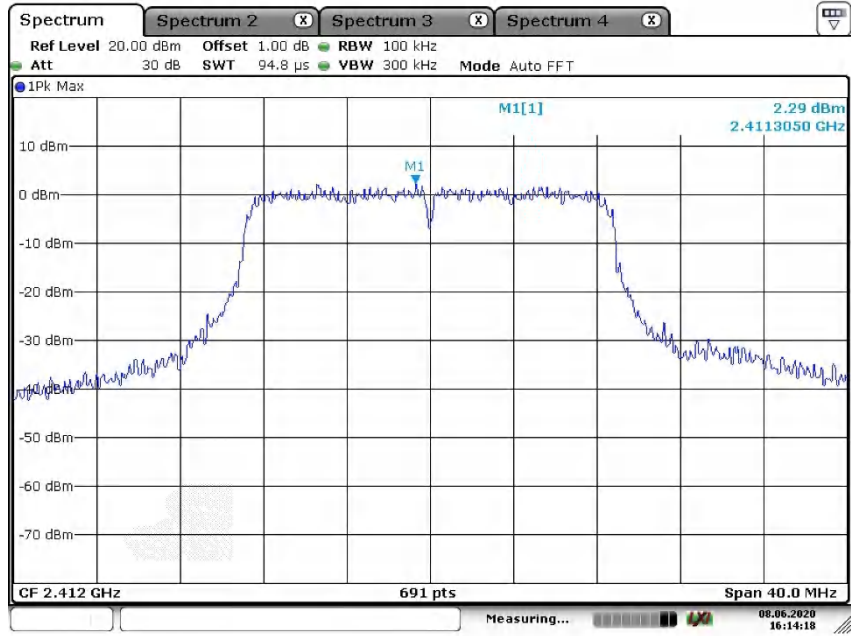
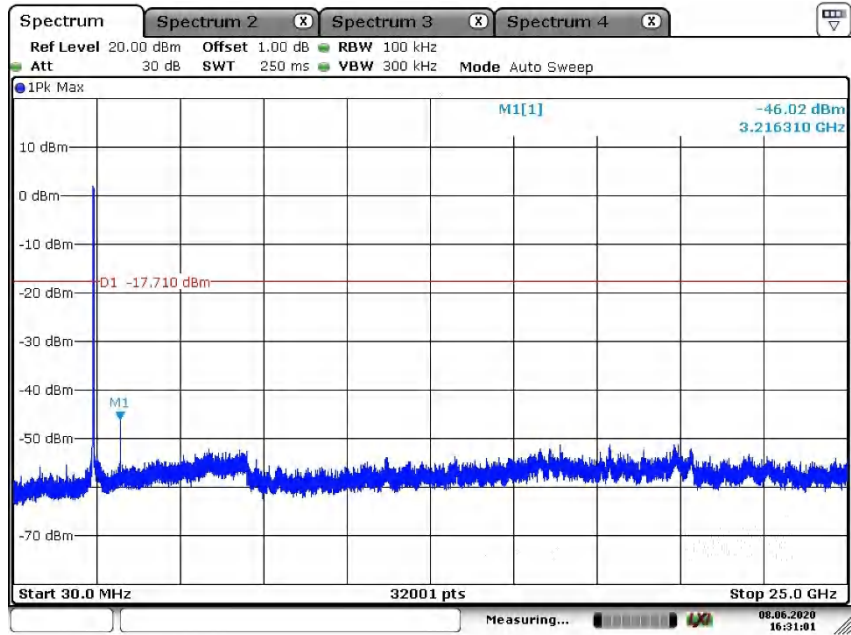


Wi-Fi 802.11 n(HT20) mode, MCS0  
Low Channel

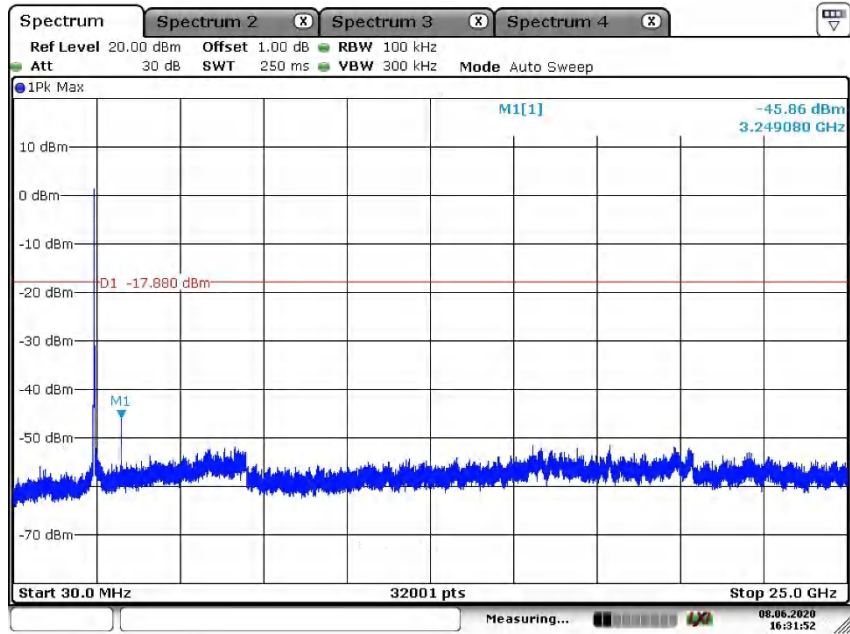
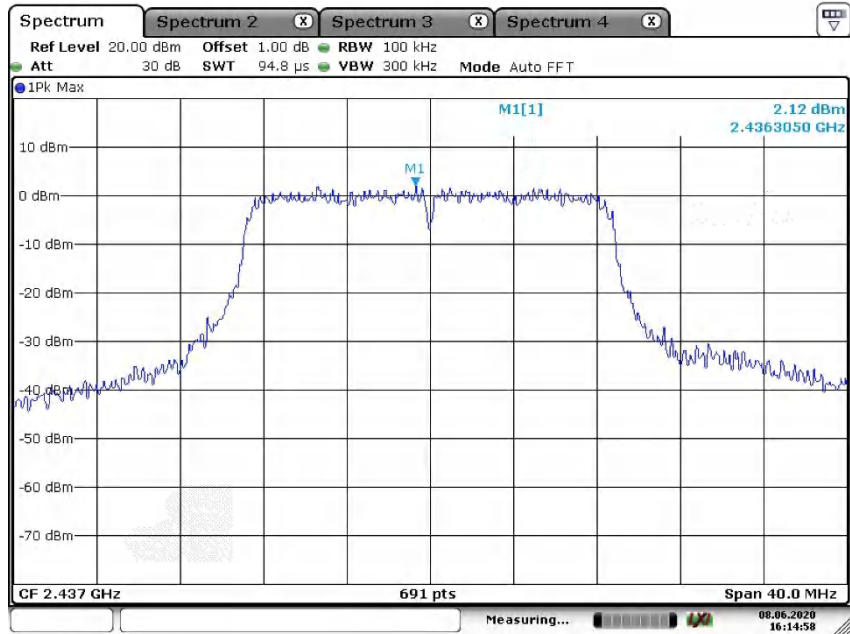


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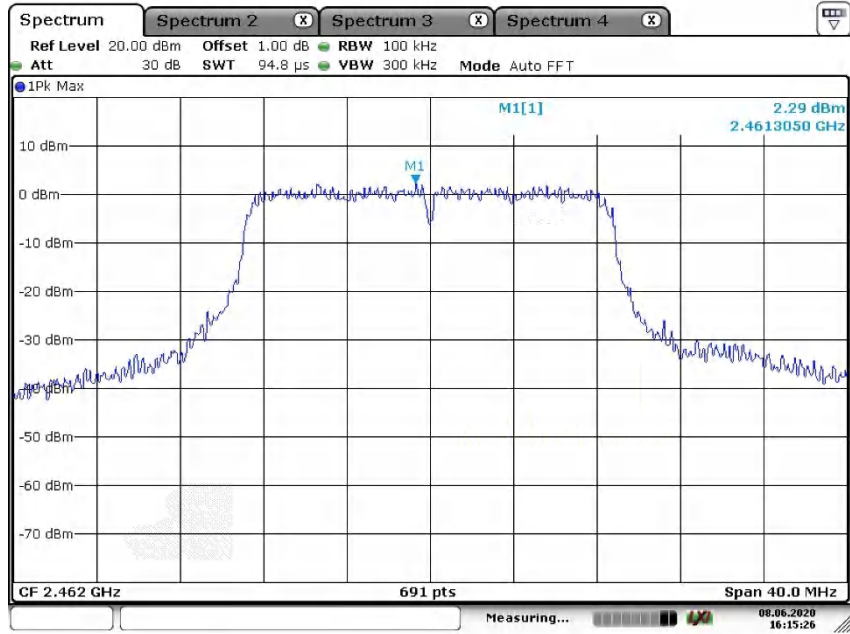


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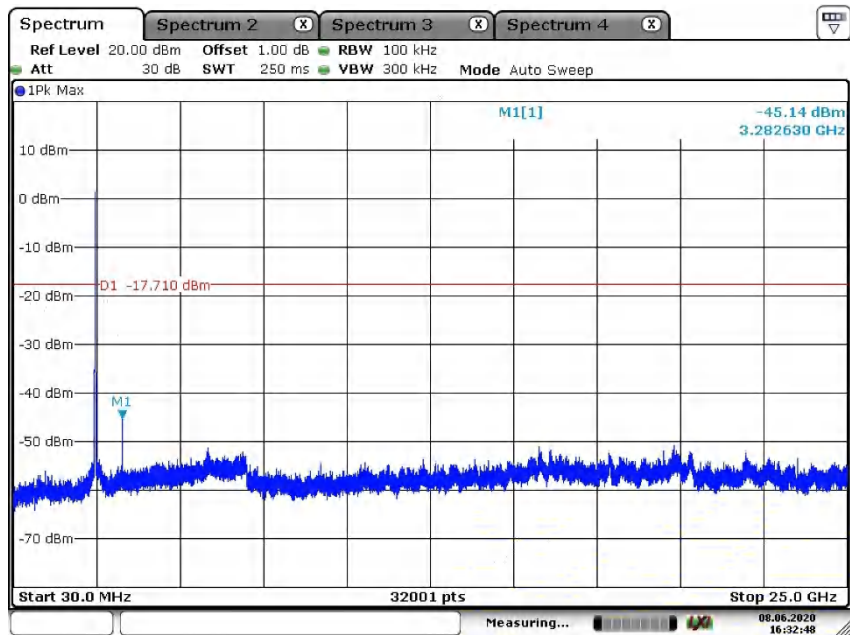
Middle Channel



High Channel

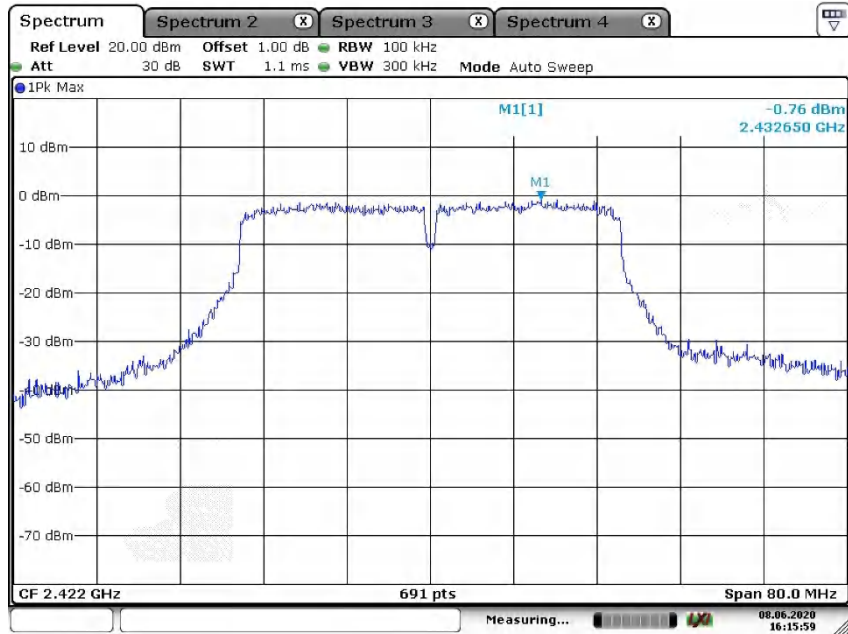


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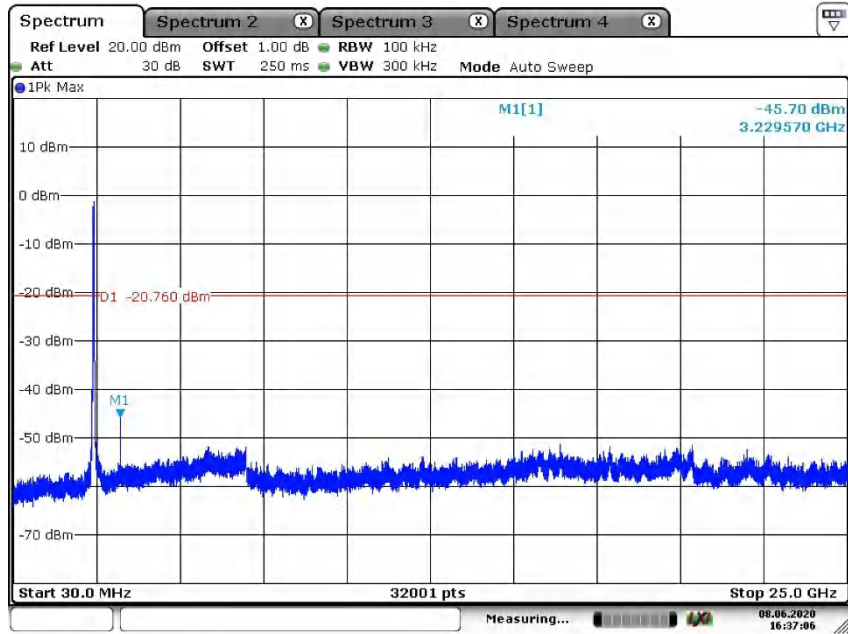


Date: 8.JUN.2020 16:32:49

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

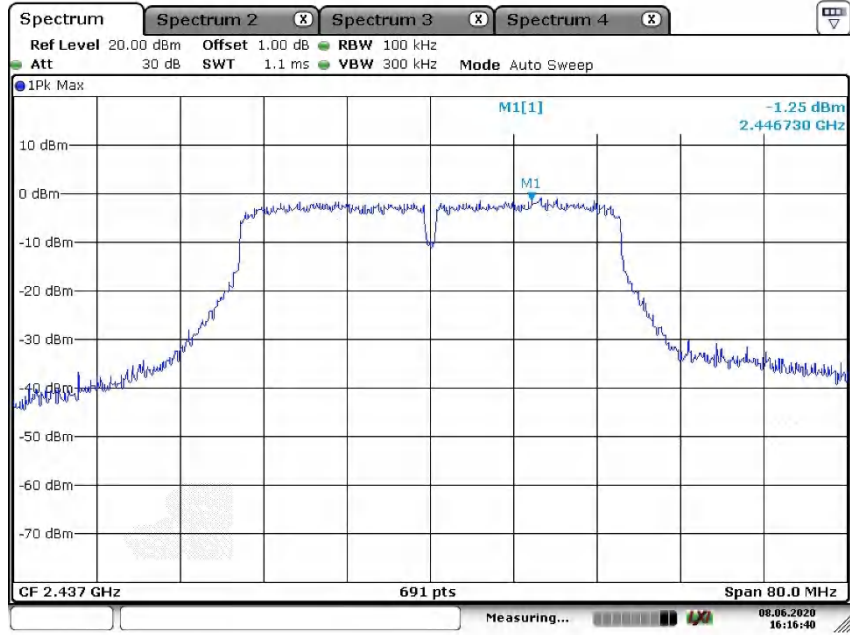


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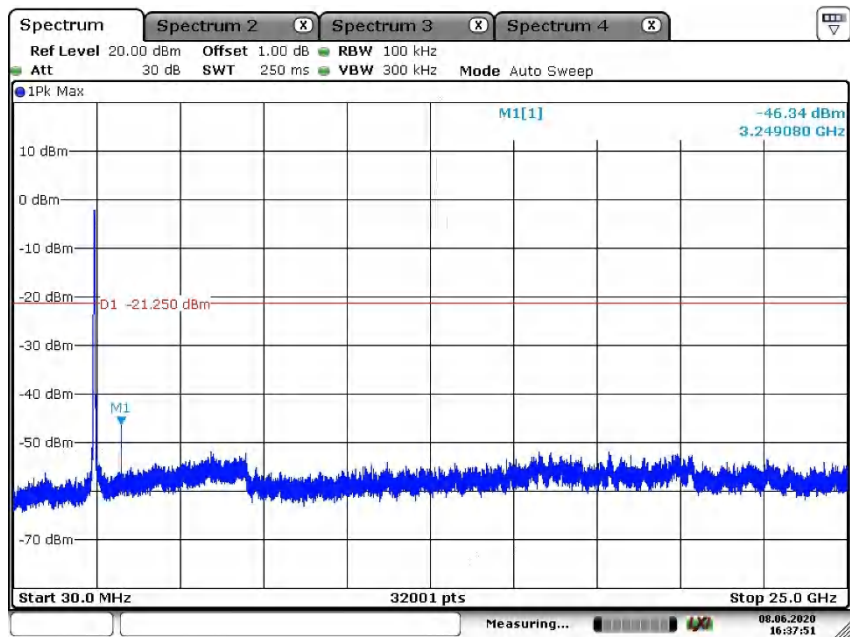


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Middle Channel

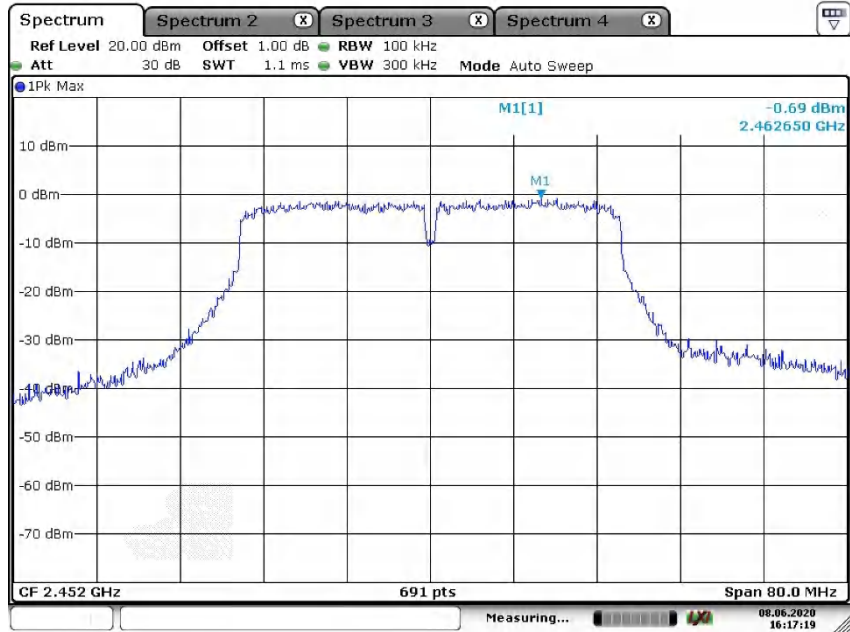


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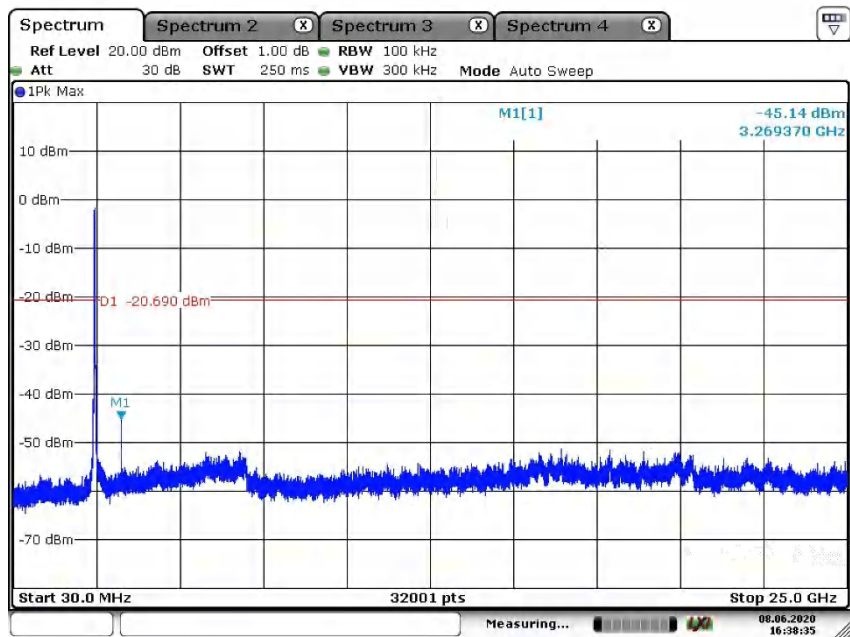


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High Channel



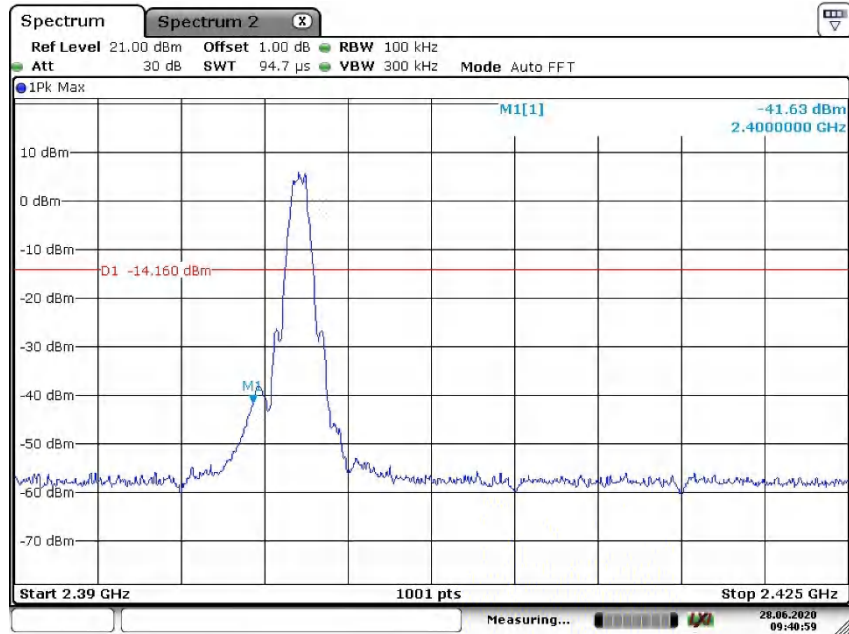
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Date: 8.JUN.2020 16:38:35

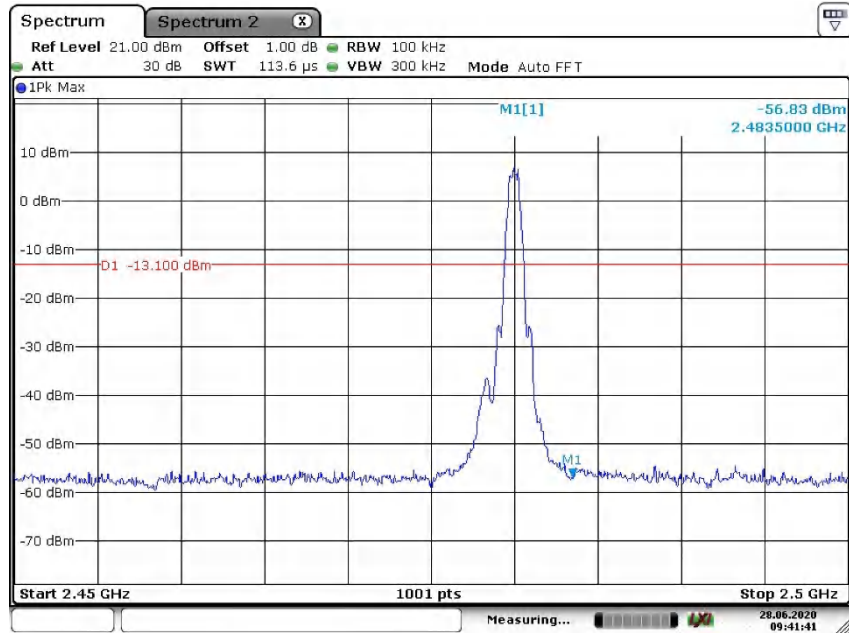
### Bluetooth Low Energy, Band Edge

#### Low Channel



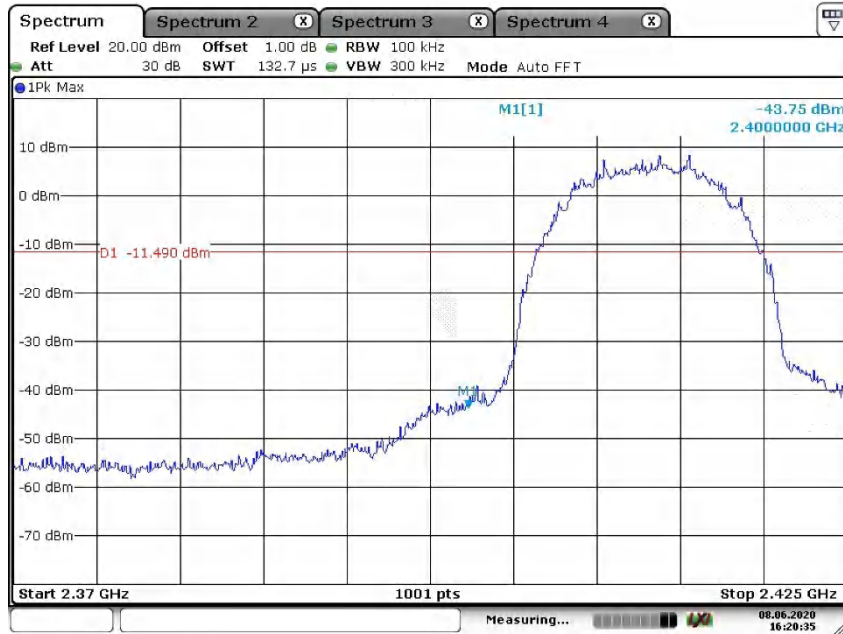
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#### High Channel



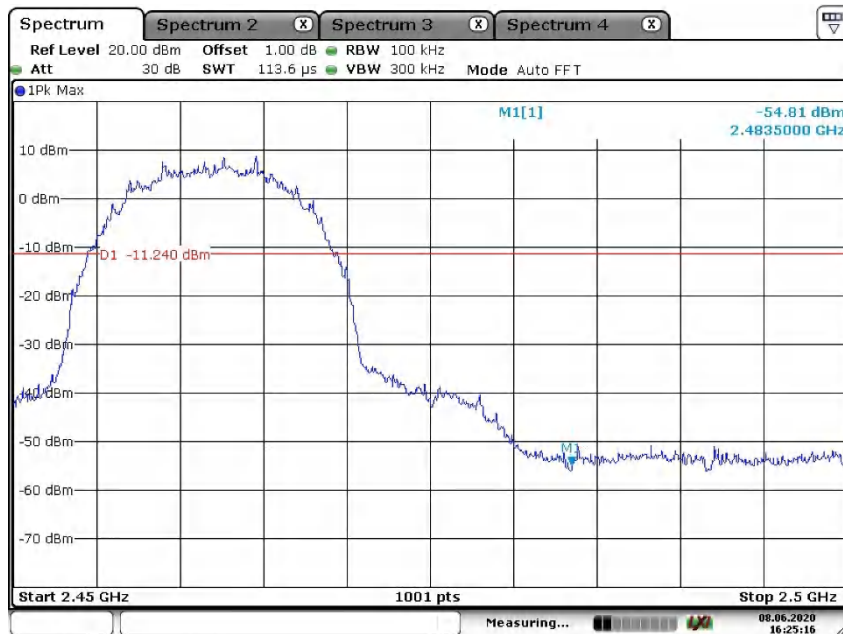
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Wi-Fi 802.11 b mode, Band Edge  
Low Channel



Date: 8.JUN.2020 16:20:36

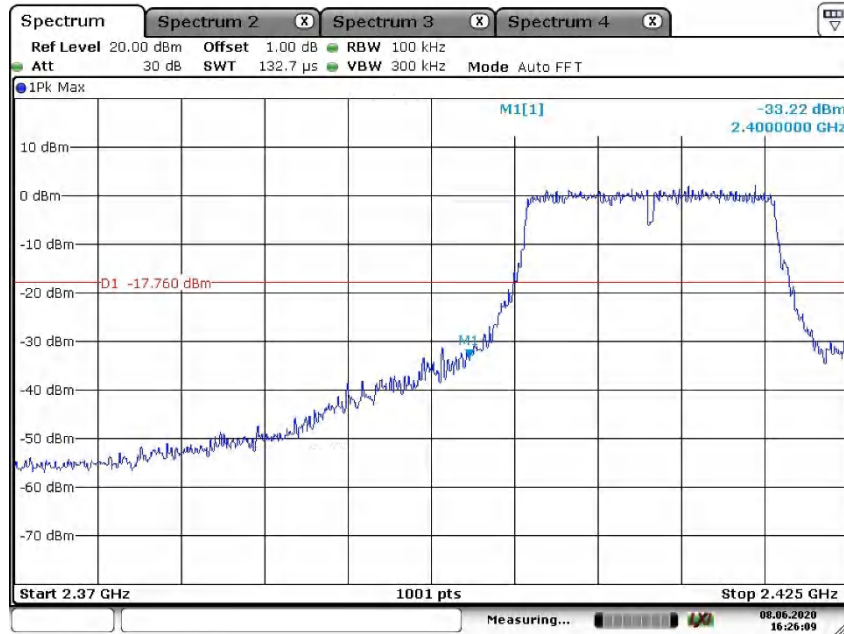
High Channel



Date: 8.JUN.2020 16:25:17

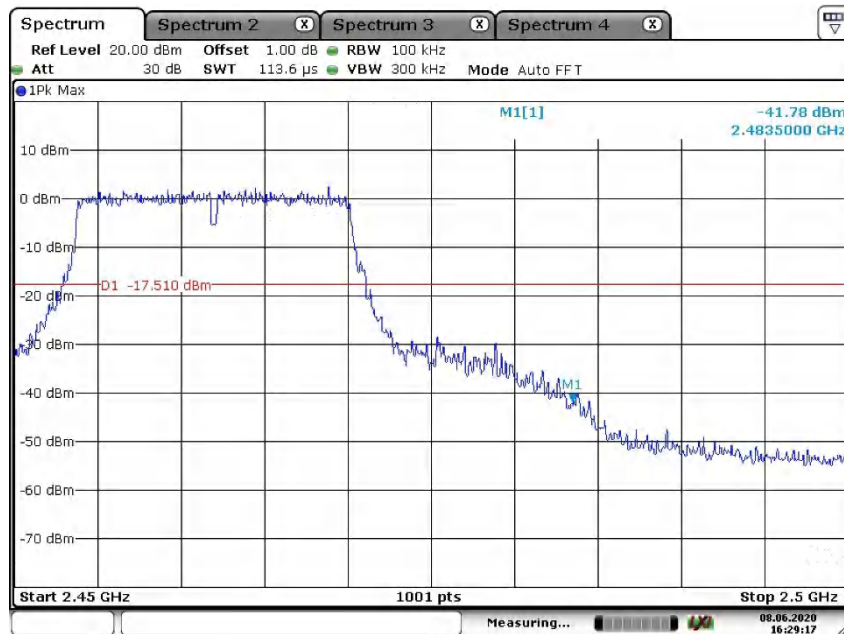


Wi-Fi 802.11 g mode, Band Edge  
Low Channel



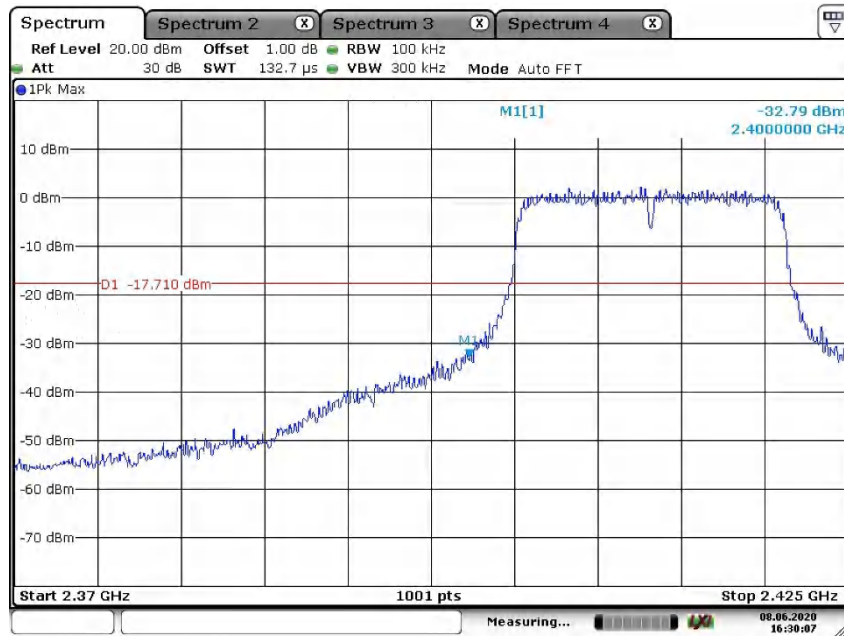
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High Channel



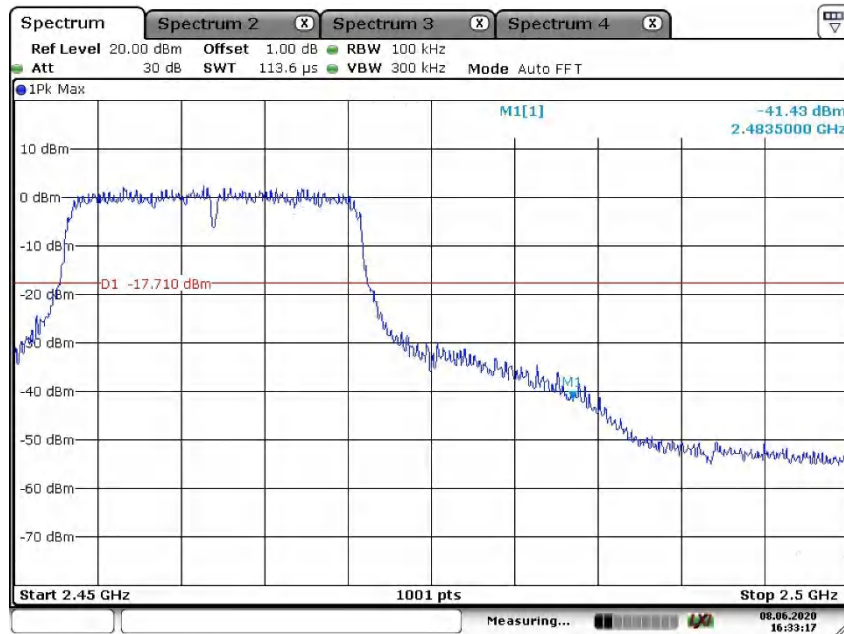
Date: 8.JUN.2020 16:29:17

Wi-Fi 802.11 n(HT20) mode, Band Edge  
Low Channel



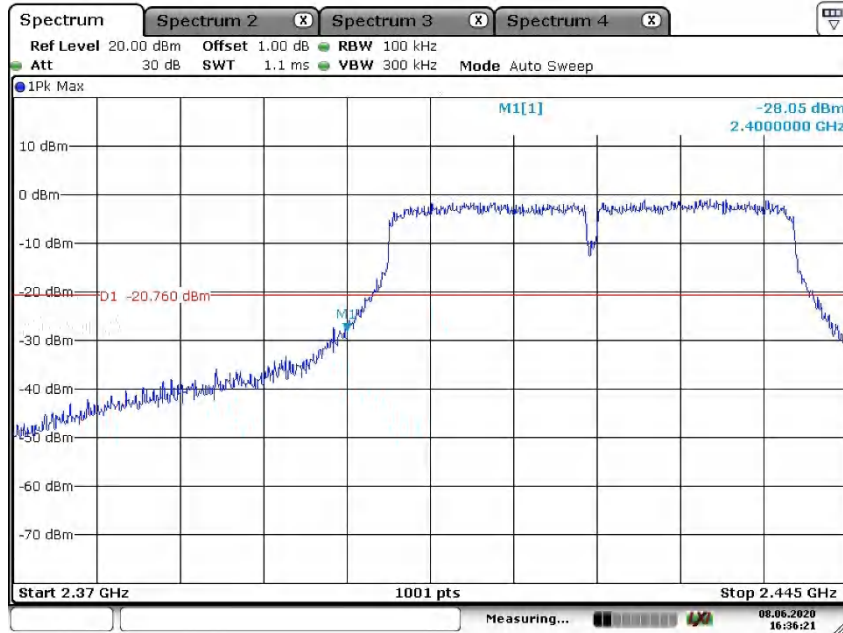
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High Channel



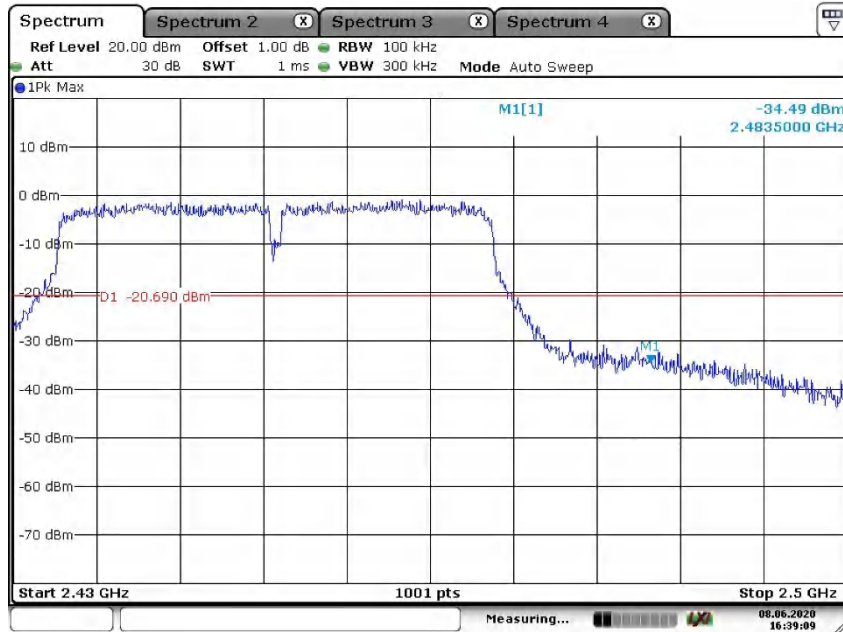
Date: 8.JUN.2020 16:33:17

Wi-Fi 802.11 n(HT40) mode, Band Edge  
Low Channel



Date: 8.JUN.2020 16:36:22

High Channel



Date: 8.JUN.2020 16:39:10

## Appendix C: Test Results of Radiated Testing

<b>APPENDIX C: TEST RESULTS OF RADIATED TESTING .....</b>	<b>1</b>
<b>APPENDIX C.1: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS .....</b>	<b>2</b>
<i>Bluetooth Low Energy .....</i>	<i>2</i>
<i>Wi-Fi 802.11 b mode, 1 Mbps .....</i>	<i>12</i>
<i>Wi-Fi 802.11 g mode, 6Mbps .....</i>	<i>22</i>
<i>Wi-Fi 802.11 n(HT20) mode, MCS0 .....</i>	<i>28</i>
<i>Wi-Fi 802.11 n(HT40) mode, MCS0 .....</i>	<i>34</i>
<b>APPENDIX C.2: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS .....</b>	<b>40</b>
<i>Bluetooth Low Energy .....</i>	<i>40</i>
<i>Wi-Fi 802.11 b mode, 1 Mbps .....</i>	<i>44</i>
<i>Wi-Fi 802.11 g mode, 6 Mbps .....</i>	<i>48</i>
<i>Wi-Fi 802.11 n(HT20) mode, MCS0 .....</i>	<i>52</i>
<i>Wi-Fi 802.11 n(HT40) mode, MCS0 .....</i>	<i>56</i>
<b>APPENDIX C.3: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS .....</b>	<b>60</b>

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Products

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.

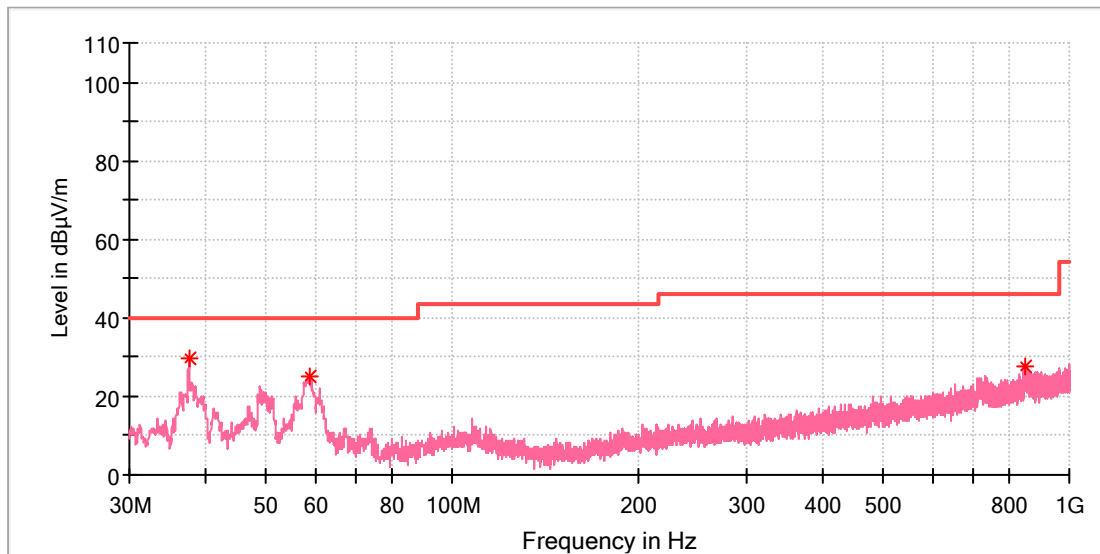
### Appendix C.1: Test Results of Radiated Spurious Emissions

#### Bluetooth Low Energy

#### 30MHz - 1GHz

#### EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_TX_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



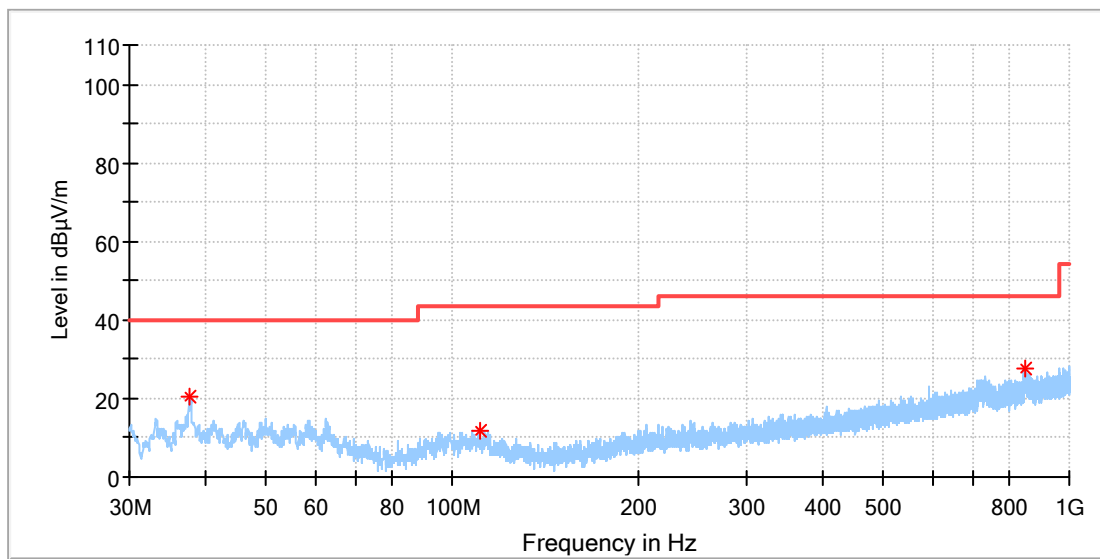
#### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	29.46	---	40.00	10.54	100.0	V	344.0	-21.3
58.615000	25.11	---	40.00	14.89	100.0	V	0.0	-19.1
845.188000	27.50	---	46.00	18.50	100.0	V	36.0	-6.0

Produkte  
Products

## EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: BLE\_TX\_Low CH  
 Test Voltage:: DC 5V  
 Remark: Temp 24 Humi:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



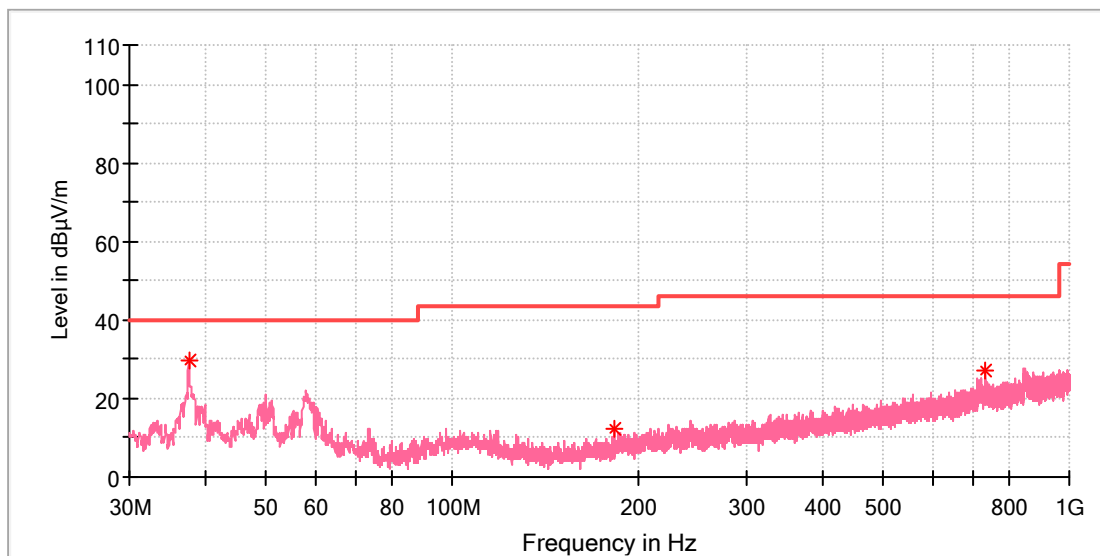
## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	20.65	---	40.00	19.35	100.0	H	0.0	-21.3
110.801000	11.72	---	43.50	31.78	100.0	H	256.0	-19.5
845.964000	27.69	---	46.00	18.31	100.0	H	0.0	-6.0

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## EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: BLE\_TX\_High CH  
 Test Voltage:: DC 5V  
 Remark: Temp 24 Humi:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin

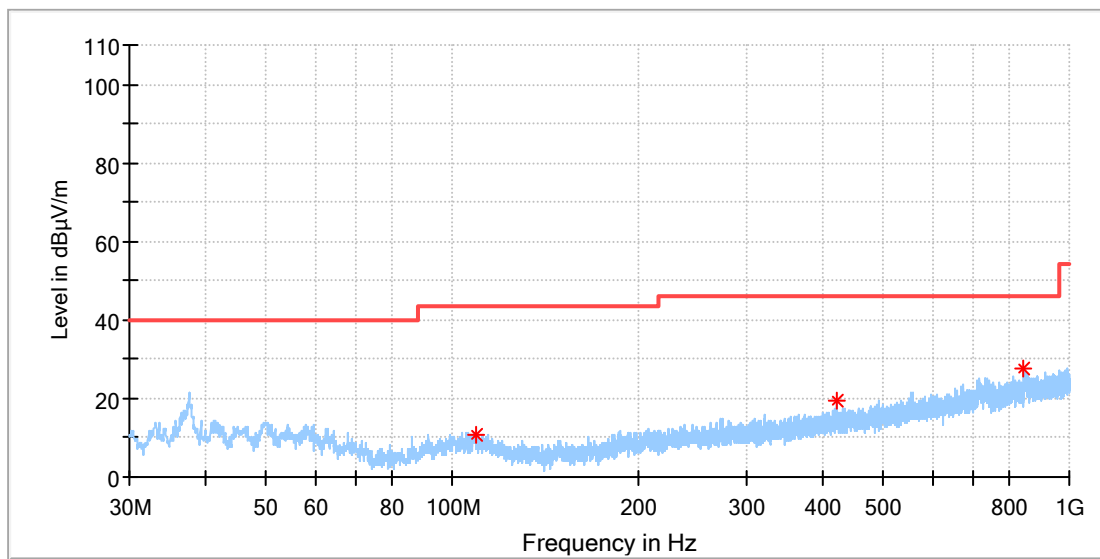


## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	29.88	---	40.00	10.12	100.0	V	261.0	-21.3
183.260000	12.07	---	43.50	31.43	100.0	V	6.0	-20.5
729.418500	26.99	---	46.00	19.01	100.0	V	138.0	-7.9

## EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_TX_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
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)
109.346000	10.75	---	43.50	32.75	100.0	H	51.0	-19.4
419.406500	19.35	---	46.00	26.65	100.0	H	197.0	-13.7
844.848500	27.85	---	46.00	18.15	100.0	H	60.0	-6.0

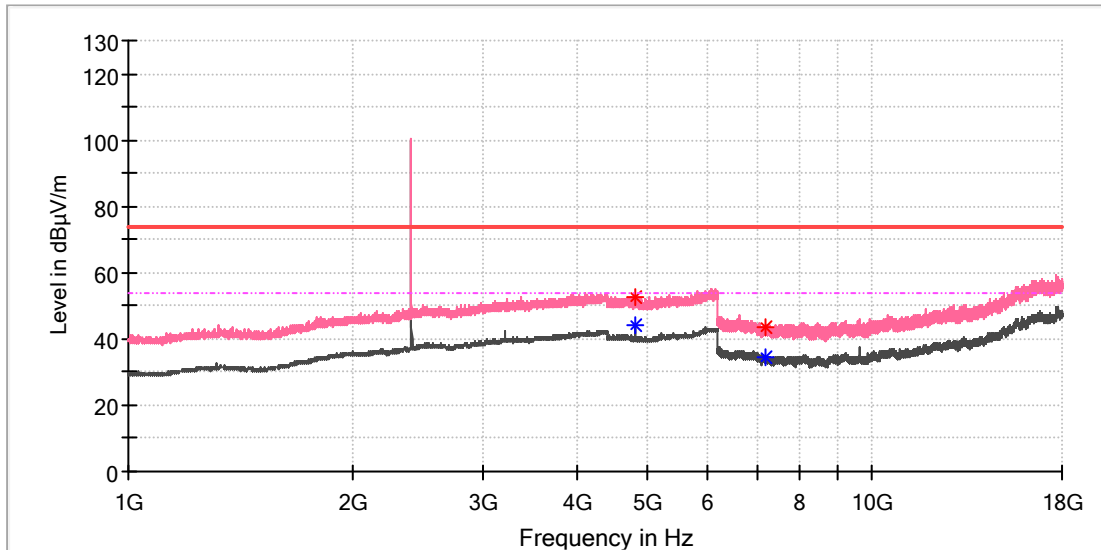


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1GHz - 18GHz

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: BLE\_TX\_Low CH  
 Test Voltage:: DC 5V  
 Remark: Temp 24 Humi:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



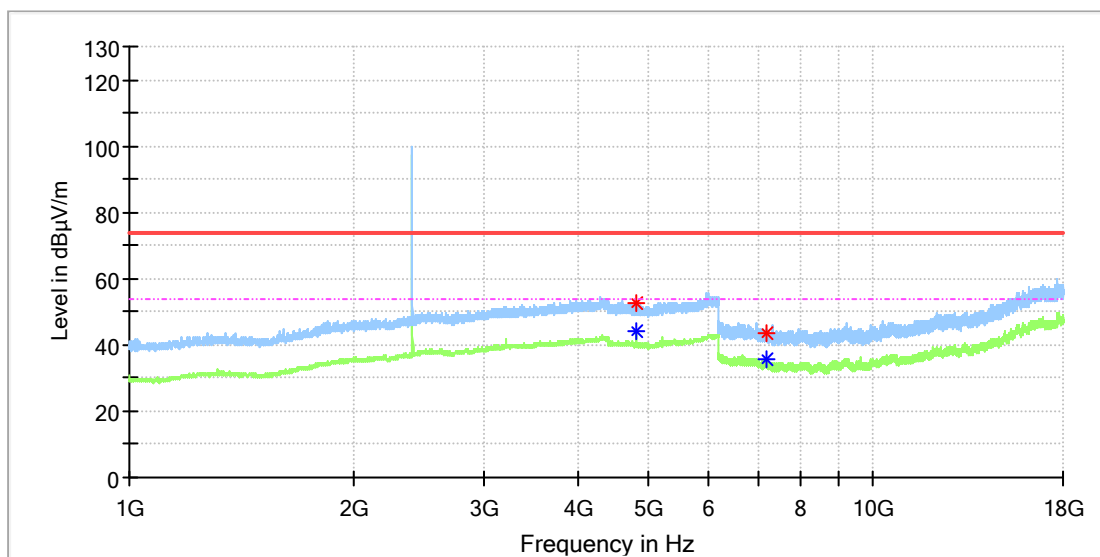
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	52.64	---	74.00	21.36	100.0	V	349.0	13.6
4803.500000	---	43.99	54.00	10.01	100.0	V	349.0	13.6
7203.983333	43.25	---	74.00	30.75	100.0	V	37.0	8.8
7206.441667	---	34.68	54.00	19.32	100.0	V	262.0	8.8

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## EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: BLE\_TX\_Low CH  
 Test Voltage:: DC 5V  
 Remark: Temp 24 Humi:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



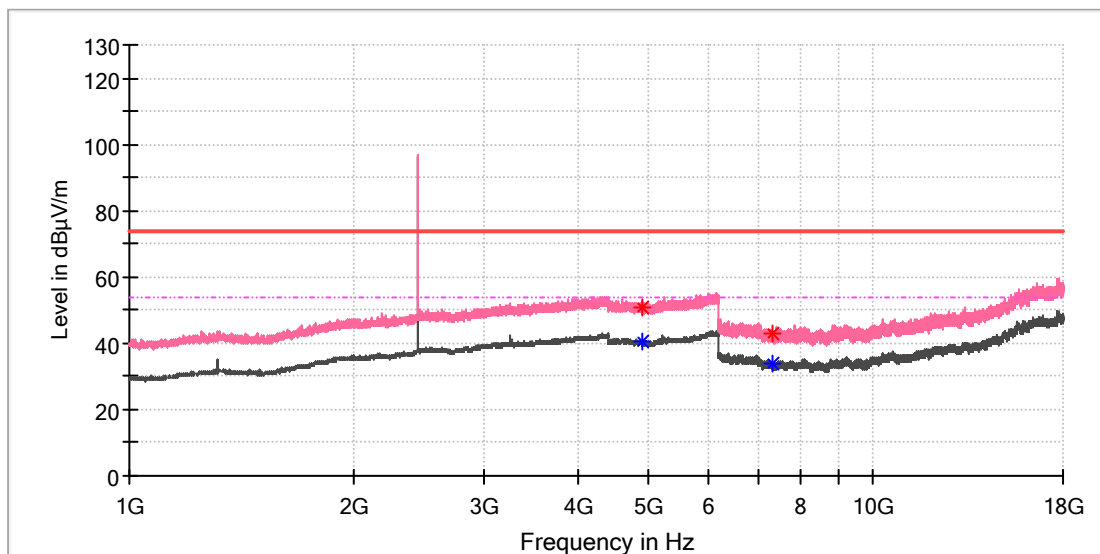
## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.000000	52.80	---	74.00	21.20	100.0	H	225.0	13.6
4804.000000	---	44.30	54.00	9.70	100.0	H	0.0	13.6
7205.950000	---	35.47	54.00	18.53	100.0	H	276.0	8.8
7205.950000	43.72	---	74.00	30.28	100.0	H	276.0	8.8

Produkte  
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## EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: BLE\_TX\_Mid CH  
 Test Voltage:: DC 5V  
 Remark: Temp 24 Humi:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



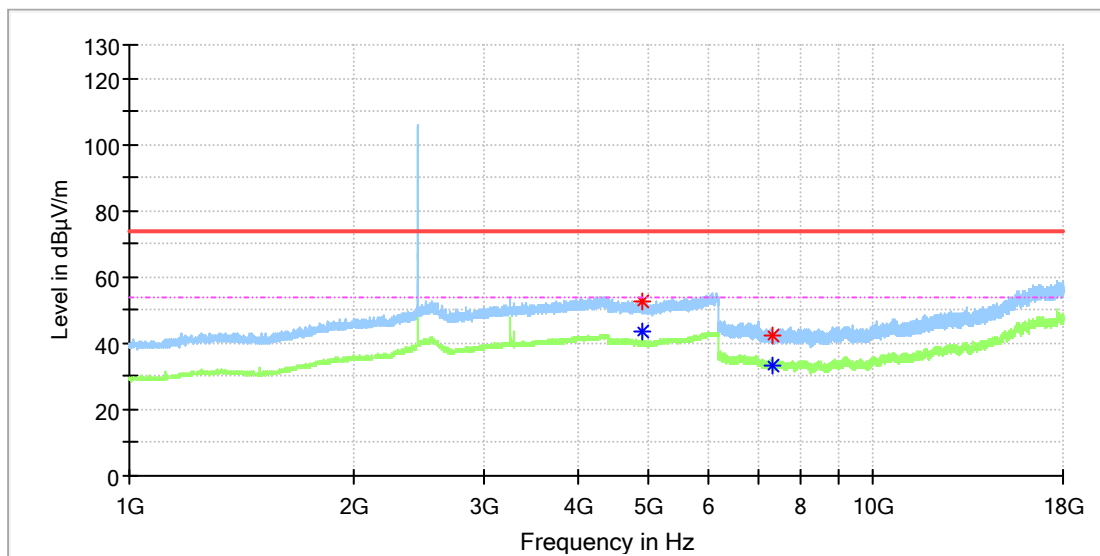
## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4888.000000	---	40.40	54.00	13.60	100.0	V	233.0	13.3
4888.500000	50.96	---	74.00	23.04	100.0	V	272.0	13.3
7334.766667	---	33.57	54.00	20.43	100.0	V	277.0	8.1
7334.766667	42.81	---	74.00	31.19	100.0	V	277.0	8.1

Produkte  
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## EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: BLE\_TX\_Mid CH  
 Test Voltage: DC 5V  
 Remark: Temp 24 Humi:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin

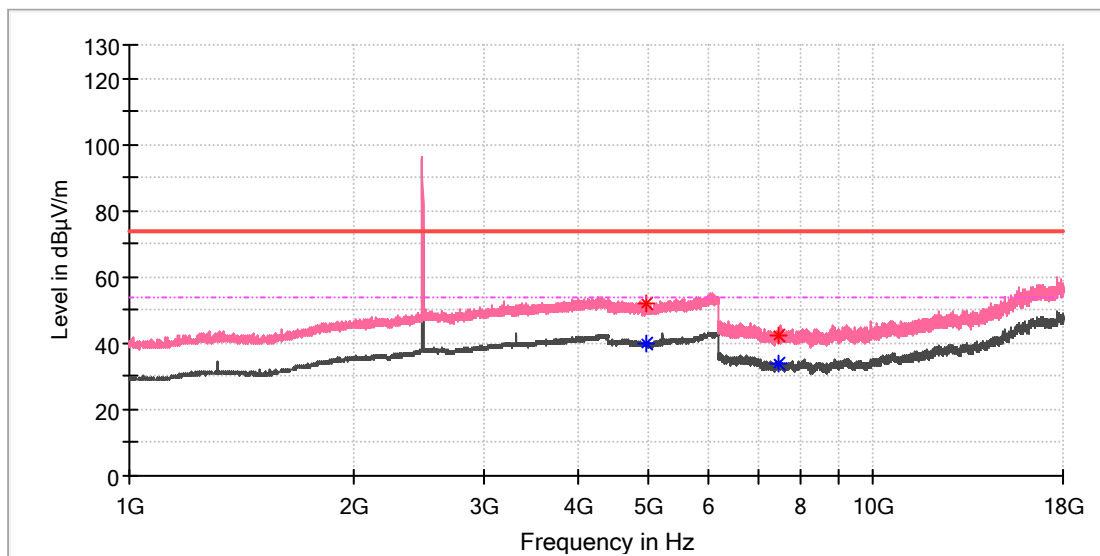


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4887.500000	52.32	---	74.00	21.68	100.0	H	148.0	13.3
4888.000000	---	43.27	54.00	10.73	100.0	H	106.0	13.3
7330.341667	42.46	---	74.00	31.54	100.0	H	227.0	8.1
7331.325000	---	33.09	54.00	20.91	100.0	H	193.0	8.1

## EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: BLE\_TX\_High CH  
 Test Voltage:: DC 5V  
 Remark: Temp 24 Humi:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



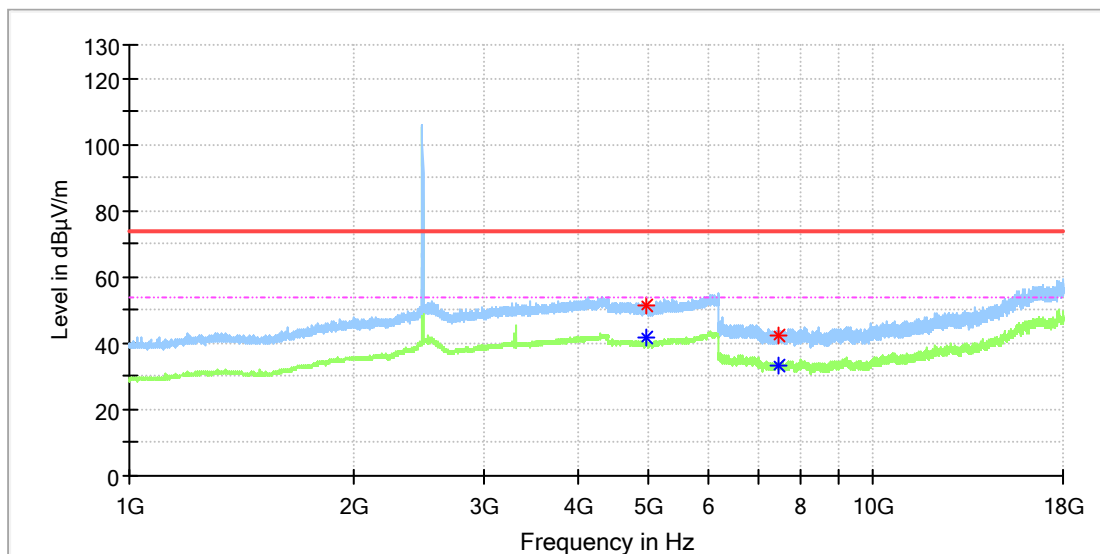
## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4956.000000	---	40.02	54.00	13.98	100.0	V	0.0	13.2
4956.500000	52.07	---	74.00	21.93	100.0	V	288.0	13.2
7437.525000	---	33.73	54.00	20.27	100.0	V	36.0	8.4
7439.983333	42.21	---	74.00	31.79	100.0	V	0.0	8.4

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## EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: BLE\_TX\_High CH  
 Test Voltage:: DC 5V  
 Remark: Temp 24 Humi:45%  
 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)
4960.000000	51.62	---	74.00	22.38	100.0	H	8.0	13.2
4960.000000	---	41.98	54.00	12.02	100.0	H	8.0	13.2
7438.508333	---	33.38	54.00	20.62	100.0	H	142.0	8.4
7439.491667	42.38	---	74.00	31.62	100.0	H	0.0	8.4

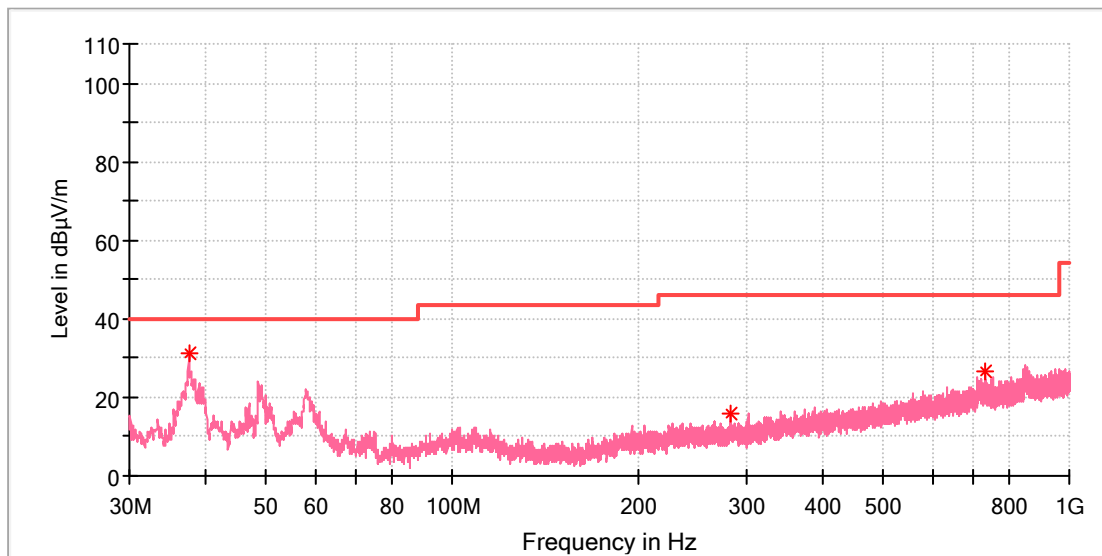
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**Wi-Fi 802.11 b mode, 1 Mbps**

**30MHz - 1GHz**

**EUT Information**

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



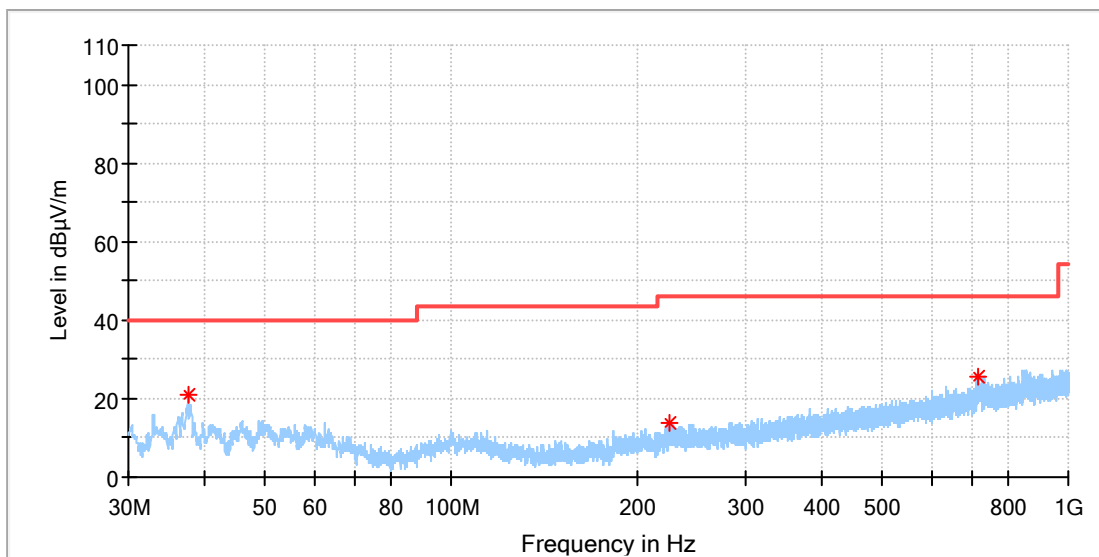
**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.517500	30.95	---	40.00	9.05	100.0	V	121.0	-21.2
282.442500	15.61	---	46.00	30.39	100.0	V	169.0	-17.0
729.224500	26.48	---	46.00	19.52	100.0	V	242.0	-7.9

Produkte  
Products

## EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



## Critical\_Freqs

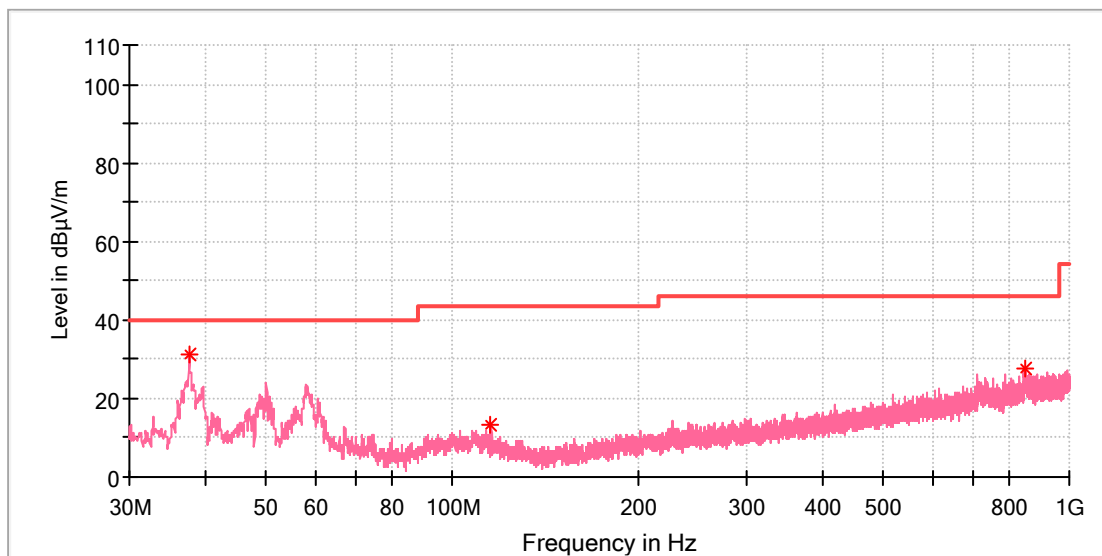
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	20.98	---	40.00	19.02	100.0	H	321.0	-21.3
226.037000	13.68	---	46.00	32.32	100.0	H	160.0	-18.6
715.838500	25.72	---	46.00	20.28	100.0	H	312.0	-8.2



Produkte  
 Products

### EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: WIFI 2.4G\_High CH  
 Test Voltage:: DC 5V  
 Remark: Temp 24 Humi:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



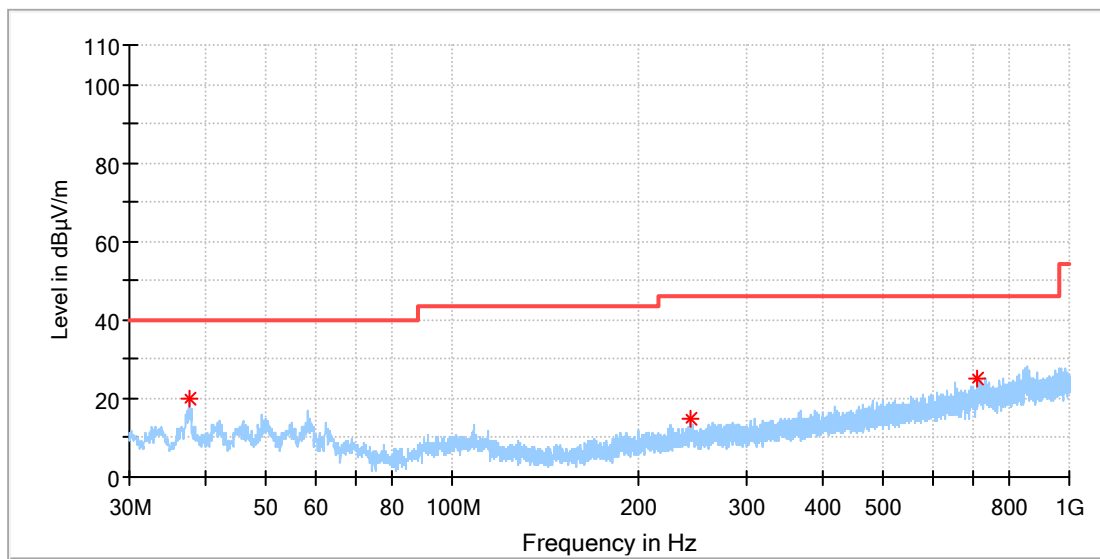
### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	31.29	---	40.00	8.71	100.0	V	66.0	-21.3
115.602500	13.48	---	43.50	30.02	100.0	V	198.0	-20.2
845.188000	27.81	---	46.00	18.19	100.0	V	208.0	-6.0

Produkte  
Products

## EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: WIFI 2.4G\_High CH  
 Test Voltage:: DC 5V  
 Remark: Temp 24 Humi:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



## Critical Freqs

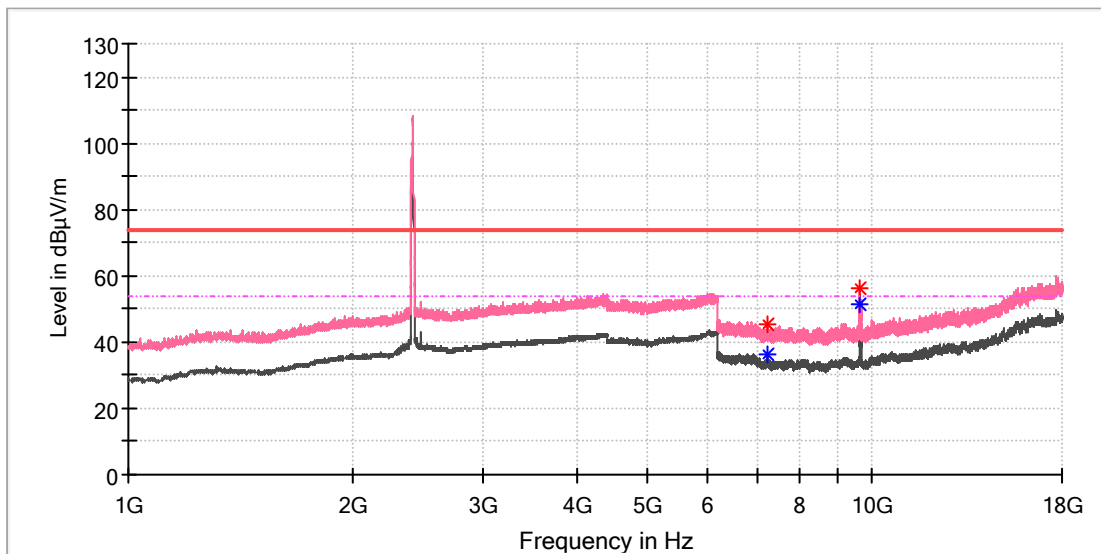
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	19.92	---	40.00	20.08	100.0	H	158.0	-21.3
243.642500	15.09	---	46.00	30.91	100.0	H	209.0	-17.9
709.776000	25.05	---	46.00	20.95	100.0	H	256.0	-8.3

Produkte  
Products

1GHz - 18GHz

### 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 23 Humi:42%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



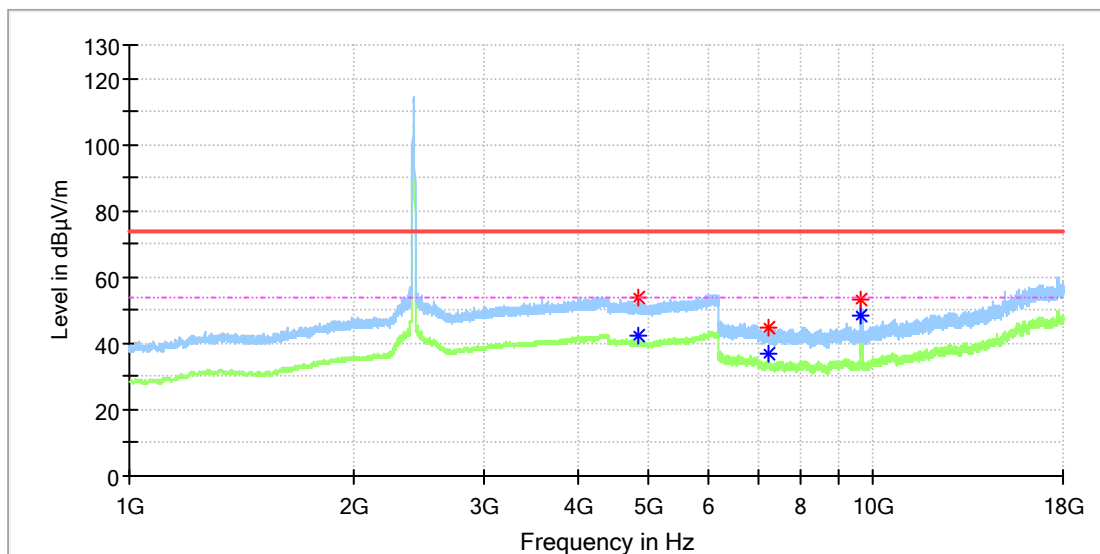
### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7234.958333	---	36.01	54.00	17.99	100.0	V	151.0	8.6
7237.416667	45.45	---	74.00	28.55	100.0	V	179.0	8.6
9647.566667	56.25	---	74.00	17.75	100.0	V	0.0	10.4
9648.058333	---	50.58	54.00	3.42	100.0	V	1.0	10.4

Produkte  
Products

## 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 23 Humi:42%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin

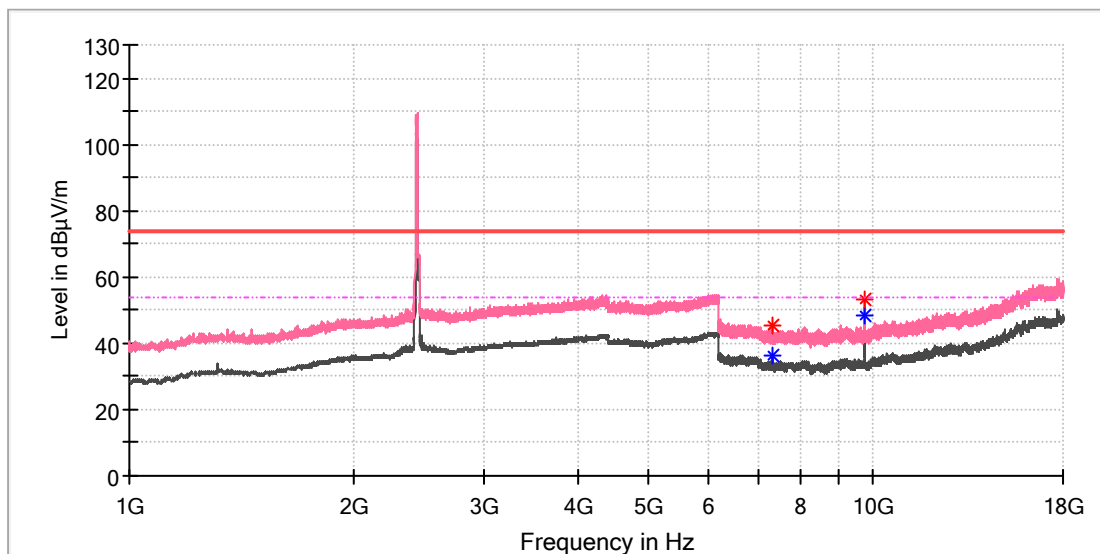


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.000000	---	42.39	54.00	11.61	100.0	H	325.0	13.5
4823.500000	53.85	---	74.00	20.15	100.0	H	334.0	13.5
7236.433333	45.00	---	74.00	29.00	100.0	H	116.0	8.6
7239.875000	---	36.70	54.00	17.30	100.0	H	116.0	8.6
9647.566667	53.05	---	74.00	20.95	100.0	H	316.0	10.4
9648.058333	---	48.10	54.00	5.90	100.0	H	0.0	10.4

## EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: WIFI 2.4G\_11b\_Mid CH  
 Test Voltage:: DC 5V  
 Remark: Temp 23 Humi:42%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin

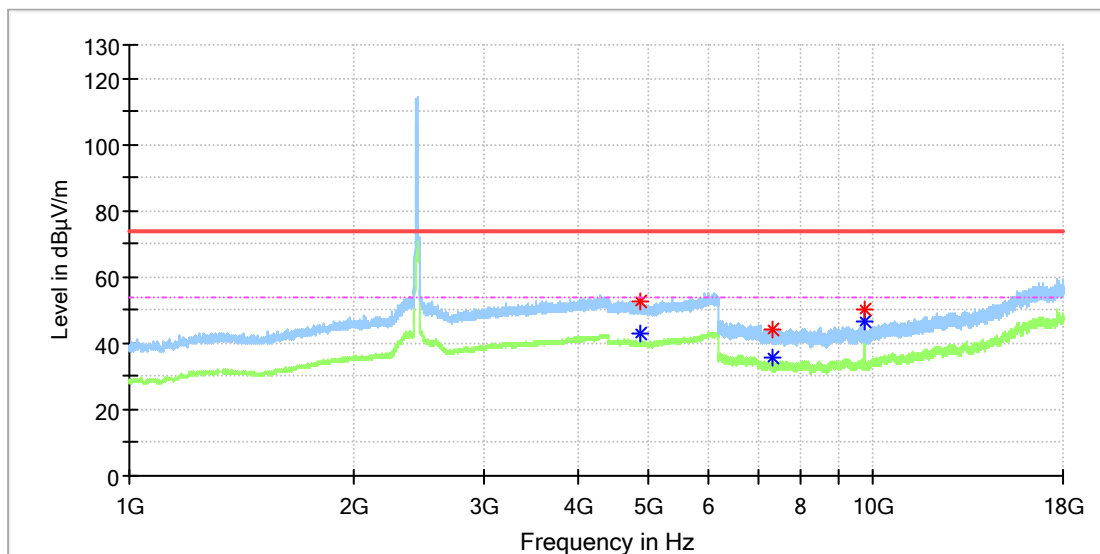


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7308.708333	45.13	---	74.00	28.87	100.0	V	207.0	8.2
7313.133333	---	36.37	54.00	17.63	100.0	V	60.0	8.2
9747.375000	53.16	---	74.00	20.84	100.0	V	60.0	10.4
9747.866667	---	48.18	54.00	5.82	100.0	V	60.0	10.4

## EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: WIFI 2.4G\_11b\_Mid CH  
 Test Voltage:: DC 5V  
 Remark: Temp 23 Humi:42%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin

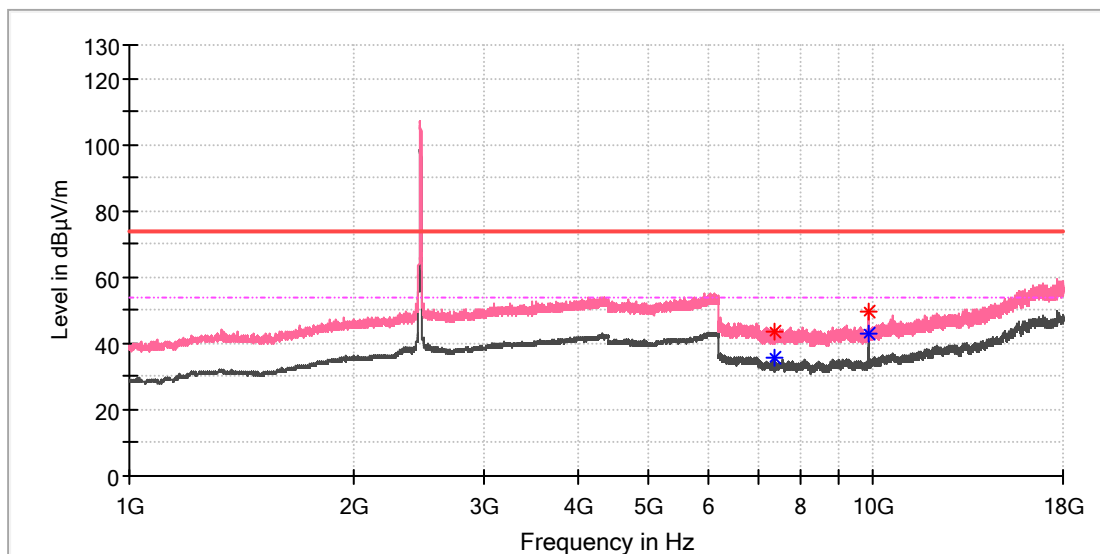


## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.500000	52.44	---	74.00	21.56	100.0	H	265.0	13.4
4874.000000	---	42.73	54.00	11.27	100.0	H	328.0	13.4
7304.283333	44.40	---	74.00	29.60	100.0	H	175.0	8.3
7309.200000	---	35.52	54.00	18.48	100.0	H	100.0	8.2
9747.866667	---	46.50	54.00	7.50	100.0	H	315.0	10.4
9747.866667	50.41	---	74.00	23.59	100.0	H	315.0	10.4

## 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 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

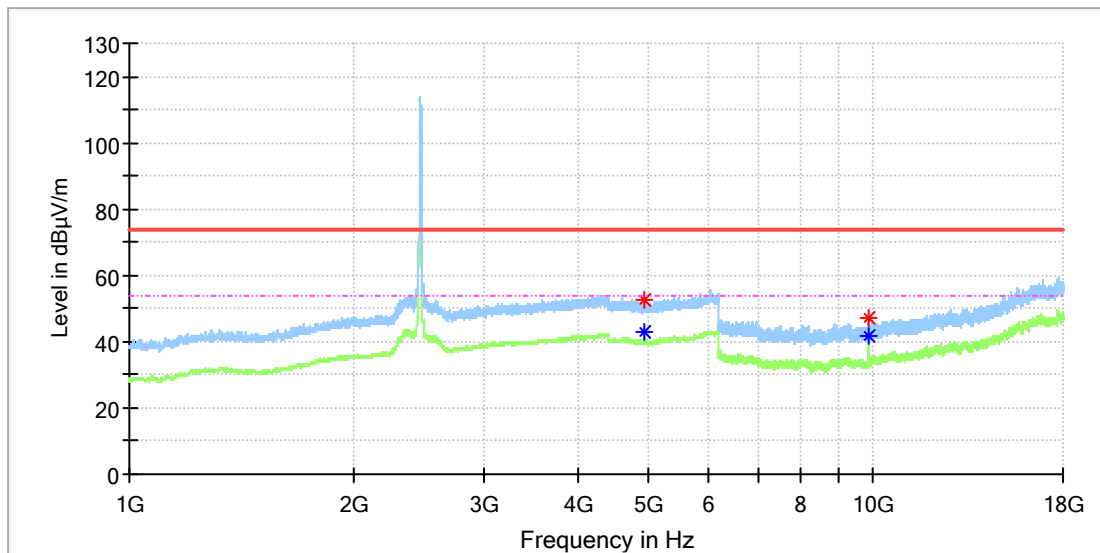


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7386.883333	---	35.40	54.00	18.60	100.0	V	275.0	8.2
7387.866667	43.82	---	74.00	30.18	100.0	V	275.0	8.2
9847.675000	---	42.94	54.00	11.06	100.0	V	219.0	10.6
9847.675000	49.36	---	74.00	24.64	100.0	V	219.0	10.6

## 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 23 Humi:42%
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)
4924.500000	---	42.81	54.00	11.19	100.0	H	297.0	13.3
4925.000000	52.65	---	74.00	21.35	100.0	H	297.0	13.3
9848.166667	---	41.82	54.00	12.19	100.0	H	225.0	10.6
9848.166667	46.94	---	74.00	27.06	100.0	H	225.0	10.6

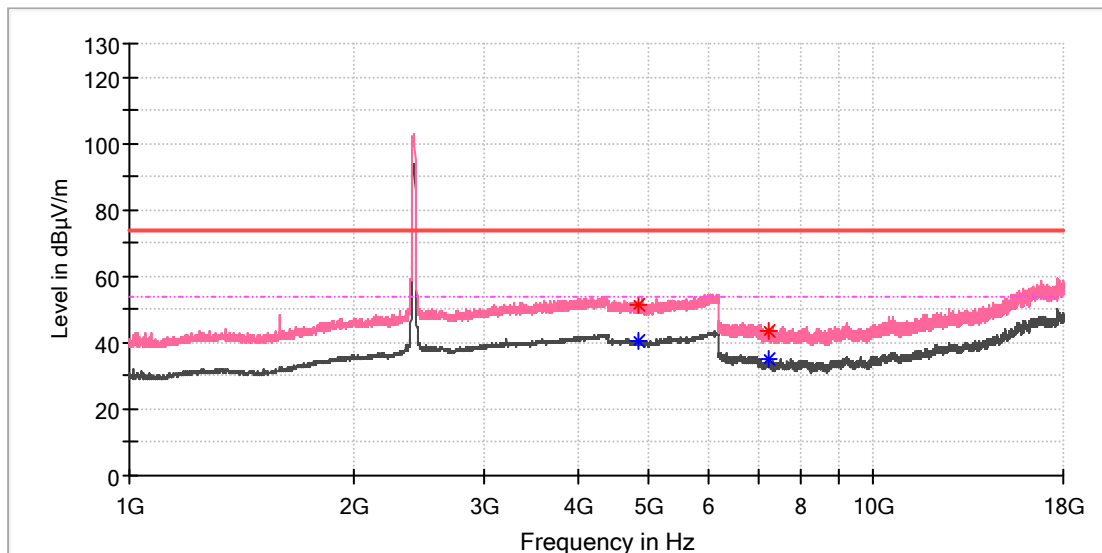


Produkte  
Products

Wi-Fi 802.11 g mode, 6Mbps  
1GHz - 18GHz

### 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:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



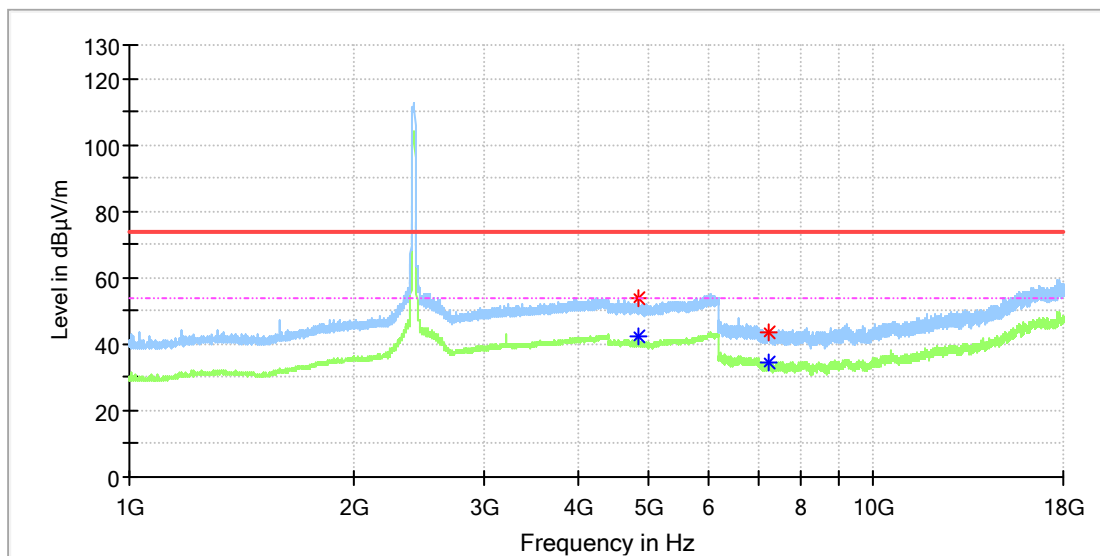
### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4820.000000	---	40.44	54.00	13.56	100.0	V	264.0	13.5
4820.000000	51.59	---	74.00	22.41	100.0	V	264.0	13.5
7230.533333	---	34.85	54.00	19.15	100.0	V	140.0	8.6
7233.483333	43.30	---	74.00	30.70	100.0	V	52.0	8.6

Produkte  
Products

## 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:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



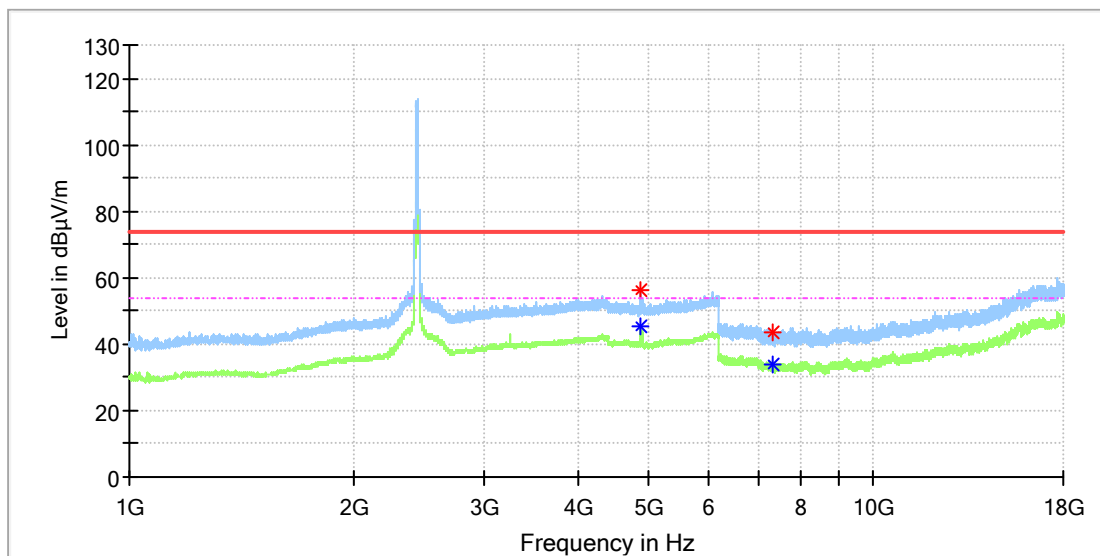
## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.500000	53.57	---	74.00	20.43	100.0	H	275.0	13.5
4825.500000	---	42.52	54.00	11.48	100.0	H	275.0	13.5
7236.433333	43.67	---	74.00	30.33	100.0	H	225.0	8.6
7238.400000	---	34.26	54.00	19.74	100.0	H	82.0	8.6

Produkte  
Products

## 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:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin

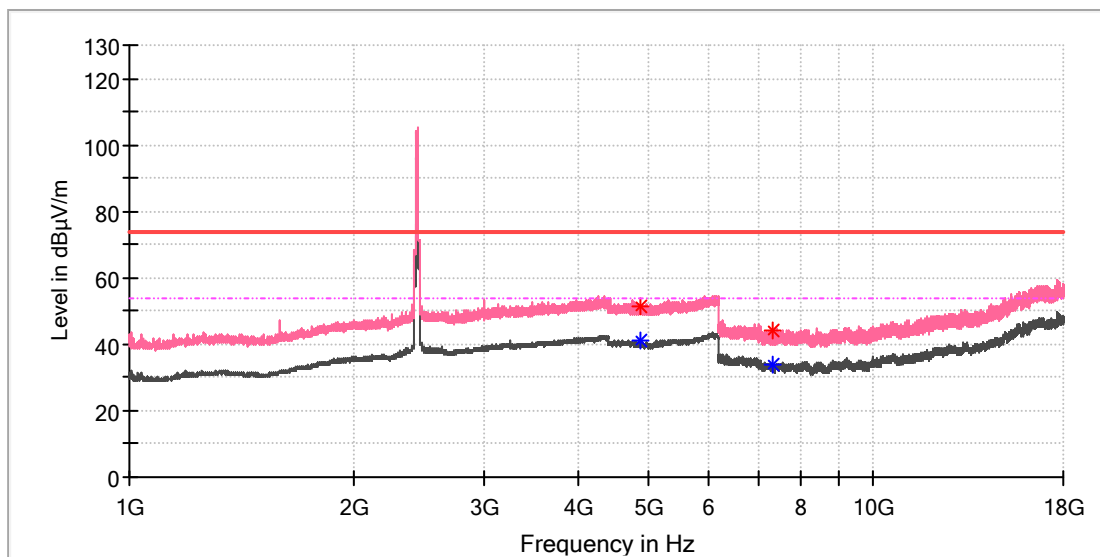


## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4876.500000	---	45.44	54.00	8.56	100.0	H	275.0	13.4
4876.500000	55.99	---	74.00	18.01	100.0	H	275.0	13.4
7314.116667	---	33.93	54.00	20.07	100.0	H	100.0	8.2
7315.591667	43.35	---	74.00	30.65	100.0	H	153.0	8.2

## 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:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



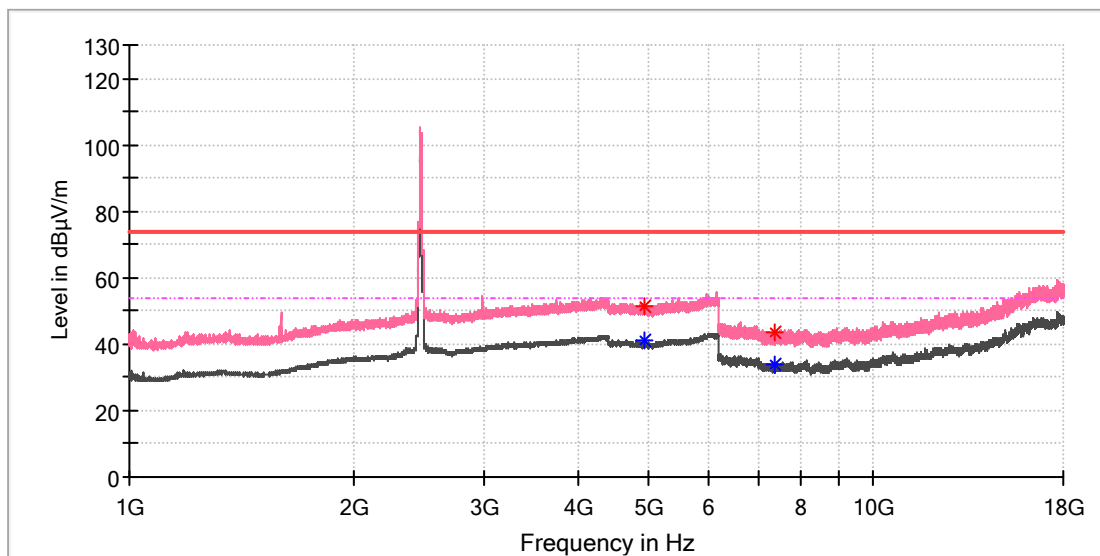
## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4875.000000	51.55	---	74.00	22.45	100.0	V	339.0	13.4
4877.000000	---	41.00	54.00	13.00	100.0	V	187.0	13.4
7309.200000	---	33.72	54.00	20.28	100.0	V	137.0	8.2
7312.150000	44.09	---	74.00	29.91	100.0	V	27.0	8.2

Produkte  
Products

## 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:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin

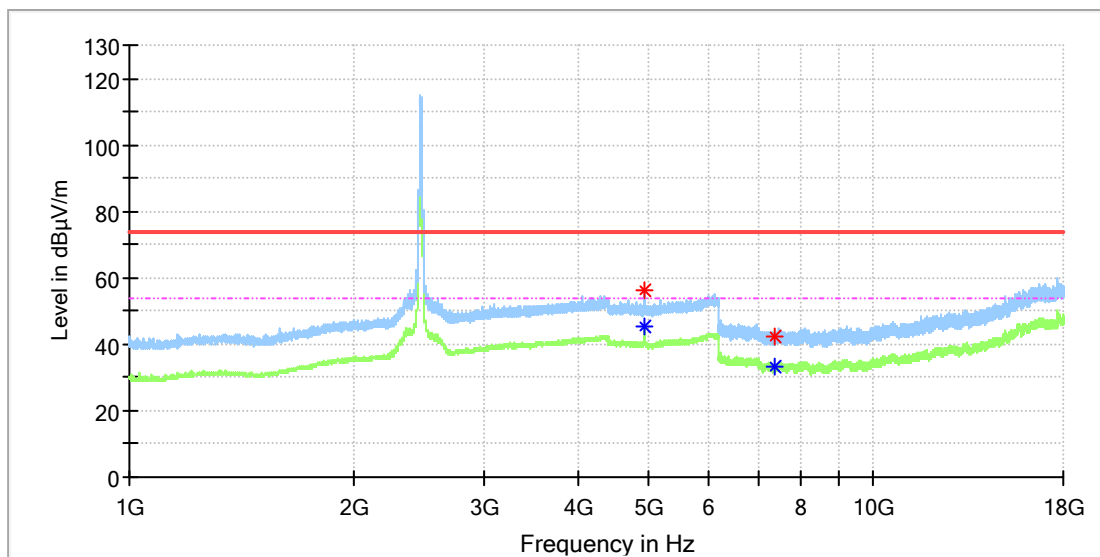


## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4921.000000	---	40.84	54.00	13.16	100.0	V	333.0	13.3
4922.500000	51.50	---	74.00	22.51	100.0	V	263.0	13.3
7382.458333	---	33.59	54.00	20.41	100.0	V	241.0	8.2
7382.458333	43.43	---	74.00	30.57	100.0	V	241.0	8.2

## 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:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



## Critical\_Freqs

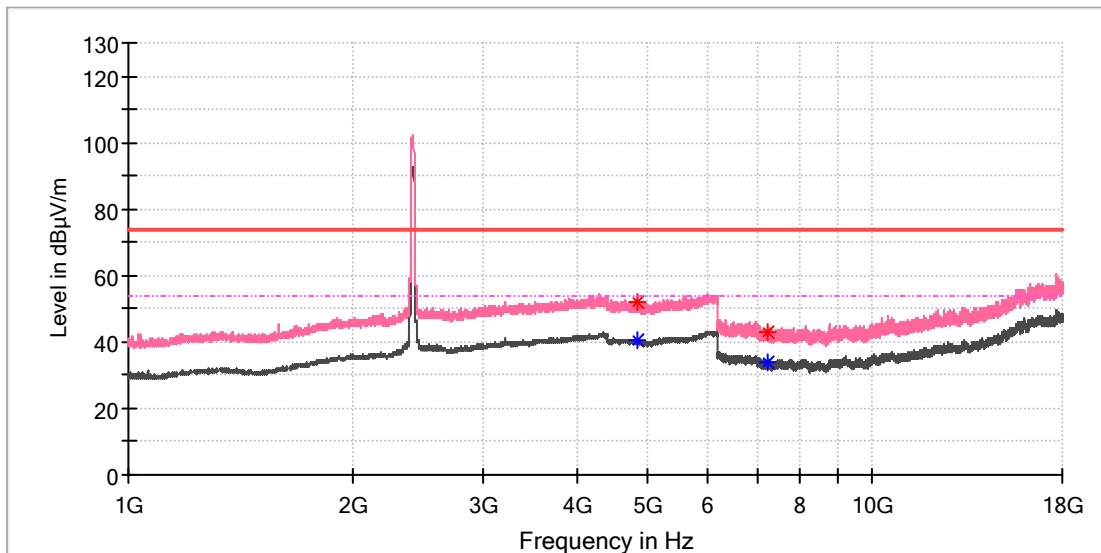
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4921.000000	56.38	---	74.00	17.62	100.0	H	266.0	13.3
4925.000000	---	45.35	54.00	8.65	100.0	H	275.0	13.3
7382.950000	---	33.53	54.00	20.47	100.0	H	296.0	8.2
7382.950000	42.42	---	74.00	31.58	100.0	H	296.0	8.2

Produkte  
Products

Wi-Fi 802.11 n(HT20) mode, MCS0  
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:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin

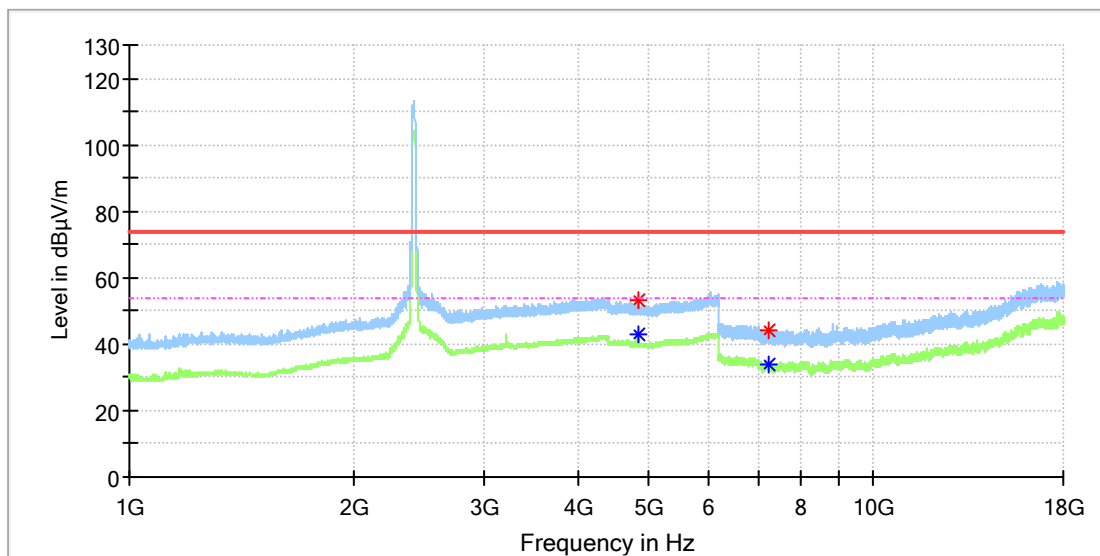


### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.500000	52.09	---	74.00	21.91	100.0	V	343.0	13.5
4825.000000	---	40.30	54.00	13.70	100.0	V	78.0	13.5
7235.450000	42.75	---	74.00	31.25	100.0	V	67.0	8.6
7237.416667	---	33.78	54.00	20.22	100.0	V	119.0	8.6

## 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:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



## Critical Freqs

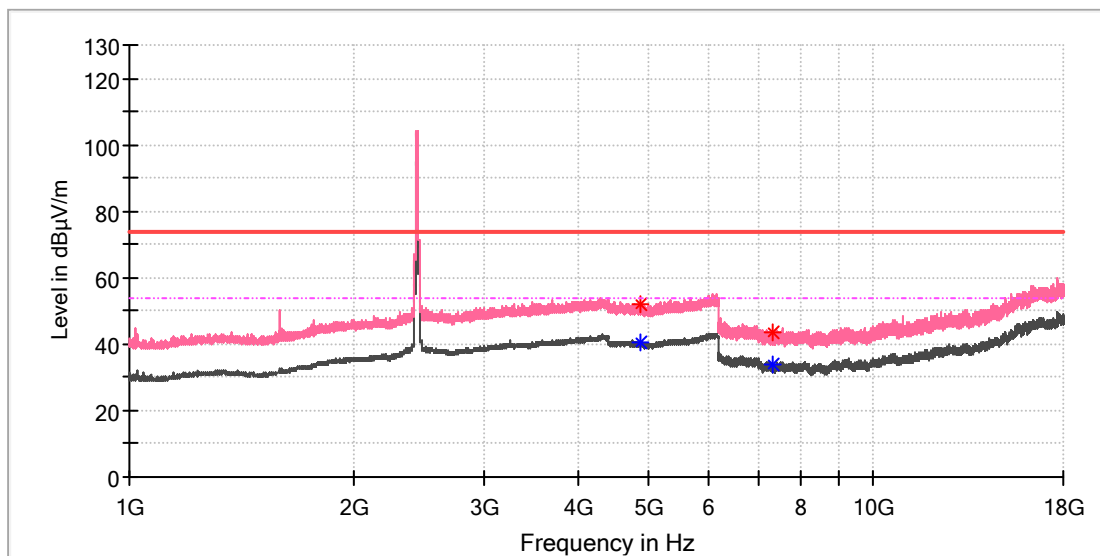
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4820.500000	---	42.93	54.00	11.07	100.0	H	155.0	13.5
4821.500000	53.37	---	74.00	20.63	100.0	H	278.0	13.5
7238.891667	43.84	---	74.00	30.16	100.0	H	310.0	8.6
7239.383333	---	33.85	54.00	20.15	100.0	H	22.0	8.6



Produkte  
Products

## 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:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



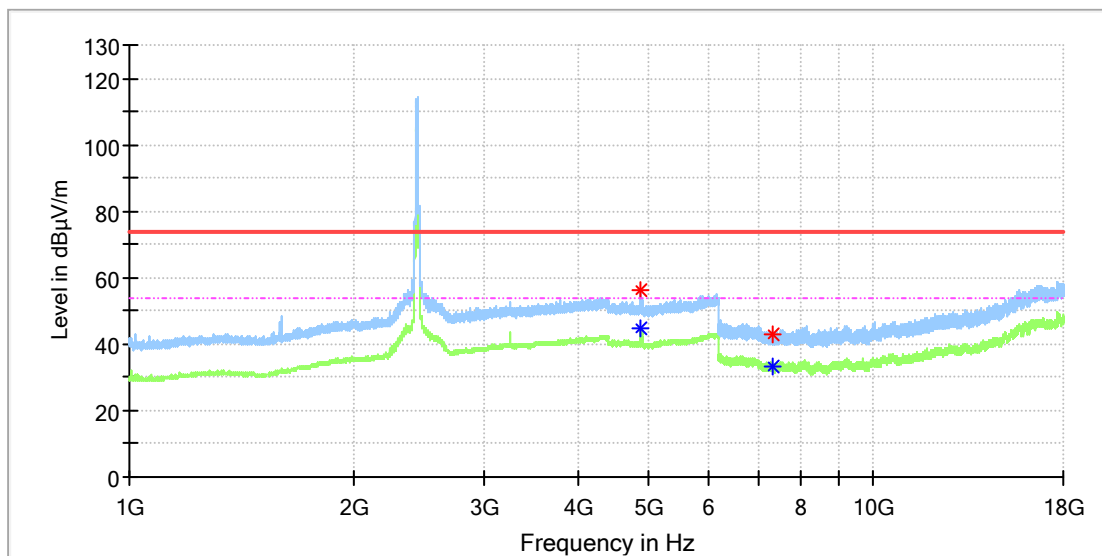
## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.500000	---	40.36	54.00	13.64	100.0	V	252.0	13.4
4874.000000	51.72	---	74.00	22.28	100.0	V	338.0	13.4
7311.166667	43.36	---	74.00	30.64	100.0	V	190.0	8.2
7314.116667	---	33.75	54.00	20.25	100.0	V	260.0	8.2

Produkte  
 Products

### 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:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



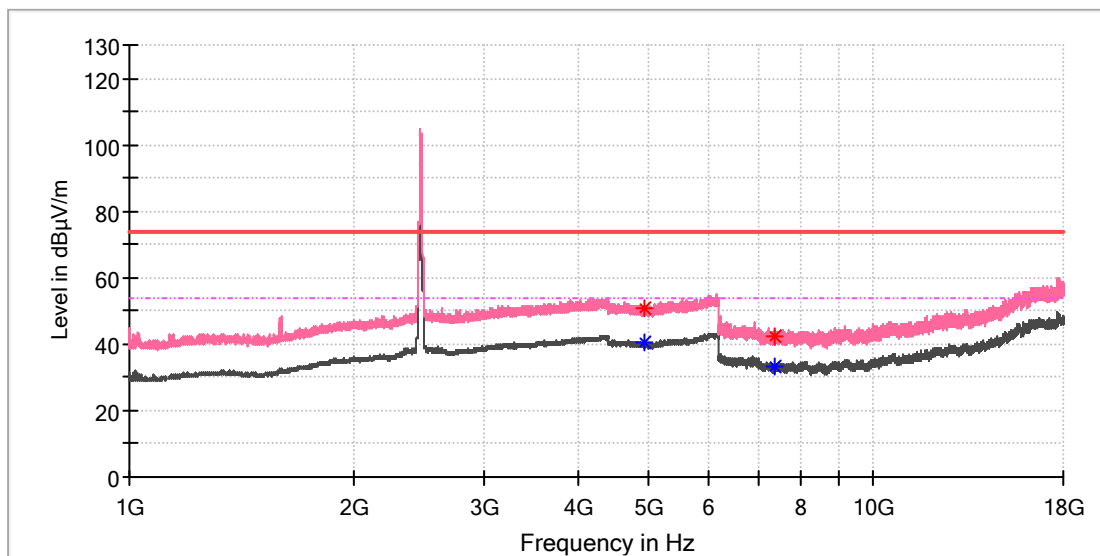
### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4876.000000	56.32	---	74.00	17.68	100.0	H	272.0	13.4
4877.000000	---	45.04	54.00	8.96	100.0	H	272.0	13.4
7312.641667	---	33.20	54.00	20.80	100.0	H	276.0	8.2
7316.575000	42.64	---	74.00	31.36	100.0	H	294.0	8.2

Produkte  
Products

## 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:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin

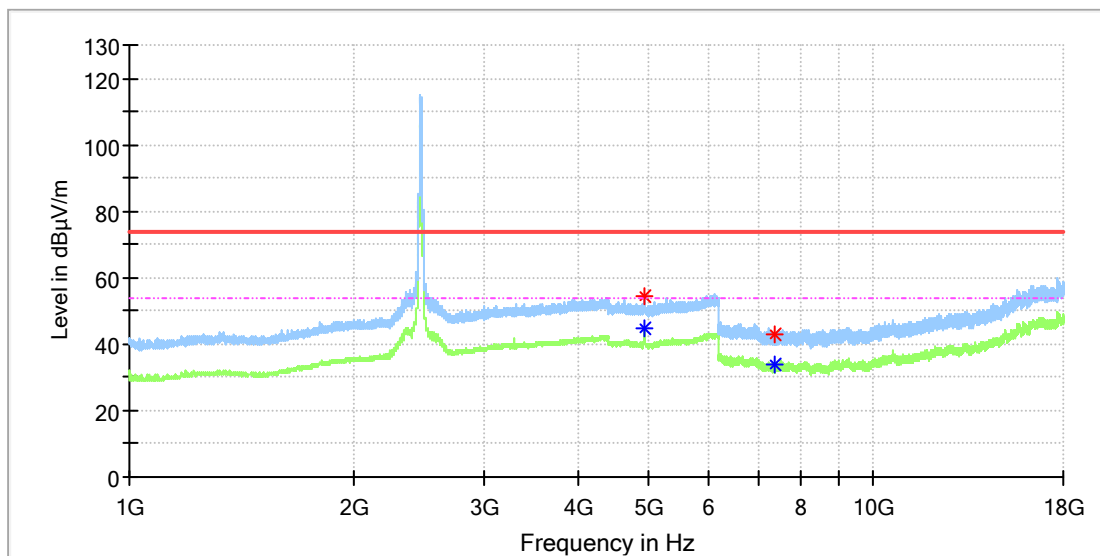


## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4925.000000	50.89	---	74.00	23.11	100.0	V	107.0	13.3
4927.500000	---	40.39	54.00	13.61	100.0	V	179.0	13.3
7381.966667	42.60	---	74.00	31.40	100.0	V	64.0	8.2
7383.441667	---	33.24	54.00	20.76	100.0	V	229.0	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:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



## Critical Freqs

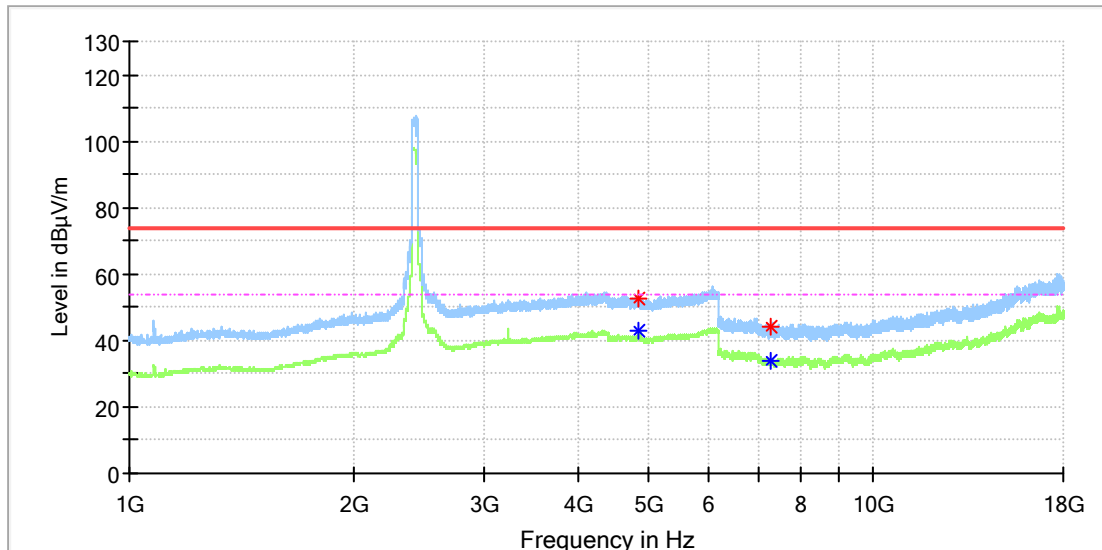
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4920.500000	54.58	---	74.00	19.42	100.0	H	266.0	13.3
4921.500000	---	44.92	54.00	9.08	100.0	H	274.0	13.3
7386.883333	---	33.71	54.00	20.29	100.0	H	224.0	8.2
7386.883333	42.64	---	74.00	31.36	100.0	H	224.0	8.2

Produkte  
Products

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: Wi-Fi 2.4G 11n40\_Low CH  
 Test Voltage:: DC 5V  
 Remark: Temp 24 Humi:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



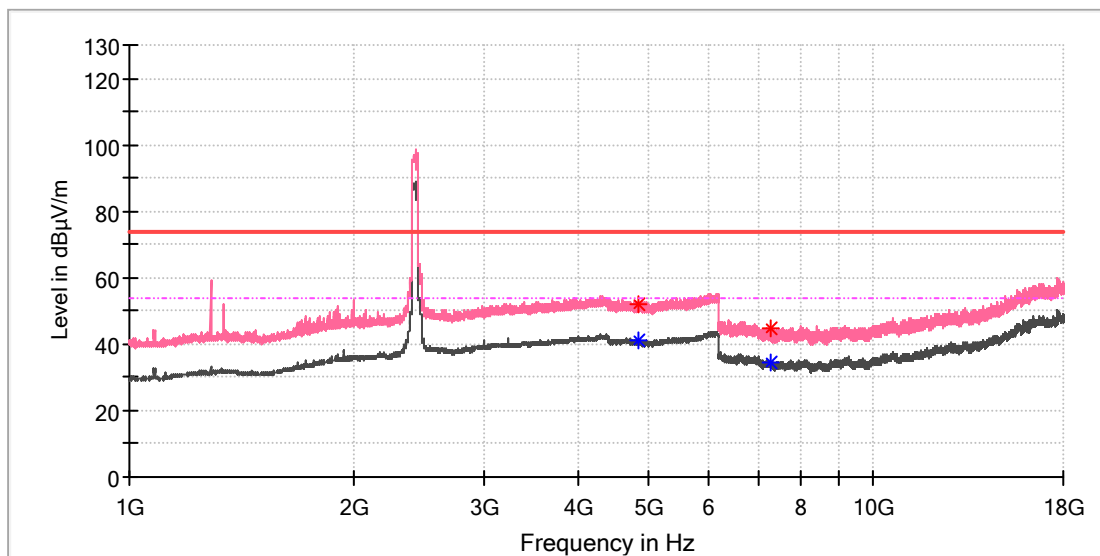
### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4843.000000	52.72	---	74.00	21.28	100.0	H	158.0	13.4
4844.000000	---	42.91	54.00	11.09	100.0	H	158.0	13.4
7266.425000	44.05	---	74.00	29.95	100.0	H	298.0	8.5
7266.425000	---	34.06	54.00	19.94	100.0	H	298.0	8.5

Produkte  
Products

## EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: Wi-Fi 2.4G 11n40\_Low CH  
 Test Voltage:: DC 5V  
 Remark: Temp 24 Humi:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin

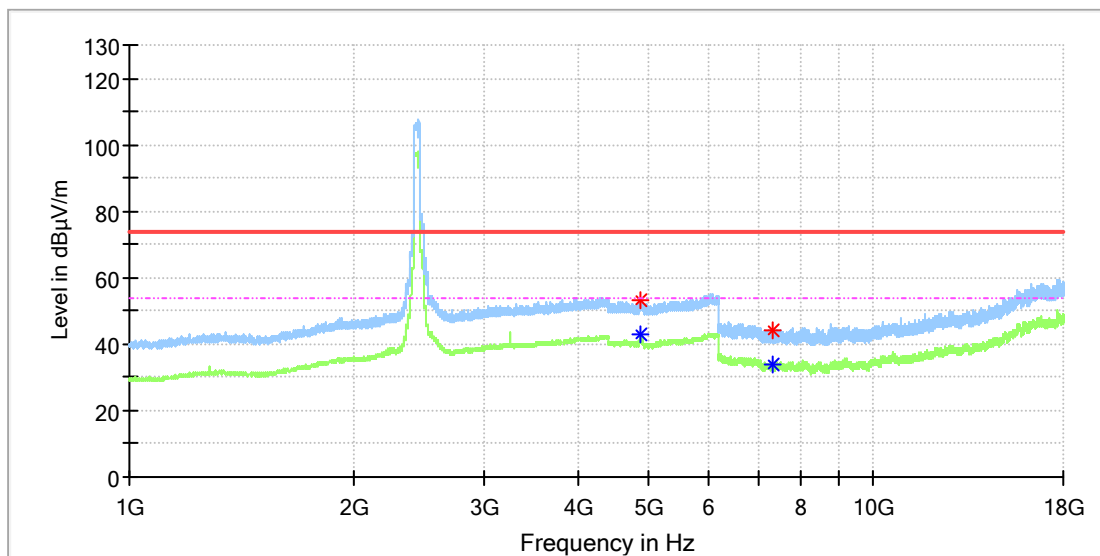


## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4843.000000	51.88	---	74.00	22.12	200.0	V	213.0	13.4
4845.500000	---	40.84	54.00	13.16	100.0	V	178.0	13.4
7261.016667	44.84	---	74.00	29.16	100.0	V	97.0	8.5
7266.916667	---	34.45	54.00	19.55	200.0	V	262.0	8.5

## EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: Wi-Fi 2.4G 11n40\_Mid CH  
 Test Voltage:: DC 5V  
 Remark: Temp 24 Humi:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin

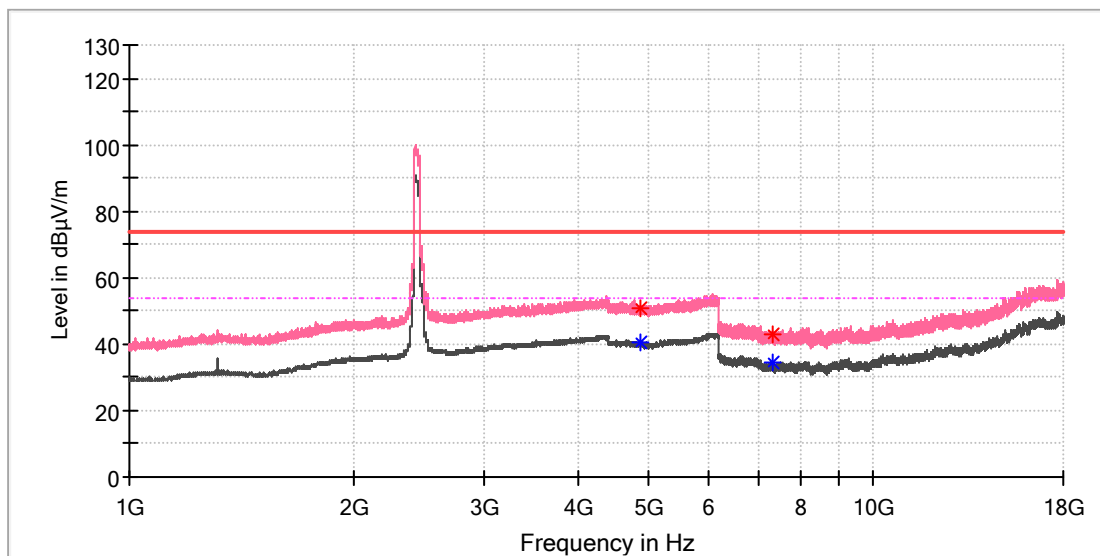


## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.000000	---	43.22	54.00	10.78	100.0	H	212.0	13.4
4873.000000	53.41	---	74.00	20.59	100.0	H	212.0	13.4
7311.166667	---	33.70	54.00	20.30	100.0	H	256.0	8.2
7317.558333	44.27	---	74.00	29.73	100.0	H	144.0	8.2

## EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: Wi-Fi 2.4G 11n40\_Mid CH  
 Test Voltage: DC 5V  
 Remark: Temp 24 Humi:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



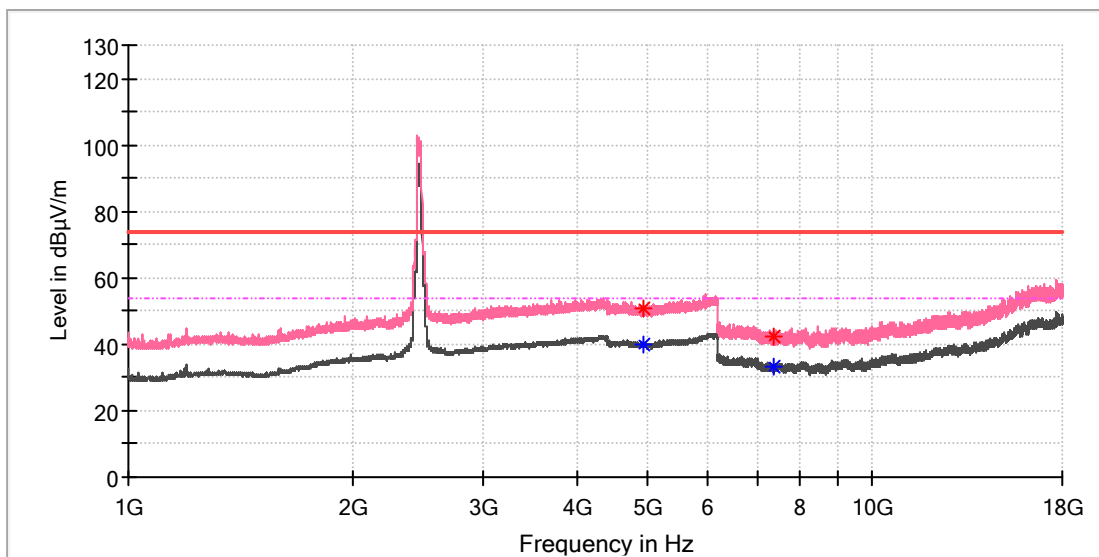
## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.000000	51.00	---	74.00	23.00	100.0	V	157.0	13.4
4874.000000	---	40.60	54.00	13.40	100.0	V	308.0	13.4
7311.658333	---	34.18	54.00	19.82	100.0	V	120.0	8.2
7311.658333	42.74	---	74.00	31.26	100.0	V	120.0	8.2



## 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:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



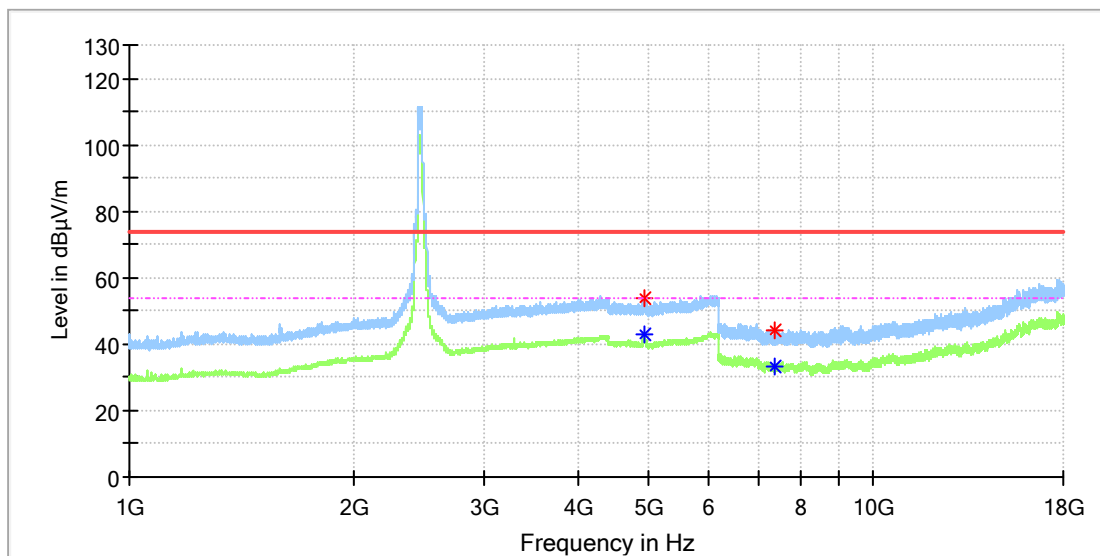
## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4921.500000	---	40.07	54.00	13.93	100.0	V	14.0	13.3
4925.500000	50.69	---	74.00	23.31	100.0	V	112.0	13.3
7385.900000	42.30	---	74.00	31.70	100.0	V	250.0	8.2
7386.391667	---	33.51	54.00	20.49	100.0	V	250.0	8.2

Produkte  
Products

## 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:45%  
 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)
4922.500000	53.85	---	74.00	20.15	100.0	H	265.0	13.3
4923.500000	---	43.14	54.00	10.86	100.0	H	265.0	13.3
7386.883333	---	33.39	54.00	20.61	100.0	H	149.0	8.2
7386.883333	44.40	---	74.00	29.60	100.0	H	149.0	8.2

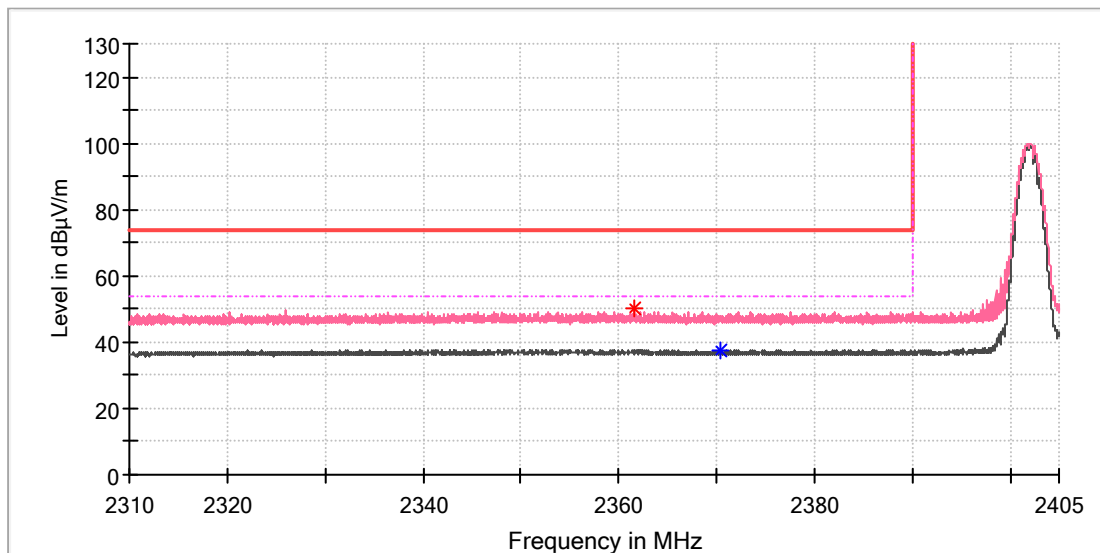
Produkte  
Products

## Appendix C.2: Test Results of Radiated Emissions in Restricted Bands

Bluetooth Low Energy  
Low channel

### EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_TX_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



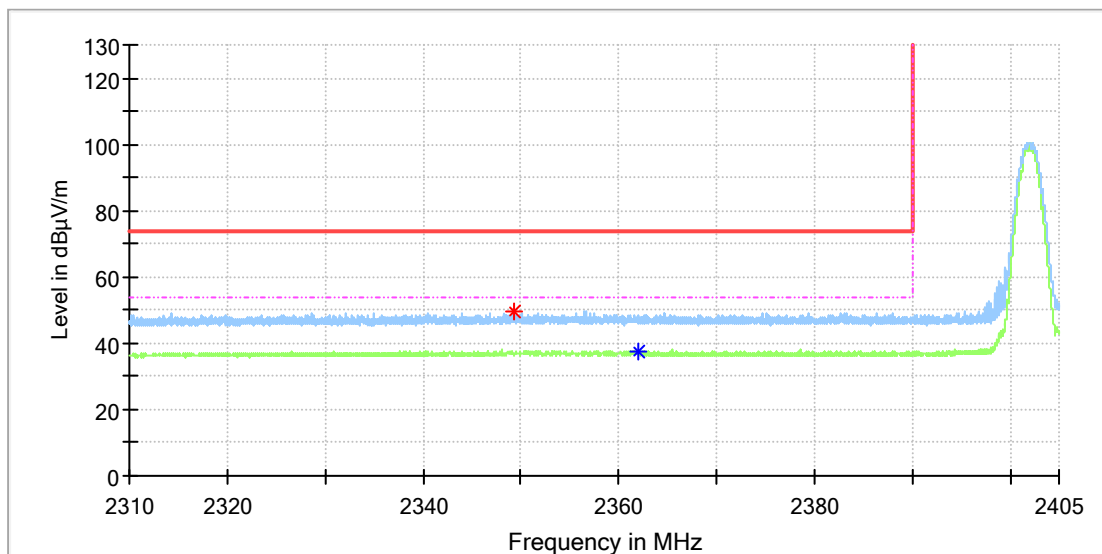
### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2361.607353	50.03	---	74.00	23.97	100.0	V	341.0	6.9
2370.352941	---	37.62	54.00	16.38	100.0	V	267.0	6.9

Produkte  
 Products

### EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: BLE\_TX\_Low CH  
 Test Voltage:: DC 5V  
 Remark: Temp 24 Humi:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

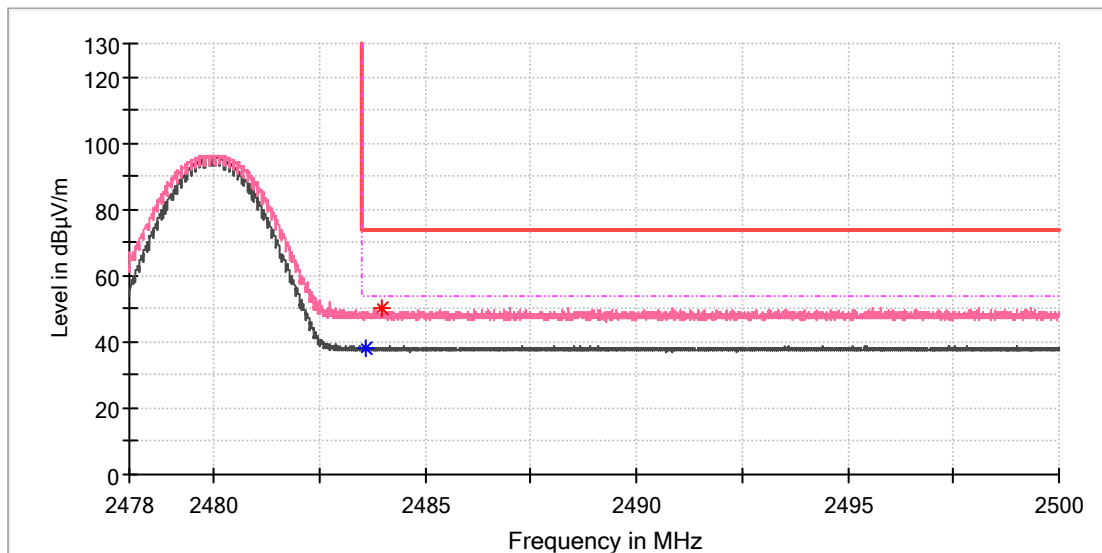
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2349.369118	49.65	---	74.00	24.35	100.0	H	148.0	6.9
2361.942647	---	37.52	54.00	16.48	100.0	H	310.0	6.9

Produkte  
 Products

High channel

EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: BLE\_TX\_High CH  
 Test Voltage: DC 5V  
 Remark: Temp 24 Humi:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



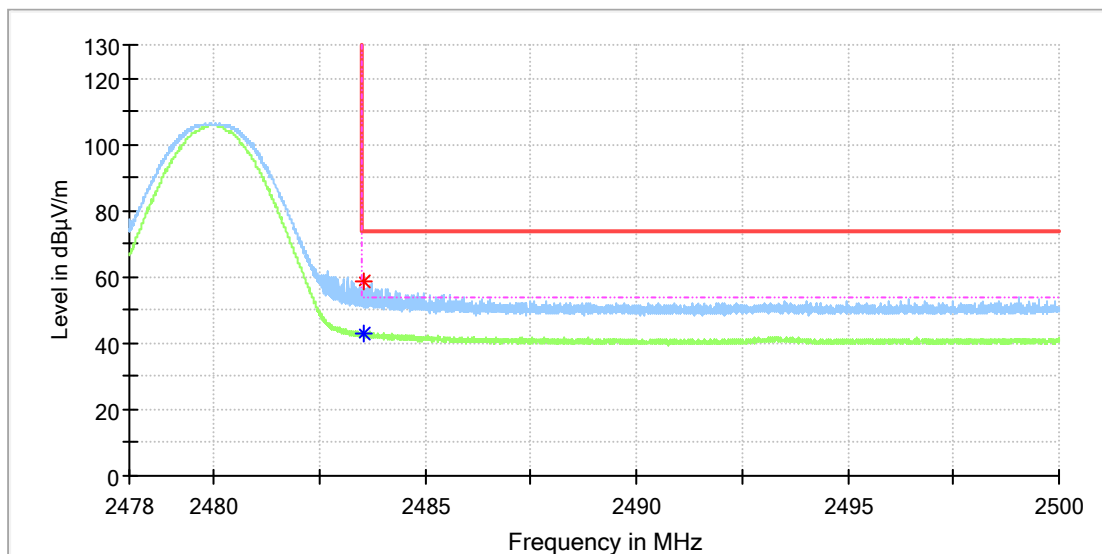
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.616471	---	38.39	54.00	15.61	100.0	V	89.0	7.4
2483.965882	49.89	---	74.00	24.11	100.0	V	67.0	7.4

Produkte  
 Products

### EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: BLE\_TX\_High CH  
 Test Voltage:: DC 5V  
 Remark: Temp 24 Humi:45%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

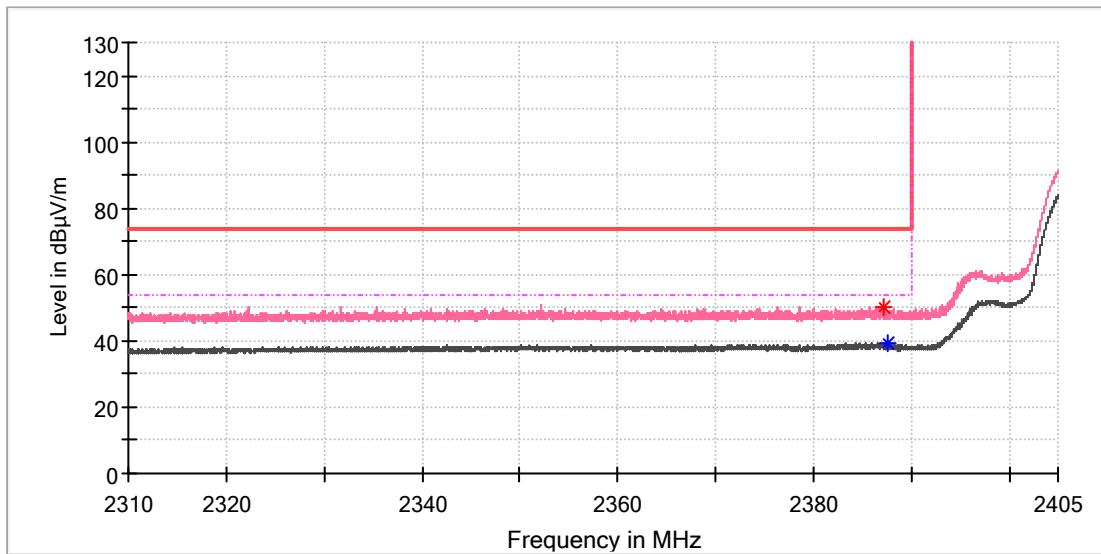
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.535588	58.76	---	74.00	15.24	100.0	H	0.0	7.4
2483.545294	---	43.11	54.00	10.89	100.0	H	358.0	7.4

Produkte  
Products

**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 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

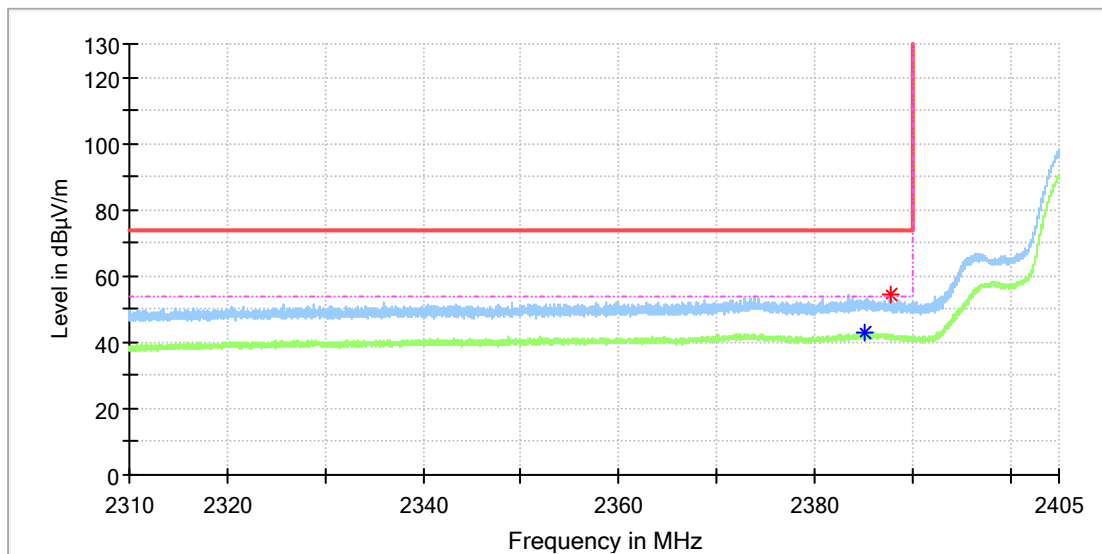


**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.159559	50.04	---	74.00	23.96	100.0	V	174.0	7.0
2387.550735	---	39.14	54.00	14.86	100.0	V	174.0	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 23 Humi:42%  
 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)
2385.217647	---	43.00	54.00	11.00	100.0	H	219.0	7.0
2387.858088	54.17	---	74.00	19.83	100.0	H	219.0	7.0

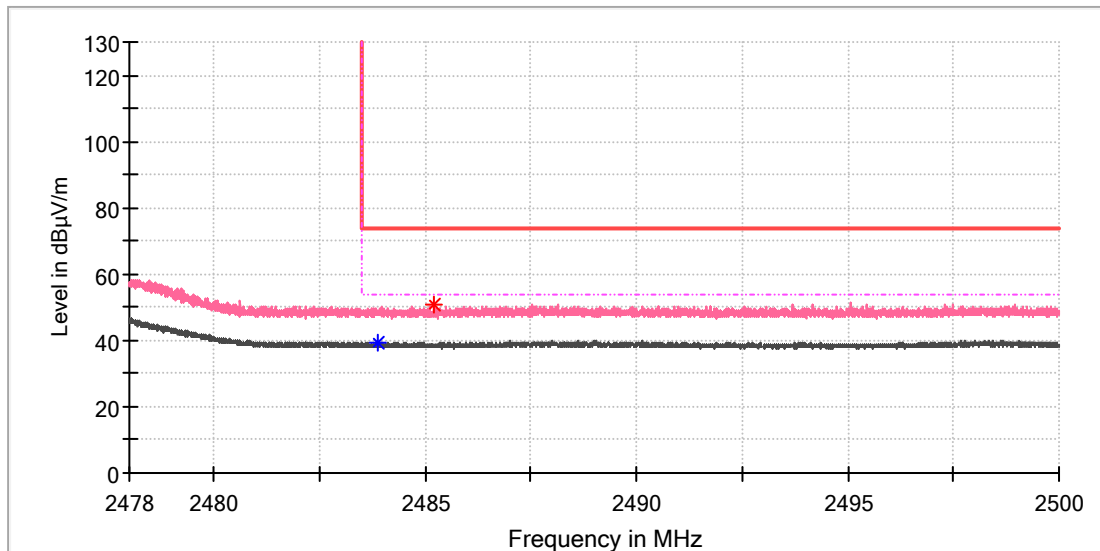


Produkte  
Products

### 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 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



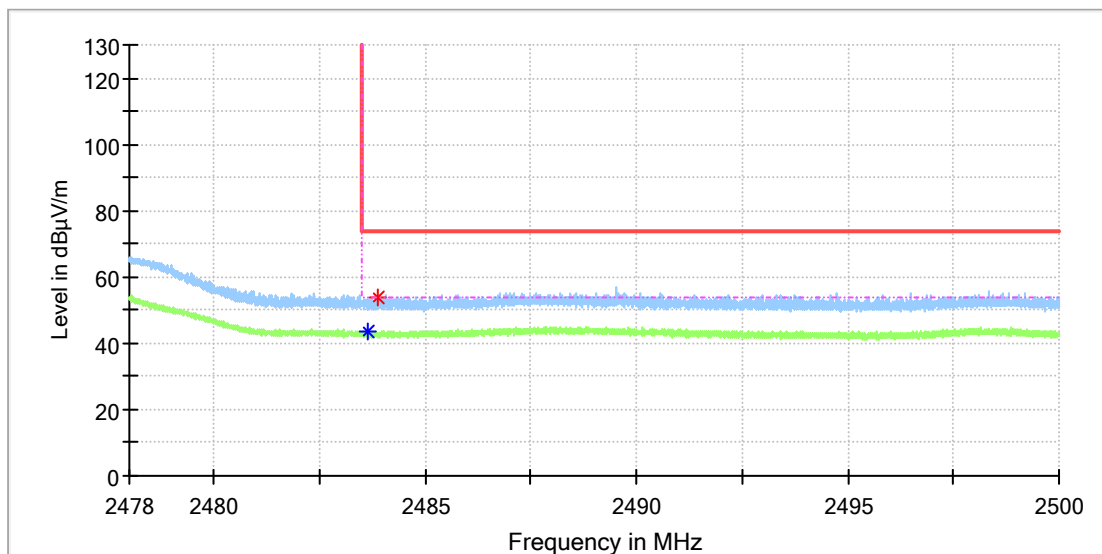
## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.859118	---	39.26	54.00	14.74	100.0	V	199.0	7.4
2485.224412	50.86	---	74.00	23.14	100.0	V	187.0	7.4

Produkte  
 Products

### 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 23 Humi:42%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

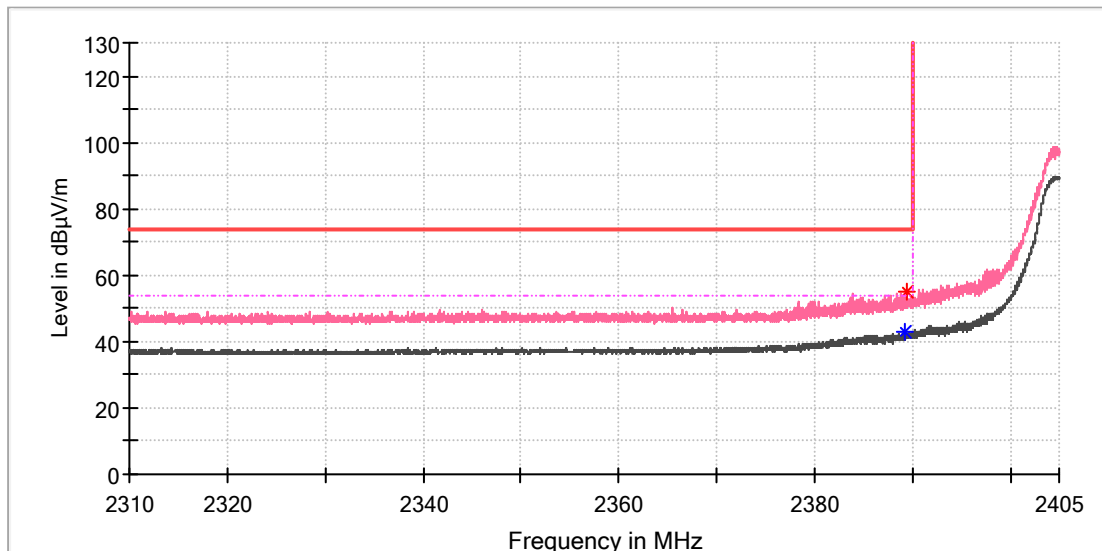
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.629412	---	43.70	54.00	10.30	100.0	H	199.0	7.4
2483.855882	53.96	---	74.00	20.04	100.0	H	199.0	7.4

Produkte  
Products

**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 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



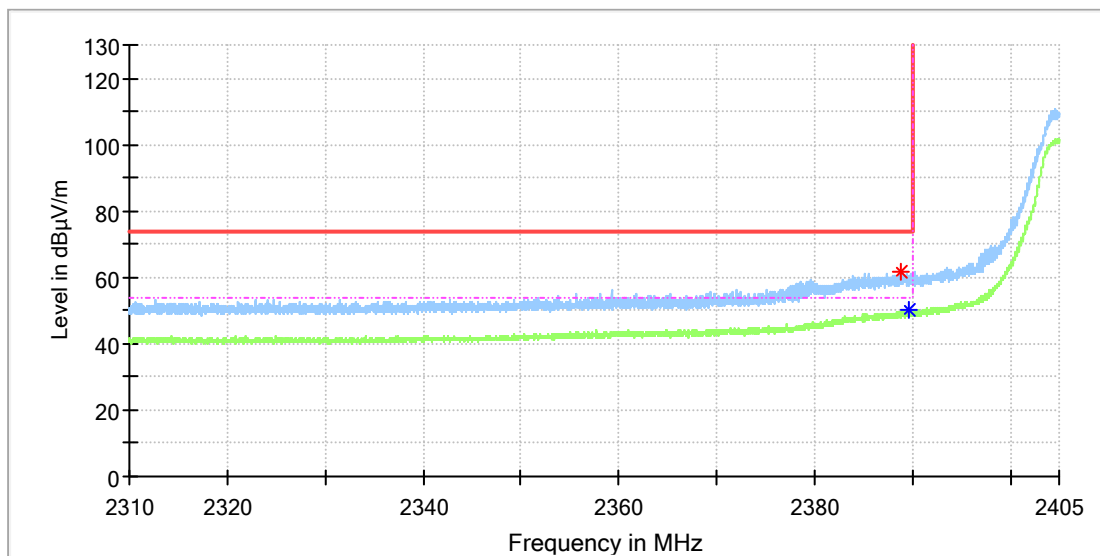
**Critical Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.269118	---	42.92	54.00	11.08	100.0	V	202.0	7.0
2389.352941	54.85	---	74.00	19.15	100.0	V	202.0	7.0

Produkte  
Products

## 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 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



## Critical Freqs

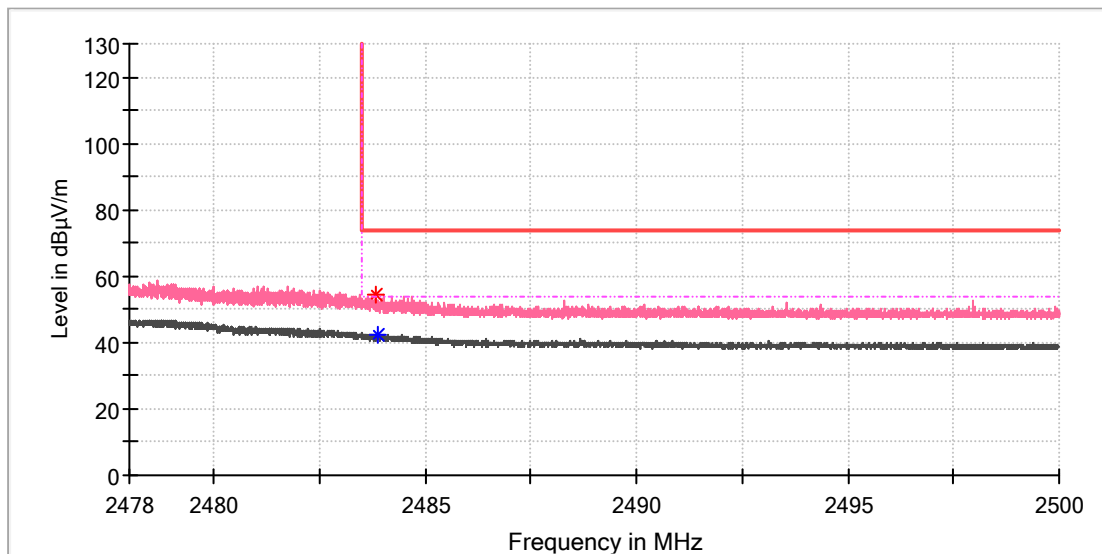
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.891912	61.56	---	74.00	12.44	100.0	H	156.0	7.0
2389.576471	---	49.99	54.00	4.01	100.0	H	156.0	7.0

Produkte  
 Products

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 23 Humi:42%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



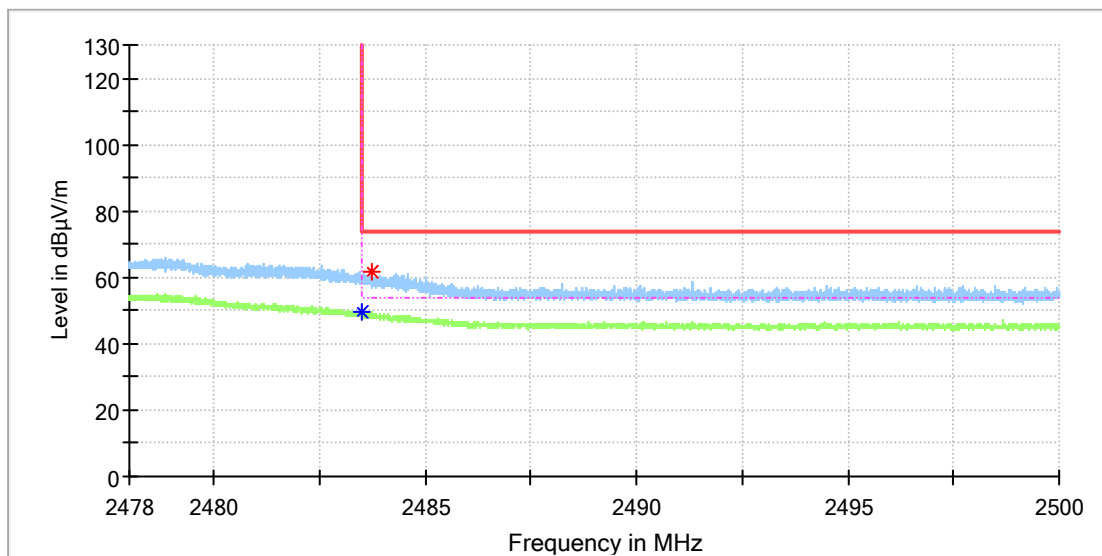
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.833235	54.60	---	74.00	19.40	100.0	V	204.0	7.4
2483.891471	---	42.51	54.00	11.49	100.0	V	204.0	7.4

Produkte  
Products

### 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 23 Humi:42%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

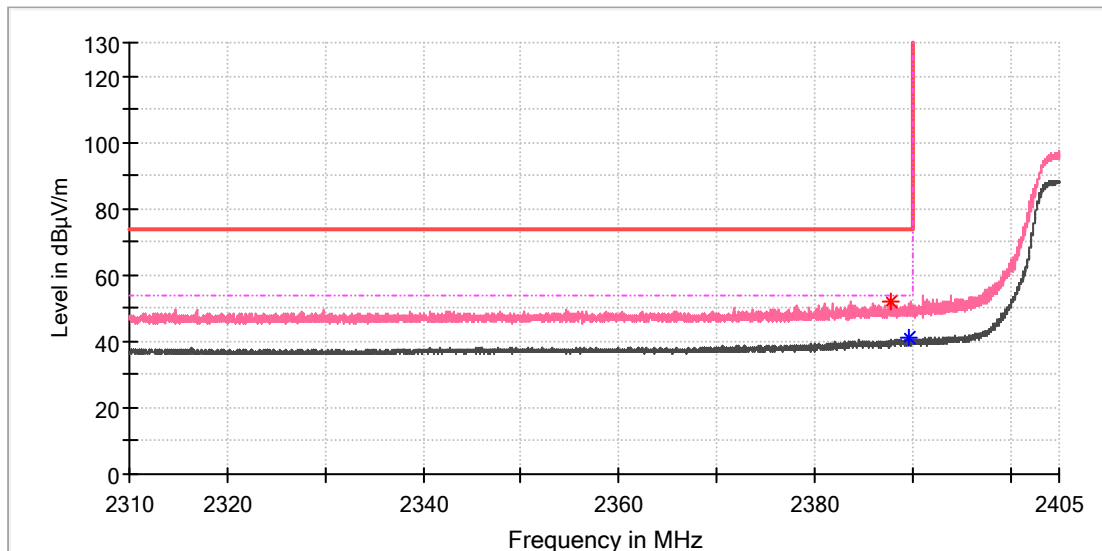
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.522647	---	49.32	54.00	4.68	100.0	H	143.0	7.4
2483.723235	61.49	---	74.00	12.51	100.0	H	143.0	7.4

Produkte  
Products

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_11n20M_Low_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



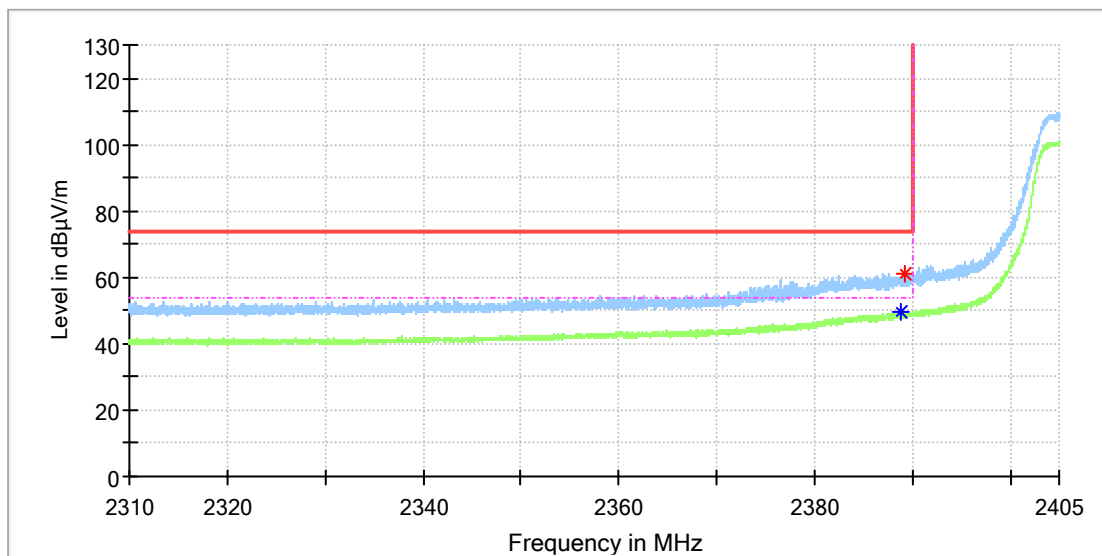
### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.746324	52.16	---	74.00	21.84	100.0	V	206.0	7.0
2389.646324	---	40.93	54.00	13.07	100.0	V	206.0	7.0

Produkte  
Products

### EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: WIFI 2.4G\_11n20M\_Low\_CH  
 Test Voltage:: DC 5V  
 Remark: Temp 23 Humi:42%  
 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)
2388.919853	---	49.50	54.00	4.50	100.0	H	134.0	7.0
2389.171324	61.07	---	74.00	12.93	100.0	H	134.0	7.0

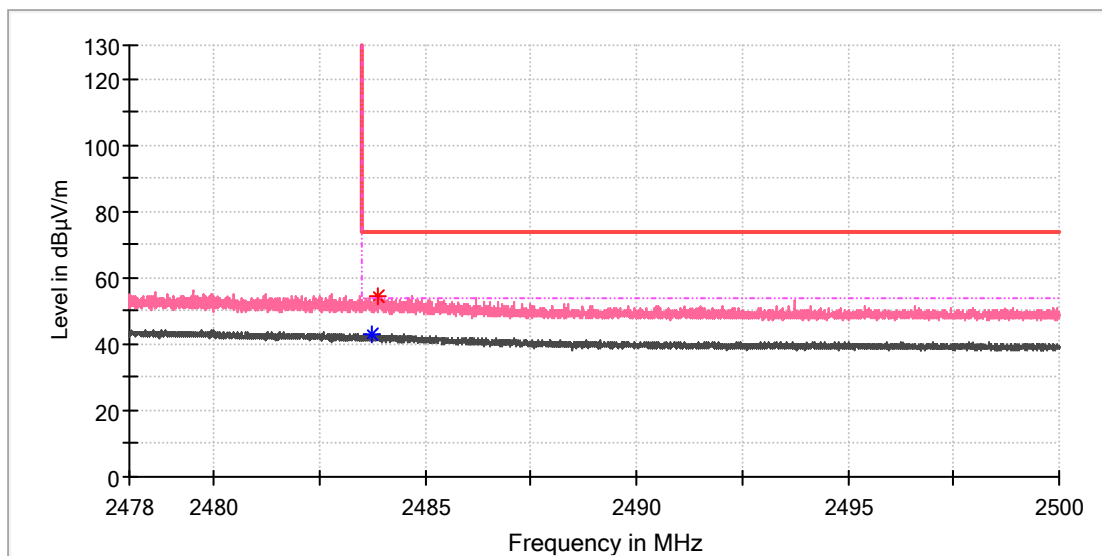


Produkte  
 Products

**High channel**

**EUT Information**

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: WIFI 2.4G\_11n20M\_High\_CH  
 Test Voltage: DC 5V  
 Remark: Temp 23 Humi:42%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



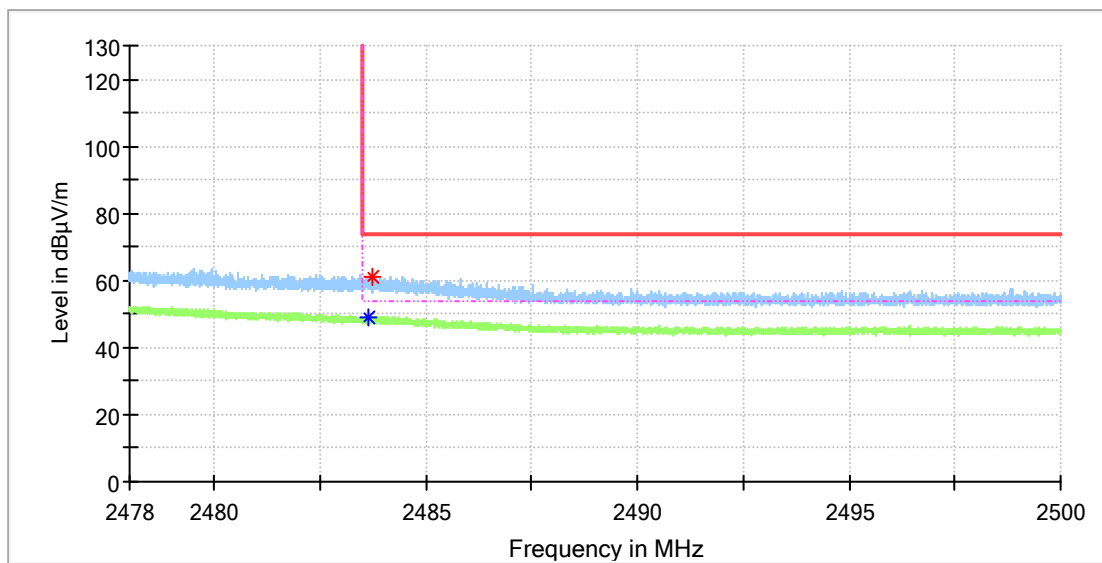
**Critical Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.755588	---	42.92	54.00	11.08	100.0	V	198.0	7.4
2483.901177	54.30	---	74.00	19.70	100.0	V	198.0	7.4

Produkte  
 Products

### EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: WIFI 2.4G\_11n20M\_High\_CH  
 Test Voltage:: DC 5V  
 Remark: Temp 23 Humi:42%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

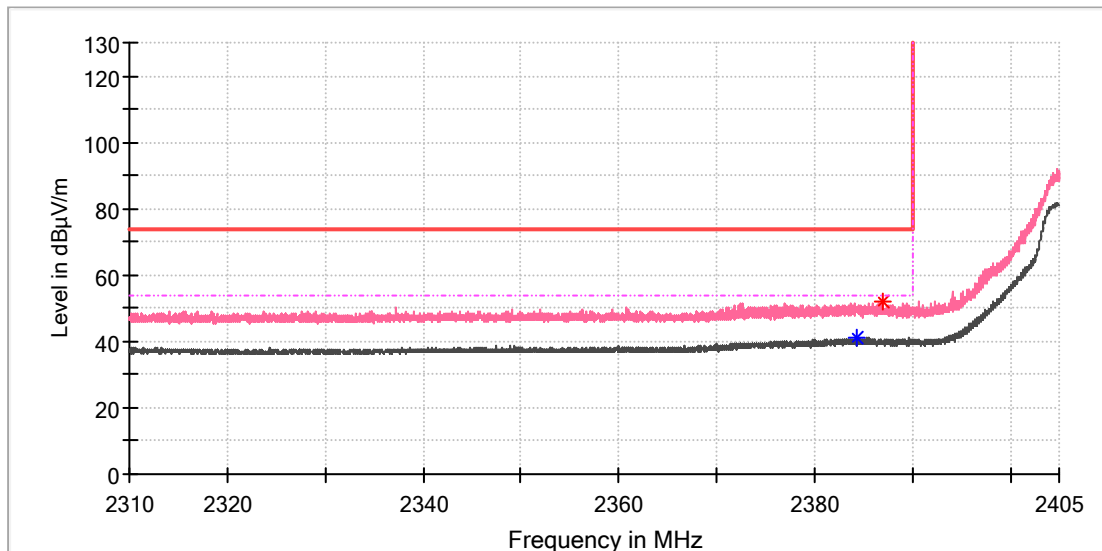
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.665000	---	49.16	54.00	4.84	100.0	H	144.0	7.4
2483.713530	61.05	---	74.00	12.95	100.0	H	144.0	7.4

Produkte  
 Products

**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_11n40M_Low_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



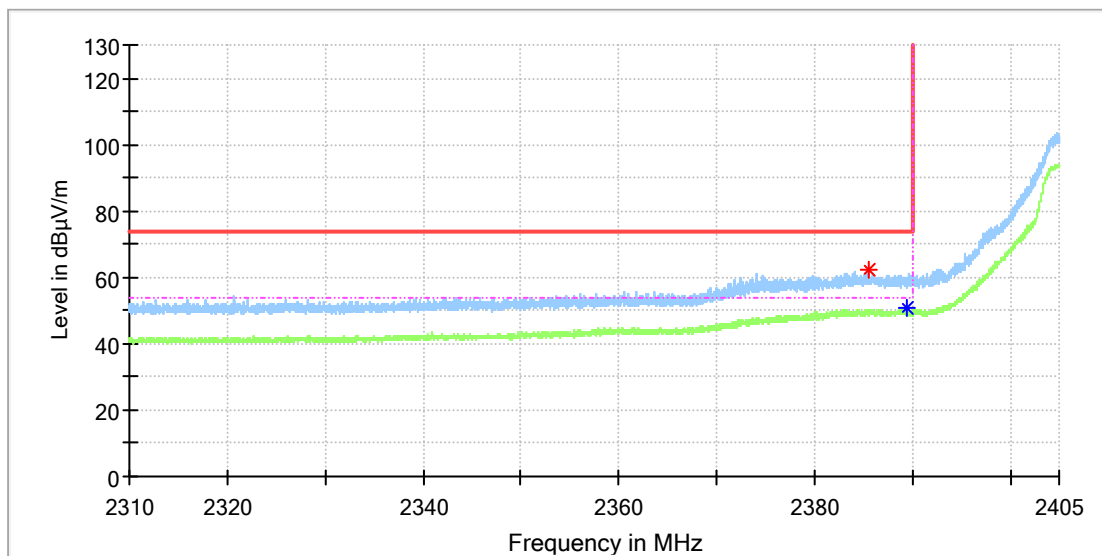
**Critical Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2384.225735	---	41.02	54.00	12.98	100.0	V	211.0	7.0
2387.005882	51.99	---	74.00	22.01	100.0	V	211.0	7.0

Produkte  
 Products

### EUT Information

EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: WIFI 2.4G\_11n40M\_Low\_CH  
 Test Voltage:: DC 5V  
 Remark: Temp 23 Humi:42%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

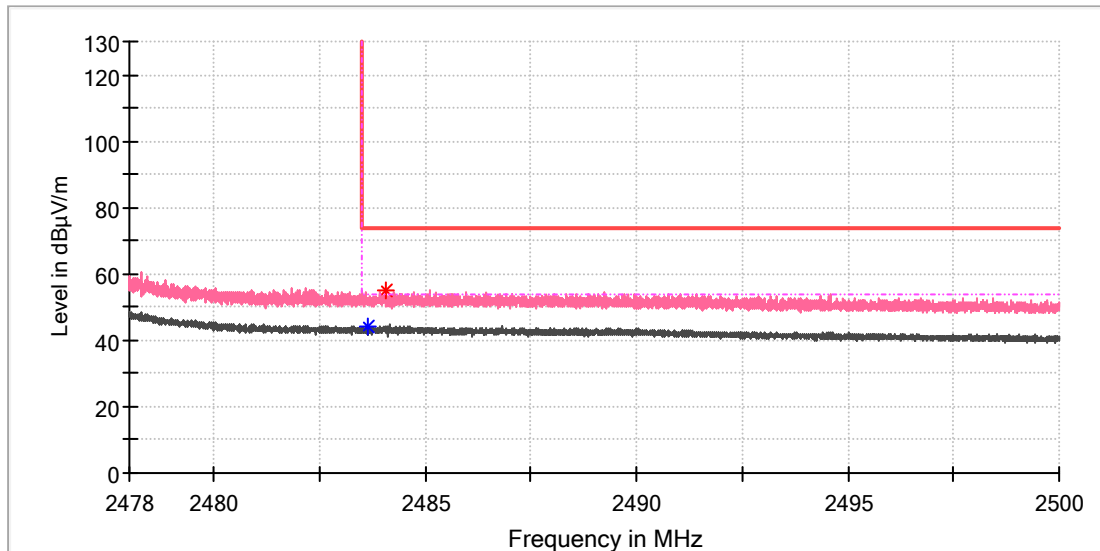
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.552941	62.07	---	74.00	11.93	100.0	H	155.0	7.0
2389.534559	---	50.56	54.00	3.44	100.0	H	129.0	7.0

Produkte  
Products

### High channel

### EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11n40M_High_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



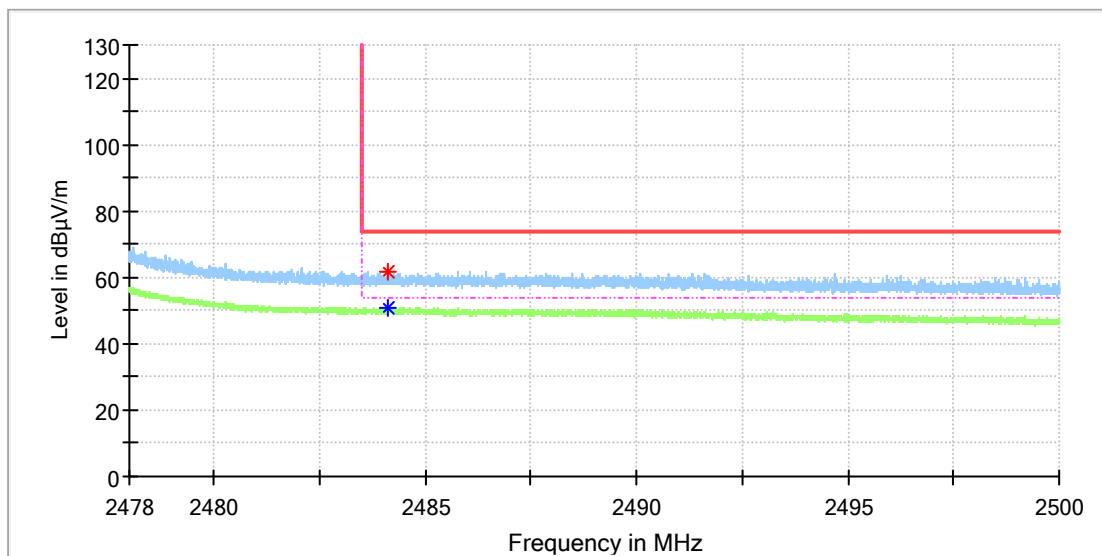
### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.658530	---	44.18	54.00	9.82	100.0	V	208.0	7.4
2484.050000	54.80	---	74.00	19.20	100.0	V	208.0	7.4

Produkte  
 Products

### EUT Information

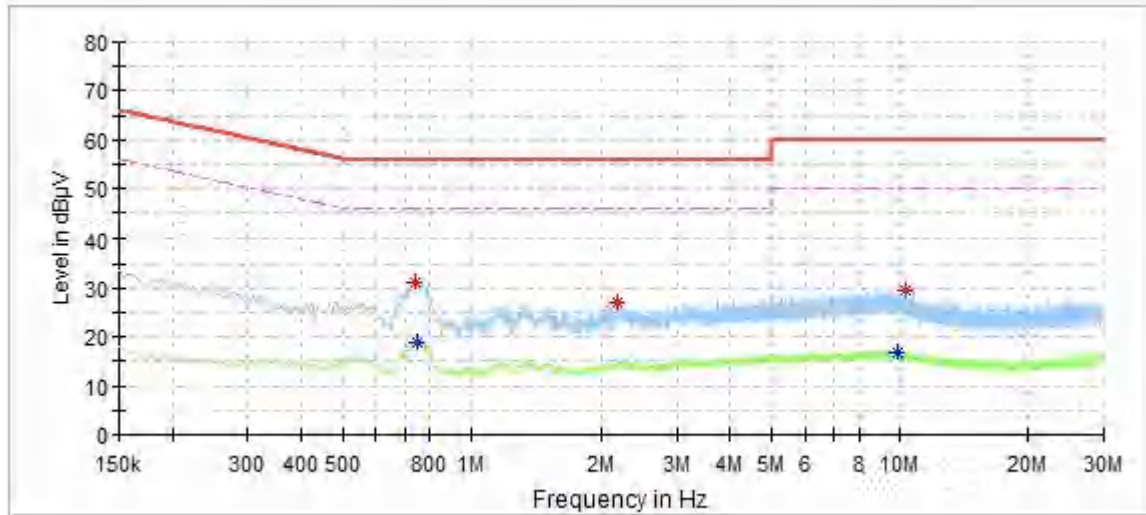
EUT Name: LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module  
 Model: LA02301  
 Test Mode: WIFI 2.4G\_11n40M\_High\_CH  
 Test Voltage:: DC 5V  
 Remark: Temp 23 Humi:42%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

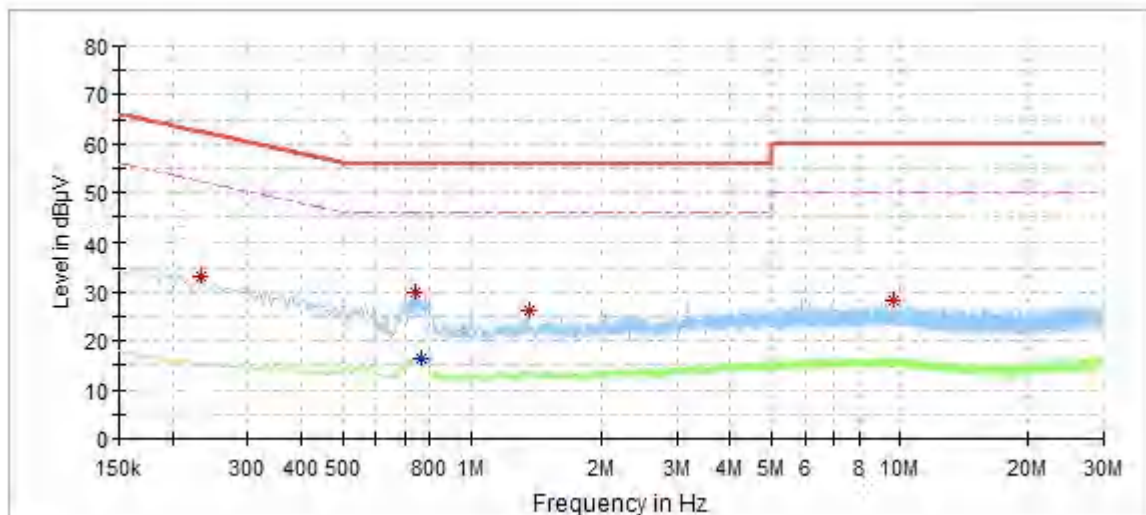
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.101765	---	50.89	54.00	3.11	100.0	H	133.0	7.4
2484.108235	61.72	---	74.00	12.28	100.0	H	146.0	7.4

### Appendix C.3: Test Results of Conducted Emission on AC Mains



#### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.744000	31.38	---	56.00	24.62	---	---	L1	9.7
0.748000	---	18.98	46.00	27.02	---	---	L1	9.7
2.184000	27.08	---	56.00	28.92	---	---	L1	9.8
9.820000	---	16.85	50.00	33.15	---	---	L1	10.1
10.332000	29.41	---	60.00	30.59	---	---	L1	10.1



#### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.234000	33.17	---	62.31	29.13	---	---	N	9.8
0.740000	29.97	---	56.00	26.03	---	---	N	9.7
0.764000	---	16.38	46.00	29.62	---	---	N	9.7
1.368000	26.25	---	56.00	29.75	---	---	N	9.8
9.644000	28.21	---	60.00	31.79	---	---	N	10.1