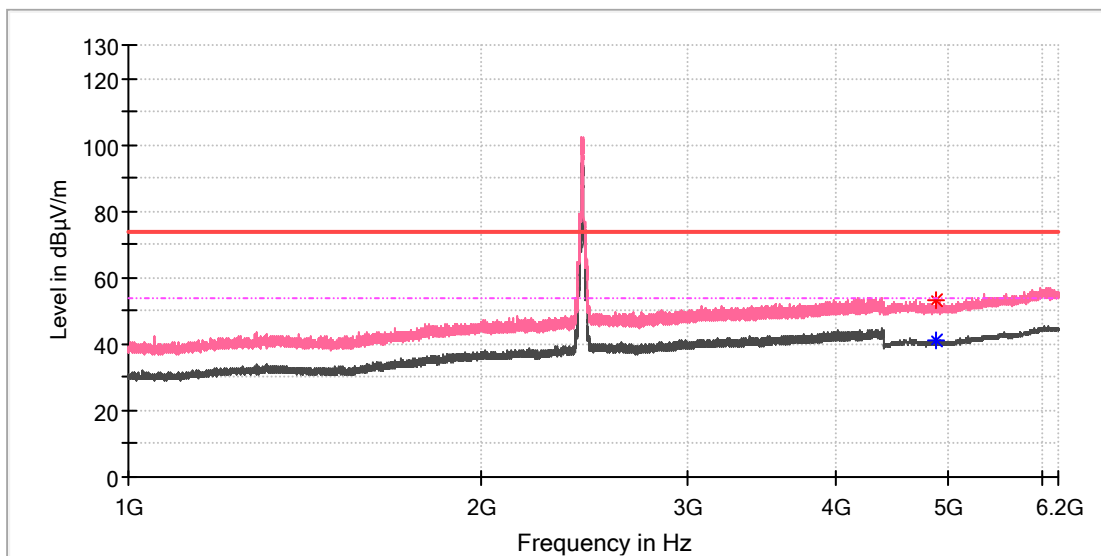


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1614.890000	46.31	---	74.00	27.69	100.0	H	231.0	2.2
1619.990000	---	38.25	54.00	15.75	100.0	H	231.0	2.3
4875.000000	---	43.14	54.00	10.86	100.0	H	310.0	11.8
4879.000000	53.88	---	74.00	20.12	100.0	H	268.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11g_CH 6
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

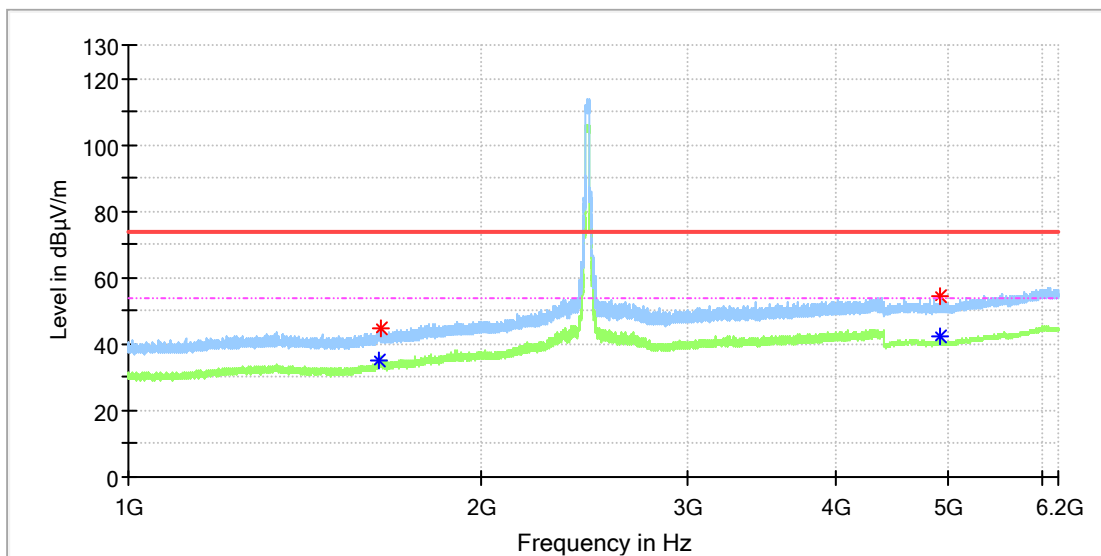


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	---	40.95	54.00	13.05	100.0	V	244.0	11.8
4877.000000	53.22	---	74.00	20.78	100.0	V	217.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11g_CH 11
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

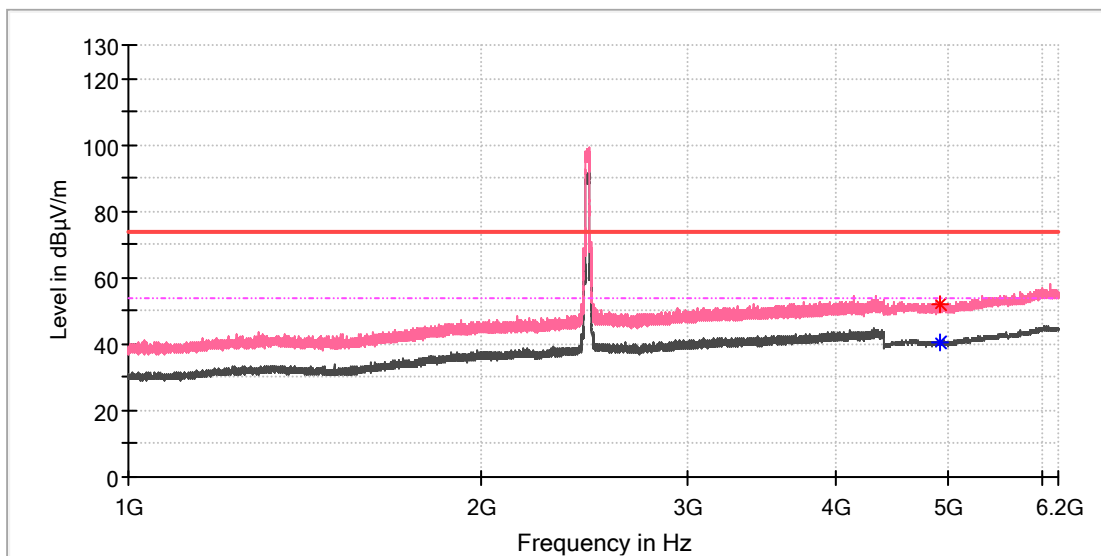


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1633.590000	---	35.36	54.00	18.64	100.0	H	219.0	2.4
1641.070000	44.47	---	74.00	29.53	100.0	H	240.0	2.5
4919.000000	---	42.49	54.00	11.51	100.0	H	170.0	11.8
4920.500000	54.23	---	74.00	19.77	100.0	H	163.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11g_CH 11
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin



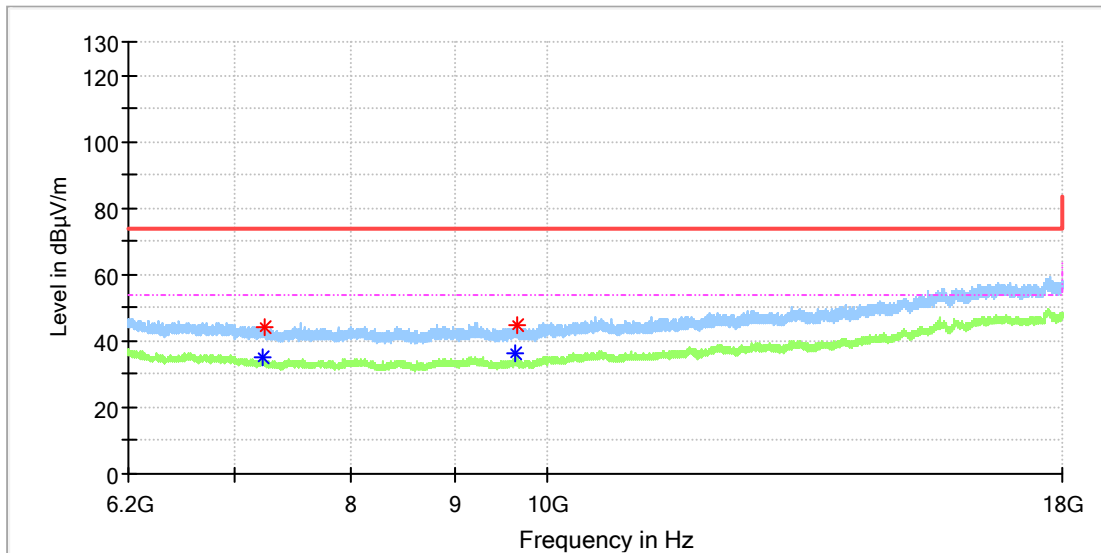
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4920.000000	51.96	---	74.00	22.04	100.0	V	242.0	11.8
4923.500000	---	40.64	54.00	13.36	100.0	V	279.0	11.8

6.2GHz - 18GHz

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11g_CH 1
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

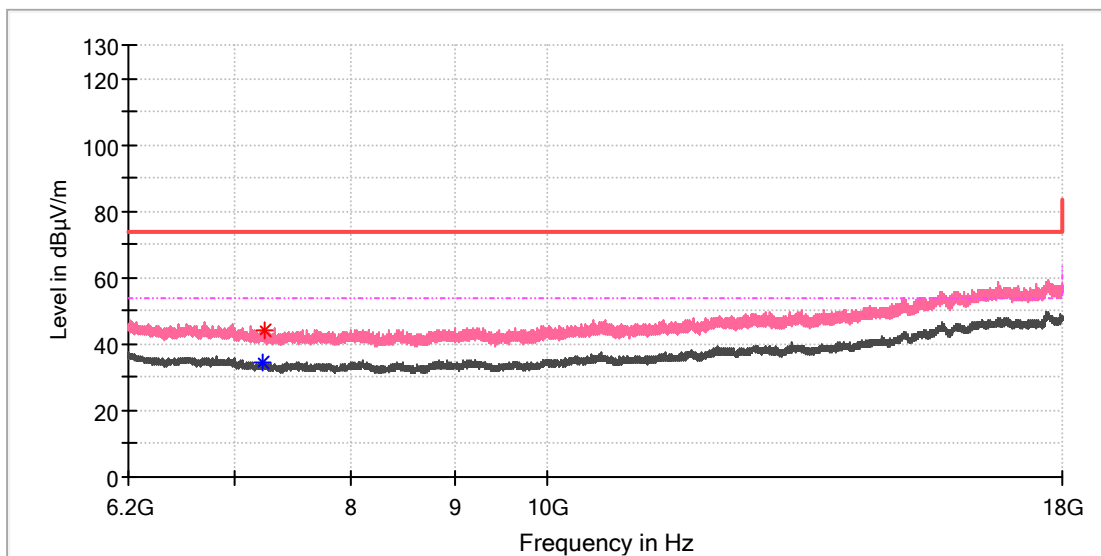


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7231.516667	---	35.30	54.00	18.70	100.0	H	312.0	8.6
7235.941667	44.16	---	74.00	29.84	100.0	H	312.0	8.6
9647.566667	---	36.14	54.00	17.86	100.0	H	101.0	10.4
9655.925000	44.45	---	74.00	29.55	100.0	H	101.0	10.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11g_CH 1
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

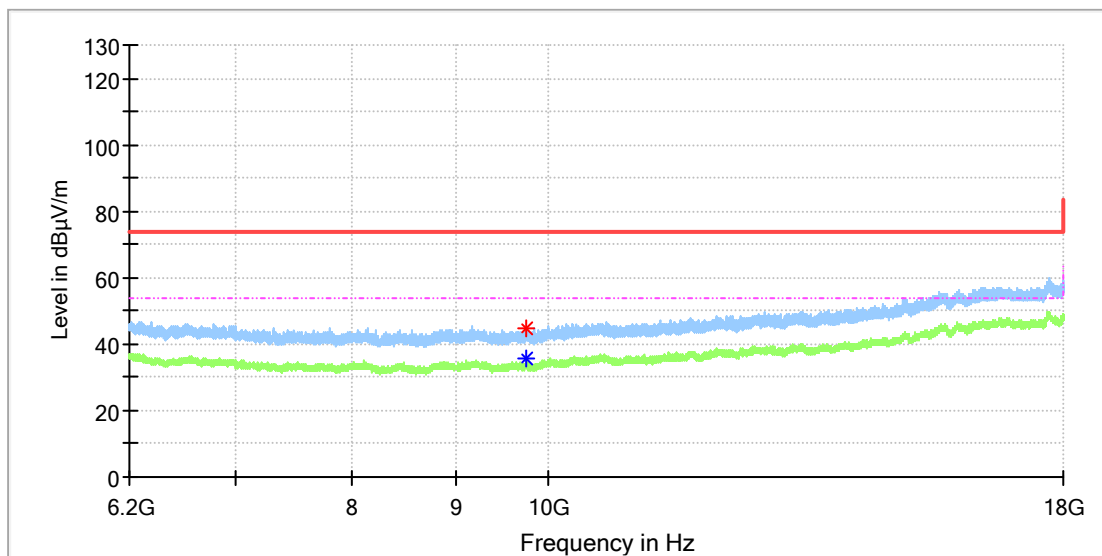


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7231.516667	---	34.64	54.00	19.36	100.0	V	64.0	8.6
7241.350000	44.02	---	74.00	29.98	100.0	V	151.0	8.6

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11g_CH 6
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

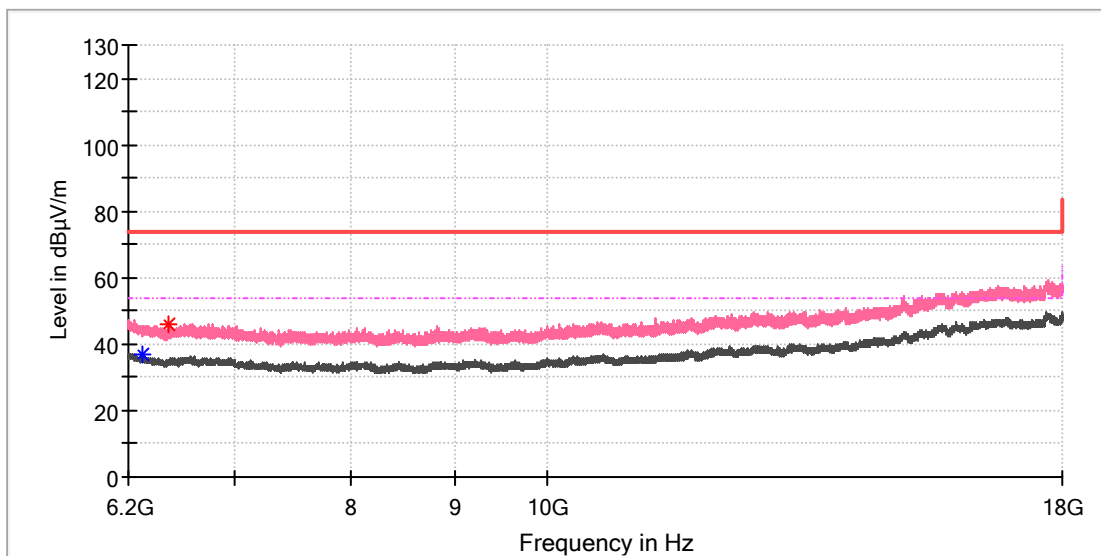


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9743.441667	---	35.97	54.00	18.03	100.0	H	109.0	10.4
9748.850000	44.83	---	74.00	29.17	100.0	H	109.0	10.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11g_CH 6
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

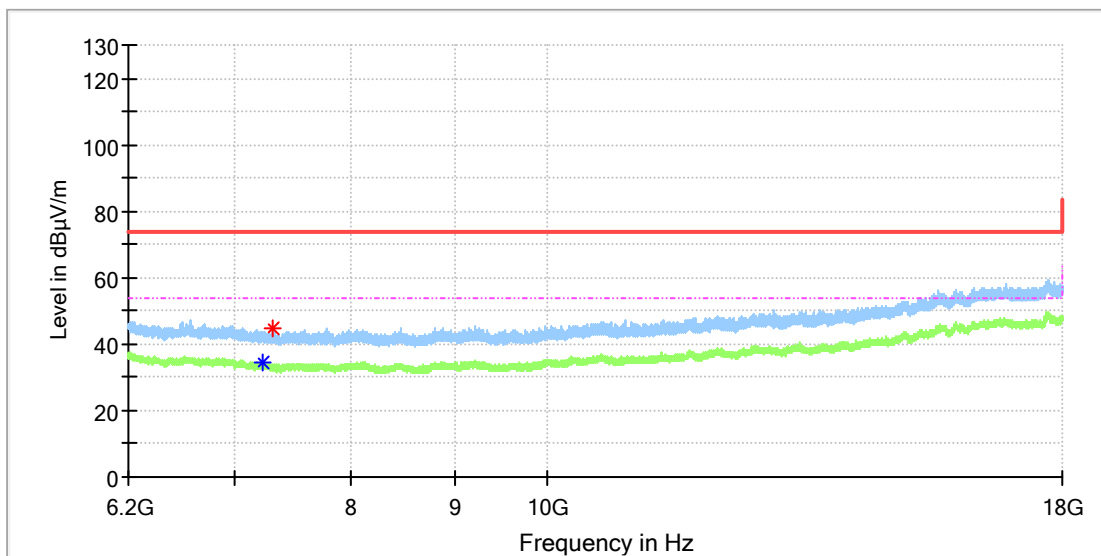


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6302.758333	---	36.97	54.00	17.03	100.0	V	263.0	9.2
6492.050000	45.91	---	74.00	28.09	100.0	V	220.0	8.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11g_CH 11
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

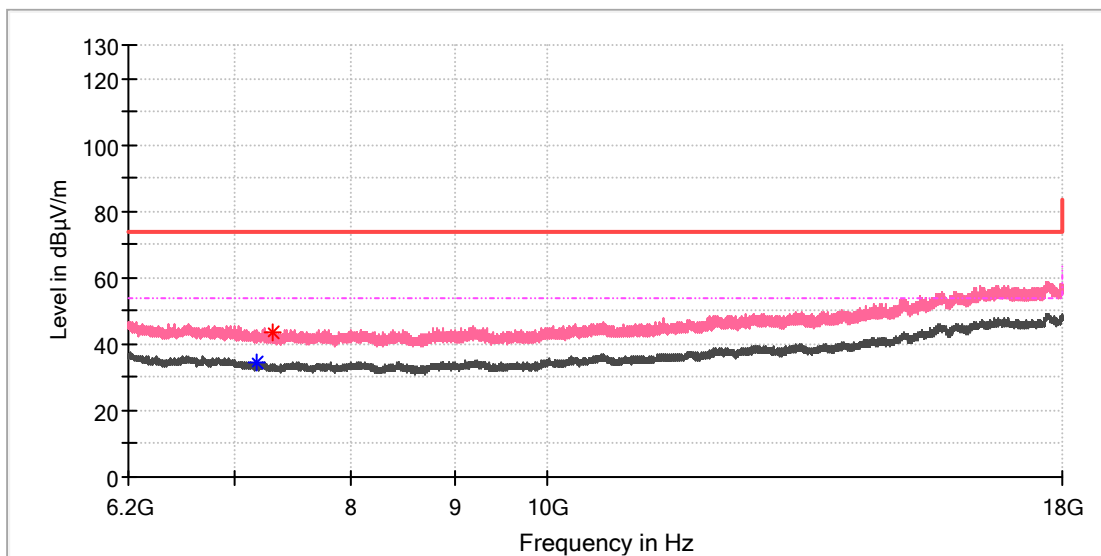


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7232.008333	---	34.23	54.00	19.77	100.0	H	49.0	8.6
7309.691667	44.77	---	74.00	29.23	100.0	H	342.0	8.2

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11g_CH 11
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin



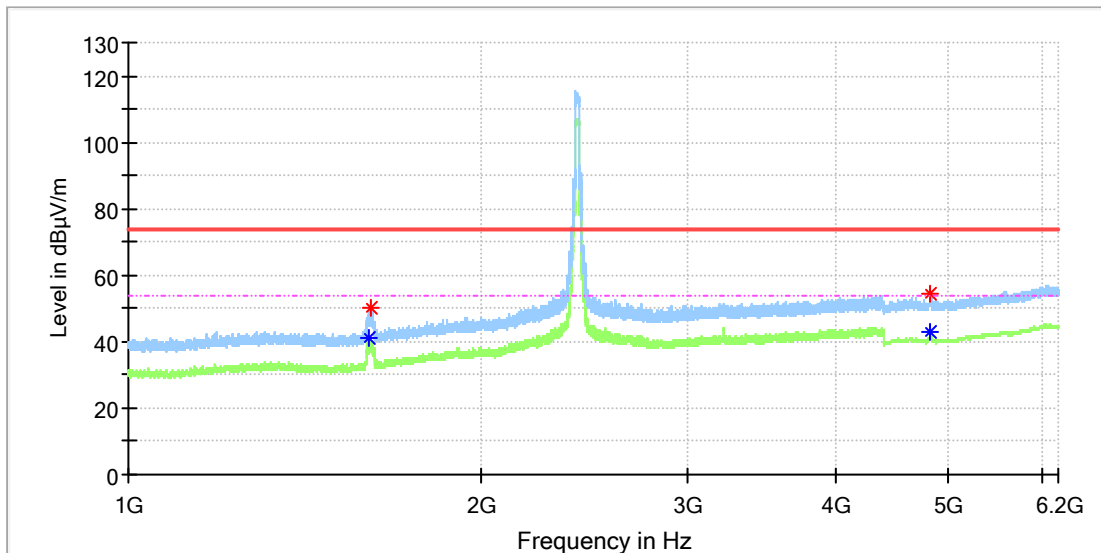
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7177.925000	---	34.64	54.00	19.36	100.0	V	293.0	8.8
7301.825000	43.42	---	74.00	30.58	100.0	V	278.0	8.3

**Wi-Fi 802.11 n(HT20) mode, MCS0
1GHz - 6.2GHz**

EUT Information

EUT Name: LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n20_CH 1
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

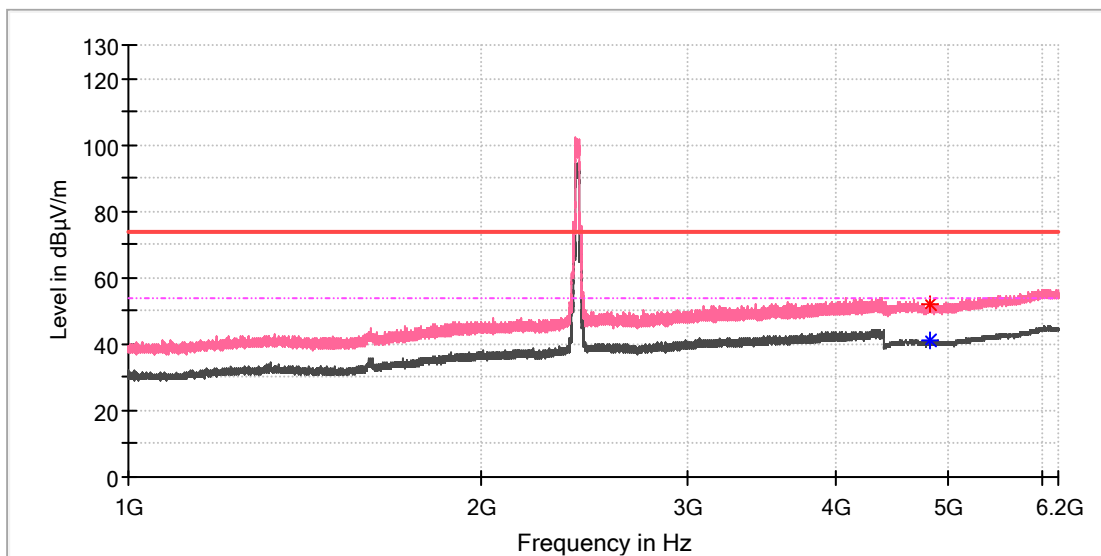


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1604.860000	---	41.01	54.00	12.99	100.0	H	221.0	2.1
1611.150000	50.39	---	74.00	23.61	100.0	H	221.0	2.2
4819.500000	---	42.99	54.00	11.01	100.0	H	331.0	11.8
4821.500000	54.69	---	74.00	19.31	100.0	H	271.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n20_CH 1
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

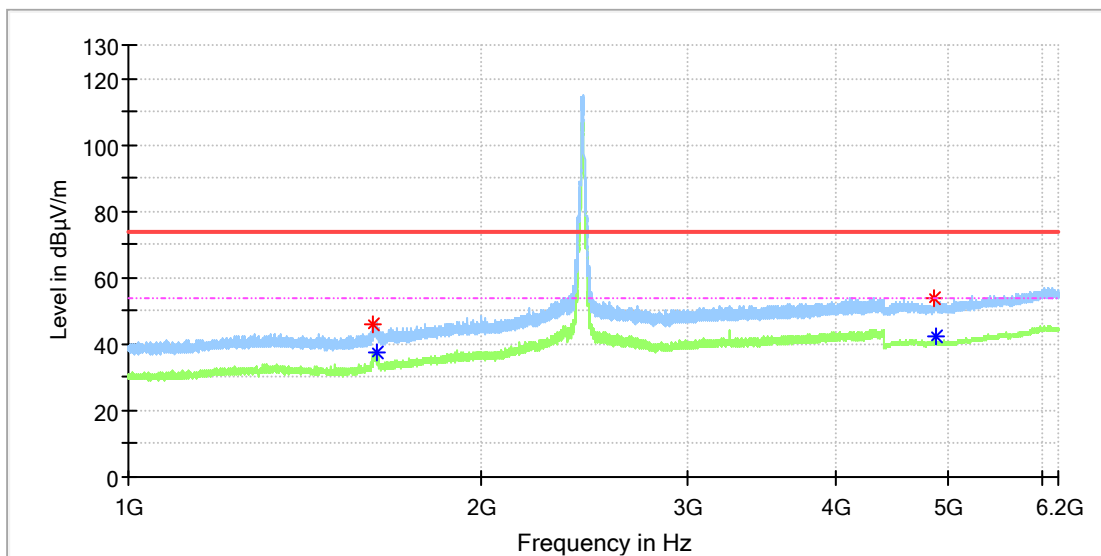


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4815.000000	52.21	---	74.00	21.79	100.0	V	287.0	11.8
4819.500000	---	41.02	54.00	12.98	100.0	V	244.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n20_CH 6
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

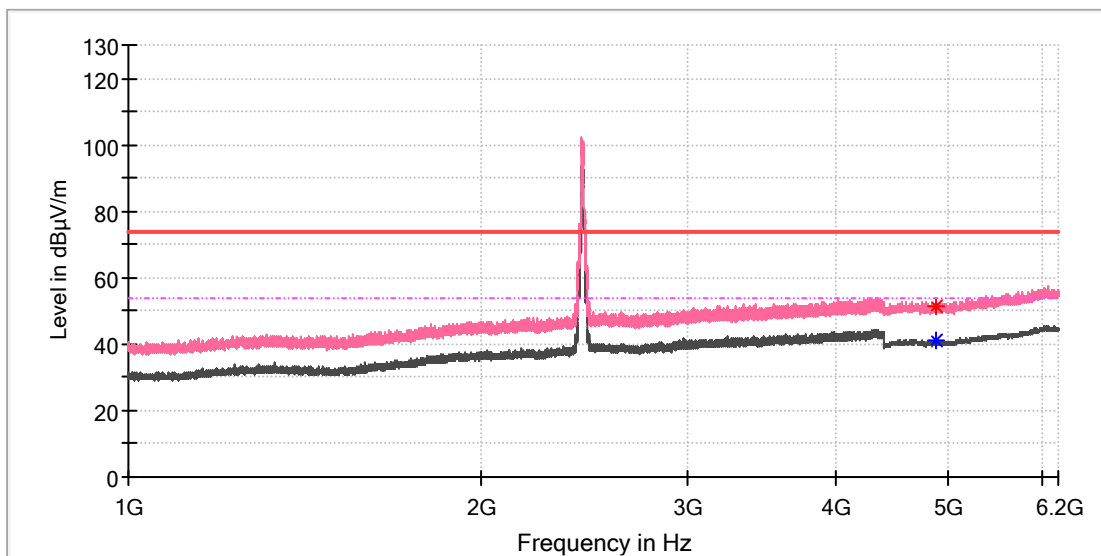


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1616.250000	46.15	---	74.00	27.85	100.0	H	227.0	2.3
1626.620000	---	37.77	54.00	16.24	100.0	H	227.0	2.4
4866.500000	53.54	---	74.00	20.46	100.0	H	302.0	11.8
4877.500000	---	42.57	54.00	11.43	100.0	H	302.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n20_CH 6
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

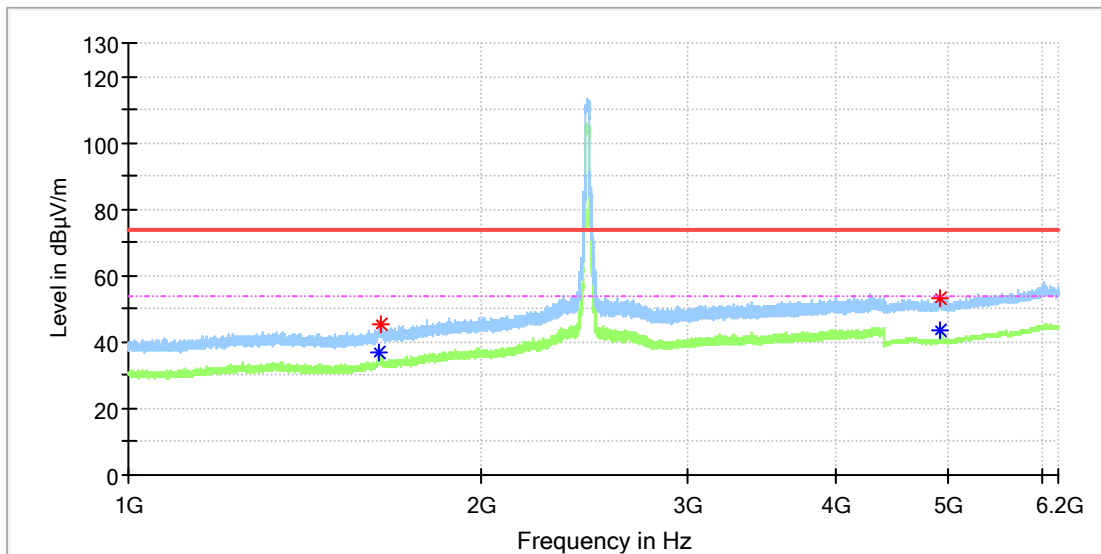


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4877.500000	---	41.17	54.00	12.83	100.0	V	249.0	11.8
4879.500000	51.28	---	74.00	22.72	100.0	V	341.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n20_CH 11
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

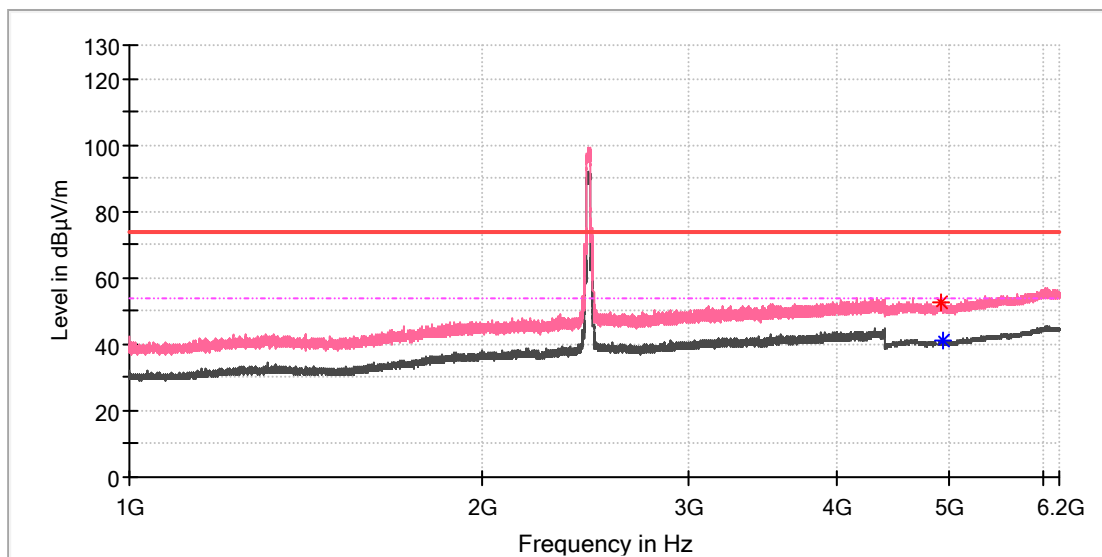


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1634.100000	---	36.85	54.00	17.15	100.0	H	223.0	2.4
1638.690000	45.42	---	74.00	28.58	100.0	H	212.0	2.5
4919.000000	---	43.38	54.00	10.62	100.0	H	150.0	11.8
4923.500000	53.47	---	74.00	20.53	100.0	H	150.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n20_CH 11
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



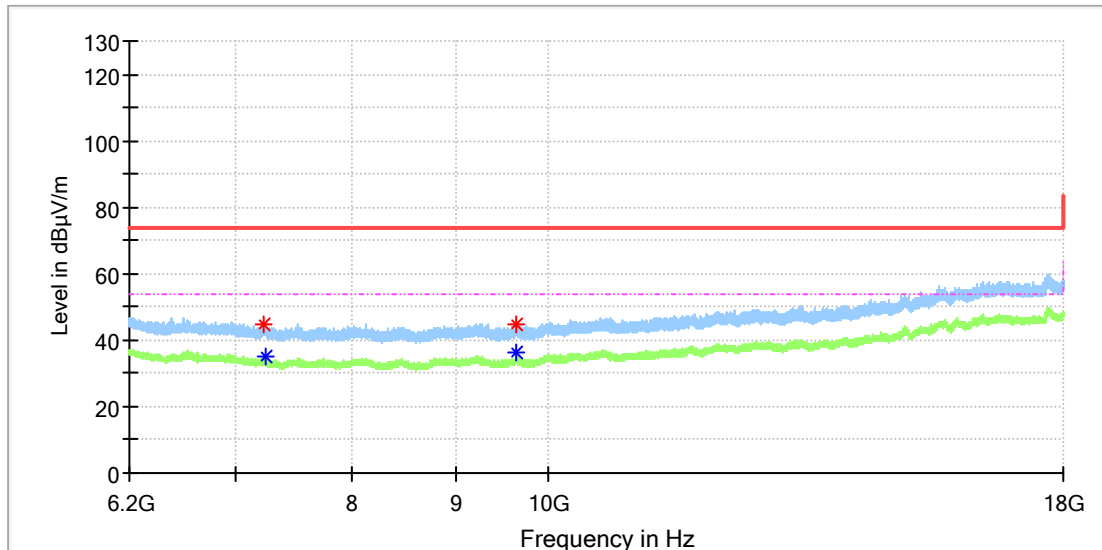
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4920.000000	52.35	---	74.00	21.65	100.0	V	257.0	11.8
4930.500000	---	41.19	54.00	12.81	100.0	V	250.0	11.8

6.2GHz - 18GHz

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n20_CH 1
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

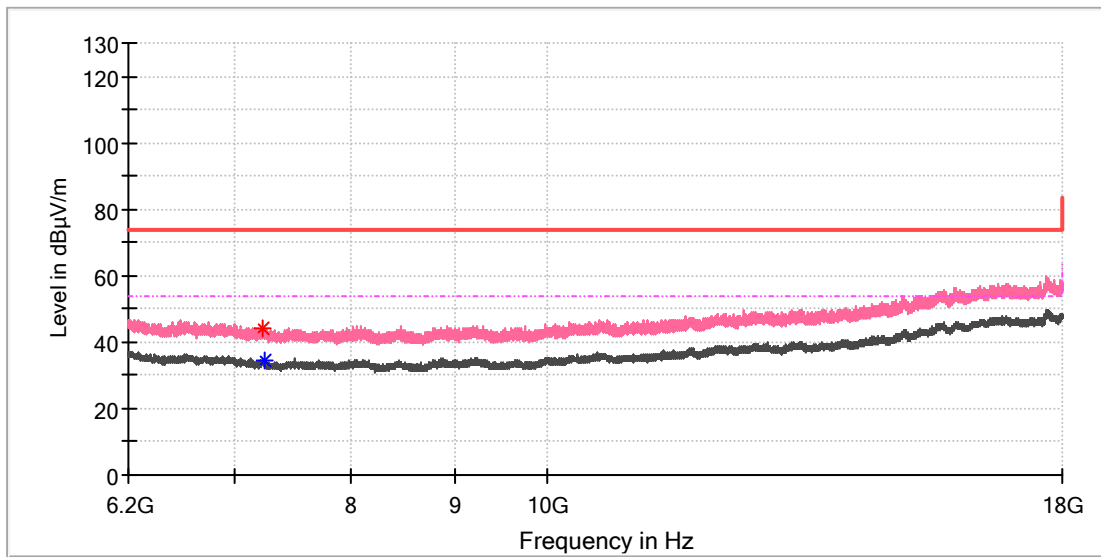


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7230.041667	44.92	---	74.00	29.08	100.0	H	293.0	8.6
7236.925000	---	35.14	54.00	18.86	100.0	H	308.0	8.6
9643.141667	---	36.50	54.00	17.50	100.0	H	103.0	10.4
9649.533333	44.51	---	74.00	29.49	100.0	H	103.0	10.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n20_CH 1
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

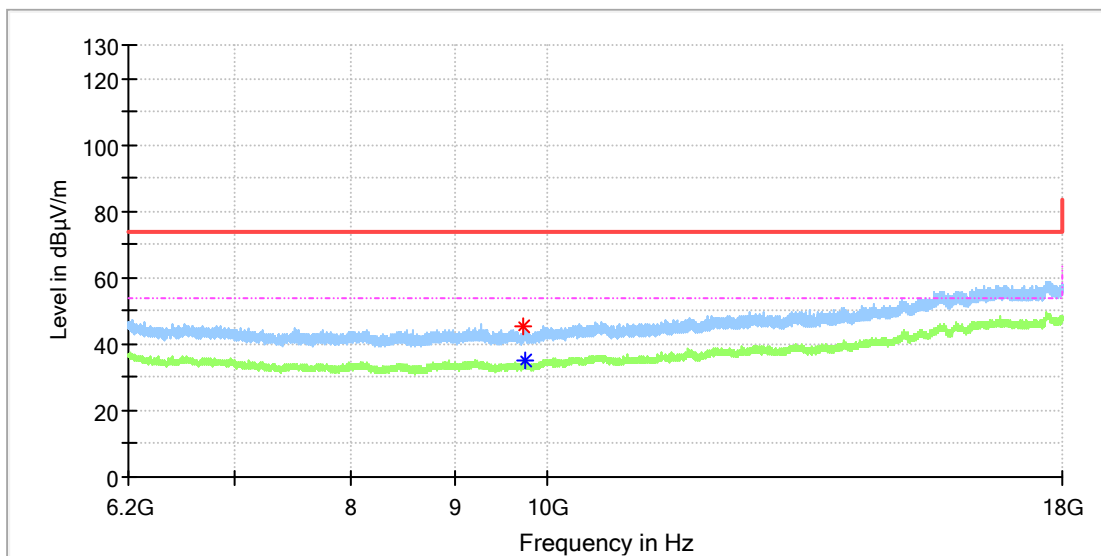


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7228.566667	44.27	---	74.00	29.73	100.0	V	125.0	8.6
7236.925000	---	34.69	54.00	19.31	100.0	V	294.0	8.6

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n20_CH 6
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

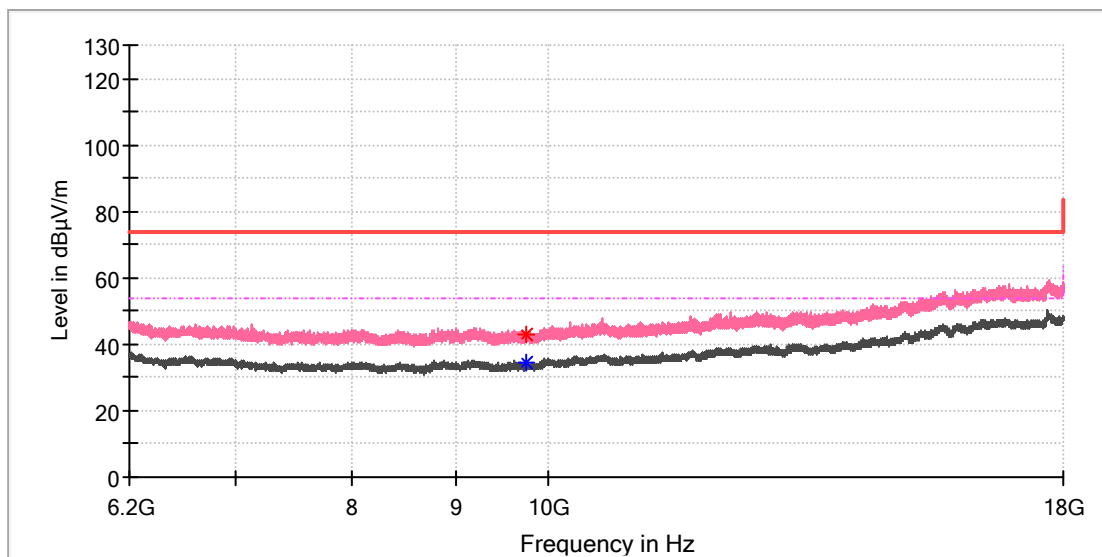


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9729.183333	45.38	---	74.00	28.62	100.0	H	97.0	10.4
9746.391667	---	35.12	54.00	18.88	100.0	H	110.0	10.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n20_CH 6
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

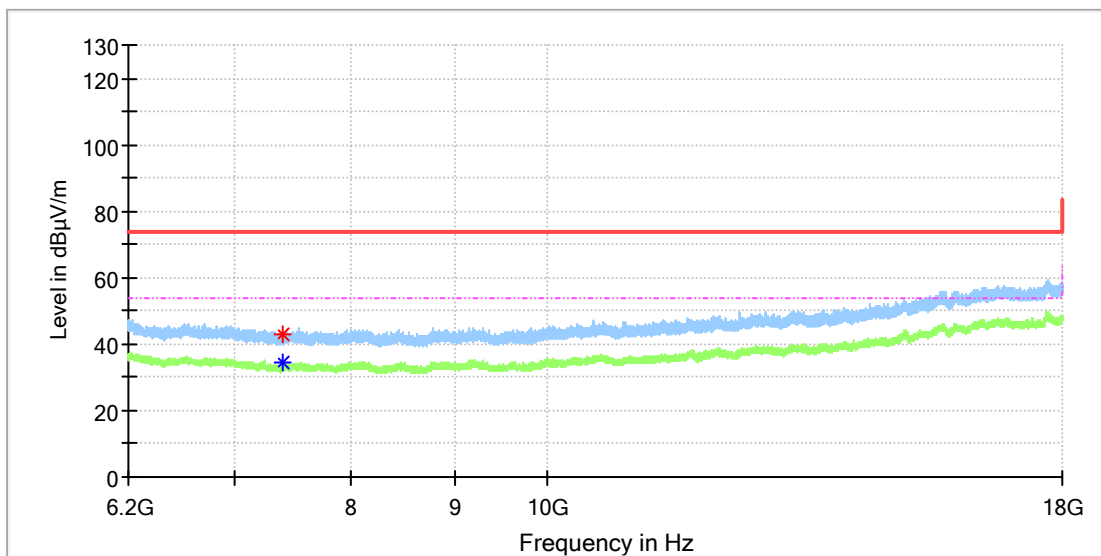


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9745.900000	---	34.59	54.00	19.41	100.0	V	143.0	10.4
9751.308333	43.11	---	74.00	30.89	100.0	V	32.0	10.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n20_CH 11
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

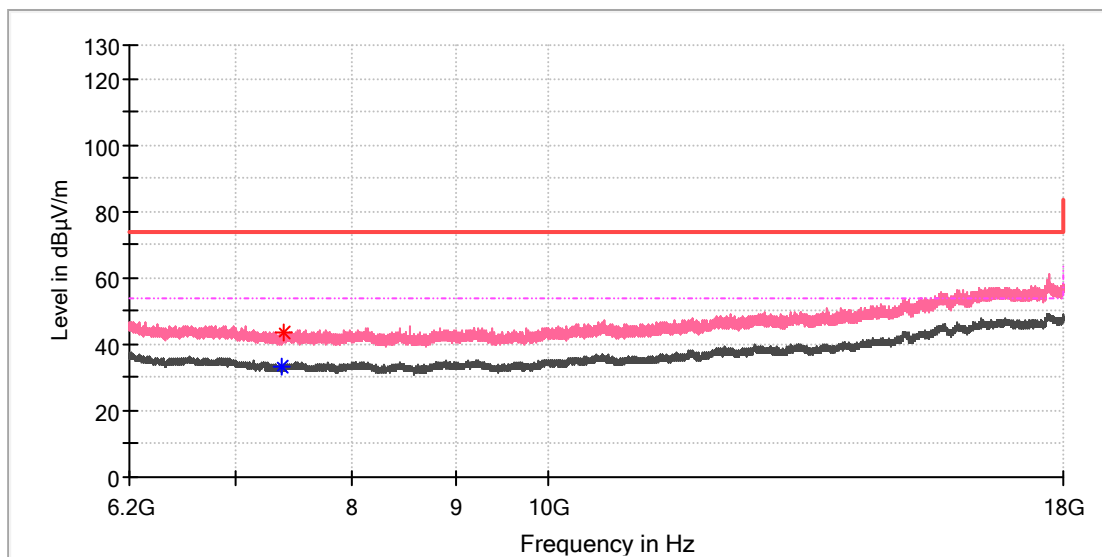


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7393.275000	43.23	---	74.00	30.77	100.0	H	16.0	8.3
7393.275000	---	34.18	54.00	19.82	100.0	H	16.0	8.3

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n20_CH 11
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin



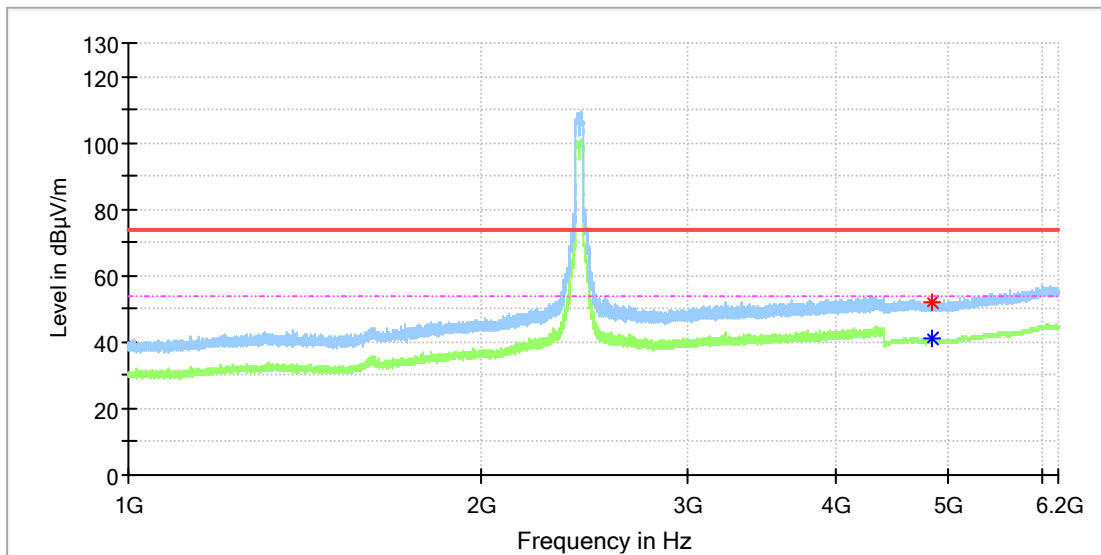
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7384.916667	---	33.50	54.00	20.50	100.0	V	0.0	8.2
7397.700000	43.44	---	74.00	30.56	100.0	V	357.0	8.3

**Wi-Fi 802.11 n(HT40) mode, MCS0
1GHz - 6.2GHz**

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI2.4G_11n40_CH 3
Test Voltage:	DC 3.3V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin

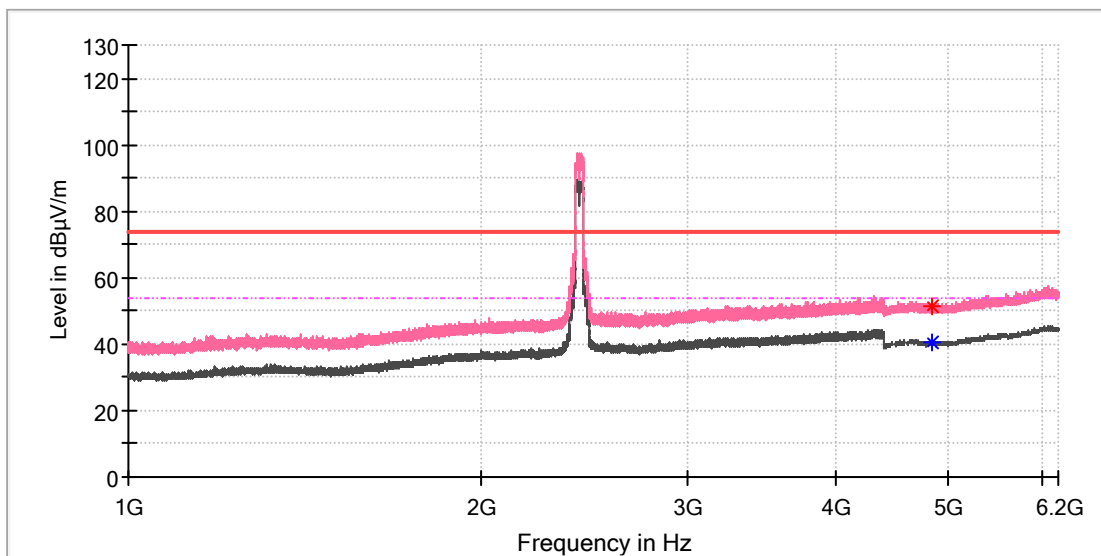


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4844.000000	---	41.25	54.00	12.75	100.0	H	224.0	11.8
4845.500000	52.04	---	74.00	21.96	100.0	H	35.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n40_CH 3
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

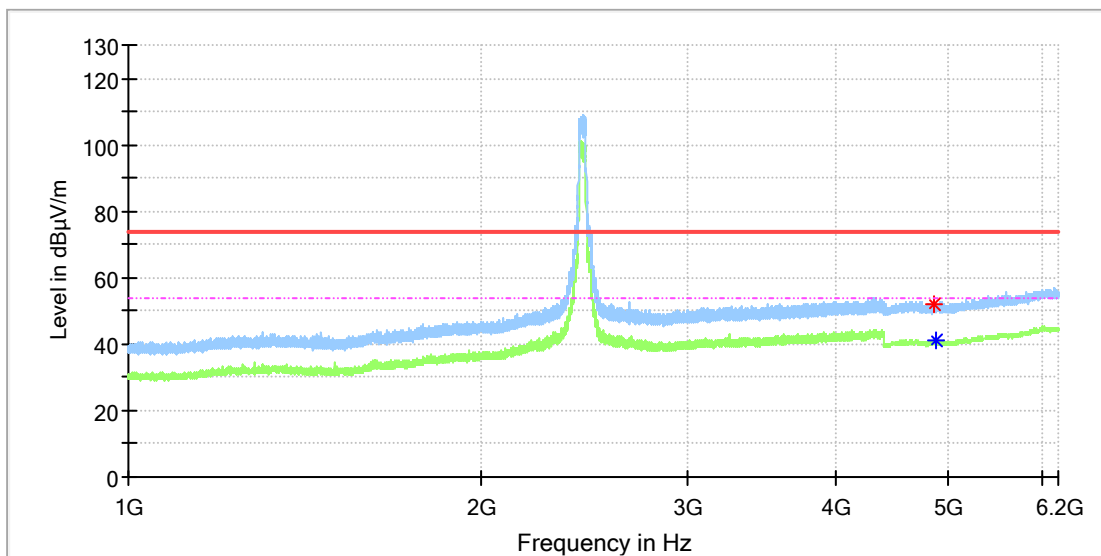


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4844.500000	---	40.32	54.00	13.68	100.0	V	55.0	11.8
4845.000000	51.67	---	74.00	22.33	100.0	V	48.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n40_CH 6
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

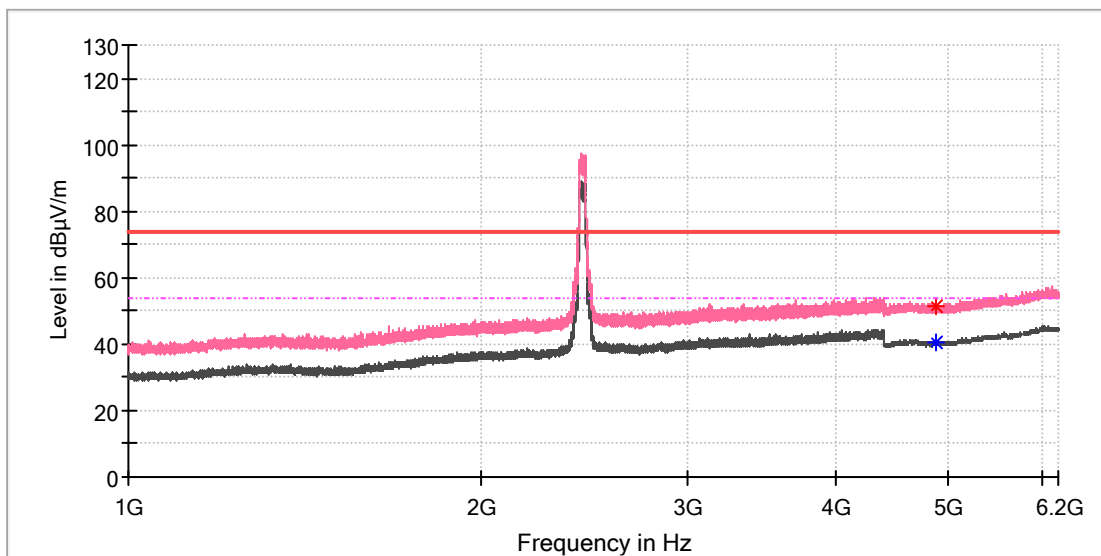


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4868.000000	52.11	---	74.00	21.89	100.0	H	121.0	11.8
4874.500000	---	41.10	54.00	12.90	100.0	H	148.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n40_CH 6
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

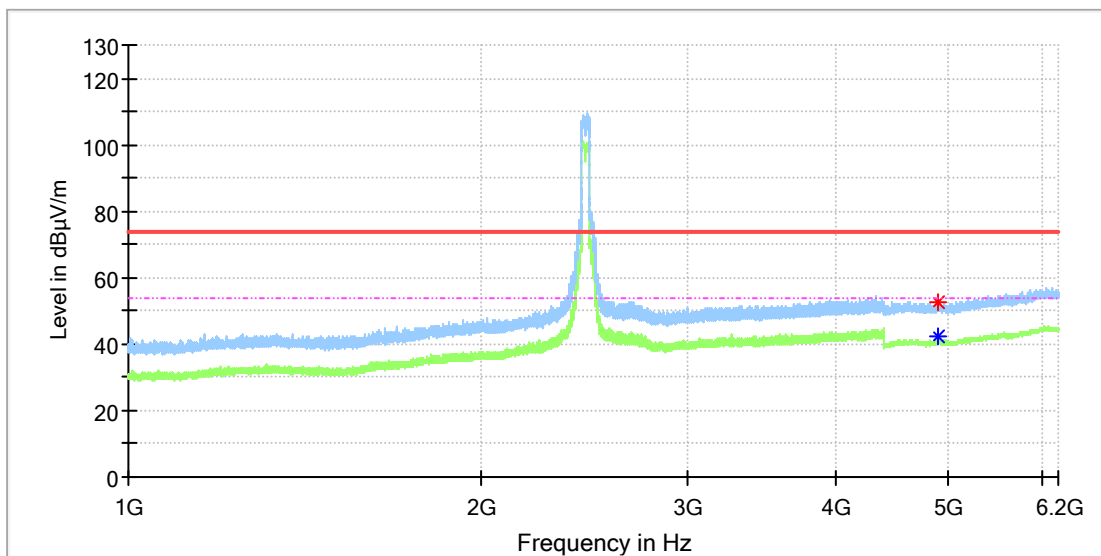


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	51.19	---	74.00	22.81	100.0	V	44.0	11.8
4875.000000	---	40.44	54.00	13.56	100.0	V	158.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n40_CH 9
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

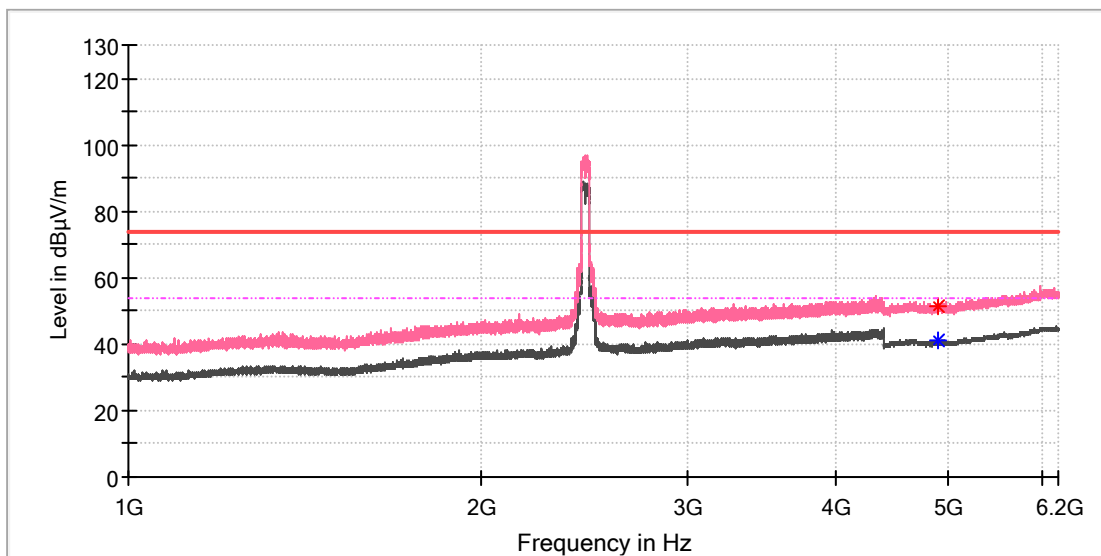


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4901.500000	52.56	---	74.00	21.44	100.0	H	314.0	11.8
4904.000000	---	42.11	54.00	11.89	100.0	H	314.0	11.8

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n40_CH 9
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin



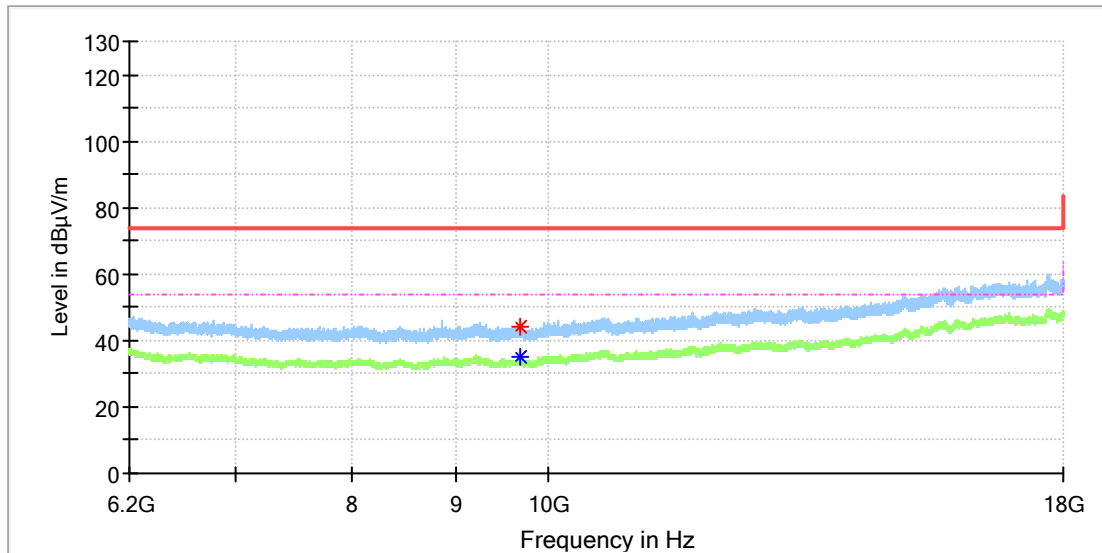
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4904.500000	---	40.96	54.00	13.04	100.0	V	237.0	11.8
4906.500000	51.43	---	74.00	22.57	100.0	V	294.0	11.8

6.2GHz - 18GHz

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n40_CH 3
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

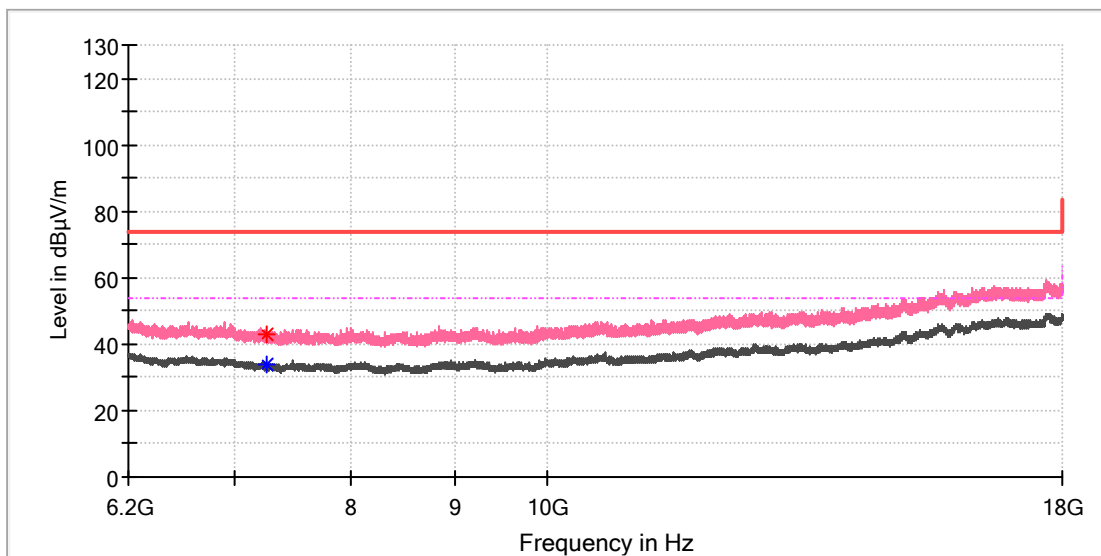


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9687.391667	---	35.14	54.00	18.86	100.0	H	92.0	10.4
9694.766667	43.96	---	74.00	30.04	100.0	H	247.0	10.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n40_CH 3
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

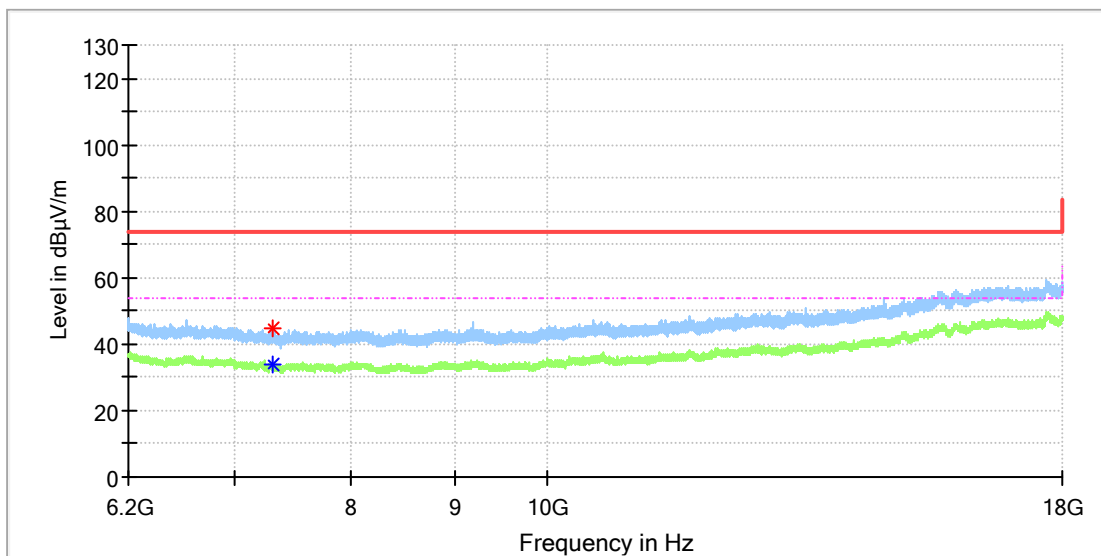


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7263.475000	42.75	---	74.00	31.25	100.0	V	20.0	8.5
7265.441667	---	33.75	54.00	20.25	100.0	V	128.0	8.5

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n40_CH 6
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

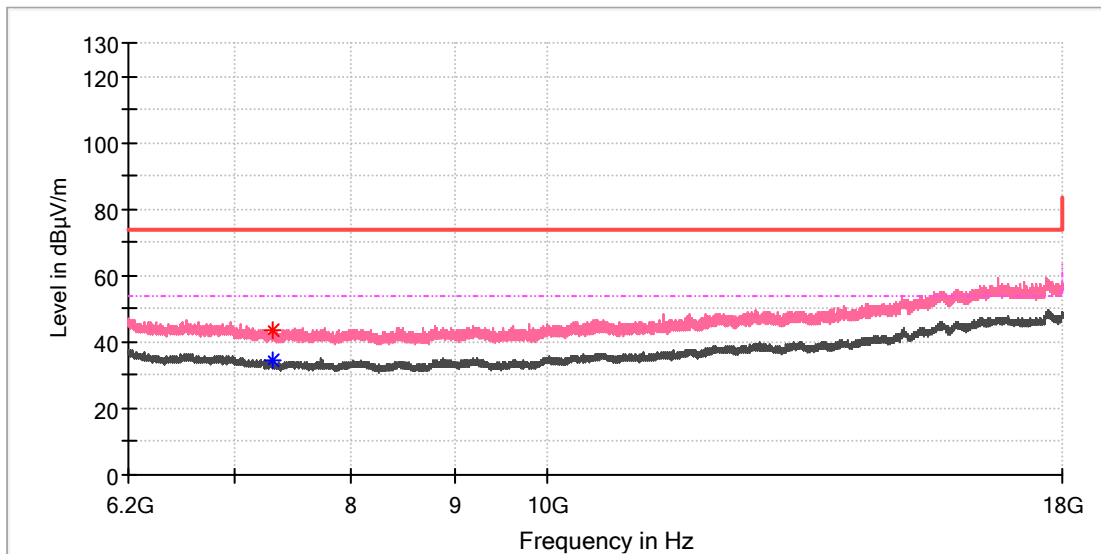


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7309.691667	45.02	---	74.00	28.98	100.0	H	52.0	8.2
7310.183333	---	34.09	54.00	19.91	100.0	H	307.0	8.2

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI2.4G_11n40_CH 6
Test Voltage::	DC 3.3V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin

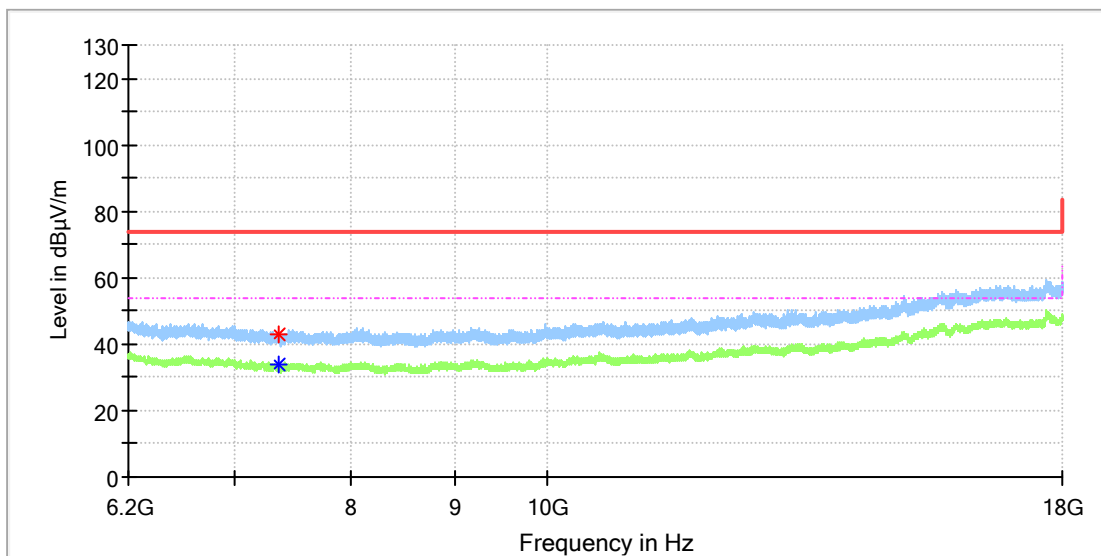


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7312.150000	---	34.24	54.00	19.76	100.0	V	194.0	8.2
7317.558333	43.62	---	74.00	30.38	100.0	V	235.0	8.2

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n40_CH 9
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

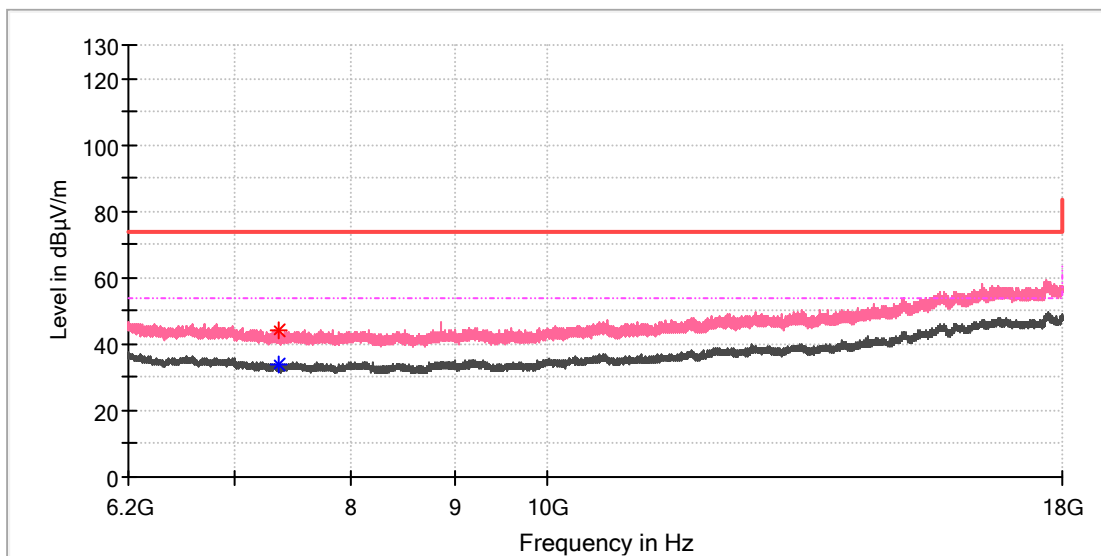


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7352.466667	43.01	---	74.00	30.99	100.0	H	108.0	8.1
7360.825000	---	33.71	54.00	20.29	100.0	H	66.0	8.2

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n40_CH 9
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin



Critical Freqs

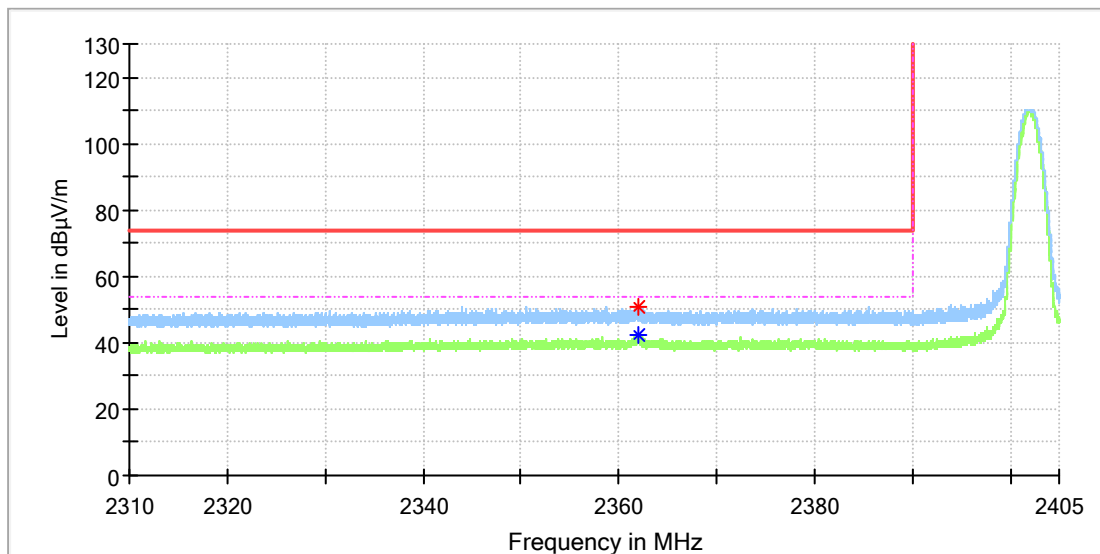
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7353.941667	---	33.74	54.00	20.26	100.0	V	138.0	8.1
7357.383333	43.95	---	74.00	30.05	100.0	V	138.0	8.1

Appendix C.2: 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 3.3V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

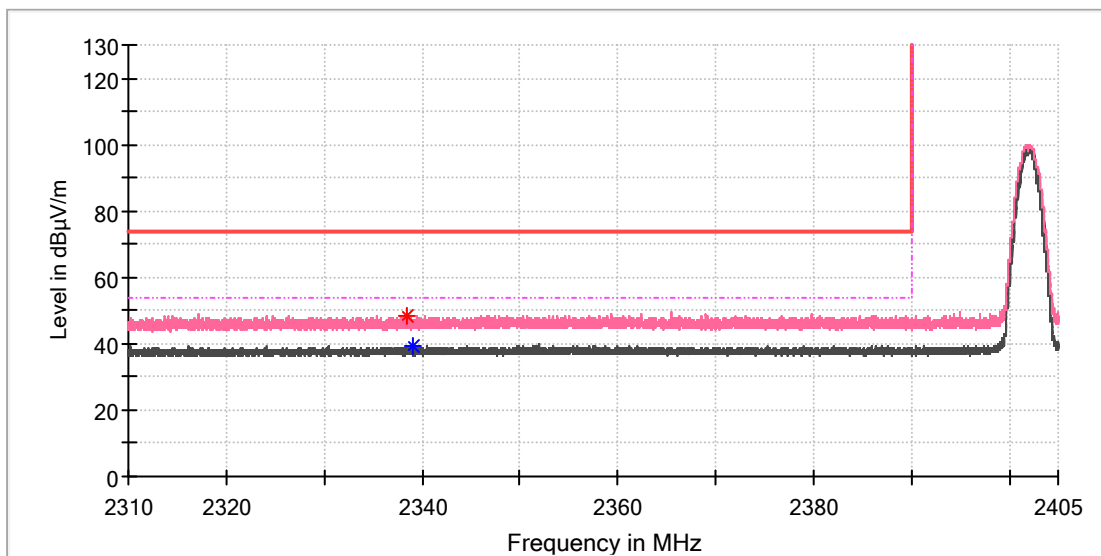


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2362.012500	---	42.07	54.00	11.93	100.0	H	0.0	6.9
2362.088500	51.00	---	74.00	23.00	100.0	H	0.0	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 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



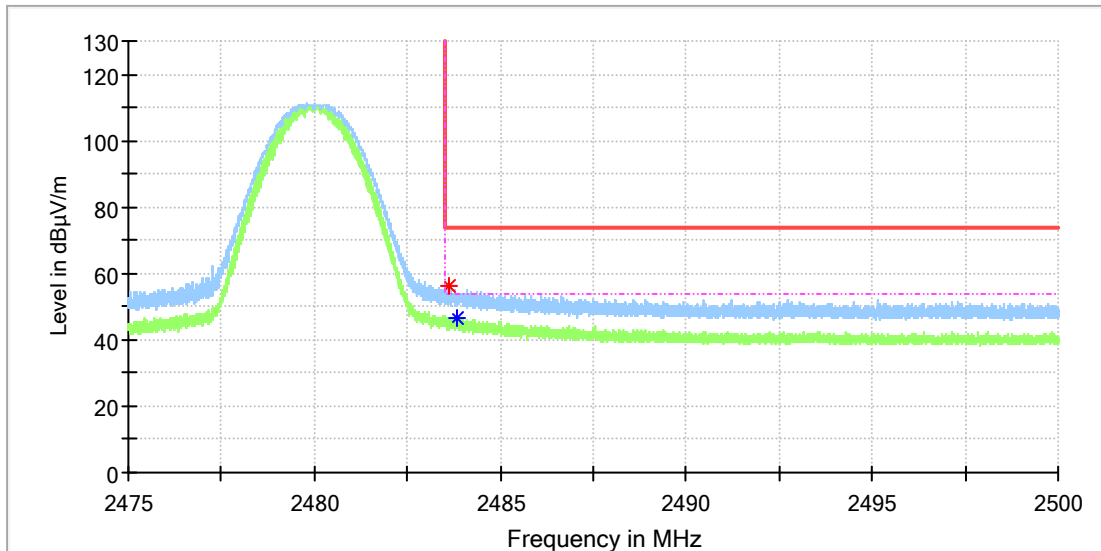
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2338.476250	48.52	---	74.00	25.48	100.0	V	234.0	6.8
2339.055750	---	39.08	54.00	14.92	100.0	V	143.0	6.8

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 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

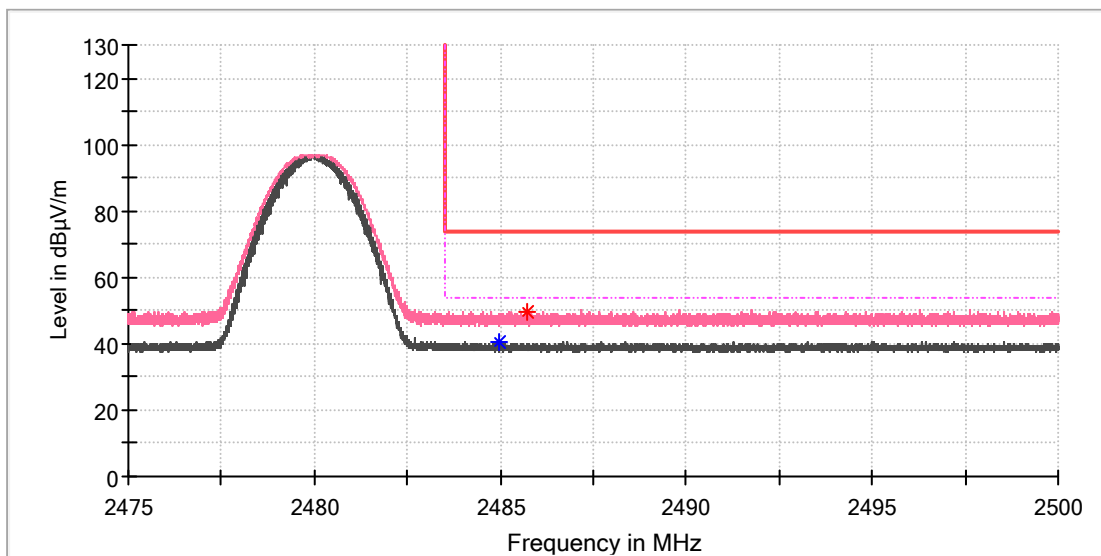


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.632500	56.08	---	74.00	17.92	100.0	H	172.0	7.4
2483.818750	---	46.65	54.00	7.35	100.0	H	182.0	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 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



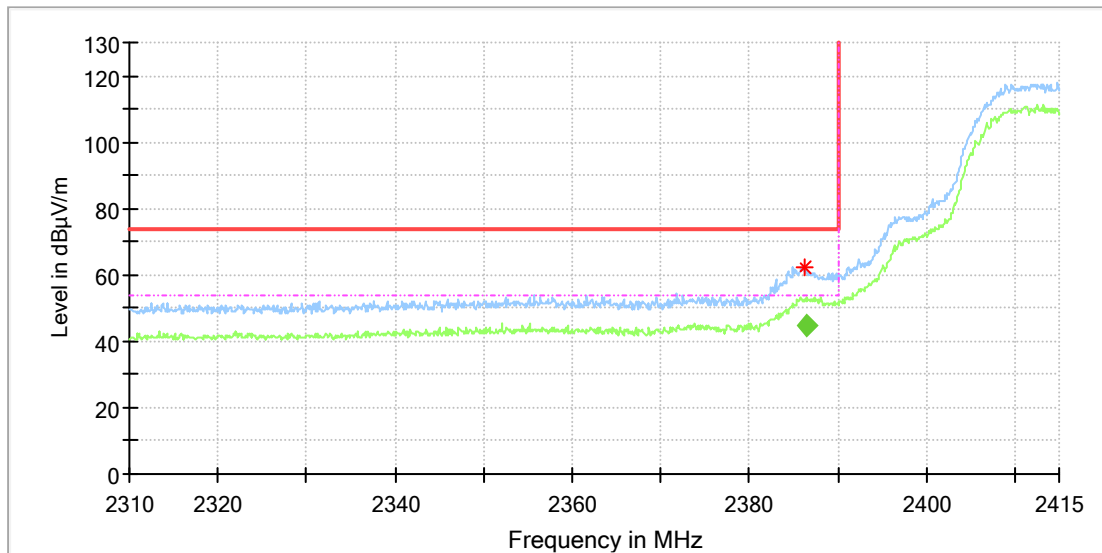
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.972500	---	40.53	54.00	13.47	100.0	V	104.0	7.4
2485.712500	49.72	---	74.00	24.28	100.0	V	236.0	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: WIFI2.4G_11b_CH 1
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin



Critical Freqs

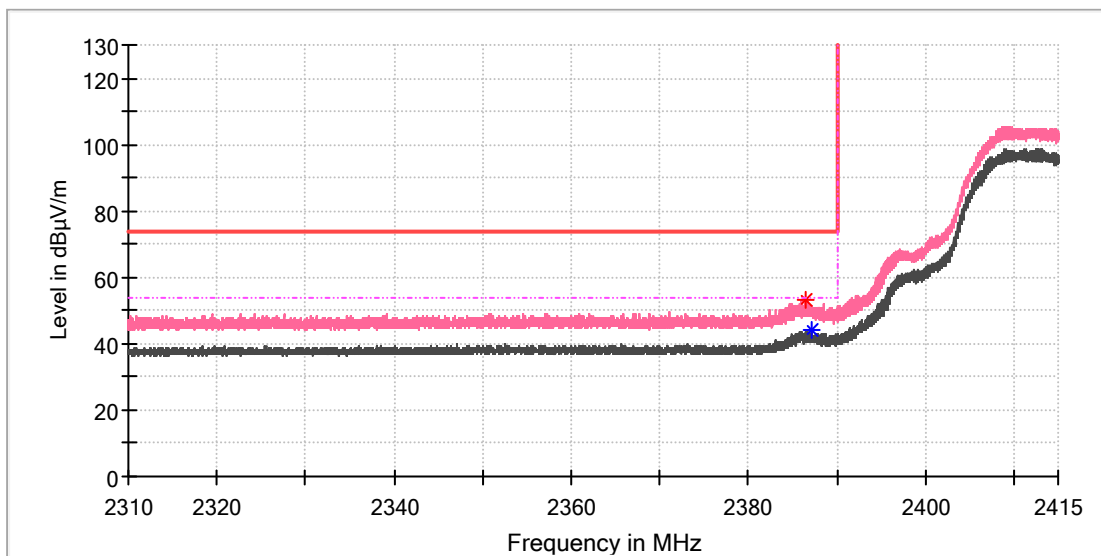
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.300000	62.36	---	74.00	11.64	100.0	H	240.0	7.0

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.461600	44.79	54.00	9.21	124.0	H	199.0	7.0

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 1
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin



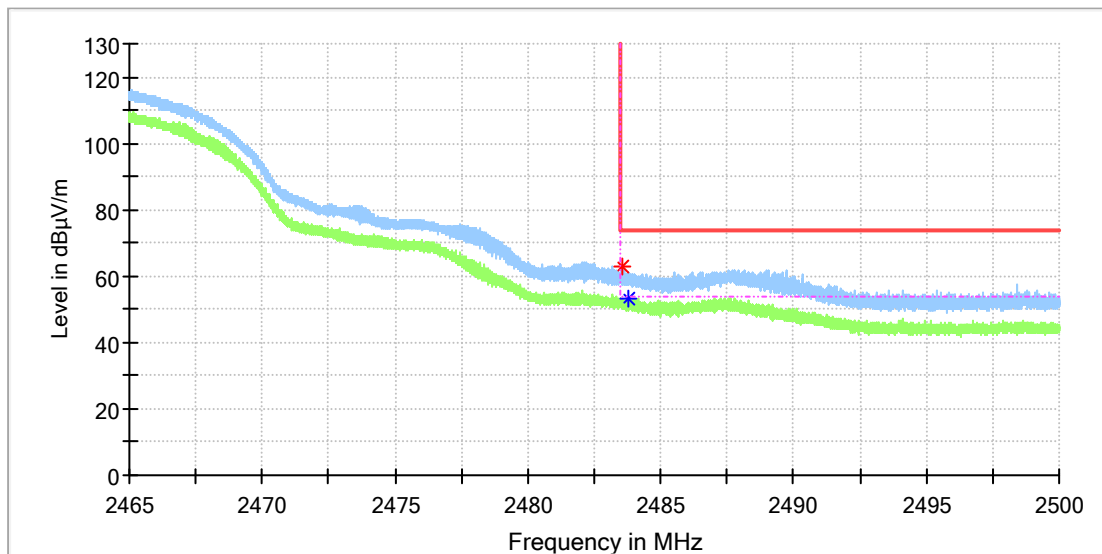
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.455750	53.20	---	74.00	20.80	100.0	V	274.0	7.0
2387.232750	---	44.20	54.00	9.80	100.0	V	274.0	7.0

High channel

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 11
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

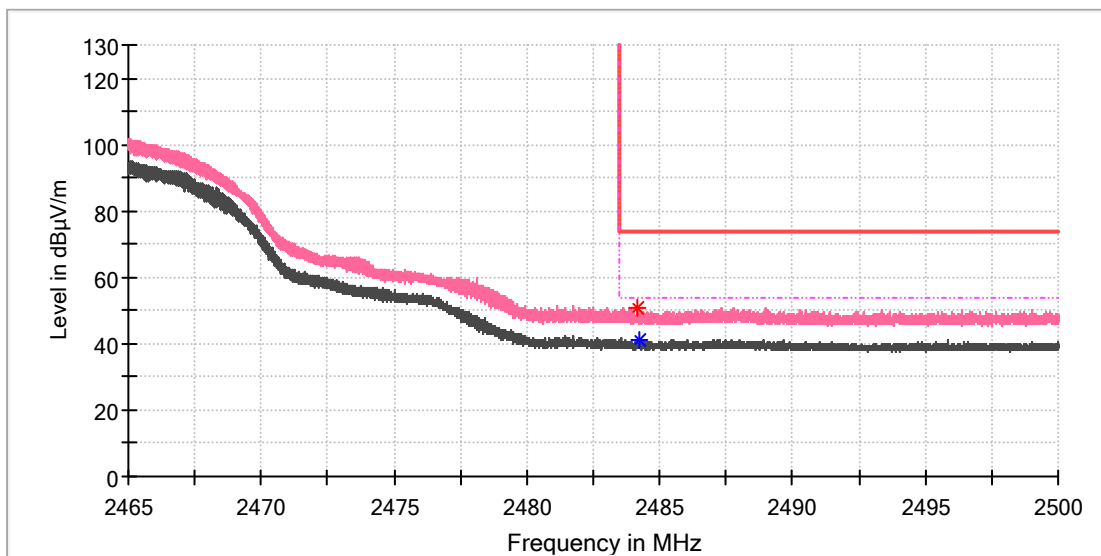


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.581750	62.63	---	74.00	11.37	100.0	H	245.0	7.4
2483.791000	---	53.40	54.00	0.60	100.0	H	245.0	7.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11b_CH 11
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin



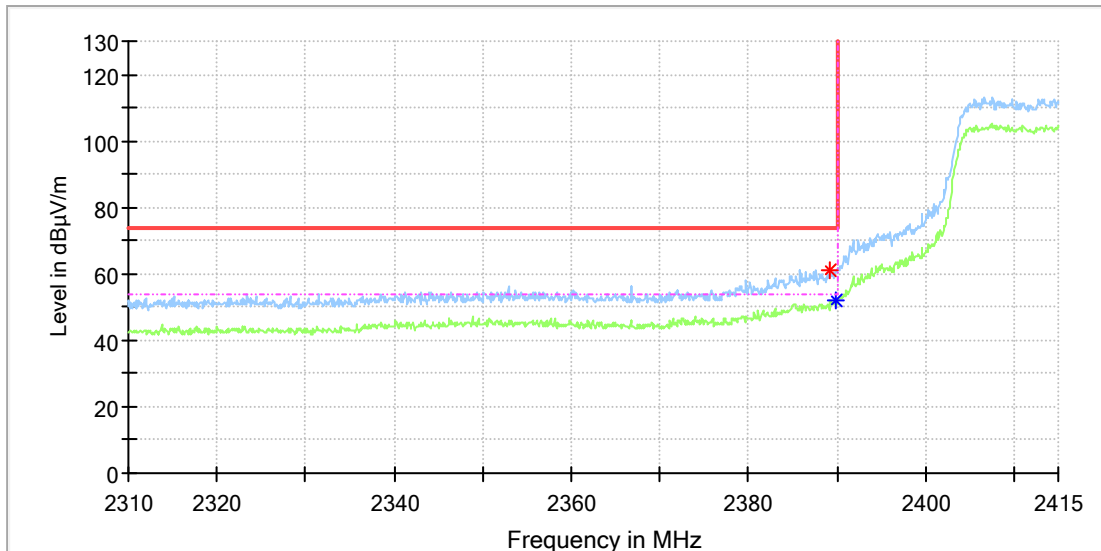
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.187000	50.97	---	74.00	23.03	100.0	V	336.0	7.4
2484.239500	---	41.17	54.00	12.83	100.0	V	138.0	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:	WIFI2.4G_11g_CH 1
Test Voltage::	DC 3.3V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

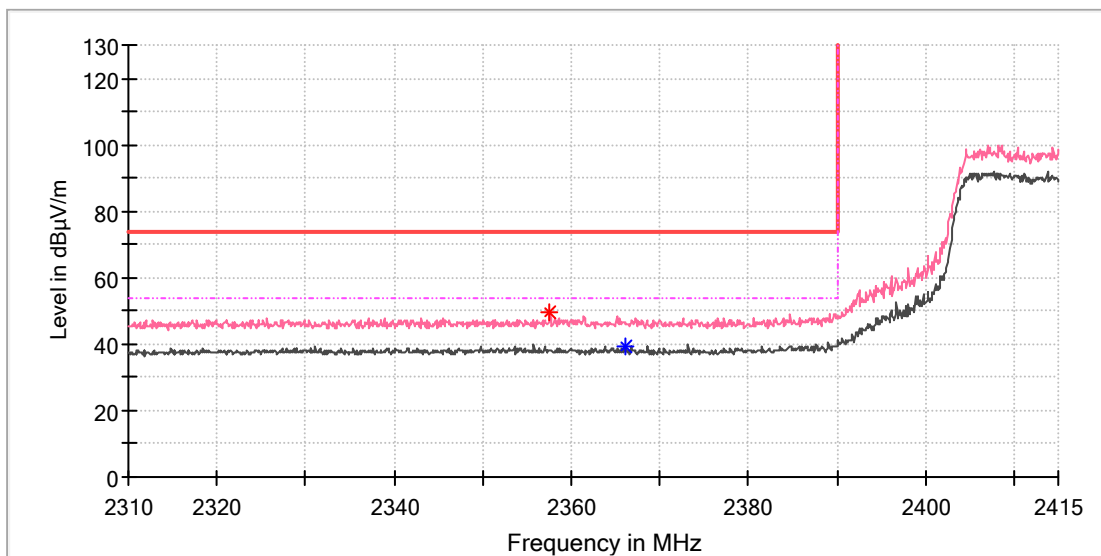


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.200000	61.00	---	74.00	13.00	100.0	H	227.0	7.0
2389.900000	---	52.29	54.00	1.71	100.0	H	222.0	7.0

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11g_CH 1
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



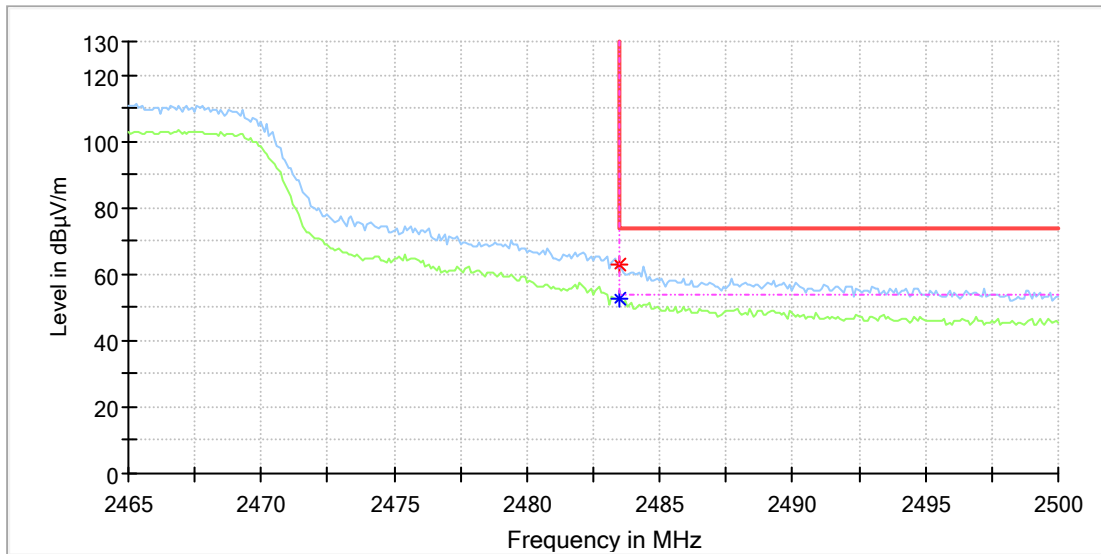
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2357.600000	49.87	---	74.00	24.13	100.0	V	342.0	6.9
2366.200000	---	39.24	54.00	14.76	100.0	V	95.0	6.9

High channel

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11g_CH 11
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

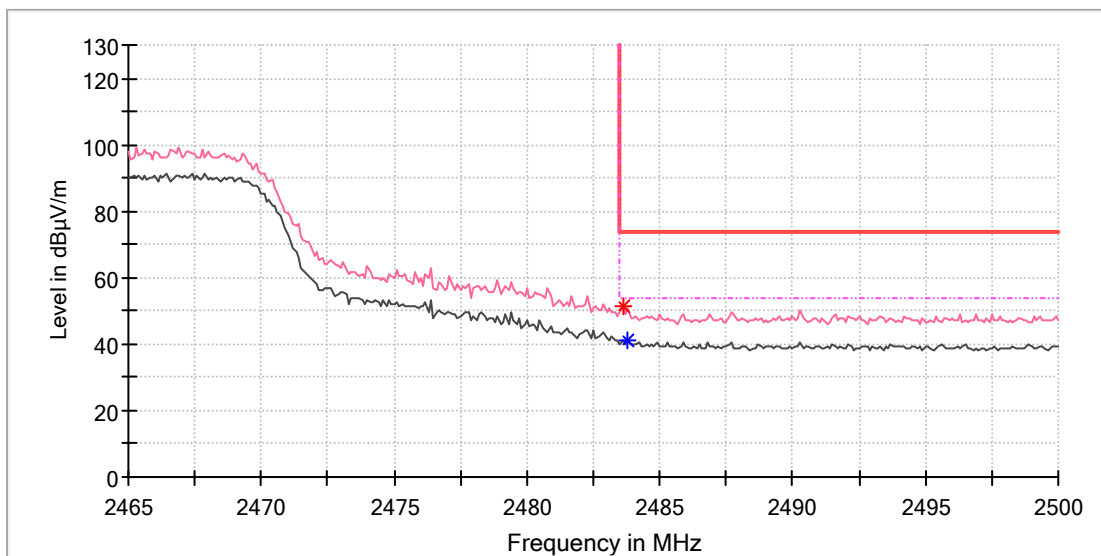


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.500000	62.96	---	74.00	11.04	100.0	H	222.0	7.4
2483.500000	---	52.71	54.00	1.29	100.0	H	222.0	7.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11g_CH 11
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



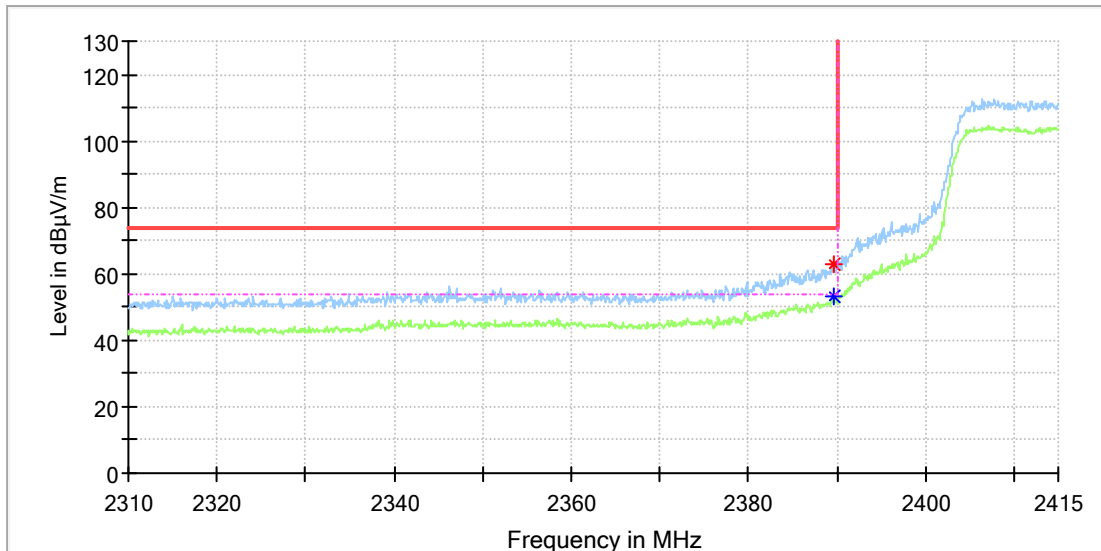
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.600000	51.64	---	74.00	22.36	100.0	V	131.0	7.4
2483.800000	---	41.39	54.00	12.61	100.0	V	315.0	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:	WIFI2.4G_11n20_CH 1
Test Voltage::	DC 3.3V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

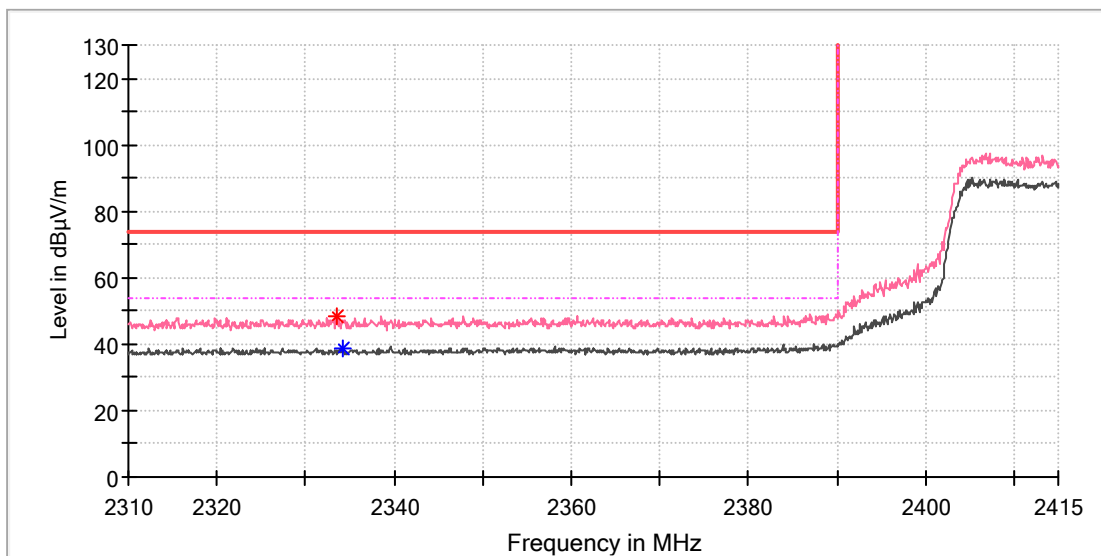


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.700000	63.12	---	74.00	10.88	100.0	H	223.0	7.0
2389.700000	---	52.95	54.00	1.05	100.0	H	223.0	7.0

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n20_CH 1
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

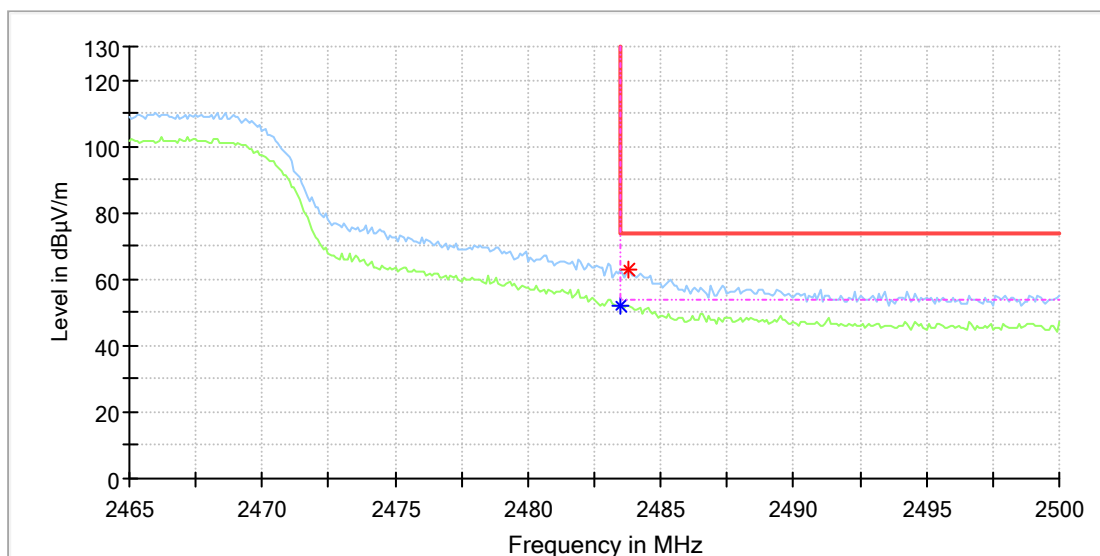


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2333.600000	48.49	---	74.00	25.51	100.0	V	179.0	6.7
2334.300000	---	38.63	54.00	15.37	100.0	V	280.0	6.8

High channel EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n20_CH 11
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

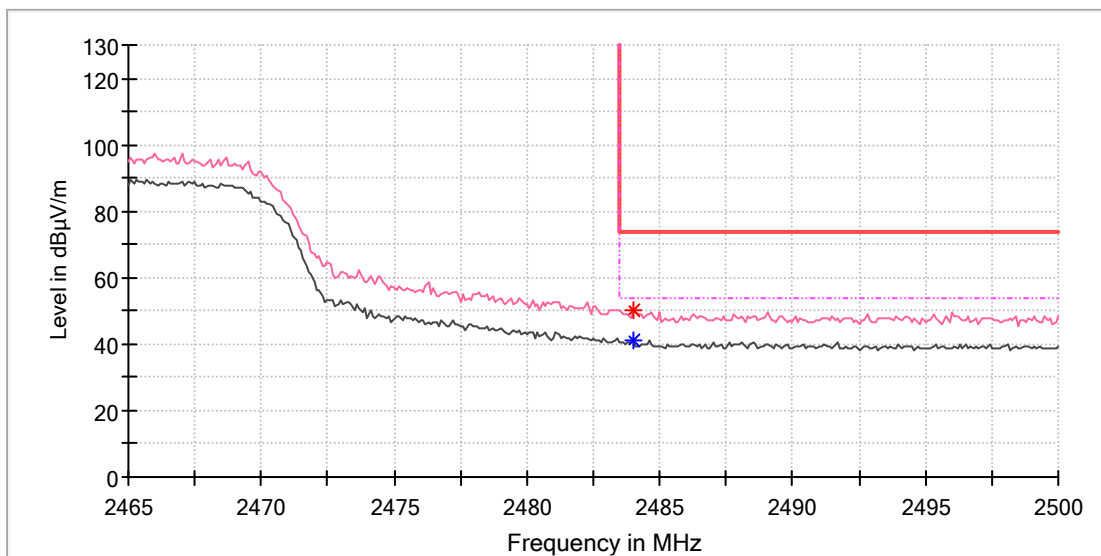


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.500000	---	52.21	54.00	1.79	100.0	H	160.0	7.4
2483.800000	62.89	---	74.00	11.11	100.0	H	150.0	7.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n20_CH 11
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin



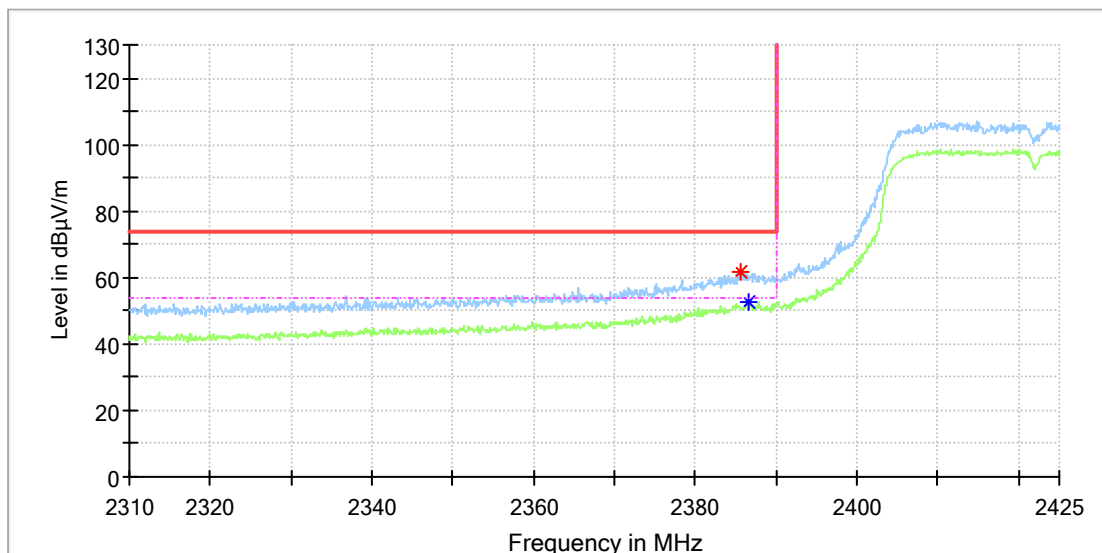
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.000000	---	40.98	54.00	13.02	100.0	V	253.0	7.4
2484.000000	50.01	---	74.00	23.99	100.0	V	253.0	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: WIFI2.4G_11n40_CH 3
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

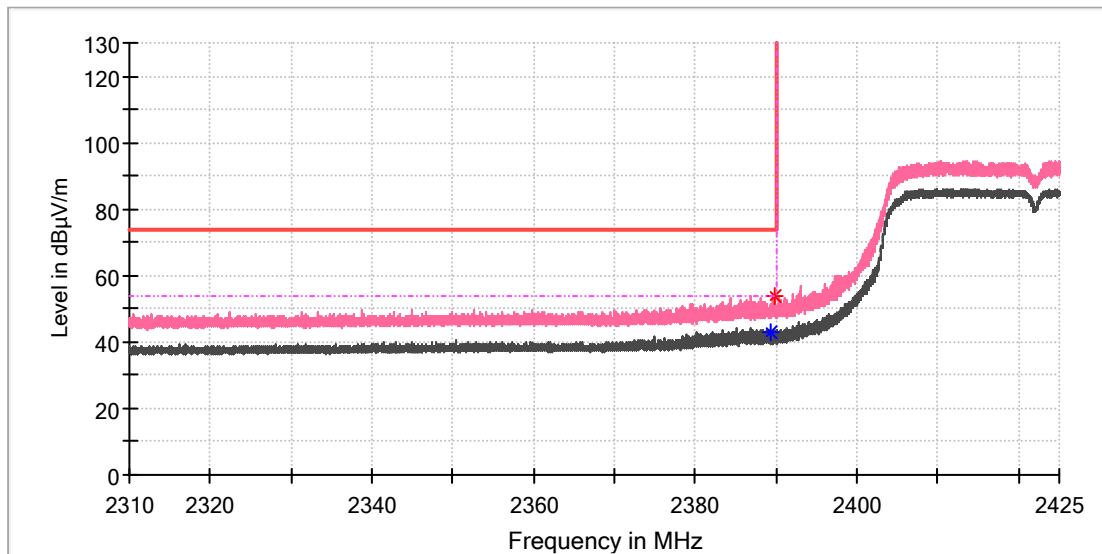


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.700000	61.40	---	74.00	12.60	100.0	H	260.0	7.0
2386.500000	---	52.76	54.00	1.24	100.0	H	256.0	7.0

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI2.4G_11n40_CH 3
Test Voltage::	DC 3.3V From USB
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Alano Qu
Reviewed By:	Terry Yin



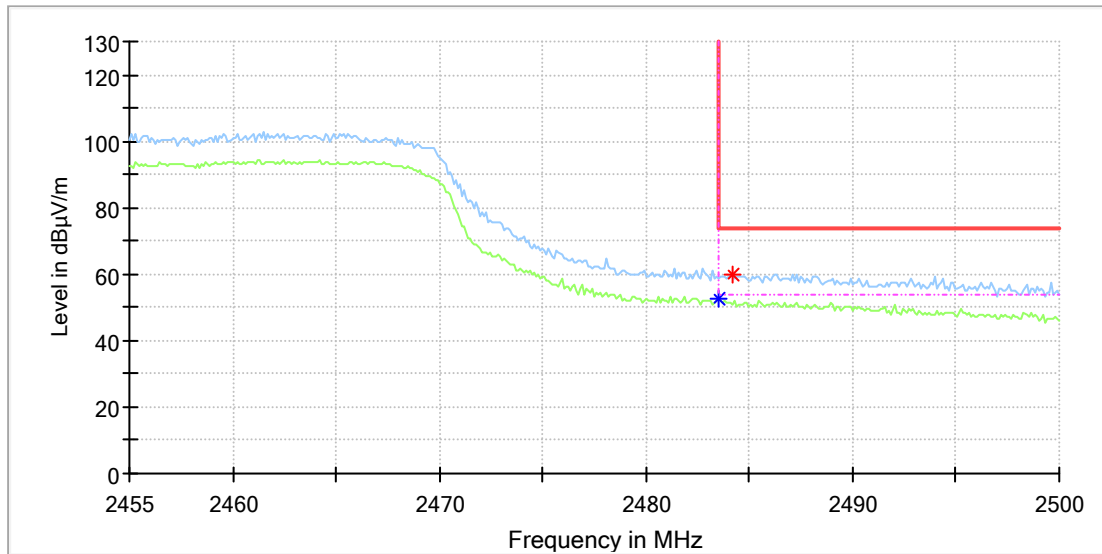
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.407500	---	43.03	54.00	10.97	100.0	V	243.0	7.0
2389.827250	53.76	---	74.00	20.24	100.0	V	243.0	7.0

High channel

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n40_CH 9
 Test Voltage:: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 Reviewed By: Terry Yin

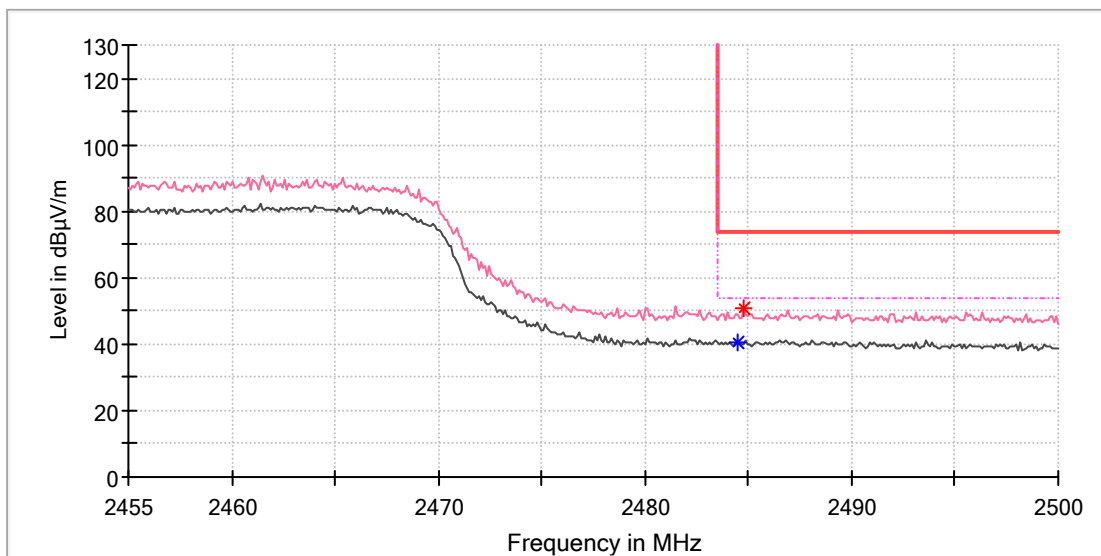


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.500000	---	52.74	54.00	1.26	100.0	H	157.0	7.4
2484.200000	60.08	---	74.00	13.92	100.0	H	162.0	7.4

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI2.4G_11n40_CH 9
 Test Voltage: DC 3.3V From USB
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Alano Qu
 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)
2484.500000	---	40.79	54.00	13.21	100.0	V	169.0	7.4
2484.800000	50.75	---	74.00	23.25	100.0	V	98.0	7.4