

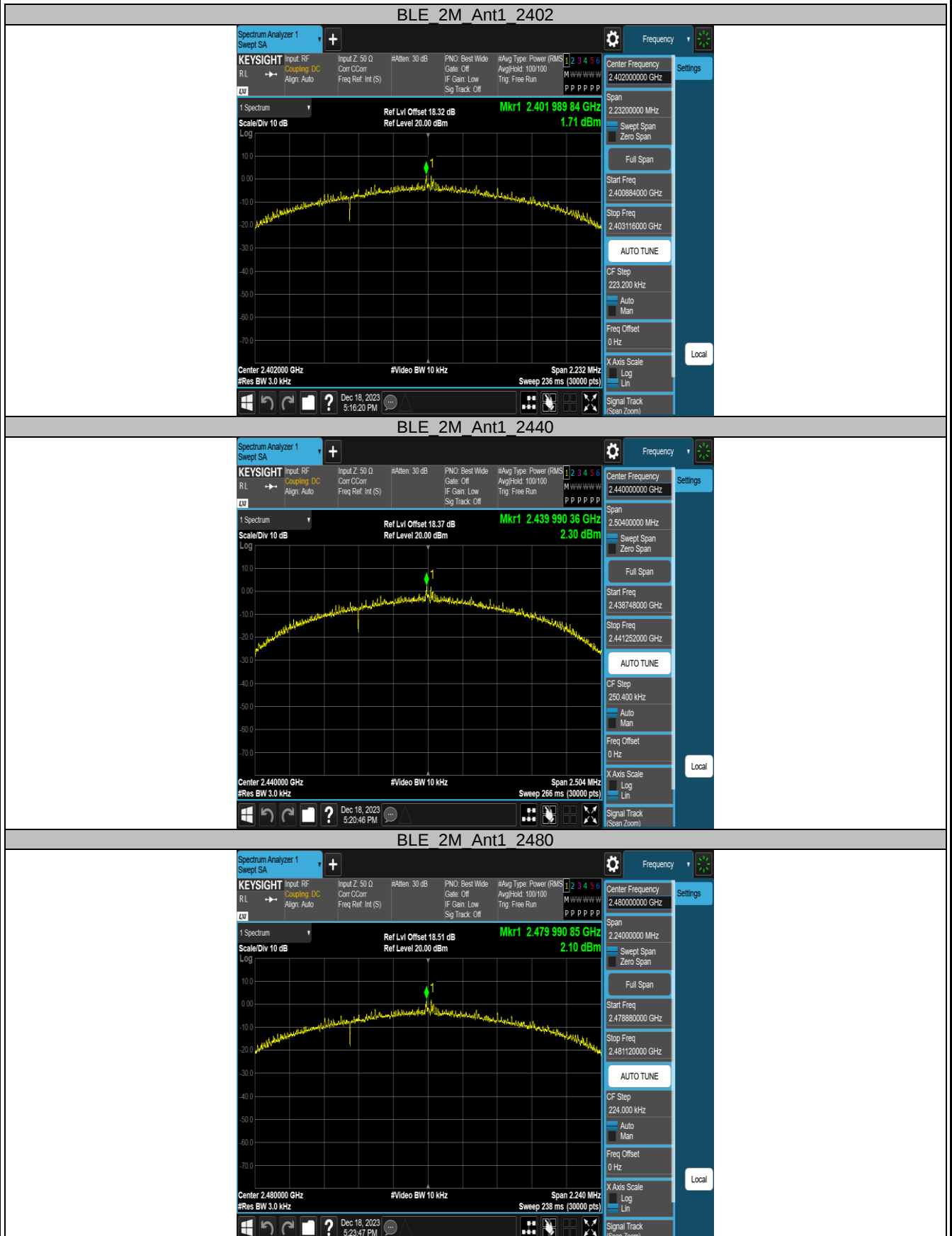
Appendix A: Test Results of Bluetooth LE & Conducted Emission

APPENDIX A: TEST RESULTS OF BLUETOOTH LE & CONDUCTED EMISSION.....	1
APPENDIX A.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
APPENDIX A.2: TEST RESULTS OF 6dB BANDWIDTH	5
APPENDIX A.3: TEST RESULTS OF 99% BANDWIDTH.....	8
APPENDIX A.4: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH	11
<i>Band Edge</i>	<i>11</i>
<i>Conducted Spurious Emission</i>	<i>13</i>
APPENDIX A.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	20
<i>30 MHz - 1GHz</i>	<i>20</i>
<i>1GHz - 18GHz</i>	<i>22</i>
APPENDIX A.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS.....	34
APPENDIX A.7: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS.....	42

Appendix A.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	3.21	≤8.00	PASS
		2440	3.57	≤8.00	PASS
		2480	3.45	≤8.00	PASS
BLE_2M	Ant1	2402	1.71	≤8.00	PASS
		2440	2.30	≤8.00	PASS
		2480	2.10	≤8.00	PASS





Appendix A.2: Test Results of 6dB Bandwidth

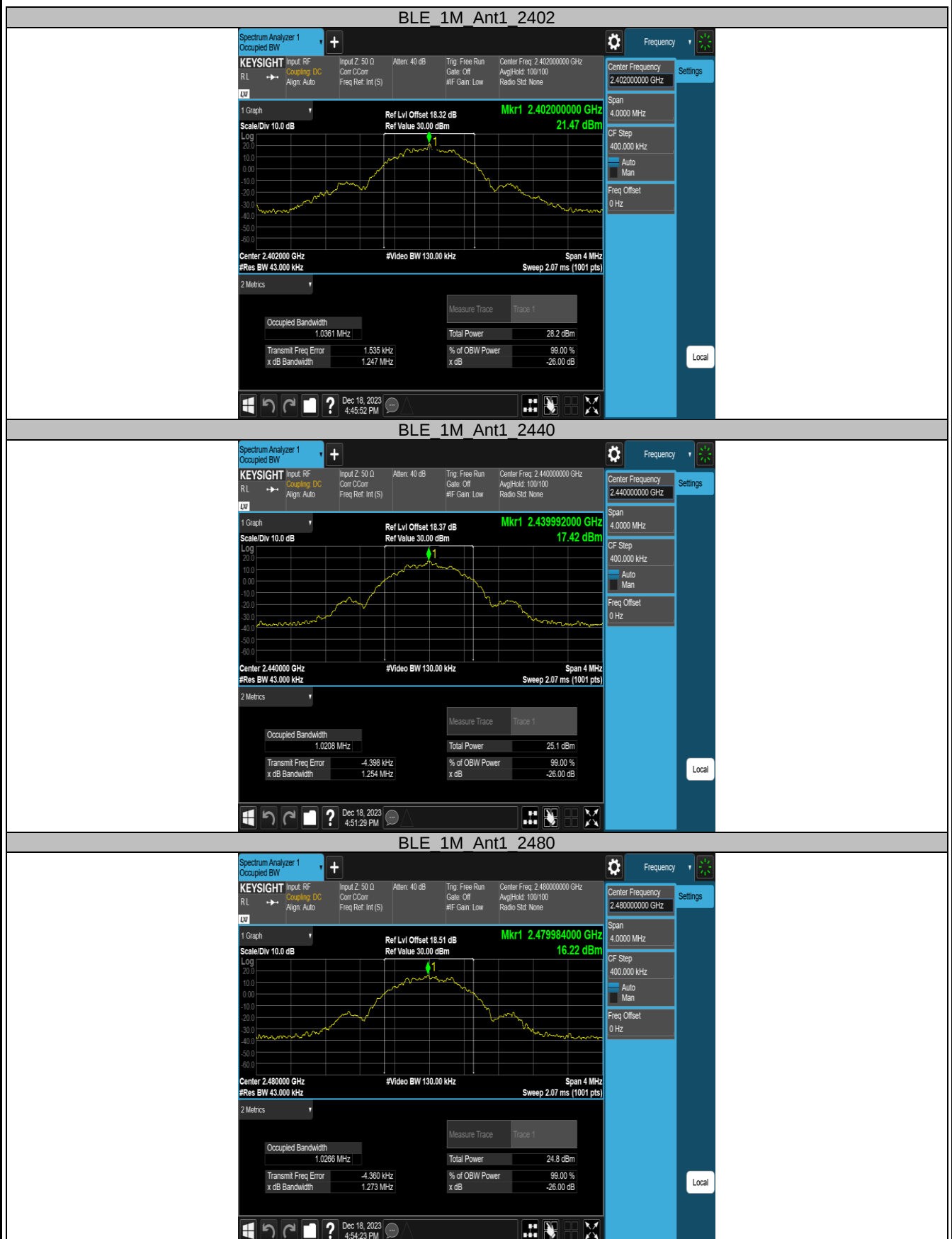
TestMode	Antenna	Channel	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.628	2401.680	2402.308	0.5	PASS
		2440	0.636	2439.672	2440.308	0.5	PASS
		2480	0.616	2479.684	2480.300	0.5	PASS
BLE_2M	Ant1	2402	1.116	2401.444	2402.560	0.5	PASS
		2440	1.252	2439.340	2440.592	0.5	PASS
		2480	1.120	2479.448	2480.568	0.5	PASS

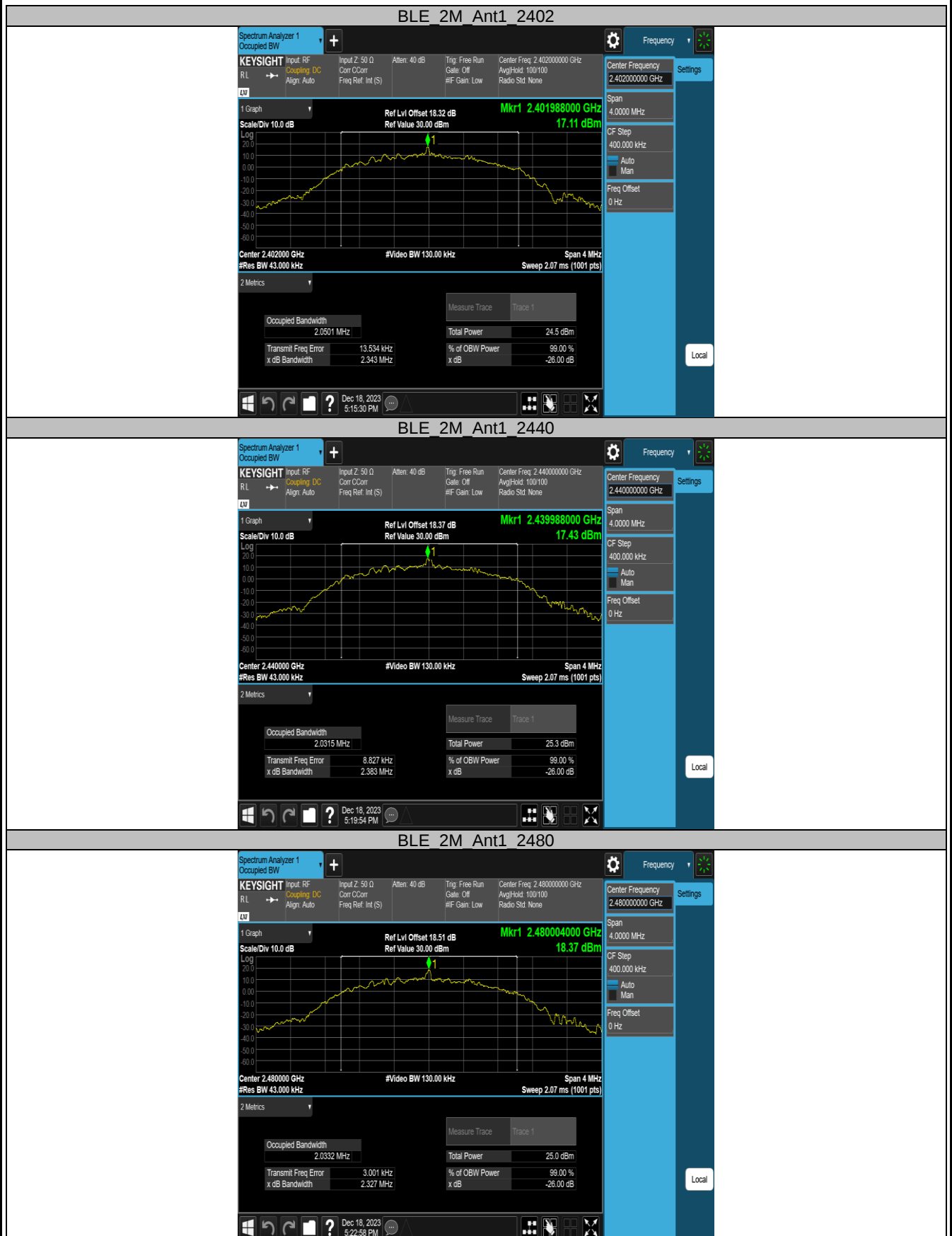




Appendix A.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0361	2401.4835	2402.5196	---	PASS
		2440	1.0208	2439.4852	2440.5060	---	PASS
		2480	1.0266	2479.4823	2480.5089	---	PASS
BLE_2M	Ant1	2402	2.0501	2400.9885	2403.0386	---	PASS
		2440	2.0315	2438.9931	2441.0246	---	PASS
		2480	2.0332	2478.9864	2481.0196	---	PASS





Appendix A.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

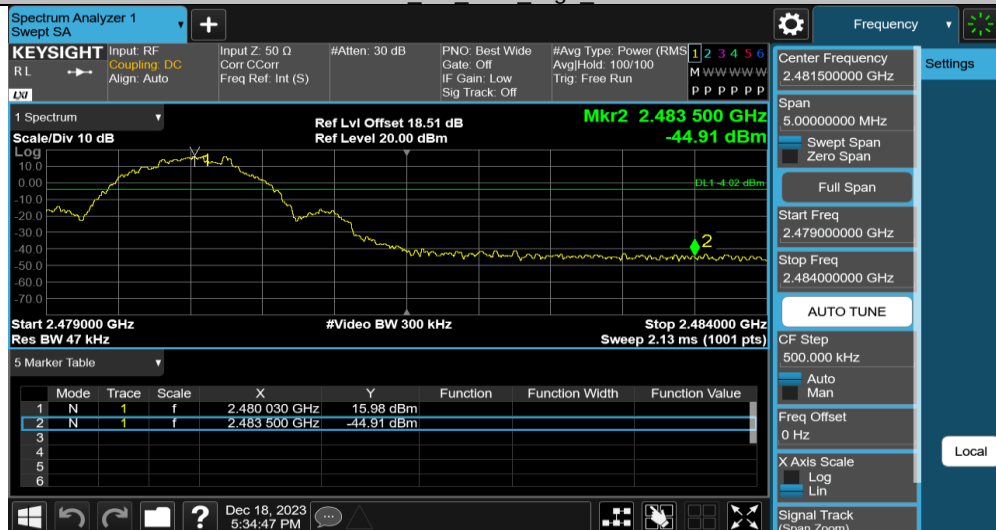
Band Edge

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	17.12	-38.2	≤-2.88	PASS
		High	2480	15.98	-44.91	≤-4.02	PASS
BLE_2M	Ant1	Low	2402	15.4	-35.16	≤-4.6	PASS
		High	2480	18.12	-43.17	≤-1.88	PASS

BLE 1M Ant1 Low 2402



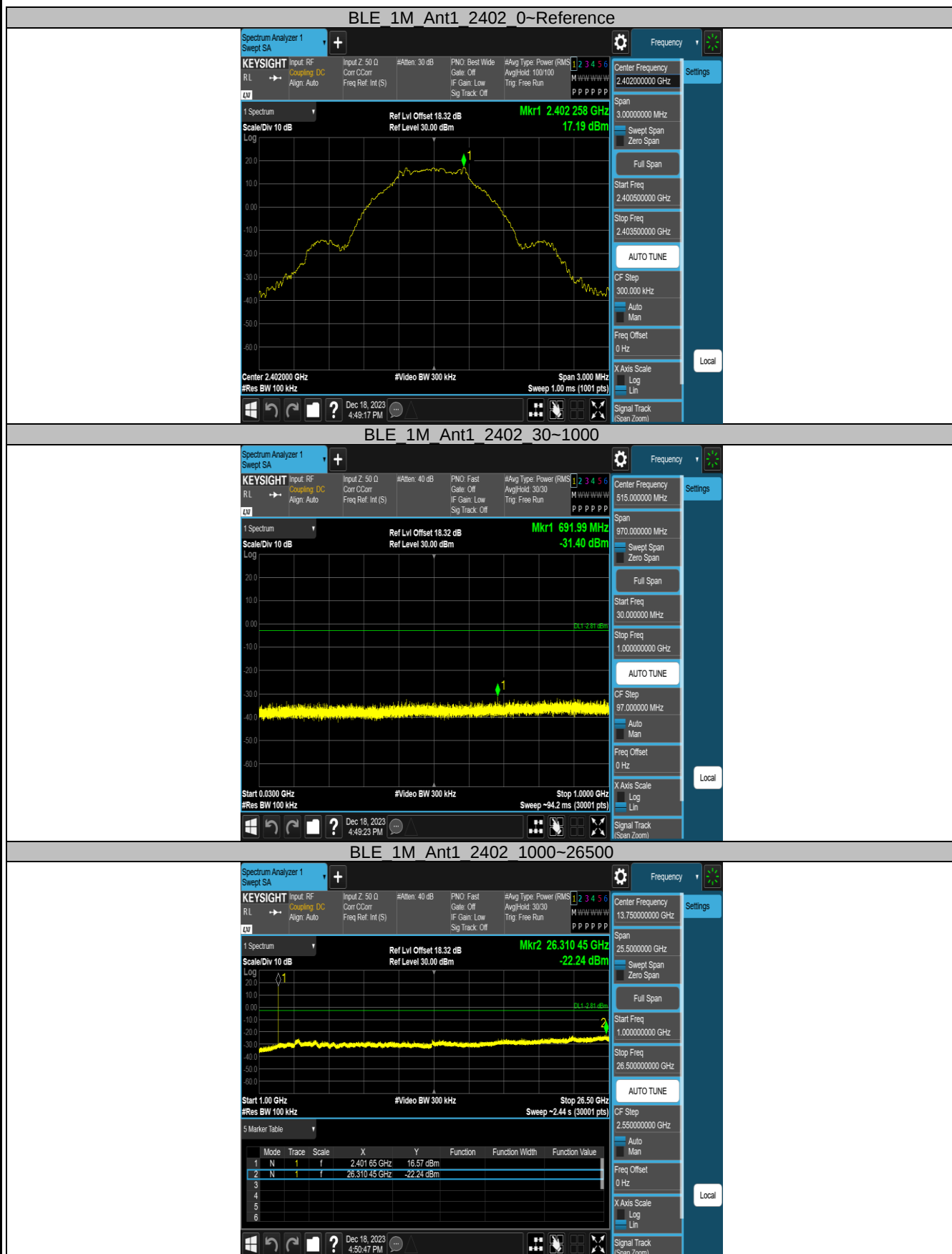
BLE 1M Ant1 High 2480





Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	17.19	17.19	---	PASS
			30~1000	17.19	-31.4	≤-2.81	PASS
			1000~26500	17.19	-22.24	≤-2.81	PASS
		2440	Reference	18.43	18.43	---	PASS
			30~1000	18.43	-31.07	≤-1.57	PASS
			1000~26500	18.43	-22.98	≤-1.57	PASS
		2480	Reference	18.80	18.80	---	PASS
			30~1000	18.80	-31.76	≤-1.2	PASS
			1000~26500	18.80	-22.17	≤-1.2	PASS
BLE_2M	Ant1	2402	Reference	16.84	16.84	---	PASS
			30~1000	16.84	-31.97	≤-3.16	PASS
			1000~26500	16.84	-22.85	≤-3.16	PASS
		2440	Reference	19.45	19.45	---	PASS
			30~1000	19.45	-31.32	≤-0.55	PASS
			1000~26500	19.45	-22.72	≤-0.55	PASS
		2480	Reference	19.12	19.12	---	PASS
			30~1000	19.12	-31.41	≤-0.88	PASS
			1000~26500	19.12	-21.73	≤-0.88	PASS













Appendix A.5: Test Results of Radiated Spurious Emissions

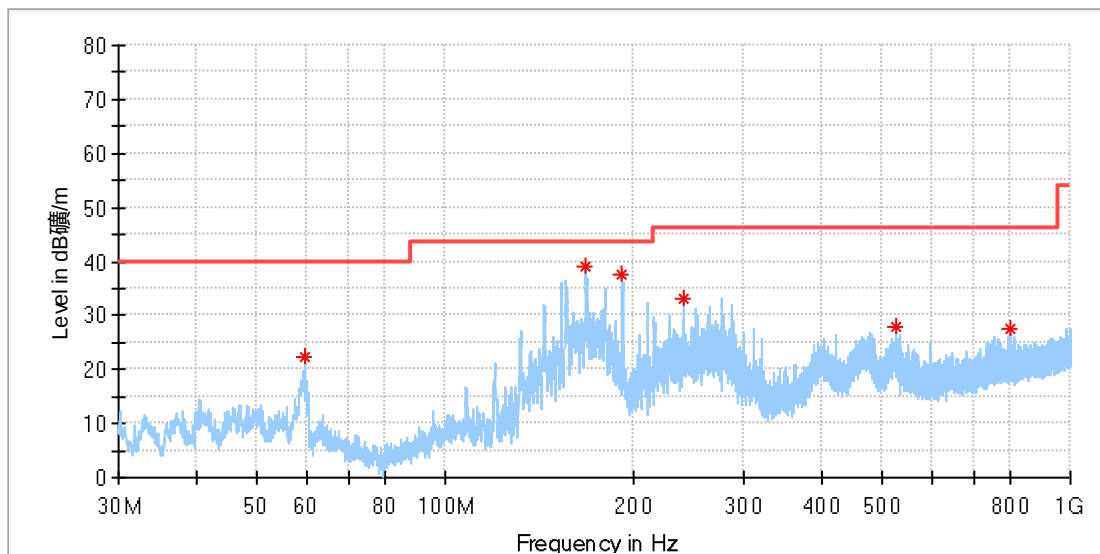
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz - 1GHz

EUT Information

EUT Name:	2.4GHz Wi-Fi & BT IoT Module
Model:	WT1000R
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168454745/A003612973-002
Test Voltage:	3Vdc
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

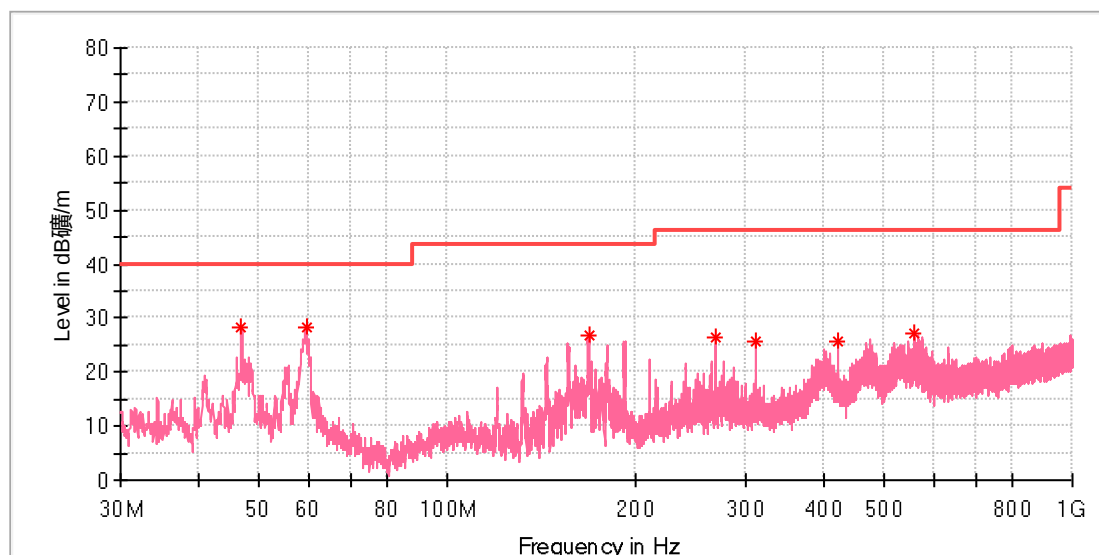
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.473077	22.32	40.00	17.68	100.0	H	116.0	-19.2
168.001154	38.97	43.50	4.53	100.0	H	355.0	-21.7
191.990000	37.50	43.50	6.00	100.0	H	355.0	-19.7
240.005000	33.17	46.00	12.83	100.0	H	182.0	-18.0
524.401539	27.93	46.00	18.07	100.0	H	274.0	-11.8
799.732308	27.45	46.00	18.55	100.0	H	142.0	-6.8

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.863077	28.13	40.00	11.87	100.0	V	24.0	-18.9
59.398462	28.46	40.00	11.54	100.0	V	9.0	-19.2
168.225000	26.79	43.50	16.71	100.0	V	325.0	-21.7
268.433462	26.54	46.00	19.46	100.0	V	285.0	-17.3
312.008846	25.63	46.00	20.37	100.0	V	301.0	-16.3
420.723462	25.74	46.00	20.26	100.0	V	3.0	-13.7
559.023077	27.17	46.00	18.83	100.0	V	277.0	-11.0

Final_Result

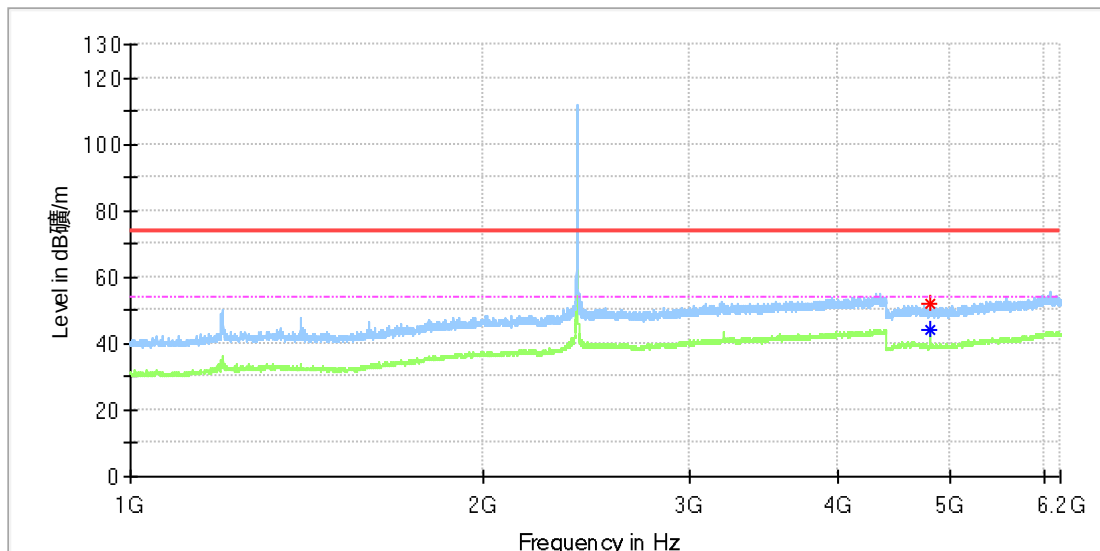
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	2.4GHz Wi-Fi & BT IoT Module
Model:	WT1000R
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168454745/A003612973-002
Test Voltage:	3Vdc
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

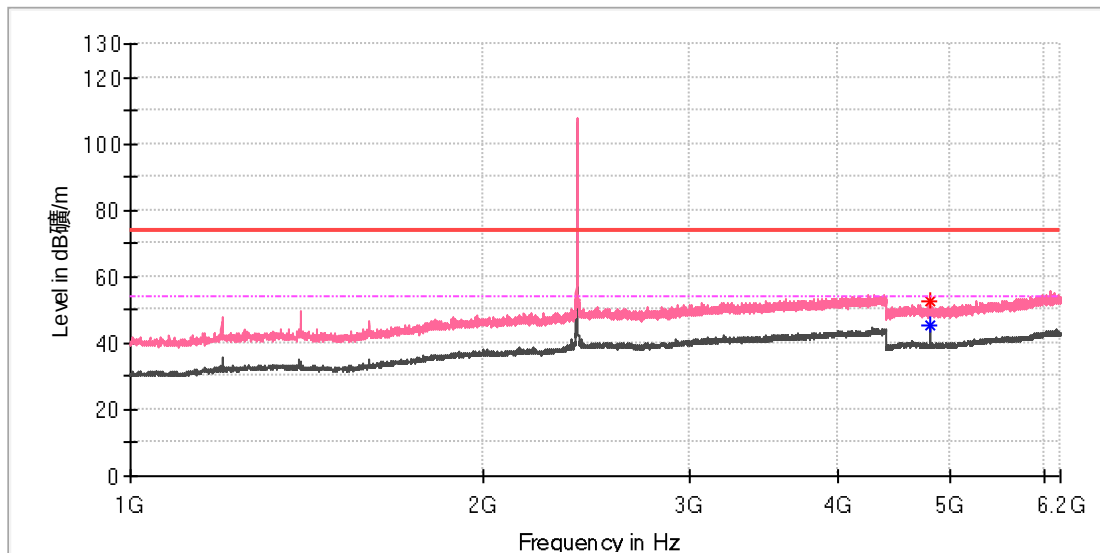
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	44.13	54.00	9.87	150.0	H	136.0	11.8
4804.500000	52.22	---	74.00	21.78	150.0	H	136.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

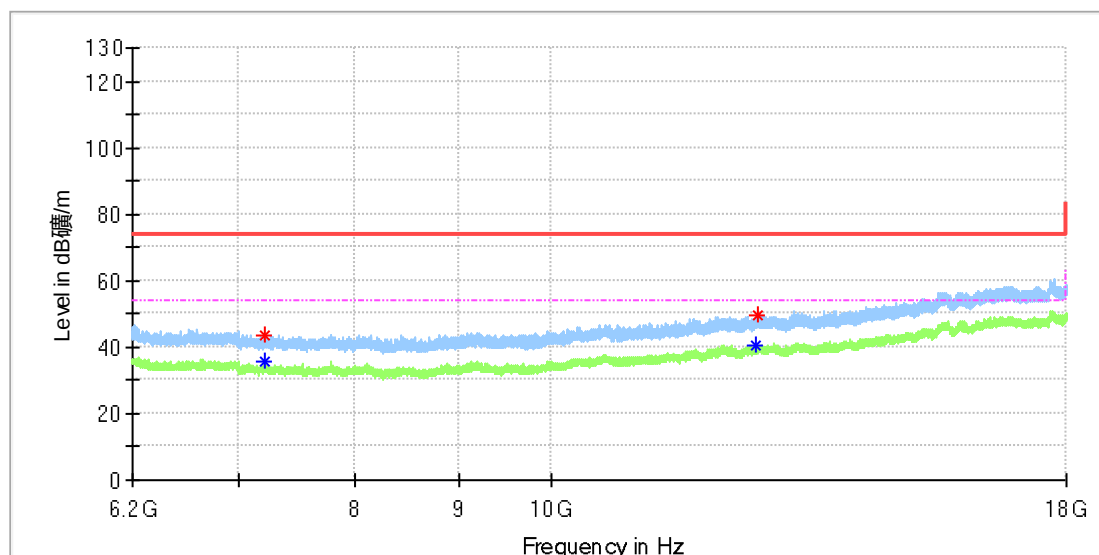
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	52.34	---	74.00	21.66	150.0	V	122.0	11.8
4804.000000	---	45.60	54.00	8.40	150.0	V	122.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

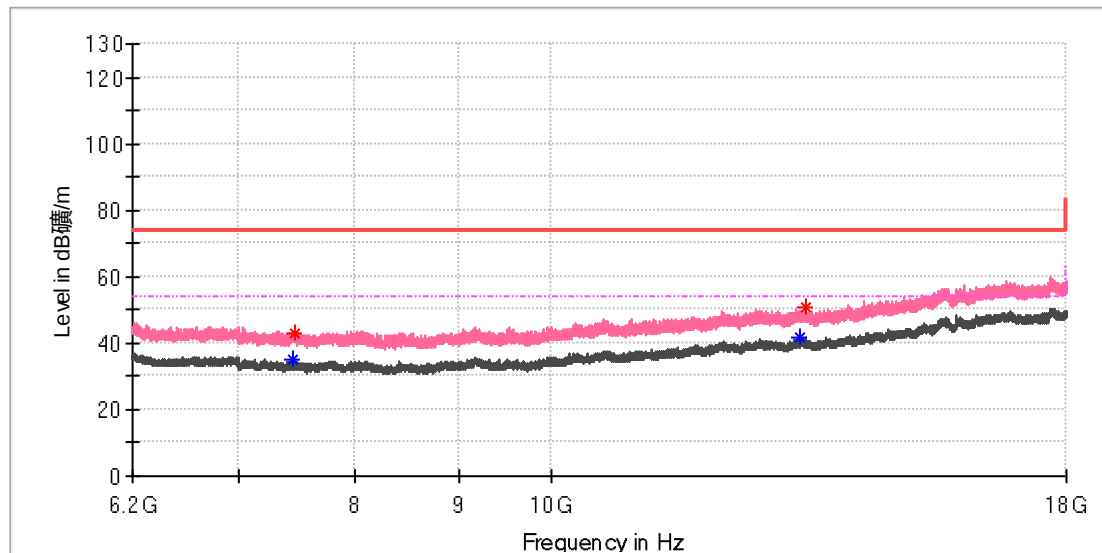
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.458333	---	35.81	54.00	18.19	150.0	H	17.0	8.8
7212.341667	43.41	---	74.00	30.59	150.0	H	0.0	8.7
12635.916667	---	40.43	54.00	13.57	150.0	H	311.0	15.0
12662.466667	49.47	---	74.00	24.53	150.0	H	356.0	15.0

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

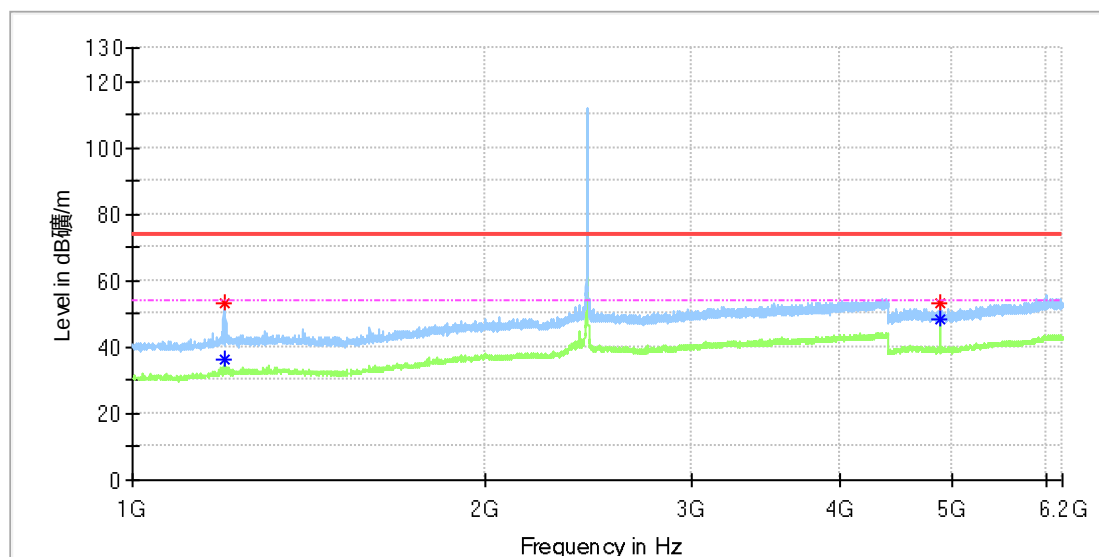
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	---	34.80	54.00	19.20	150.0	V	43.0	8.4
7459.650000	43.23	---	74.00	30.77	150.0	V	299.0	8.5
13264.758333	---	41.57	54.00	12.43	150.0	V	128.0	15.5
13383.741667	50.89	---	74.00	23.11	150.0	V	43.0	15.6

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
 Model: WT1000R
 Test Mode: BLE 1M_Mid channel
 Order No/Sample No: 168454745/A003612973-002
 Test Voltage: 3Vdc
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

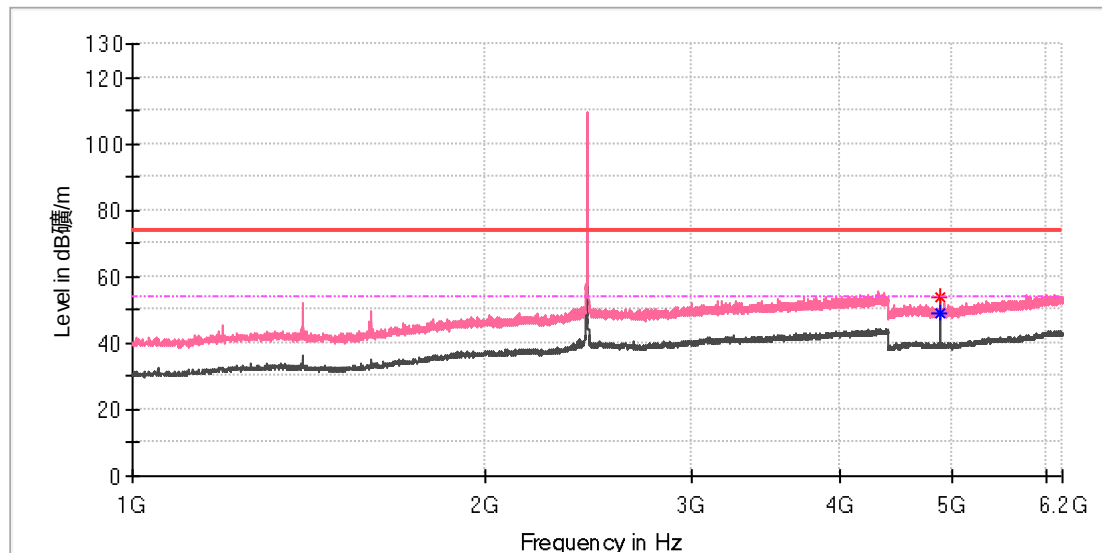
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1198.500000	---	36.16	54.00	17.84	150.0	H	160.0	1.1
1198.500000	52.98	---	74.00	21.02	150.0	H	160.0	1.1
4880.000000	---	48.67	54.00	5.33	150.0	H	88.0	11.8
4880.500000	53.48	---	74.00	20.52	150.0	H	88.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

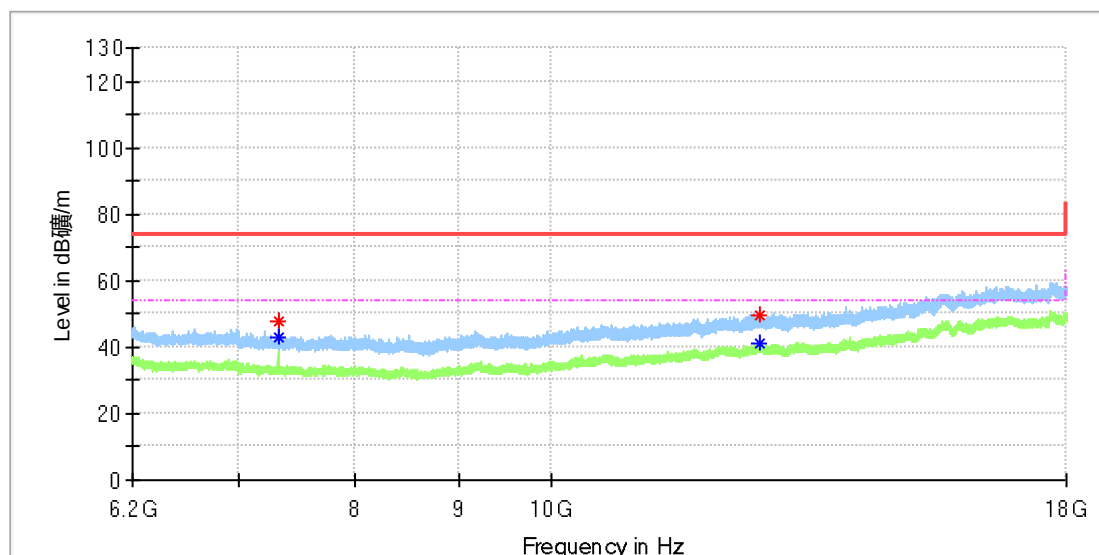
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.500000	54.03	---	74.00	19.97	150.0	V	111.0	11.8
4880.000000	---	48.84	54.00	5.16	150.0	V	117.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

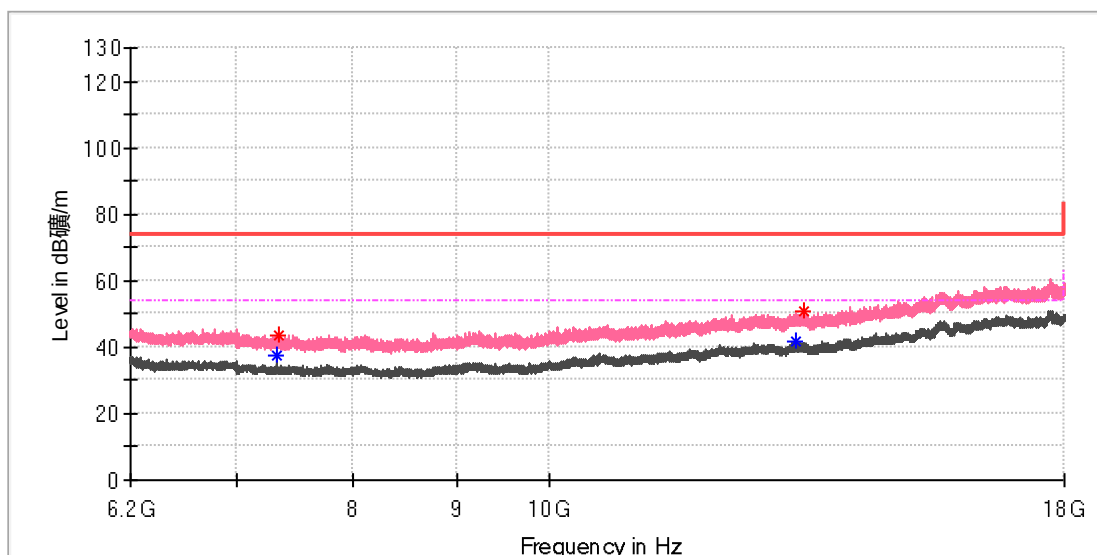
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7320.508333	48.01	---	74.00	25.99	150.0	H	165.0	8.2
7320.508333	---	43.13	54.00	10.87	150.0	H	165.0	8.2
12684.100000	---	40.98	54.00	13.02	150.0	H	31.0	15.1
12694.425000	49.67	---	74.00	24.33	150.0	H	286.0	15.1

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

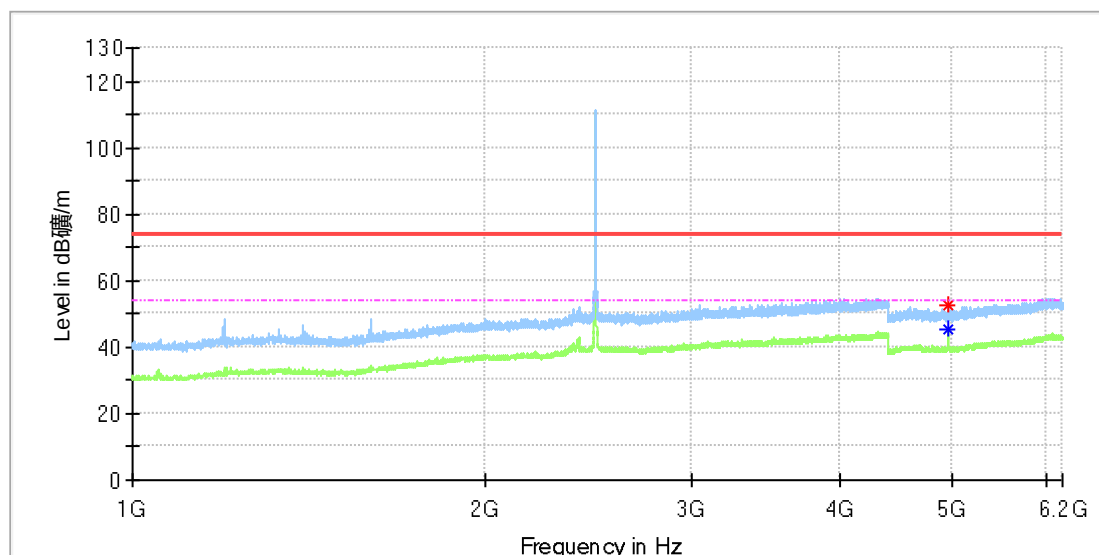
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.525000	---	37.33	54.00	16.67	150.0	V	278.0	8.2
7337.225000	43.37	---	74.00	30.63	150.0	V	110.0	8.1
13238.208333	---	41.68	54.00	12.32	150.0	V	303.0	15.5
13375.875000	50.96	---	74.00	23.04	150.0	V	290.0	15.5

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_High channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

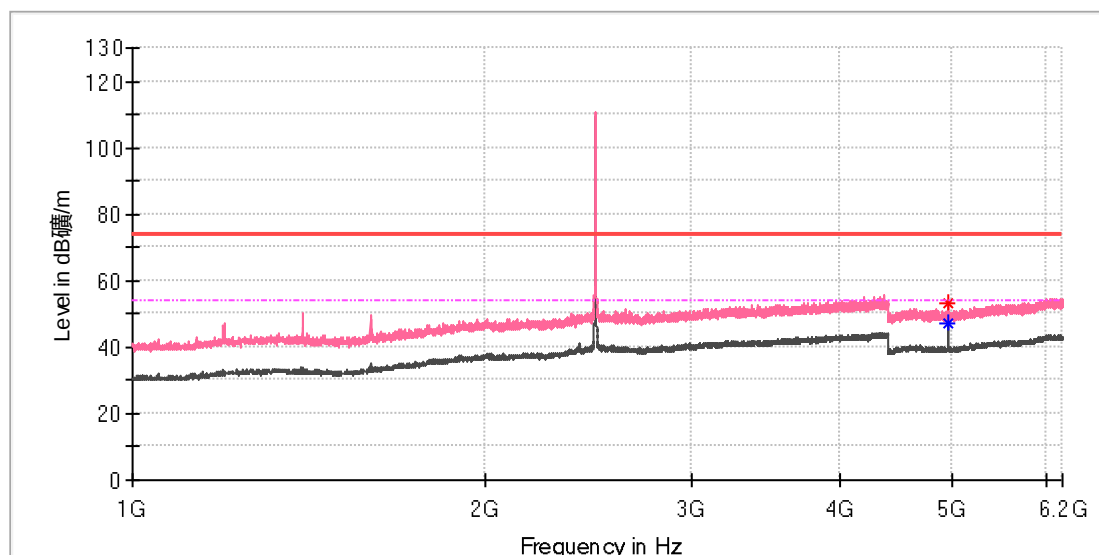
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	52.53	---	74.00	21.47	150.0	H	134.0	11.8
4960.000000	---	45.61	54.00	8.39	150.0	H	134.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_High channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

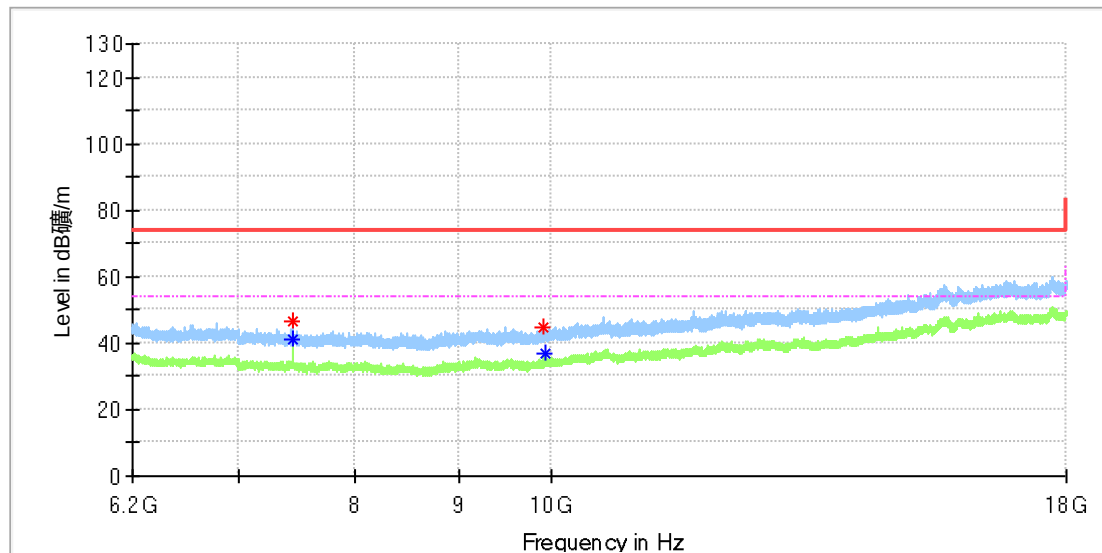
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	---	47.31	54.00	6.69	150.0	V	164.0	11.8
4960.500000	53.33	---	74.00	20.67	150.0	V	150.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_High channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

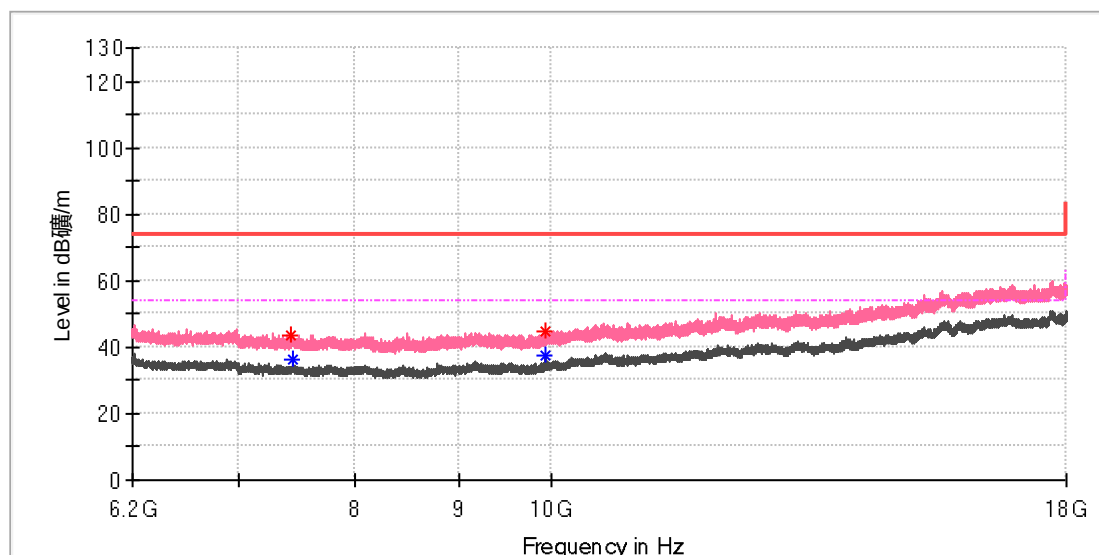
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	---	41.19	54.00	12.81	150.0	H	97.0	8.4
7440.475000	46.54	---	74.00	27.46	150.0	H	97.0	8.4
9917.491667	44.54	---	74.00	29.46	150.0	H	254.0	10.8
9920.933333	---	36.97	54.00	17.03	150.0	H	157.0	10.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_High channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
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)
7433.591667	43.26	---	74.00	30.74	150.0	V	180.0	8.4
7439.983333	---	36.21	54.00	17.79	150.0	V	277.0	8.4
9920.933333	45.04	---	74.00	28.96	150.0	V	167.0	10.8
9920.933333	---	37.52	54.00	16.48	150.0	V	167.0	10.8

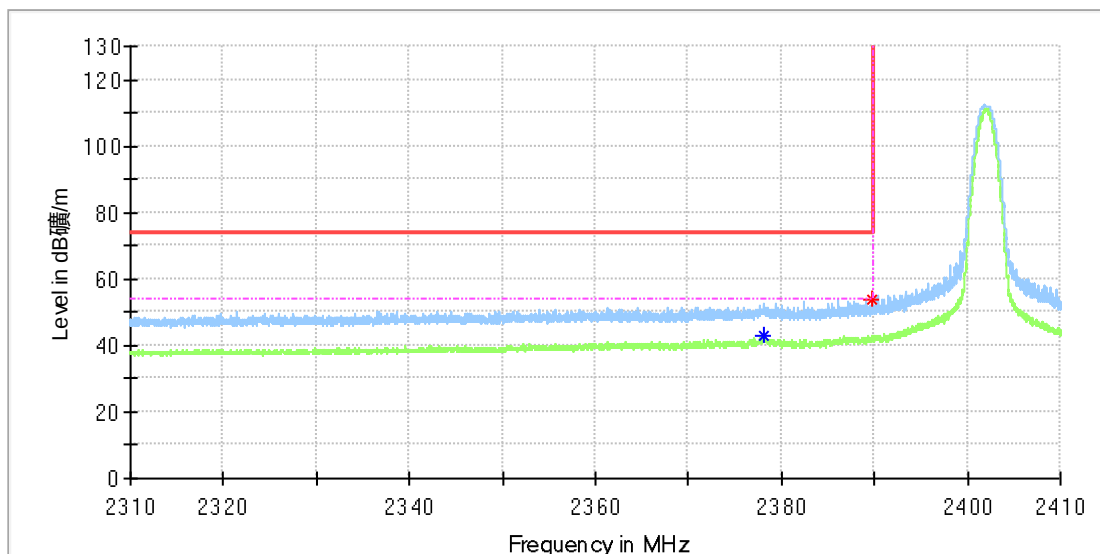
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Appendix A.6: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

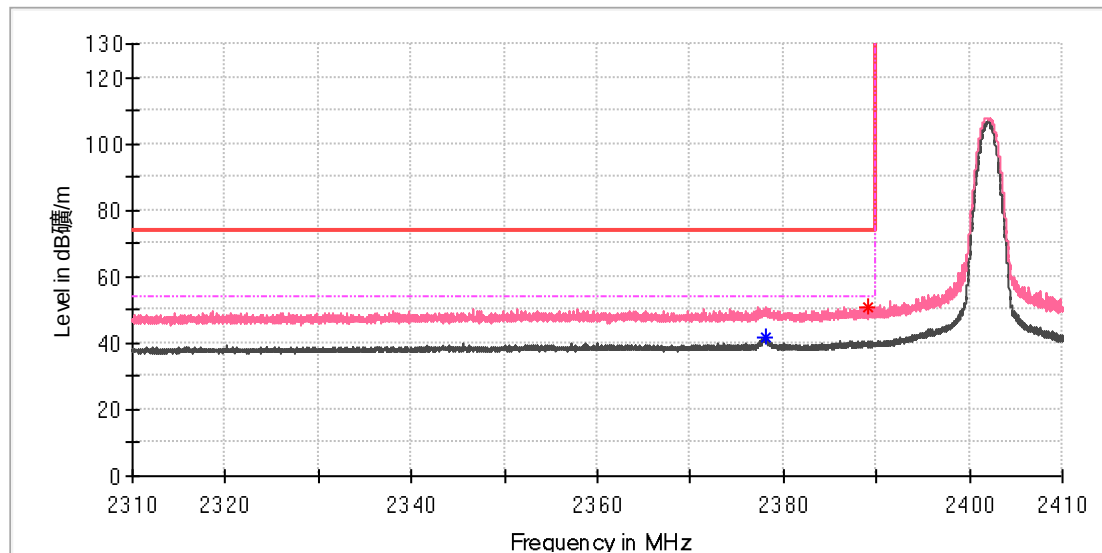
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2378.088235	---	43.16	54.00	10.84	150.0	H	67.0	6.9
2389.691177	53.91	---	74.00	20.09	150.0	H	277.0	7.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_Low channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

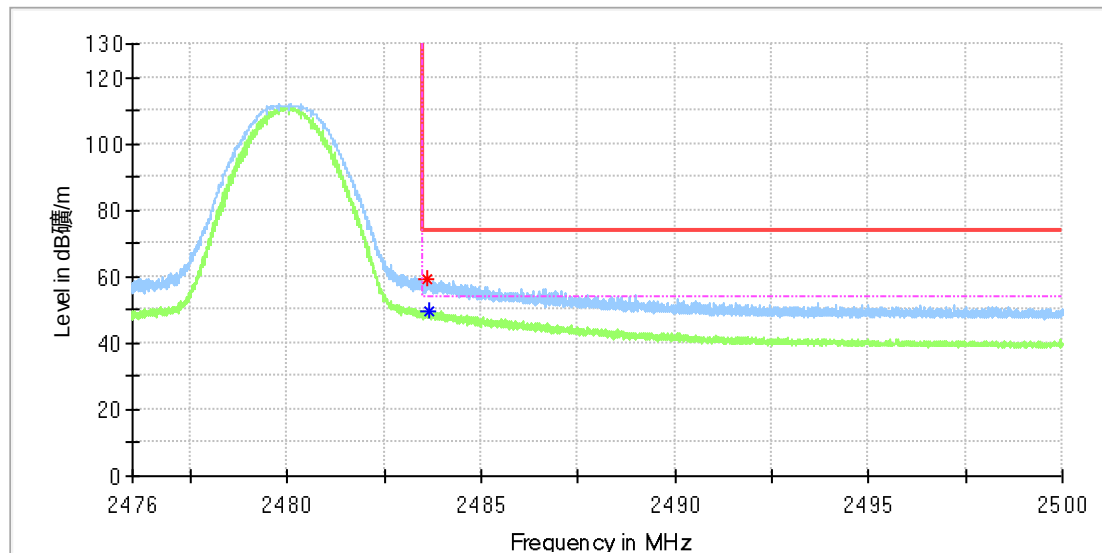
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2378.147059	---	41.76	54.00	12.24	150.0	V	357.0	6.9
2389.088235	51.02	---	74.00	22.98	150.0	V	335.0	7.0

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_High channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

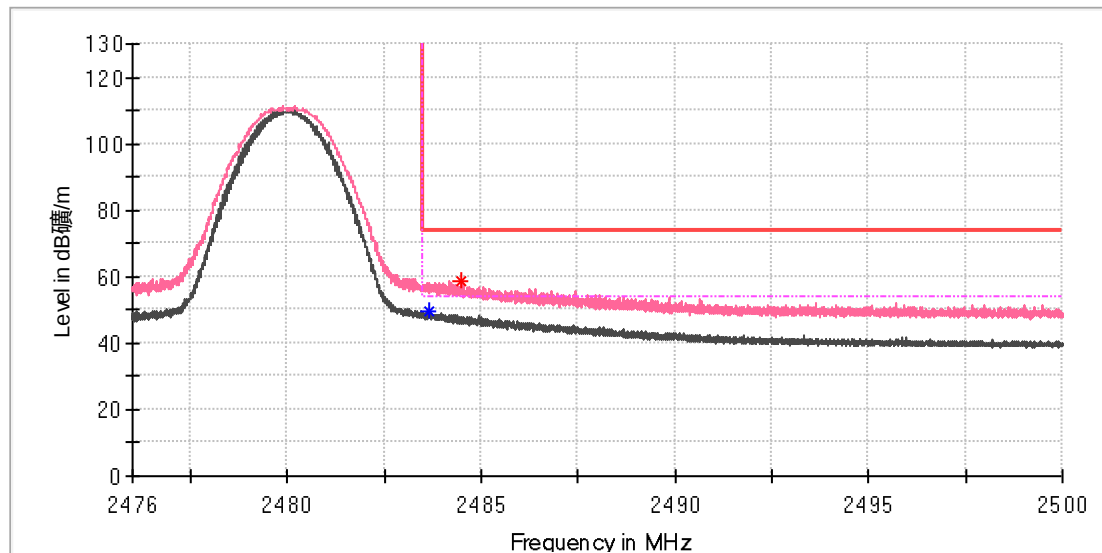
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.605882	59.01	---	74.00	14.99	150.0	H	328.0	7.4
2483.672941	---	49.52	54.00	4.48	150.0	H	328.0	7.4

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 1M_High channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

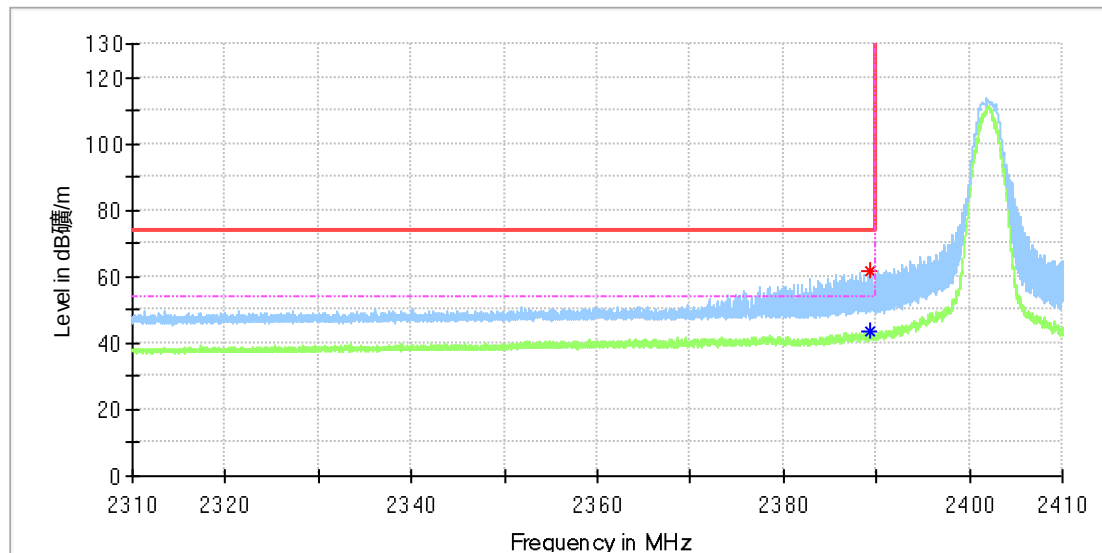
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.680000	---	49.62	54.00	4.38	150.0	V	187.0	7.4
2484.477647	58.62	---	74.00	15.38	150.0	V	187.0	7.4

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 2M_Low channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

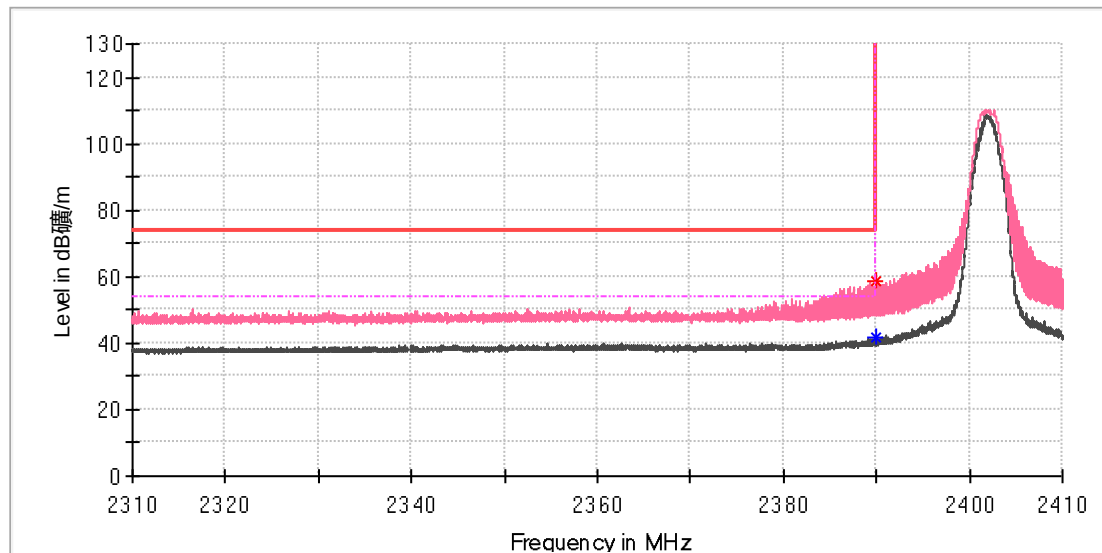
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.235294	---	43.75	54.00	10.25	150.0	H	300.0	7.0
2389.250000	61.63	---	74.00	12.37	150.0	H	274.0	7.0

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 2M_Low channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

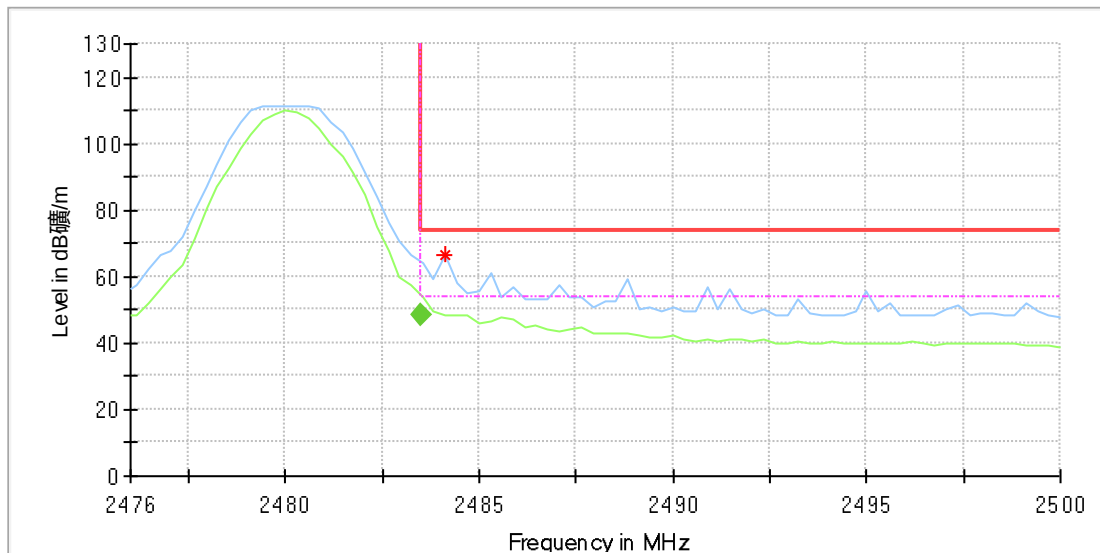
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.867647	---	41.91	54.00	12.09	150.0	V	189.0	7.0
2389.867647	58.35	---	74.00	15.65	150.0	V	189.0	7.0

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 2M_High channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

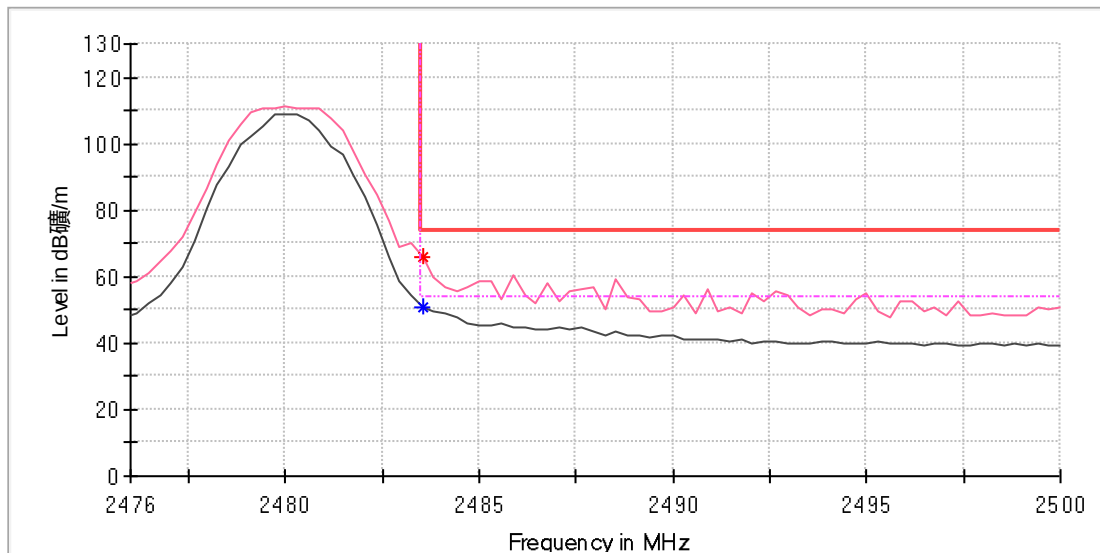
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.117647	66.53	---	74.00	7.47	150.0	H	339.0	7.4

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.507061	48.08	54.00	5.92	149.0	H	323.0	7.4

EUT Information

EUT Name: 2.4GHz Wi-Fi & BT IoT Module
Model: WT1000R
Test Mode: BLE 2M_High channel
Order No/Sample No: 168454745/A003612973-002
Test Voltage: 3Vdc
Remark: Temp 22 Humi:52%
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)
2483.529412	66.08	---	74.00	7.92	150.0	V	157.0	7.4
2483.529412	---	51.00	54.00	3.00	150.0	V	157.0	7.4

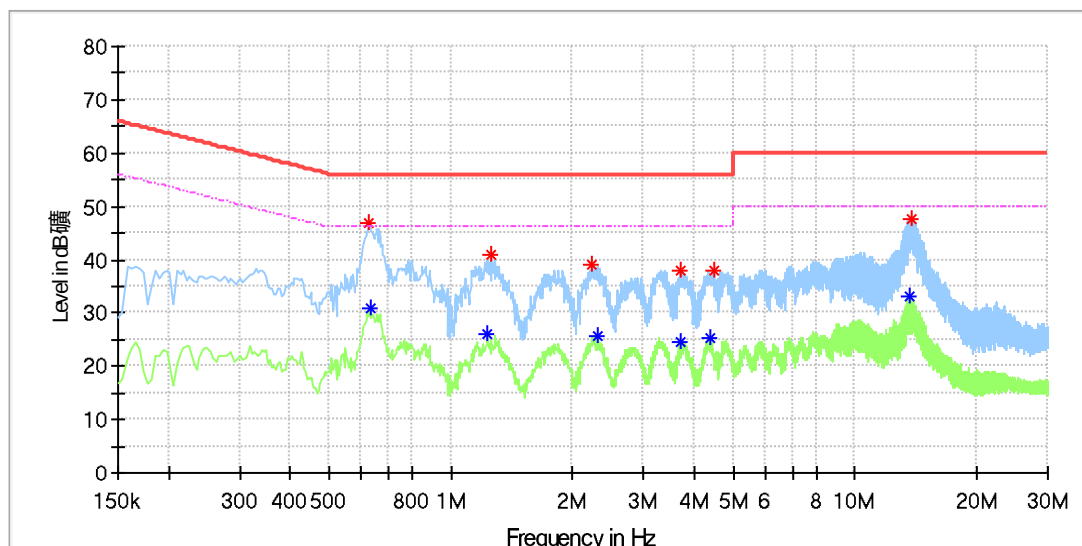
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Appendix A.7: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name:	2.4GHz Wi-Fi & BT IoT Module
Model:	WT1000R
Test Mode:	BT Link
Order No/Sample No:	168454745/A003612973-001
Test Voltage:	AC 120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.207
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

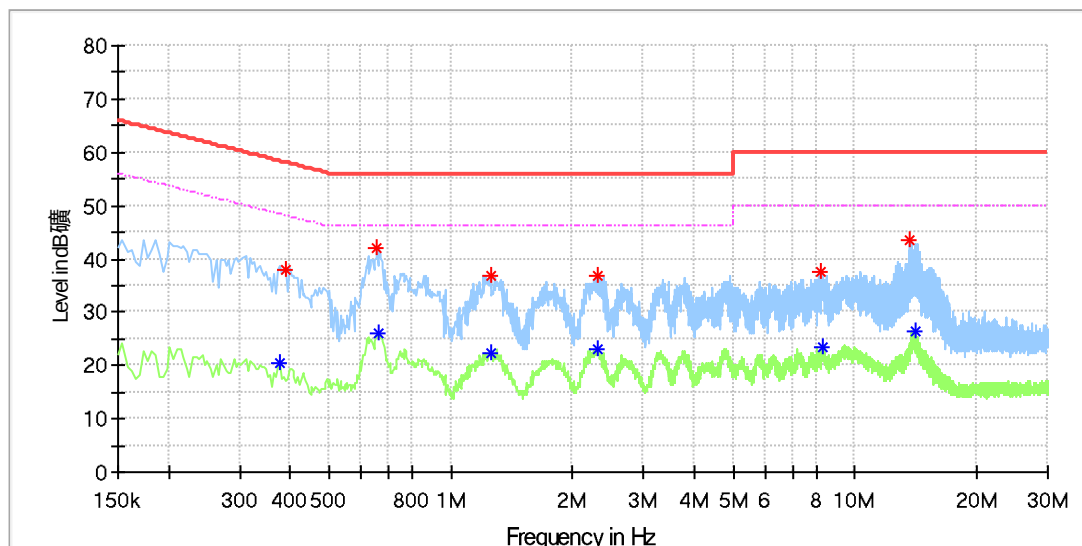
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.628000	46.90	---	56.00	9.10	L1	9.8
0.632000	---	31.02	46.00	14.98	L1	9.8
1.228000	---	25.97	46.00	20.03	L1	9.7
1.256000	41.04	---	56.00	14.96	L1	9.7
2.228000	39.25	---	56.00	16.75	L1	9.9
2.304000	---	25.59	46.00	20.41	L1	9.9
3.696000	38.13	---	56.00	17.87	L1	10.0
3.720000	---	24.71	46.00	21.29	L1	10.0
4.396000	---	25.15	46.00	20.85	L1	10.0
4.468000	37.81	---	56.00	18.19	L1	10.0
13.632000	---	32.94	50.00	17.06	L1	10.1
13.800000	47.78	---	60.00	12.22	L1	10.1

Final Result

[illegible]

EUT Information

EUT Name:	2.4GHz Wi-Fi & BT IoT Module
Model:	WT1000R
Test Mode:	BT Link
Order No/Sample No:	168454745/A003612973-001
Test Voltage:	AC 120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.207
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.378000	---	20.47	48.32	27.85	N	9.7
0.390000	38.05	---	58.06	20.02	N	9.7
0.656000	42.12	---	56.00	13.88	N	9.8
0.664000	---	26.16	46.00	19.84	N	9.8
1.252000	---	22.47	46.00	23.53	N	9.7
1.260000	36.73	---	56.00	19.27	N	9.7
2.296000	---	23.10	46.00	22.90	N	10.0
2.300000	36.85	---	56.00	19.15	N	10.0
8.240000	37.67	---	60.00	22.33	N	10.0
8.332000	---	23.57	50.00	26.43	N	10.0
13.704000	43.37	---	60.00	16.63	N	10.1
14.056000	---	26.25	50.00	23.75	N	10.1

Final Result

[illegible]