

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

Report No.: RFBDKG-WTW-P26060403

FCC ID: JNZYR0126

Product: Wireless Keyboard

Brand: Logitech, logi, logitech

Model No.: YR0126

Received Date: 2026/6/24

Test Date: 2026/7/1 ~ 2026/7/8

Issued Date: 2026/7/22

Applicant: Logitech Far East Ltd.

Address: #2 Creation Rd. 4, Science-Based Ind. Park Hsinchu Taiwan, R.O.C.

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

FCC Registration / 723255 / TW2022

Designation Number:

Approved by: _____, **Date:** 2026/7/22
May Chen / Manager

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Prepared by: Vito Lung / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBDKG-WTW-P26060403	Original release.	2026/7/22

1 Certificate

Product: Wireless Keyboard

Brand: Logitech, logi, logitech

Test Model: YR0126

Sample Status: Engineering sample

Applicant: Logitech Far East Ltd.

Test Date: 2026/7/1 ~ 2026/7/8

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

Measurement ANSI C63.10-2020

procedure: KDB 558074 D01 15.247 Meas Guidance v05r02

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
Standard / Clause	Test Item	Result	Remark
15.247(b)	RF Output Power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.
15.247(d)	Conducted Out of Band Emissions	Pass	Meet the requirement of limit.
15.207	AC Power Conducted Emissions	N/A	Power supply is from battery.
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -13.0 dB at 31.07 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -8.2 dB at 2390.00 MHz
15.203	Antenna Requirement	Pass	No antenna connector is used.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	1050.00 Hz
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.6 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.1 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description

Product	Wireless Keyboard
Brand	Logitech, logi, logitech
Test Model	YR0126
Status of EUT	Engineering sample
Power Supply Rating	3 Vdc from batteries
Modulation Type	GFSK
Modulation Technology	DTS
Transfer Rate	Up to 2 Mbps (*Note 1)
Operating Frequency	2.402 GHz ~ 2.48 GHz (*Note 1)
Number of Channel	40 (*Note 1)
Output Power	BT-LE 1M: 2.588 mW (4.13 dBm) BT-LE 2M: 2.559 mW (4.08 dBm) Logi Bolt 1M: 2.57 mW (4.10 dBm) Logi Bolt 2M: 2.547 mW (4.06 dBm)

Note:

1. BT-LE technique supports 1 Mbps and 2 Mbps data rates, both have been evaluated in this test report. Refer to **“section 3.3 Channel List”** for more detail specification.
2. The EUT may have a lot of colors for marketing requirement.
3. The product is supplied by primary alkaline batteries.
4. This device has BT-LE and Logi Bolt functions. Logi Bolt is the same technology as BT-LE then enhancement secure protocol.
5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
3.22	2.4~2.4835	PIFA	None

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

3.3 Channel List

40 channels are provided for BT-LE & Logi Bolt:

RF Channel	RF Center Frequency	Channel Index	Channels Type for BT 5.x		Channels Type for BT 4.x
			Maximum Data Rate 2Mbps	Maximum Data Rate 1Mbps	Maximum Data Rate 1Mbps
0	2402 MHz	37		●	●
1	2404 MHz	0	●		●
2	2406 MHz	1	●		●
3	2408 MHz	2	●		●
4	2410 MHz	3	●		●
5	2412 MHz	4	●		●
6	2414 MHz	5	●		●
7	2416 MHz	6	●		●
8	2418 MHz	7	●		●
9	2420 MHz	8	●		●
10	2422 MHz	9	●		●
11	2424 MHz	10	●		●
12	2426 MHz	38		●	●
13	2428 MHz	11	●		●
14	2430 MHz	12	●		●
15	2432 MHz	13	●		●
16	2434 MHz	14	●		●
17	2436 MHz	15	●		●
18	2438 MHz	16	●		●
19	2440 MHz	17	●		●
20	2442 MHz	18	●		●
21	2444 MHz	19	●		●
22	2446 MHz	20	●		●
23	2448 MHz	21	●		●
24	2450 MHz	22	●		●
25	2452 MHz	23	●		●
26	2454 MHz	24	●		●
27	2456 MHz	25	●		●
28	2458 MHz	26	●		●
29	2460 MHz	27	●		●
30	2462 MHz	28	●		●
31	2464 MHz	29	●		●
32	2466 MHz	30	●		●
33	2468 MHz	31	●		●
34	2470 MHz	32	●		●
35	2472 MHz	33	●		●
36	2474 MHz	34	●		●
37	2476 MHz	35	●		●
38	2478 MHz	36	●		●
39	2480 MHz	39		●	●

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
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Following channel(s) was (were) selected for the final test as listed below:

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	BT-LE 1M	0, 19, 39	GFSK	1Mb/s
	BT-LE 2M	1, 19, 38	GFSK	2Mb/s
	Logi Bolt 1M	0, 19, 39	GFSK	1Mb/s
	Logi Bolt 2M	1, 19, 38	GFSK	2Mb/s
Power Spectral Density	BT-LE 1M	0, 19, 39	GFSK	1Mb/s
	BT-LE 2M	1, 19, 38	GFSK	2Mb/s
	Logi Bolt 1M	0, 19, 39	GFSK	1Mb/s
	Logi Bolt 2M	1, 19, 38	GFSK	2Mb/s
6 dB Bandwidth / Conducted Out of Band Emissions	BT-LE 1M	0, 19, 39	GFSK	1Mb/s
	BT-LE 2M	1, 19, 38	GFSK	2Mb/s
	Logi Bolt 1M	0, 19, 39	GFSK	1Mb/s
	Logi Bolt 2M	1, 19, 38	GFSK	2Mb/s
Unwanted Emissions below 1 GHz	BT-LE 2M	38	GFSK	2Mb/s
	Logi Bolt 1M	39	GFSK	1Mb/s
Unwanted Emissions above 1 GHz	BT-LE 1M	0, 19, 39	GFSK	1Mb/s
	BT-LE 2M	1, 19, 38	GFSK	2Mb/s
	Logi Bolt 1M	0, 19, 39	GFSK	1Mb/s
	Logi Bolt 2M	1, 19, 38	GFSK	2Mb/s

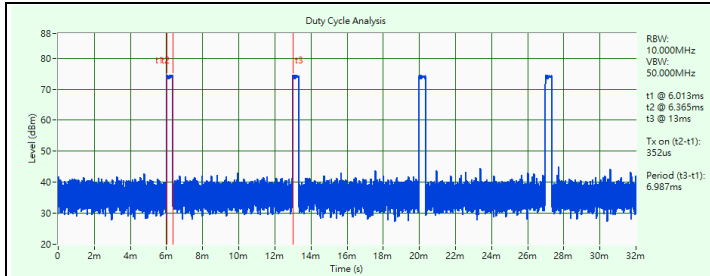
3.5 Duty Cycle of Test Signal

BT-LE 1M: Duty cycle = 0.352 ms / 6.987 ms x 100% = 5.0%

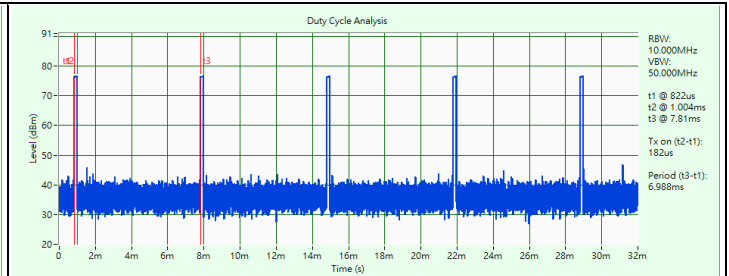
BT-LE 2M: Duty cycle = 0.182 ms / 6.988 ms x 100% = 2.6%

Logi Bolt 1M: Duty cycle = 0.352 ms / 6.988 ms x 100% = 5.0%

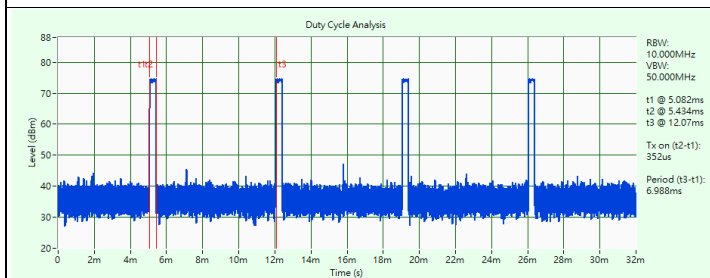
Logi Bolt 2M: Duty cycle = 0.182 ms / 6.986 ms x 100% = 2.6%



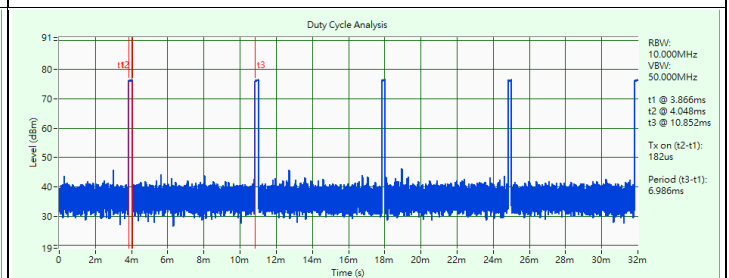
BT-LE 1M



BT-LE 2M



Logi Bolt 1M



Logi Bolt 2M

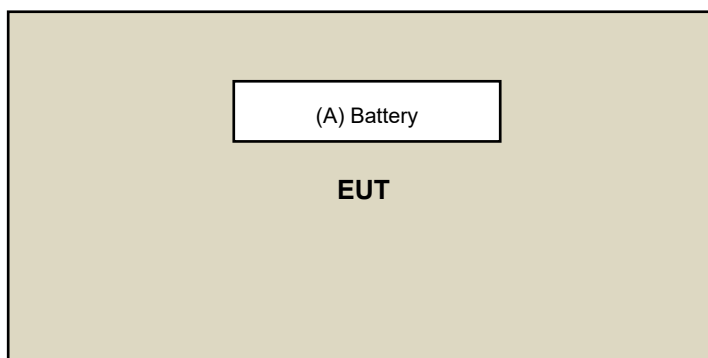
3.6 Test Program Used and Operation Descriptions

Controlling software (RF Sample with Receiver [Number Lock]) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

Test Item	Operation Description
RF Output Power / Power Spectral Density / 6 dB Bandwidth / Conducted Out of Band Emissions / Unwanted Emissions above 1 GHz	BLE1M TX Modulated 2402MHz BLE1M TX Modulated 2440MHz BLE1M TX Modulated 2480MHz BLE2M TX Modulated 2404MHz BLE2M TX Modulated 2440MHz BLE2M TX Modulated 2478MHz
Unwanted Emissions below 1 GHz	BLE2M TX Modulated 2478MHz BLE1M TX Modulated 2480MHz

Note: The operational description for Logi Bolt follows the same procedure as described for BLE.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Battery*2	Energizer	AAA	N/A	N/A	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2026/5/21	2027/5/20
Pulse Power Sensor Anritsu	MA2411B	1726431	2026/6/15	2027/6/14
RF Power Meter Anritsu	ML2496A	1529003	2026/6/15	2027/6/14

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/7/3

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
EXA Signal Analyzer Keysight	N9010A	MY56070348	2025/7/14	2026/7/13
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
Software	ADT_RF Test Software v8.5.6.4	N/A	N/A	N/A

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/7/3

4.3 6 dB Bandwidth

Refer to section 4.2 to get the tested date and information of the instruments.

4.4 Conducted Out of Band Emissions

Refer to section 4.2 to get the tested date and information of the instruments.

4.5 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-0842	2025/9/16	2026/9/15
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-02	2026/3/15	2027/3/14
Loop Antenna TESEQ	HLA 6121	63620	2025/10/20	2026/10/19
MXE EMI Receiver Keysight	N9038A	MY54450088	2026/4/1	2027/3/31
Preamplifier EMCI	EMC330N	980538	2026/3/15	2027/3/14
PXA Signal Analyzer Keysight	N9030B	MY57141948	2026/5/25	2027/5/24
RF Coaxial Cable PEWC	8D	966-5-1	2026/3/15	2027/3/14
		966-5-2	2026/3/15	2027/3/14
		966-5-3	2026/3/15	2027/3/14
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in HC - 966 Chamber No. 5(Hsinchu).
2. Tested Date: 2026/7/3 ~ 2026/7/8

4.6 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1819	2025/11/9	2026/11/8
	BBHA 9170	9170-739	2025/11/9	2026/11/8
MXE EMI Receiver Keysight	N9038A	MY54450088	2026/4/1	2027/3/31
Preamplifier EMCI	EMC12630SE	980509	2026/1/17	2027/1/16
	EMC184045SE	980387	2025/8/7	2026/8/6
PXA Signal Analyzer Keysight	N9030B	MY57141948	2026/5/25	2027/5/24
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2026/1/15	2027/1/14
	EMC102-KM-KM-4000	200214	2026/1/15	2027/1/14
	EMC104-SM-SM-1500	180503	2026/3/7	2027/3/6
	EMC104-SM-SM-2000	180501	2026/3/7	2027/3/6
	EMC104-SM-SM-6000	180506	2026/3/7	2027/3/6
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in HC - 966 Chamber No. 5(Hsinchu).
2. Tested Date: 2026/7/1 ~ 2026/7/3

5 Limits of Test Items

5.1 RF Output Power

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30 dBm)

5.2 Power Spectral Density

The Maximum of Power Spectral Density Measurement is 8 dBm in any 3 kHz.

5.3 6 dB Bandwidth

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

5.4 Conducted Out of Band Emissions

Below 20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

5.5 Unwanted Emissions below 1 GHz

Radiated emissions up to 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.6 Unwanted Emissions above 1 GHz

Radiated emissions above 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

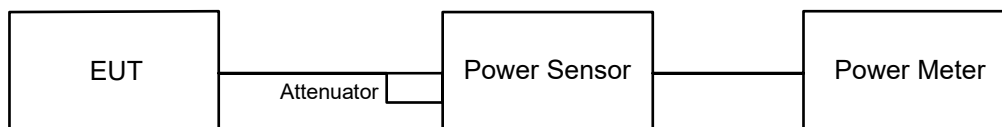
Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup



Note: The correction factor has already been compensated by the instrument.

6.1.2 Test Procedure

Peak Power:

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

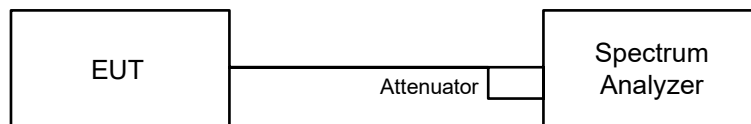
The power meter video bandwidth is greater than or equal to the DTS bandwidth and use a fast responding diode detector.

Average Power:

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

6.2 Power Spectral Density

6.2.1 Test Setup



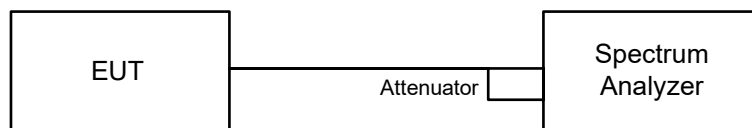
Note: The correction factor has already been compensated by the instrument.

6.2.2 Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span > 1.5 times the DTS bandwidth.
- Set the RBW to: 3 kHz.
- Set the VBW $\geq 3 \times$ RBW.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

6.3 6 dB Bandwidth

6.3.1 Test Setup



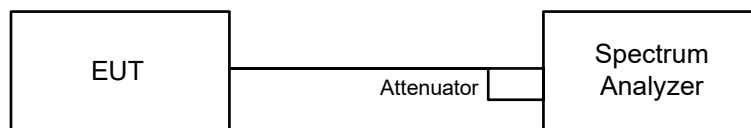
Note: The correction factor has already been compensated by the instrument.

6.3.2 Test Procedure

- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



Note: The correction factor has already been compensated by the instrument.

6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 times the DTS bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

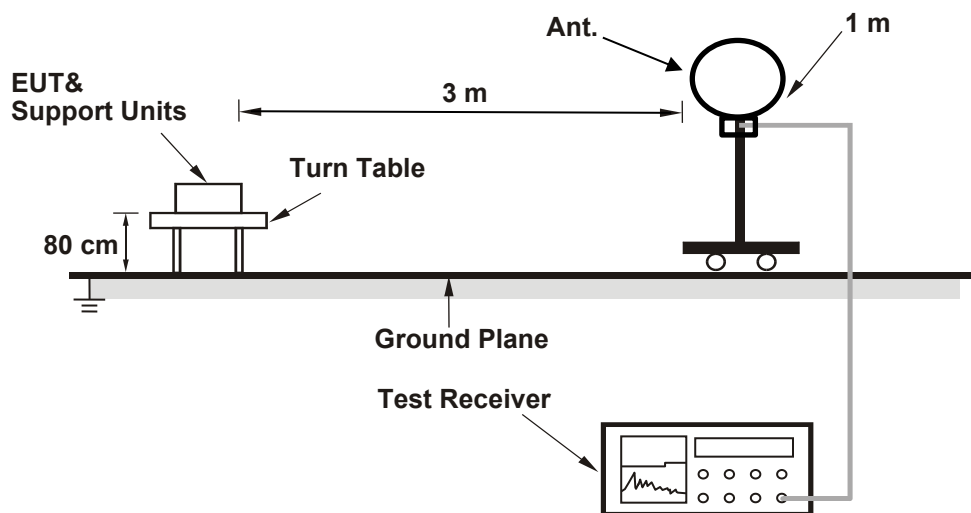
MEASUREMENT PROCEDURE OOB

- Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.
- Set RBW = 100 kHz.
- Set VBW ≥ 300 kHz.
- Detector = peak.
- Sweep = No faster than coupled (auto) time.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

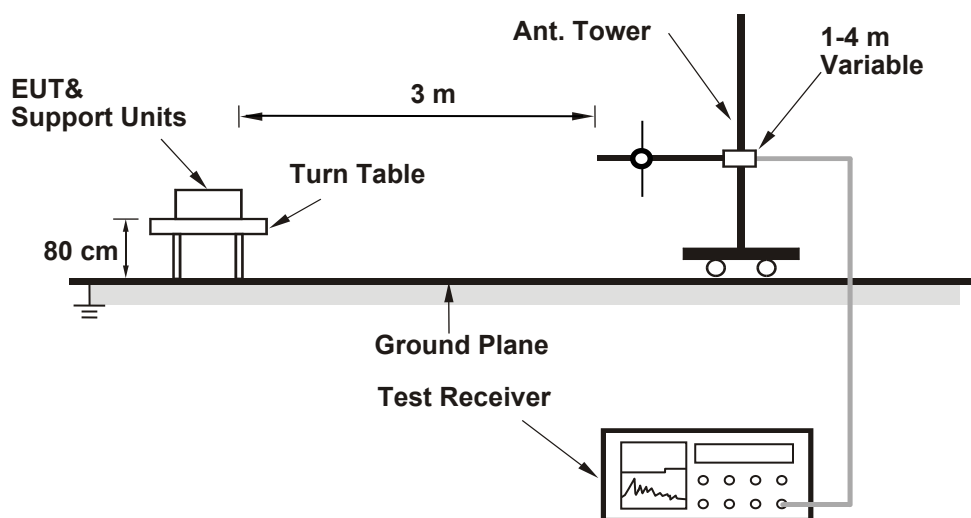
6.5 Unwanted Emissions below 1 GHz

6.5.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.5.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode (however, peak detector measurements may be used to determine compliance with QP requirements), except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

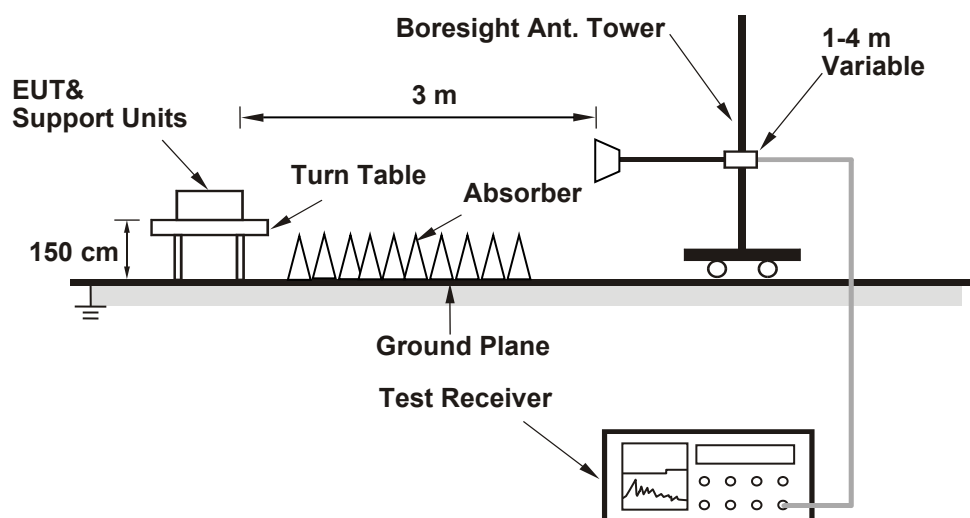
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-peak(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequencies less than or equal to 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz (however, peak detector measurements may be used to determine compliance with QP requirements).
2. All modes of operation were investigated and the worst-case emissions are reported.

6.6 Unwanted Emissions above 1 GHz

6.6.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.6.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver/spectrum analyzer was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- For fundamental and harmonic signal measurement, according to KDB 558074 D01 15.247 Meas Guidance v05r02 section 8.1(c)(3). The spectrum analyzer settings meet the requirements of 11.12.2.4 in ANSI C63.10 for making a Peak measurement, the average value = Peak value + duty cycle correction factor. The duty cycle measurement refers to FCC 47 CFR Part 15C section 15.35 (c). For duty cycle correction factor values, see the Test Signal Duty Cycle section in this report.
- All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Chen
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For Peak Power

BT-LE 1M

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
0	2402	2.57	4.10	30	Pass
19	2440	2.582	4.12	30	Pass
39	2480	2.588	4.13	30	Pass

Note: The antenna gain is 3.22 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

BT-LE 2M

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2404	2.559	4.08	30	Pass
19	2440	2.518	4.01	30	Pass
38	2478	2.553	4.07	30	Pass

Note: The antenna gain is 3.22 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

Logi Bolt 1M

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
0	2402	2.529	4.03	30	Pass
19	2440	2.559	4.08	30	Pass
39	2480	2.57	4.10	30	Pass

Note: The antenna gain is 3.22 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

Logi Bolt 2M

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2404	2.547	4.06	30	Pass
19	2440	2.512	4.00	30	Pass
38	2478	2.541	4.05	30	Pass

Note: The antenna gain is 3.22 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

For Average Power

BT-LE 1M

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	2.404	3.81
19	2440	2.41	3.82
39	2480	2.415	3.83

BT-LE 2M

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2404	2.415	3.83
19	2440	2.377	3.76
38	2478	2.421	3.84

Logi Bolt 1M

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	2.382	3.77
19	2440	2.399	3.80
39	2480	2.41	3.82

Logi Bolt 2M

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2404	2.404	3.81
19	2440	2.371	3.75
38	2478	2.404	3.81

7.2 Power Spectral Density

Input Power:	3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Chen
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BT-LE 1M

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
0	2402	-6.70	8	Pass
19	2440	-6.60	8	Pass
39	2480	-6.56	8	Pass

Note: The antenna gain is 3.22 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

BT-LE 2M

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2404	-9.55	8	Pass
19	2440	-9.38	8	Pass
38	2478	-9.36	8	Pass

Note: The antenna gain is 3.22 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

Logi Bolt 1M

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
0	2402	-6.80	8	Pass
19	2440	-6.67	8	Pass
39	2480	-6.65	8	Pass

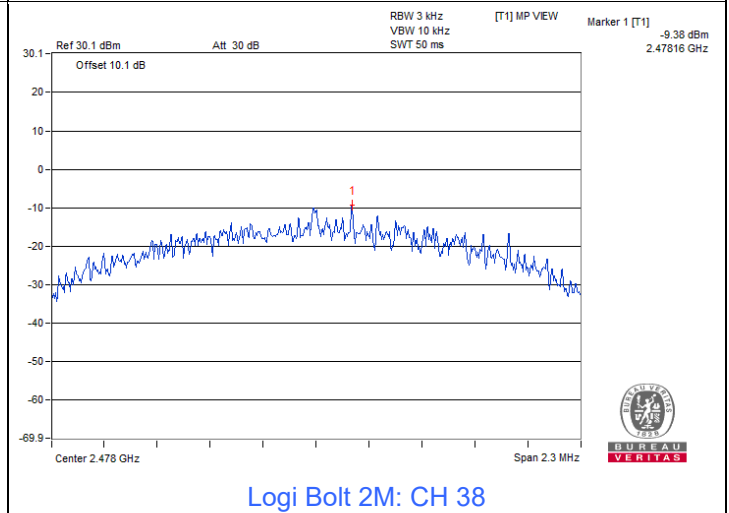
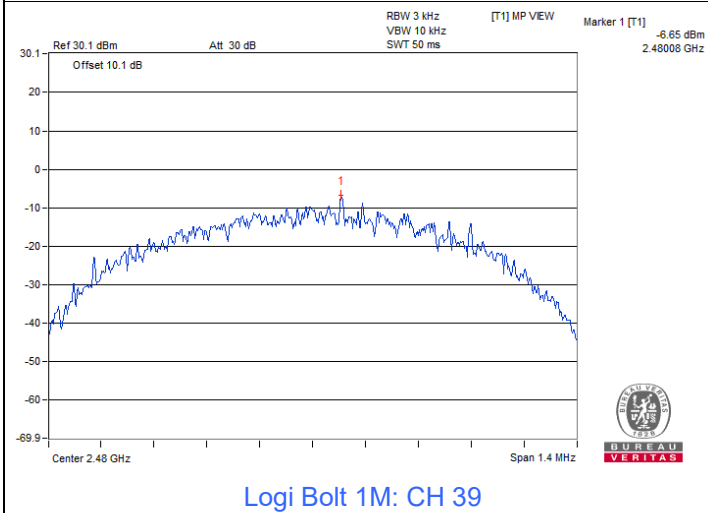
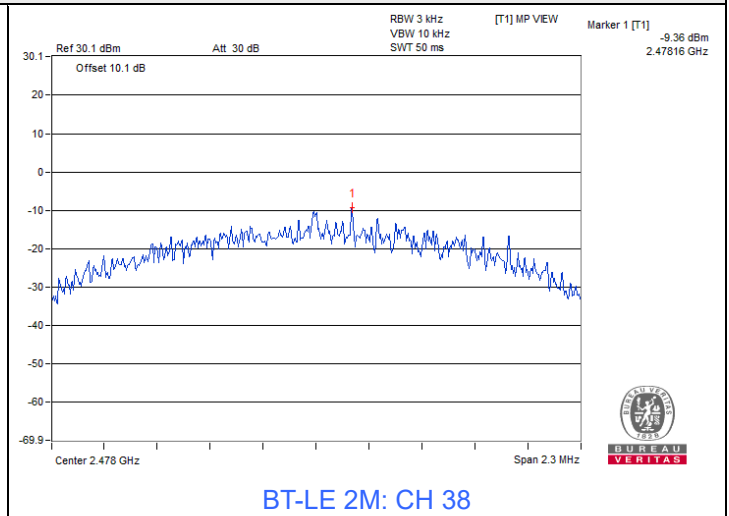
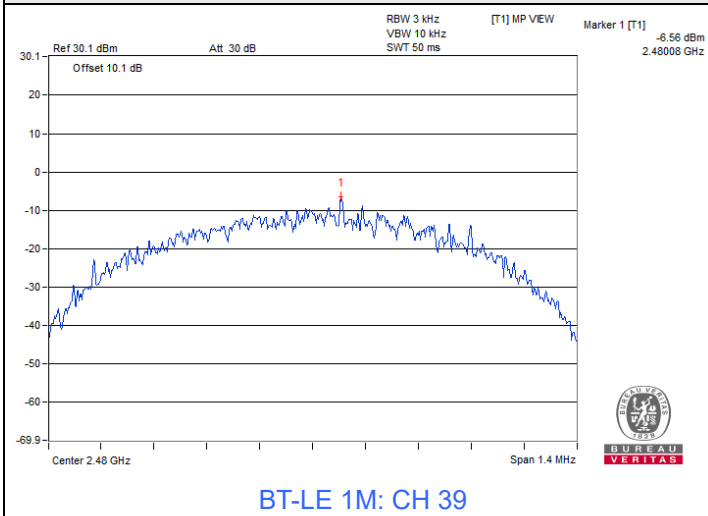
Note: The antenna gain is 3.22 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

Logi Bolt 2M

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2404	-9.56	8	Pass
19	2440	-9.52	8	Pass
38	2478	-9.38	8	Pass

Note: The antenna gain is 3.22 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

Spectrum Plot of Maximum Value



7.3 6 dB Bandwidth

Input Power:	3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Chen
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BT-LE 1M

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
0	2402	0.68	0.5	Pass
19	2440	0.7	0.5	Pass
39	2480	0.7	0.5	Pass

BT-LE 2M

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2404	1.15	0.5	Pass
19	2440	1.15	0.5	Pass
38	2478	1.15	0.5	Pass

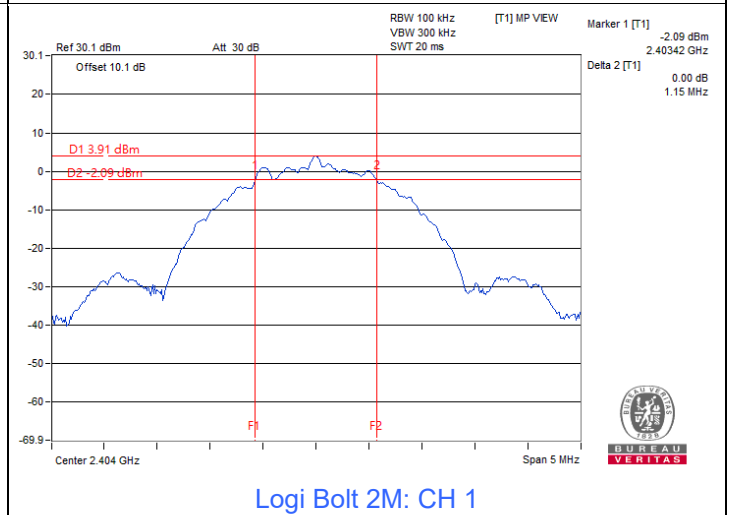
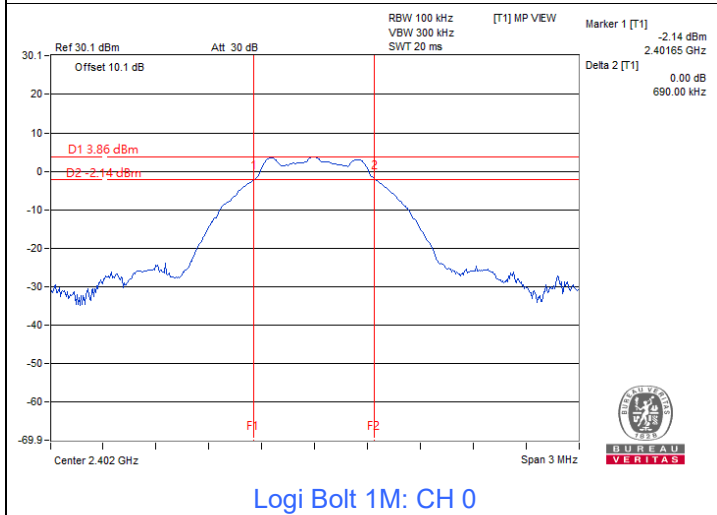
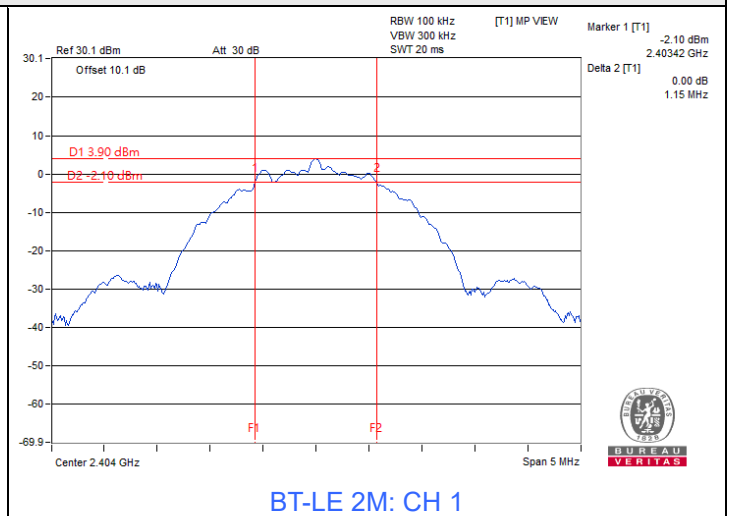
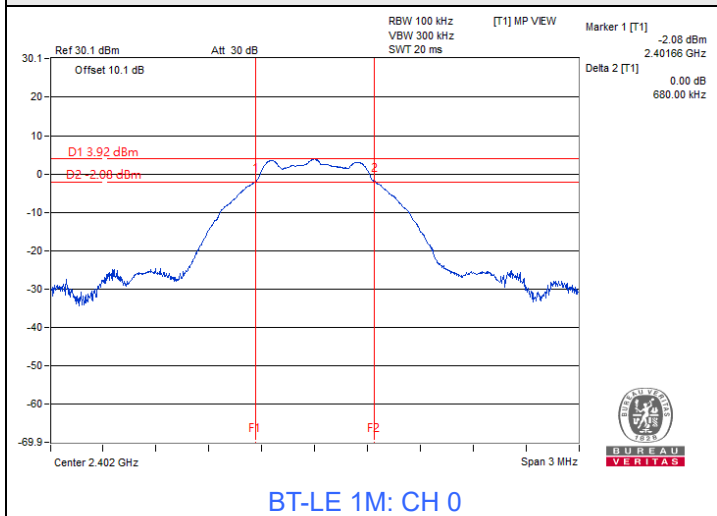
Logi Bolt 1M

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
0	2402	0.69	0.5	Pass
19	2440	0.7	0.5	Pass
39	2480	0.7	0.5	Pass

Logi Bolt 2M

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2404	1.15	0.5	Pass
19	2440	1.15	0.5	Pass
38	2478	1.15	0.5	Pass

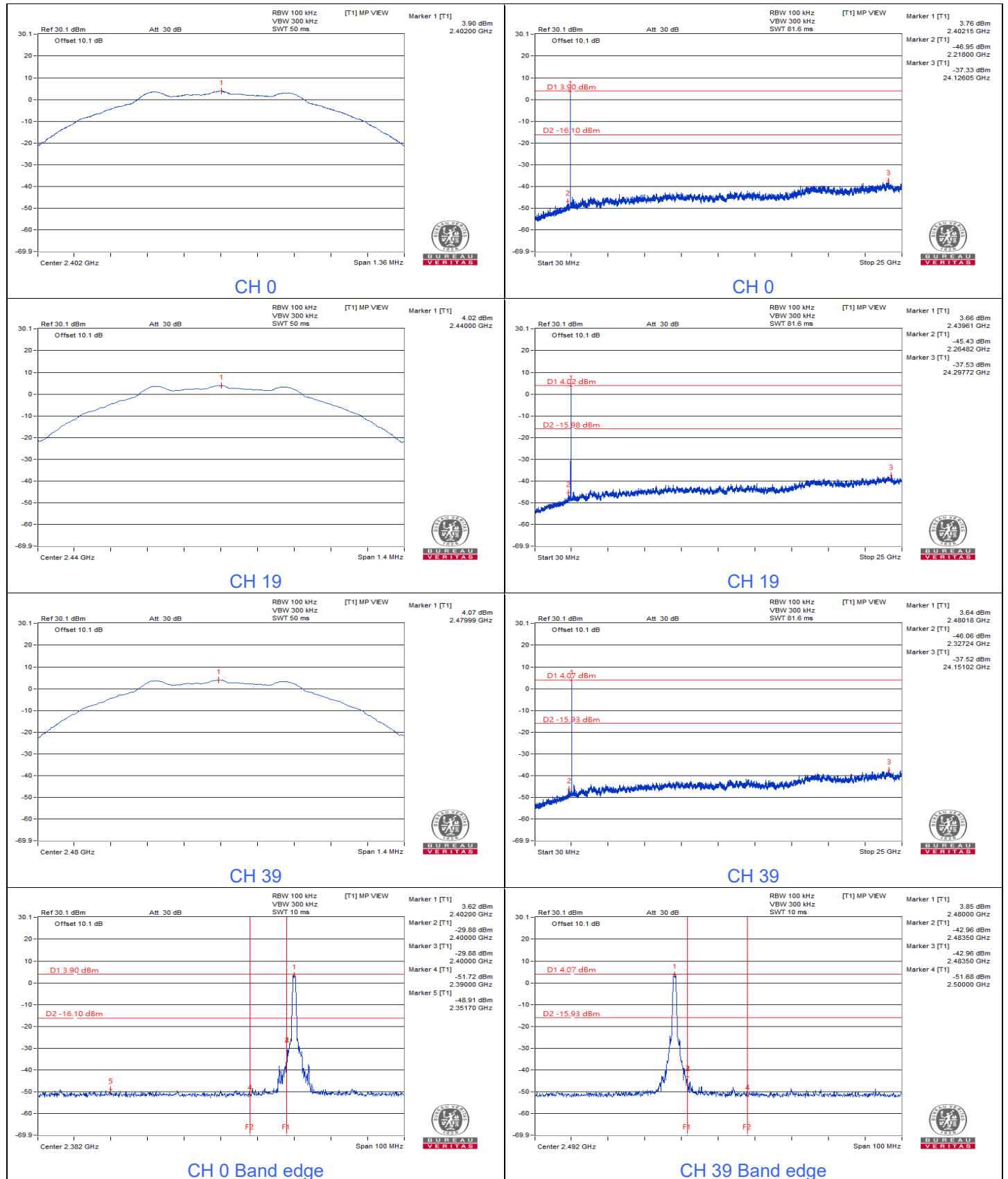
Spectrum Plot of Minimum Value



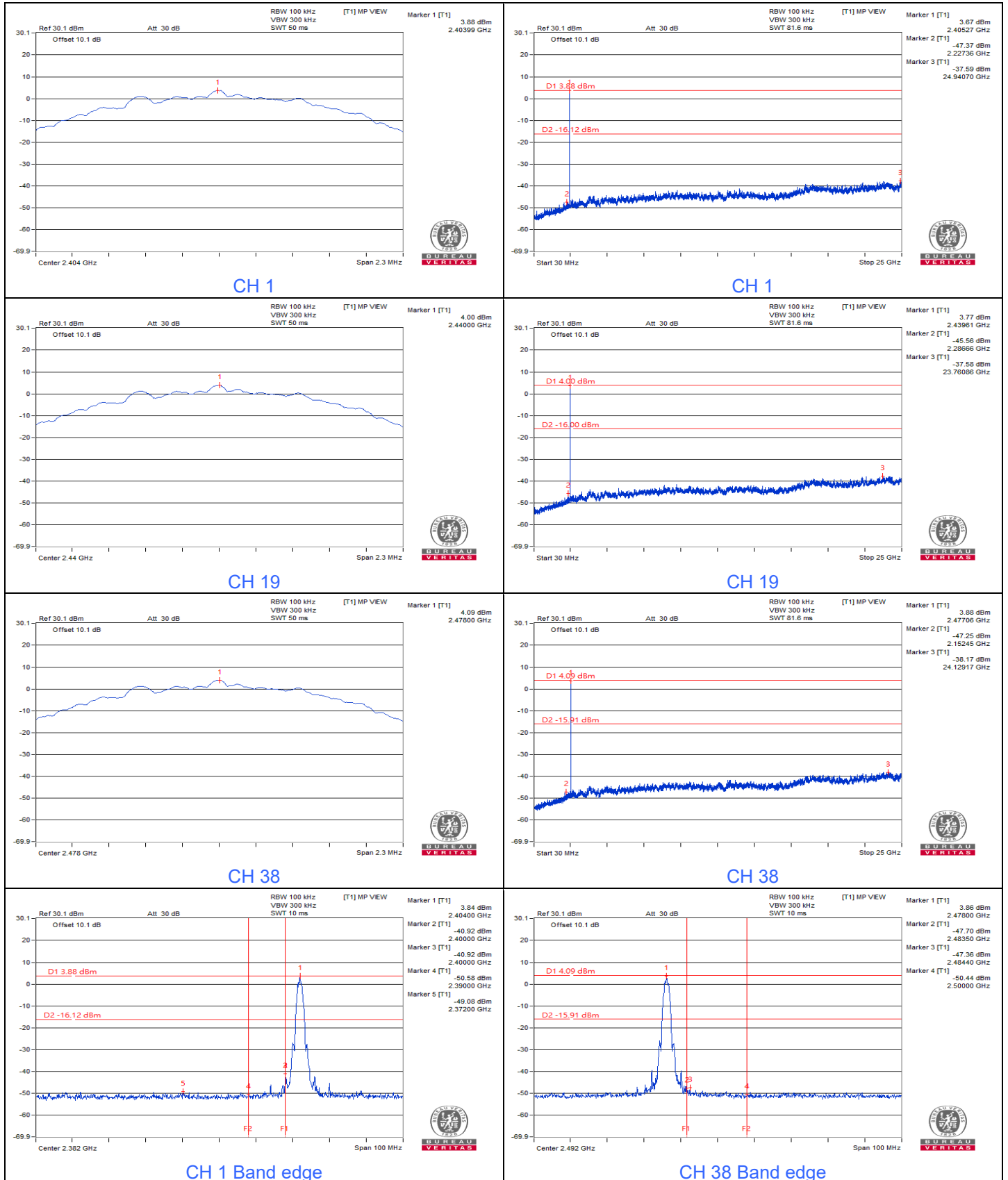
7.4 Conducted Out of Band Emissions

Input Power:	3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Wayne Chen
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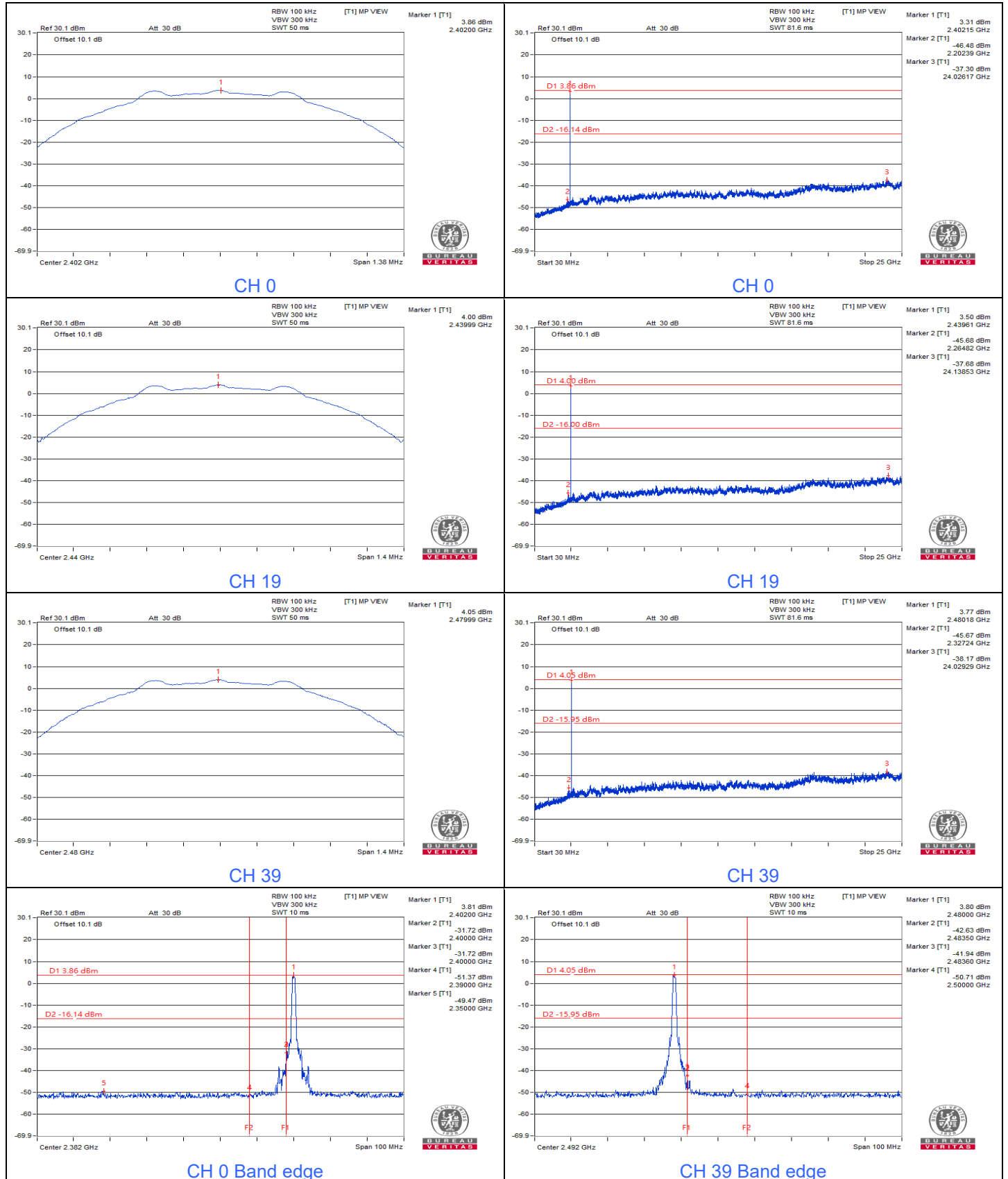
BT-LE 1M



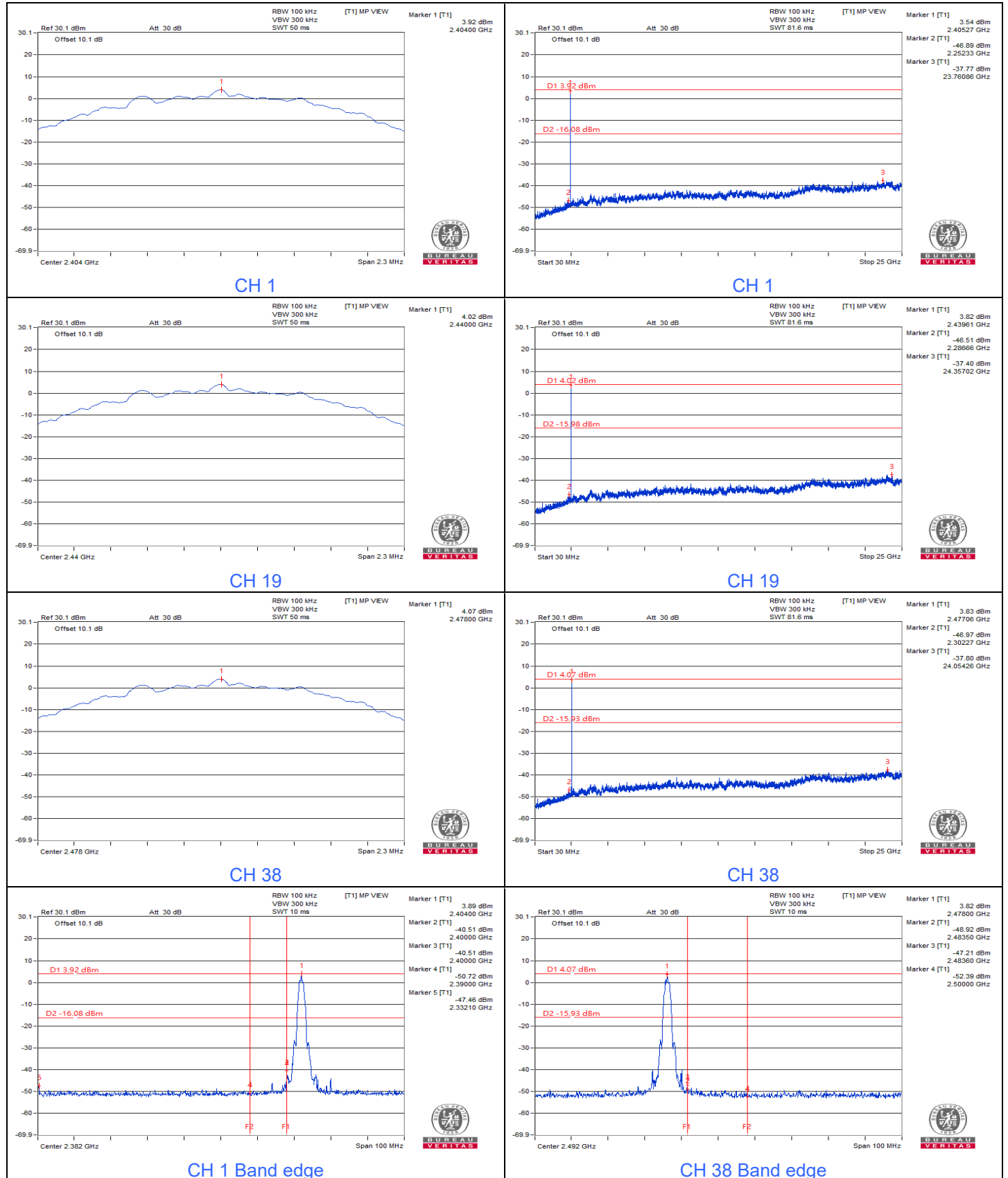
BT-LE 2M



Logi Bolt 1M



Logi Bolt 2M



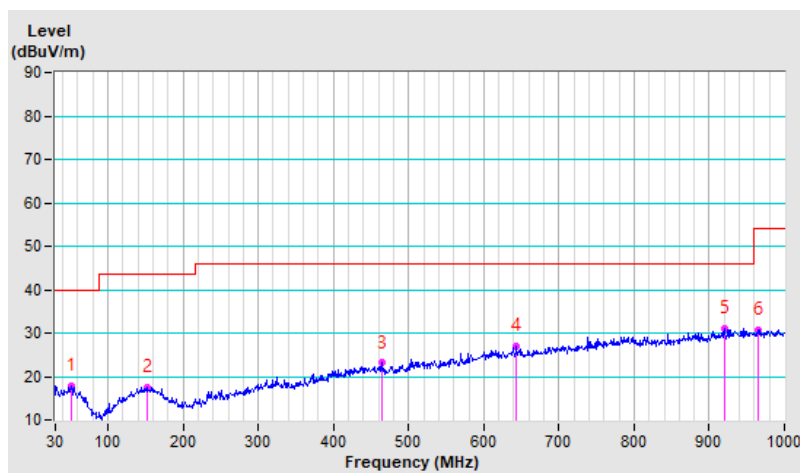
7.5 Unwanted Emissions below 1 GHz

RF Mode	BT LE-2M	Channel	CH 38 : 2478 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak
Input Power	3 Vdc	Environmental Conditions	26 °C, 64% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	50.47	17.8 PK	40.0	-22.2	2.00 H	360	30.4	-12.6
2	151.90	17.5 PK	43.5	-26.0	4.00 H	349	29.9	-12.4
3	464.07	23.1 PK	46.0	-22.9	1.50 H	178	31.0	-7.9
4	643.40	27.0 PK	46.0	-19.0	3.00 H	255	31.4	-4.4
5	919.95	31.0 PK	46.0	-15.0	1.00 H	353	31.8	-0.8
6	964.40	30.8 PK	54.0	-23.2	1.00 H	113	30.8	0.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

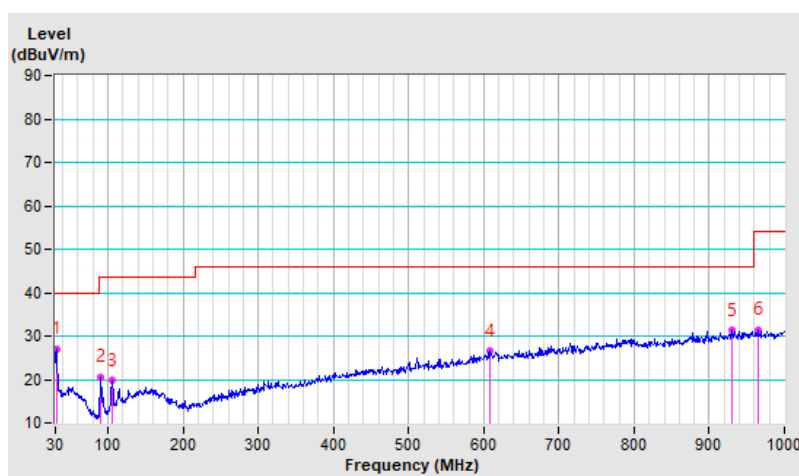


RF Mode	BT LE-2M	Channel	CH 38 : 2478 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak
Input Power	3 Vdc	Environmental Conditions	26 °C, 64% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.07	27.0 PK	40.0	-13.0	1.00 V	1	41.0	-14.0
2	90.21	20.5 PK	43.5	-23.0	1.00 V	120	39.0	-18.5
3	105.64	19.7 PK	43.5	-23.8	1.50 V	332	36.0	-16.3
4	608.39	26.4 PK	46.0	-19.6	1.50 V	79	31.1	-4.7
5	930.89	31.2 PK	46.0	-14.8	4.00 V	348	31.7	-0.5
6	964.38	31.5 PK	54.0	-22.5	1.50 V	165	31.5	0.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

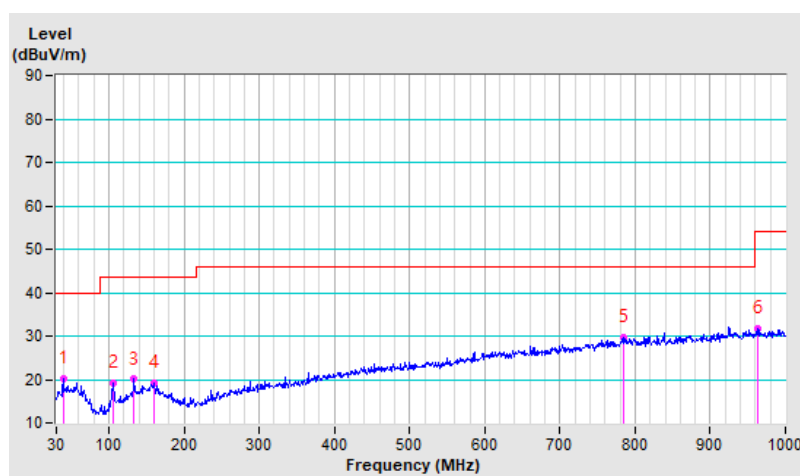


RF Mode	Logi Bolt 1M	Channel	CH 39 : 2480 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak
Input Power	3 Vdc	Environmental Conditions	22.3 °C, 64.8% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	38.88	20.1 PK	40.0	-19.9	3.00 H	1	33.4	-13.3
2	105.68	19.3 PK	43.5	-24.2	2.00 H	360	35.6	-16.3
3	133.21	20.0 PK	43.5	-23.5	1.00 H	360	33.5	-13.5
4	159.98	19.2 PK	43.5	-24.3	1.00 H	220	31.6	-12.4
5	783.93	29.6 PK	46.0	-16.4	4.00 H	55	31.7	-2.1
6	962.80	31.8 PK	54.0	-22.2	3.00 H	136	31.8	0.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

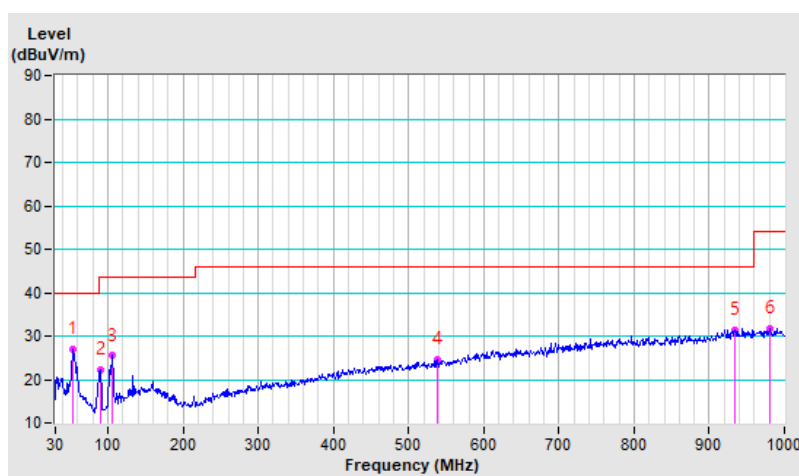


RF Mode	Logi Bolt 1M	Channel	CH 39 : 2480 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak
Input Power	3 Vdc	Environmental Conditions	22.3 °C, 64.8% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	53.84	26.9 PK	40.0	-13.1	1.50 V	360	39.7	-12.8
2	89.46	22.3 PK	43.5	-21.2	1.50 V	360	40.8	-18.5
3	105.71	25.5 PK	43.5	-18.0	2.00 V	131	41.8	-16.3
4	537.67	24.7 PK	46.0	-21.3	1.00 V	333	31.5	-6.8
5	933.43	31.5 PK	46.0	-14.5	1.00 V	262	31.8	-0.3
6	980.16	31.8 PK	54.0	-22.2	1.00 V	102	31.9	-0.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.6 Unwanted Emissions above 1 GHz

RF Mode	BT-LE 1M	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
Input Power	3 Vdc	Environmental Conditions	26 °C, 64% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.6 PK	74.0	-18.4	2.08 H	344	59.1	-3.5
2	2390.00	44.4 AV	54.0	-9.6	2.08 H	344	47.9	-3.5
3	*2402.00	98.0 PK			2.08 H	344	101.4	-3.4
4	*2402.00	72.0 AV			2.08 H	344	75.4	-3.4
5	4804.00	52.6 PK	74.0	-21.4	1.00 H	23	51.5	1.1
6	4804.00	26.6 AV	54.0	-27.4	1.00 H	23	25.5	1.1
7	12010.00	55.7 PK	74.0	-18.3	1.24 H	76	44.0	11.7
8	12010.00	29.7 AV	54.0	-24.3	1.24 H	76	18.0	11.7

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	52.3 PK	74.0	-21.7	3.56 V	220	55.8	-3.5
2	2390.00	43.9 AV	54.0	-10.1	3.56 V	220	47.4	-3.5
3	*2402.00	86.0 PK			3.56 V	220	89.4	-3.4
4	*2402.00	60.0 AV			3.56 V	220	63.4	-3.4
5	4804.00	43.3 PK	74.0	-30.7	2.40 V	345	42.2	1.1
6	4804.00	17.3 AV	54.0	-36.7	2.40 V	345	16.2	1.1
7	12010.00	55.4 PK	74.0	-18.6	1.21 V	145	43.7	11.7
8	12010.00	29.4 AV	54.0	-24.6	1.21 V	145	17.7	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:

$$20 \log(\text{Duty cycle}) = 20 \log(0.352 \text{ ms} / 6.987 \text{ ms}) = -26.0 \text{ dB}$$

RF Mode	BT-LE 1M	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
Input Power	3 Vdc	Environmental Conditions	26 °C, 64% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	96.2 PK			2.35 H	341	99.7	-3.5
2	*2440.00	70.2 AV			2.35 H	341	73.7	-3.5
3	4880.00	52.3 PK	74.0	-21.7	1.14 H	26	51.3	1.0
4	4880.00	26.3 AV	54.0	-27.7	1.14 H	26	25.3	1.0
5	7320.00	53.2 PK	74.0	-20.8	1.50 H	310	45.7	7.5
6	7320.00	27.2 AV	54.0	-26.8	1.50 H	310	19.7	7.5
7	12200.00	57.0 PK	74.0	-17.0	1.18 H	145	45.0	12.0
8	12200.00	31.0 AV	54.0	-23.0	1.18 H	145	19.0	12.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	85.5 PK			3.54 V	260	89.0	-3.5
2	*2440.00	59.5 AV			3.54 V	260	63.0	-3.5
3	4880.00	45.1 PK	74.0	-28.9	3.99 V	360	44.1	1.0
4	4880.00	19.1 AV	54.0	-34.9	3.99 V	360	18.1	1.0
5	7320.00	55.1 PK	74.0	-18.9	1.55 V	347	47.6	7.5
6	7320.00	29.1 AV	54.0	-24.9	1.55 V	347	21.6	7.5
7	12200.00	56.8 PK	74.0	-17.2	1.22 V	76	44.8	12.0
8	12200.00	30.8 AV	54.0	-23.2	1.22 V	76	18.8	12.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:

$$20 \log(\text{Duty cycle}) = 20 \log(0.352 \text{ ms} / 6.987 \text{ ms}) = -26.0 \text{ dB}$$

RF Mode	BT-LE 1M	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
Input Power	3 Vdc	Environmental Conditions	26 °C, 64% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	97.1 PK			1.06 H	348	100.6	-3.5
2	*2480.00	71.1 AV			1.06 H	348	74.6	-3.5
3	2483.50	55.1 PK	74.0	-18.9	1.06 H	348	58.6	-3.5
4	2483.50	44.1 AV	54.0	-9.9	1.06 H	348	47.6	-3.5
5	4960.00	48.5 PK	74.0	-25.5	1.00 H	360	47.3	1.2
6	4960.00	22.5 AV	54.0	-31.5	1.00 H	360	21.3	1.2
7	7440.00	56.7 PK	74.0	-17.3	1.04 H	0	49.2	7.5
8	7440.00	30.7 AV	54.0	-23.3	1.04 H	0	23.2	7.5
9	12400.00	58.9 PK	74.0	-15.1	1.30 H	85	47.4	11.5
10	12400.00	32.9 AV	54.0	-21.1	1.30 H	85	21.4	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	83.7 PK			3.98 V	178	87.2	-3.5
2	*2480.00	57.7 AV			3.98 V	178	61.2	-3.5
3	2483.50	53.5 PK	74.0	-20.5	3.98 V	178	57.0	-3.5
4	2483.50	44.3 AV	54.0	-9.7	3.98 V	178	47.8	-3.5
5	4960.00	43.5 PK	74.0	-30.5	3.15 V	213	42.3	1.2
6	4960.00	17.5 AV	54.0	-36.5	3.15 V	213	16.3	1.2
7	7440.00	56.0 PK	74.0	-18.0	1.22 V	1	48.5	7.5
8	7440.00	30.0 AV	54.0	-24.0	1.22 V	1	22.5	7.5
9	12400.00	58.4 PK	74.0	-15.6	1.10 V	61	46.9	11.5
10	12400.00	32.4 AV	54.0	-21.6	1.10 V	61	20.9	11.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:

$$20 \log(\text{Duty cycle}) = 20 \log(0.352 \text{ ms} / 6.987 \text{ ms}) = -26.0 \text{ dB}$$

RF Mode	BT-LE 2M	Channel	CH 1 : 2404 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
Input Power	3 Vdc	Environmental Conditions	26 °C, 64% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.2 PK	74.0	-17.8	1.15 H	348	59.7	-3.5
2	2390.00	44.8 AV	54.0	-9.2	1.15 H	348	48.3	-3.5
3	*2404.00	98.2 PK			1.15 H	348	101.6	-3.4
4	*2404.00	66.5 AV			1.15 H	348	69.9	-3.4
5	4808.00	52.4 PK	74.0	-21.6	1.15 H	227	51.3	1.1
6	4808.00	20.7 AV	54.0	-33.3	1.15 H	227	19.6	1.1
7	12020.00	54.9 PK	74.0	-19.1	1.32 H	78	43.1	11.8
8	12020.00	23.2 AV	54.0	-30.8	1.32 H	78	11.4	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	49.9 PK	74.0	-24.1	3.48 V	265	53.4	-3.5
2	2390.00	43.4 AV	54.0	-10.6	3.48 V	265	46.9	-3.5
3	*2404.00	85.1 PK			3.48 V	265	88.5	-3.4
4	*2404.00	53.4 AV			3.48 V	265	56.8	-3.4
5	4808.00	44.2 PK	74.0	-29.8	1.02 V	345	43.1	1.1
6	4808.00	12.5 AV	54.0	-41.5	1.02 V	345	11.4	1.1
7	12020.00	54.8 PK	74.0	-19.2	1.21 V	229	43.0	11.8
8	12020.00	23.1 AV	54.0	-30.9	1.21 V	229	11.3	11.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:

$$20 \log(\text{Duty cycle}) = 20 \log(0.182 \text{ ms} / 6.988 \text{ ms}) = -31.7 \text{ dB}$$

RF Mode	BT-LE 2M	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
Input Power	3 Vdc	Environmental Conditions	26 °C, 64% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	98.1 PK			1.20 H	355	101.6	-3.5
2	*2440.00	66.4 AV			1.20 H	355	69.9	-3.5
3	4880.00	52.1 PK	74.0	-21.9	1.01 H	33	51.1	1.0
4	4880.00	20.4 AV	54.0	-33.6	1.01 H	33	19.4	1.0
5	7320.00	56.2 PK	74.0	-17.8	1.01 H	33	48.7	7.5
6	7320.00	24.5 AV	54.0	-29.5	1.01 H	33	17.0	7.5
7	12200.00	56.1 PK	74.0	-17.9	1.18 H	145	44.1	12.0
8	12200.00	24.4 AV	54.0	-29.6	1.18 H	145	12.4	12.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	85.0 PK			3.42 V	230	88.5	-3.5
2	*2440.00	53.3 AV			3.42 V	230	56.8	-3.5
3	4880.00	44.3 PK	74.0	-29.7	1.02 V	109	43.3	1.0
4	4880.00	12.6 AV	54.0	-41.4	1.02 V	109	11.6	1.0
5	7320.00	54.9 PK	74.0	-19.1	2.76 V	3	47.4	7.5
6	7320.00	23.2 AV	54.0	-30.8	2.76 V	3	15.7	7.5
7	12200.00	55.1 PK	74.0	-18.9	1.22 V	76	43.1	12.0
8	12200.00	23.4 AV	54.0	-30.6	1.22 V	76	11.4	12.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:

$$20 \log(\text{Duty cycle}) = 20 \log(0.182 \text{ ms} / 6.988 \text{ ms}) = -31.7 \text{ dB}$$

RF Mode	BT-LE 2M	Channel	CH 38 : 2478 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
Input Power	3 Vdc	Environmental Conditions	26 °C, 64% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	98.7 PK			1.00 H	348	102.2	-3.5
2	*2478.00	67.0 AV			1.00 H	348	70.5	-3.5
3	2483.50	54.9 PK	74.0	-19.1	1.00 H	348	58.4	-3.5
4	2483.50	44.1 AV	54.0	-9.9	1.00 H	348	47.6	-3.5
5	4956.00	48.1 PK	74.0	-25.9	1.00 H	38	46.9	1.2
6	4956.00	16.4 AV	54.0	-37.6	1.00 H	38	15.2	1.2
7	7434.00	55.4 PK	74.0	-18.6	1.03 H	336	47.9	7.5
8	7434.00	23.7 AV	54.0	-30.3	1.03 H	336	16.2	7.5
9	12390.00	56.8 PK	74.0	-17.2	1.23 H	72	45.2	11.6
10	12390.00	25.1 AV	54.0	-28.9	1.23 H	72	13.5	11.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	85.7 PK			3.90 V	62	89.2	-3.5
2	*2478.00	54.0 AV			3.90 V	62	57.5	-3.5
3	2483.50	55.1 PK	74.0	-18.9	3.90 V	62	58.6	-3.5
4	2483.50	45.5 AV	54.0	-8.5	3.90 V	62	49.0	-3.5
5	4956.00	43.8 PK	74.0	-30.2	1.44 V	96	42.6	1.2
6	4956.00	12.1 AV	54.0	-41.9	1.44 V	96	10.9	1.2
7	7434.00	55.3 PK	74.0	-18.7	2.45 V	12	47.8	7.5
8	7434.00	23.6 AV	54.0	-30.4	2.45 V	12	16.1	7.5
9	12390.00	56.1 PK	74.0	-17.9	1.51 V	221	44.5	11.6
10	12390.00	24.4 AV	54.0	-29.6	1.51 V	221	12.8	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:

$$20 \log(\text{Duty cycle}) = 20 \log(0.182 \text{ ms} / 6.988 \text{ ms}) = -31.7 \text{ dB}$$

RF Mode	Logi Bolt 1M	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
Input Power	3 Vdc	Environmental Conditions	26 °C, 64% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	54.3 PK	74.0	-19.7	1.00 H	344	57.8	-3.5
2	2390.00	44.2 AV	54.0	-9.8	1.00 H	344	47.7	-3.5
3	*2402.00	97.1 PK			1.00 H	344	100.5	-3.4
4	*2402.00	71.1 AV			1.00 H	344	74.5	-3.4
5	4804.00	52.4 PK	74.0	-21.6	1.01 H	23	51.3	1.1
6	4804.00	26.4 AV	54.0	-27.6	1.01 H	23	25.3	1.1
7	12010.00	54.6 PK	74.0	-19.4	1.24 H	76	42.9	11.7
8	12010.00	28.6 AV	54.0	-25.4	1.24 H	76	16.9	11.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	54.3 PK	74.0	-19.7	3.57 V	284	57.8	-3.5
2	2390.00	43.8 AV	54.0	-10.2	3.57 V	284	47.3	-3.5
3	*2402.00	83.7 PK			3.57 V	284	87.1	-3.4
4	*2402.00	57.7 AV			3.57 V	284	61.1	-3.4
5	4804.00	43.2 PK	74.0	-30.8	3.84 V	21	42.1	1.1
6	4804.00	17.2 AV	54.0	-36.8	3.84 V	21	16.1	1.1
7	12010.00	54.3 PK	74.0	-19.7	1.20 V	148	42.6	11.7
8	12010.00	28.3 AV	54.0	-25.7	1.20 V	148	16.6	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:

$$20 \log(\text{Duty cycle}) = 20 \log(0.352 \text{ ms} / 6.988 \text{ ms}) = -26.0 \text{ dB}$$

RF Mode	Logi Bolt 1M	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
Input Power	3 Vdc	Environmental Conditions	26 °C, 64% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	96.1 PK			2.30 H	345	99.6	-3.5
2	*2440.00	70.1 AV			2.30 H	345	73.6	-3.5
3	4880.00	52.3 PK	74.0	-21.7	1.10 H	28	51.3	1.0
4	4880.00	26.3 AV	54.0	-27.7	1.10 H	28	25.3	1.0
5	7320.00	52.7 PK	74.0	-21.3	1.54 H	310	45.2	7.5
6	7320.00	26.7 AV	54.0	-27.3	1.54 H	310	19.2	7.5
7	12200.00	54.9 PK	74.0	-19.1	1.18 H	145	42.9	12.0
8	12200.00	28.9 AV	54.0	-25.1	1.18 H	145	16.9	12.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	83.6 PK			3.66 V	235	87.1	-3.5
2	*2440.00	57.6 AV			3.66 V	235	61.1	-3.5
3	4880.00	43.2 PK	74.0	-30.8	3.20 V	215	42.2	1.0
4	4880.00	17.2 AV	54.0	-36.8	3.20 V	215	16.2	1.0
5	7320.00	55.3 PK	74.0	-18.7	1.20 V	23	47.8	7.5
6	7320.00	29.3 AV	54.0	-24.7	1.20 V	23	21.8	7.5
7	12200.00	54.3 PK	74.0	-19.7	1.22 V	76	42.3	12.0
8	12200.00	28.3 AV	54.0	-25.7	1.22 V	76	16.3	12.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:

$$20 \log(\text{Duty cycle}) = 20 \log(0.352 \text{ ms} / 6.988 \text{ ms}) = -26.0 \text{ dB}$$

RF Mode	Logi Bolt 1M	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
Input Power	3 Vdc	Environmental Conditions	26 °C, 64% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	98.1 PK			1.07 H	350	101.6	-3.5
2	*2480.00	72.1 AV			1.07 H	350	75.6	-3.5
3	2483.50	54.7 PK	74.0	-19.3	1.07 H	350	58.2	-3.5
4	2483.50	44.5 AV	54.0	-9.5	1.07 H	350	48.0	-3.5
5	4960.00	49.3 PK	74.0	-24.7	1.05 H	360	48.1	1.2
6	4960.00	23.3 AV	54.0	-30.7	1.05 H	360	22.1	1.2
7	7440.00	57.1 PK	74.0	-16.9	1.10 H	10	49.6	7.5
8	7440.00	31.1 AV	54.0	-22.9	1.10 H	10	23.6	7.5
9	12400.00	59.9 PK	74.0	-14.1	1.30 H	85	48.4	11.5
10	12400.00	33.9 AV	54.0	-20.1	1.30 H	85	22.4	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	83.4 PK			3.97 V	199	86.9	-3.5
2	*2480.00	57.4 AV			3.97 V	199	60.9	-3.5
3	2483.50	54.7 PK	74.0	-19.3	3.97 V	199	58.2	-3.5
4	2483.50	45.6 AV	54.0	-8.4	3.97 V	199	49.1	-3.5
5	4960.00	43.8 PK	74.0	-30.2	1.41 V	93	42.6	1.2
6	4960.00	17.8 AV	54.0	-36.2	1.41 V	93	16.6	1.2
7	7440.00	55.4 PK	74.0	-18.6	2.41 V	4	47.9	7.5
8	7440.00	29.4 AV	54.0	-24.6	2.41 V	4	21.9	7.5
9	12400.00	59.7 PK	74.0	-14.3	1.10 V	61	48.2	11.5
10	12400.00	33.7 AV	54.0	-20.3	1.10 V	61	22.2	11.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:

$$20 \log(\text{Duty cycle}) = 20 \log(0.352 \text{ ms} / 6.988 \text{ ms}) = -26.0 \text{ dB}$$

RF Mode	Logi Bolt 2M	Channel	CH 1 : 2404 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
Input Power	3 Vdc	Environmental Conditions	26 °C, 64% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	54.9 PK	74.0	-19.1	1.14 H	347	58.4	-3.5
2	2390.00	44.9 AV	54.0	-9.1	1.14 H	347	48.4	-3.5
3	*2404.00	97.7 PK			1.14 H	347	101.1	-3.4
4	*2404.00	66.0 AV			1.14 H	347	69.4	-3.4
5	4808.00	53.1 PK	74.0	-20.9	1.09 H	227	52.0	1.1
6	4808.00	21.4 AV	54.0	-32.6	1.09 H	227	20.3	1.1
7	12020.00	55.0 PK	74.0	-19.0	1.32 H	78	43.2	11.8
8	12020.00	23.3 AV	54.0	-30.7	1.32 H	78	11.5	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	49.6 PK	74.0	-24.4	3.44 V	263	53.1	-3.5
2	2390.00	45.8 AV	54.0	-8.2	3.44 V	263	49.3	-3.5
3	*2404.00	84.6 PK			3.44 V	263	88.0	-3.4
4	*2404.00	52.9 AV			3.44 V	263	56.3	-3.4
5	4808.00	45.7 PK	74.0	-28.3	1.05 V	357	44.6	1.1
6	4808.00	14.0 AV	54.0	-40.0	1.05 V	357	12.9	1.1
7	12020.00	54.6 PK	74.0	-19.4	1.21 V	229	42.8	11.8
8	12020.00	22.9 AV	54.0	-31.1	1.21 V	229	11.1	11.8

Remarks:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- Margin value = Emission Level – Limit value
- The other emission levels were very low against the limit.
- " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
- The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:
 $20 \log(\text{Duty cycle}) = 20 \log(0.182 \text{ ms} / 6.986 \text{ ms}) = -31.7 \text{ dB}$

RF Mode	Logi Bolt 2M	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
Input Power	3 Vdc	Environmental Conditions	26 °C, 64% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	98.0 PK			1.25 H	334	101.5	-3.5
2	*2440.00	66.3 AV			1.25 H	334	69.8	-3.5
3	4880.00	51.6 PK	74.0	-22.4	1.01 H	39	50.6	1.0
4	4880.00	19.9 AV	54.0	-34.1	1.01 H	39	18.9	1.0
5	7320.00	54.0 PK	74.0	-20.0	1.10 H	39	46.5	7.5
6	7320.00	22.3 AV	54.0	-31.7	1.10 H	39	14.8	7.5
7	12200.00	55.1 PK	74.0	-18.9	1.18 H	145	43.1	12.0
8	12200.00	23.4 AV	54.0	-30.6	1.18 H	145	11.4	12.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2440.00	85.2 PK			3.36 V	64	88.7	-3.5
2	*2440.00	53.5 AV			3.36 V	64	57.0	-3.5
3	4880.00	46.4 PK	74.0	-27.6	1.02 V	106	45.4	1.0
4	4880.00	14.7 AV	54.0	-39.3	1.02 V	106	13.7	1.0
5	7320.00	56.8 PK	74.0	-17.2	2.78 V	31	49.3	7.5
6	7320.00	25.1 AV	54.0	-28.9	2.78 V	31	17.6	7.5
7	12200.00	54.8 PK	74.0	-19.2	1.22 V	76	42.8	12.0
8	12200.00	23.1 AV	54.0	-30.9	1.22 V	76	11.1	12.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:

$$20 \log(\text{Duty cycle}) = 20 \log(0.182 \text{ ms} / 6.986 \text{ ms}) = -31.7 \text{ dB}$$

RF Mode	Logi Bolt 2M	Channel	CH 38 : 2478 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
Input Power	3 Vdc	Environmental Conditions	26 °C, 64% RH
Tested By	Felix Chang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	98.6 PK			1.01 H	340	102.1	-3.5
2	*2478.00	66.9 AV			1.01 H	340	70.4	-3.5
3	2483.50	56.8 PK	74.0	-17.2	1.01 H	340	60.3	-3.5
4	2483.50	44.3 AV	54.0	-9.7	1.01 H	340	47.8	-3.5
5	4956.00	47.8 PK	74.0	-26.2	1.06 H	48	46.6	1.2
6	4956.00	16.1 AV	54.0	-37.9	1.06 H	48	14.9	1.2
7	7434.00	55.5 PK	74.0	-18.5	1.07 H	332	48.0	7.5
8	7434.00	23.8 AV	54.0	-30.2	1.07 H	332	16.3	7.5
9	12390.00	56.3 PK	74.0	-17.7	1.23 H	72	44.7	11.6
10	12390.00	25.1 AV	54.0	-28.9	1.23 H	72	13.5	11.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2478.00	85.6 PK			3.98 V	61	89.1	-3.5
2	*2478.00	53.9 AV			3.98 V	61	57.4	-3.5
3	2483.50	54.0 PK	74.0	-20.0	3.98 V	61	57.5	-3.5
4	2483.50	44.8 AV	54.0	-9.2	3.98 V	61	48.3	-3.5
5	4956.00	48.3 PK	74.0	-25.7	1.02 V	23	47.1	1.2
6	4956.00	16.6 AV	54.0	-37.4	1.02 V	23	15.4	1.2
7	7434.00	54.8 PK	74.0	-19.2	1.06 V	328	47.3	7.5
8	7434.00	23.1 AV	54.0	-30.9	1.06 V	328	15.6	7.5
9	12390.00	55.6 PK	74.0	-18.4	1.51 V	221	44.0	11.6
10	12390.00	23.9 AV	54.0	-30.1	1.51 V	221	12.3	11.6

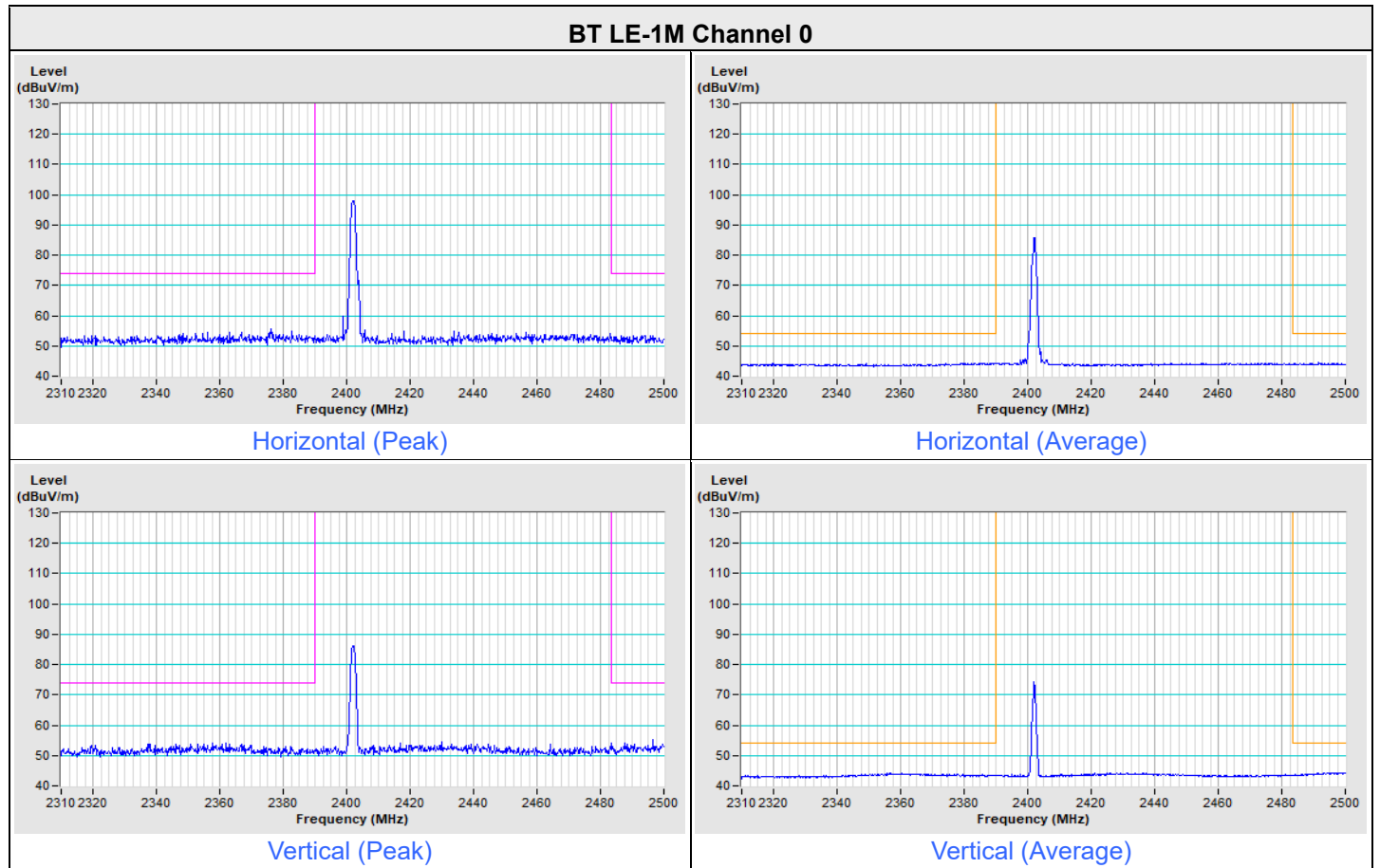
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:

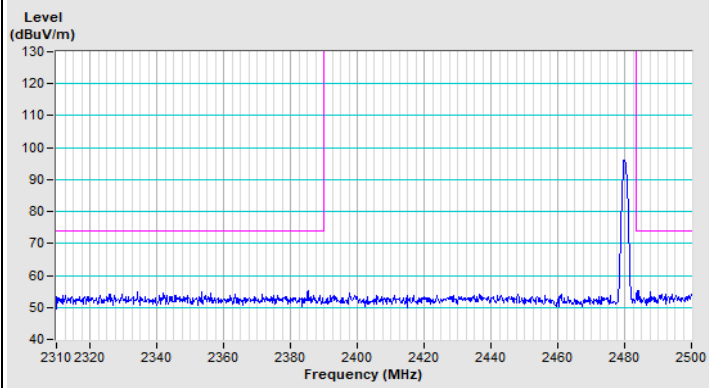
$$20 \log(\text{Duty cycle}) = 20 \log(0.182 \text{ ms} / 6.986 \text{ ms}) = -31.7 \text{ dB}$$

Plot of Band Edge

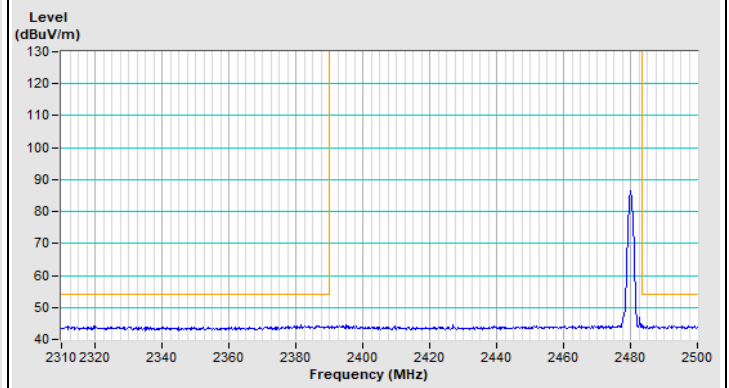
Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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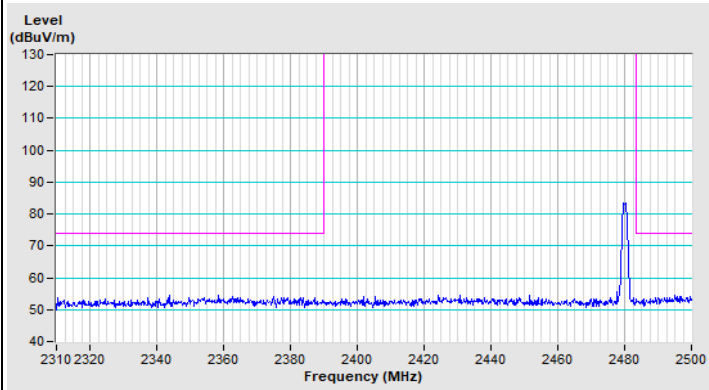
BT LE-1M Channel 39



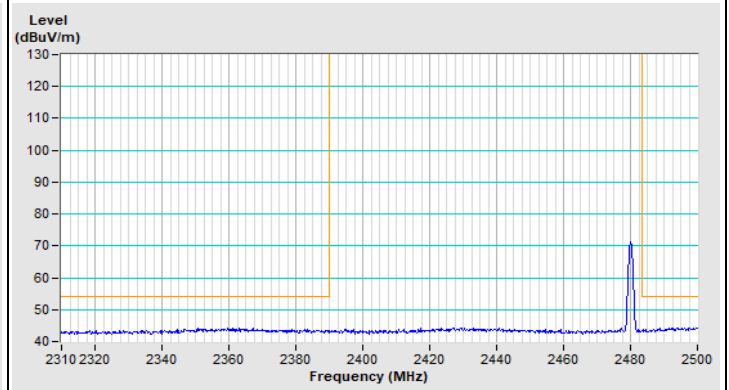
Horizontal (Peak)



Horizontal (Average)

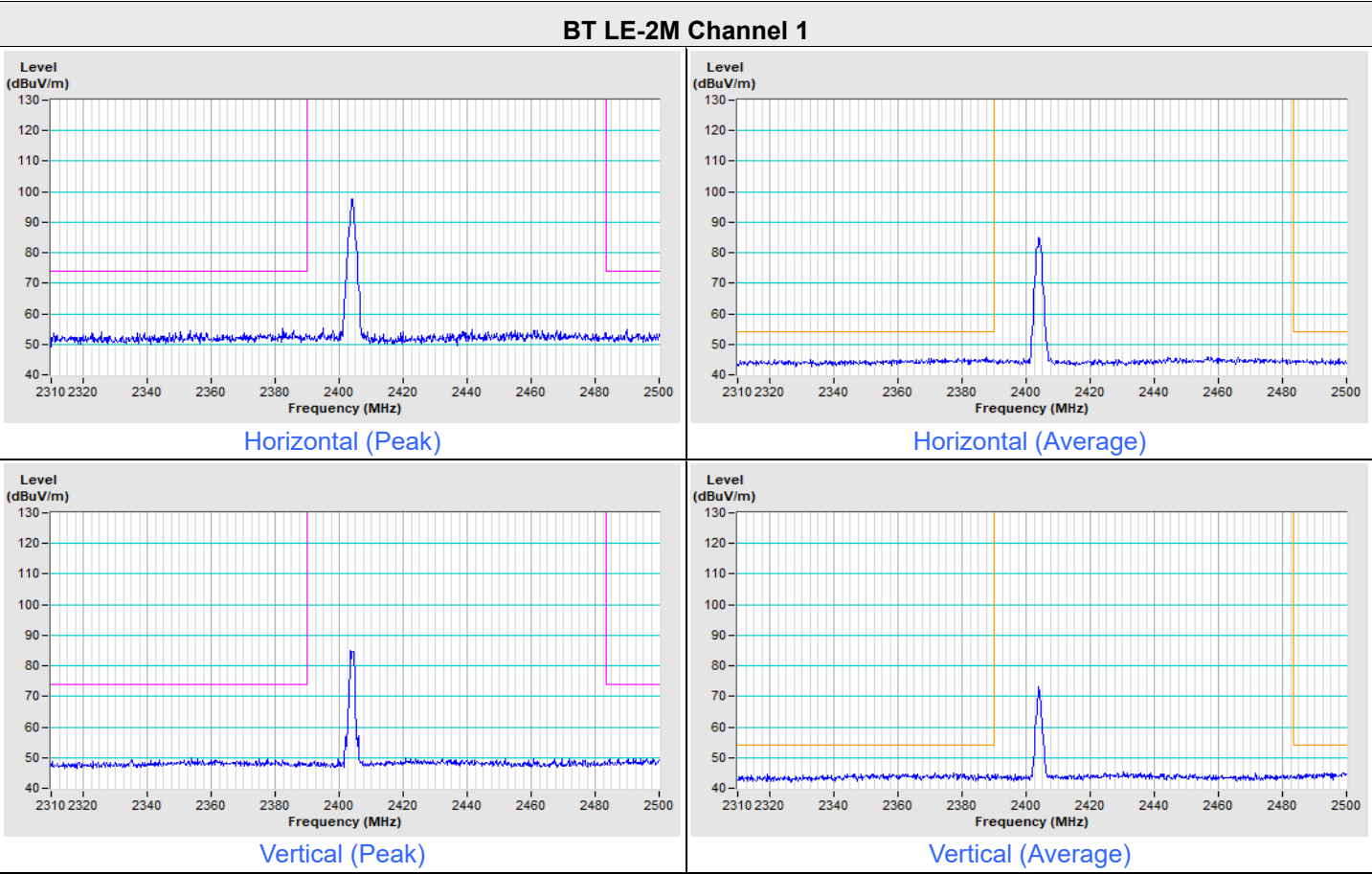


Vertical (Peak)

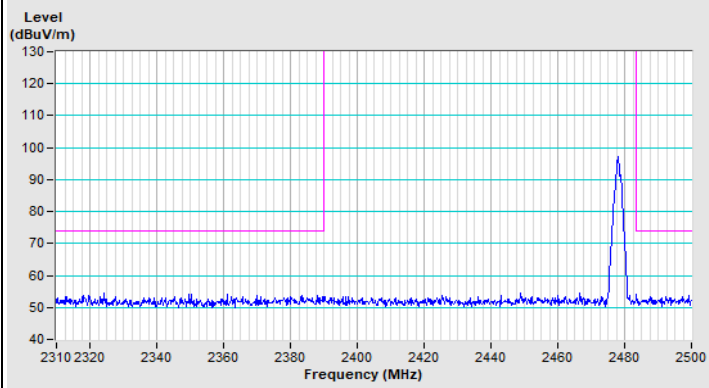


Vertical (Average)

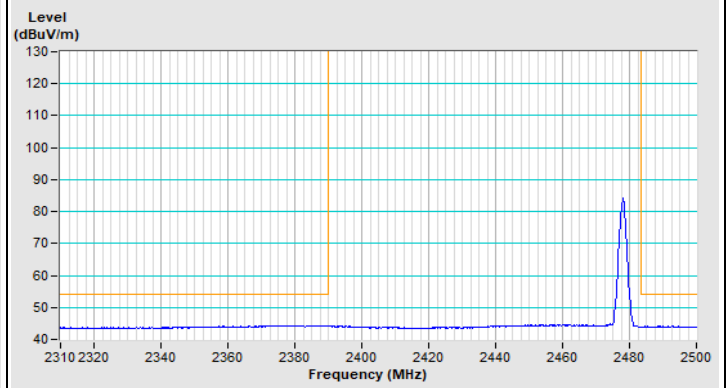
Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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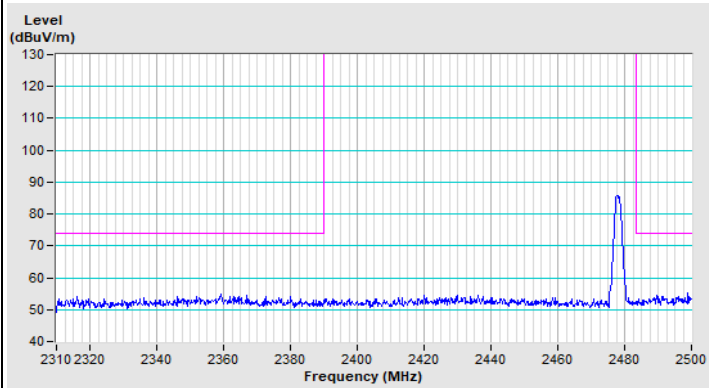
BT LE-2M Channel 38



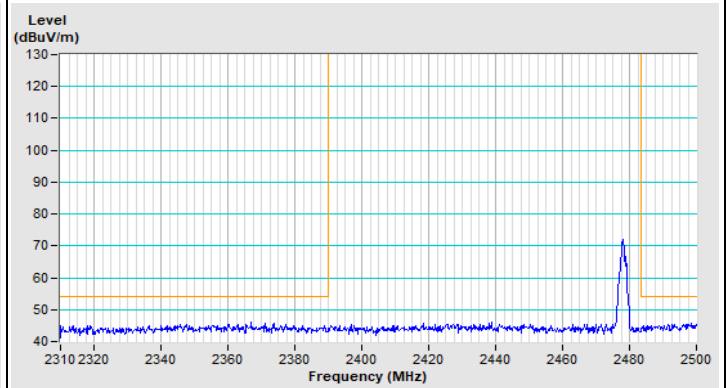
Horizontal (Peak)



Horizontal (Average)



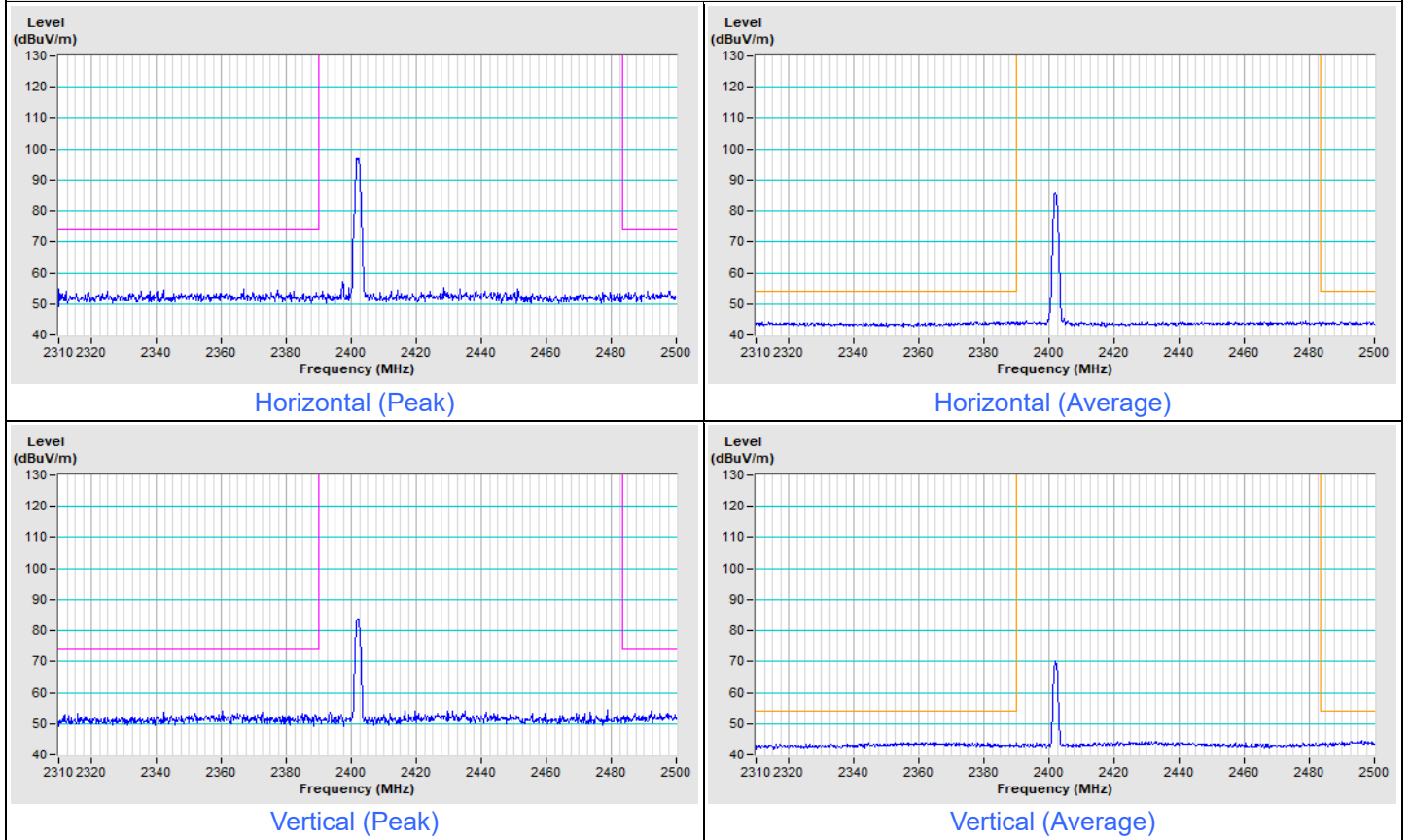
Vertical (Peak)



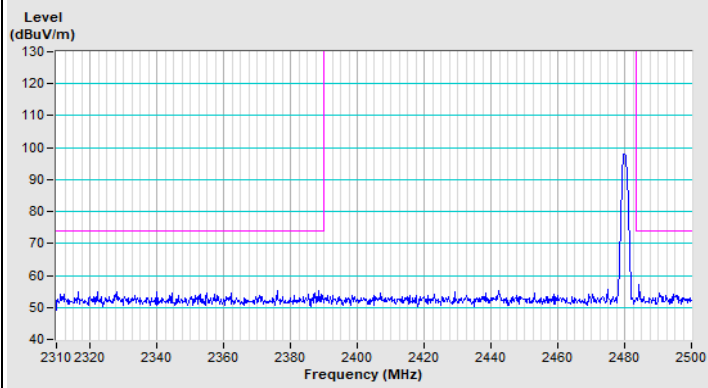
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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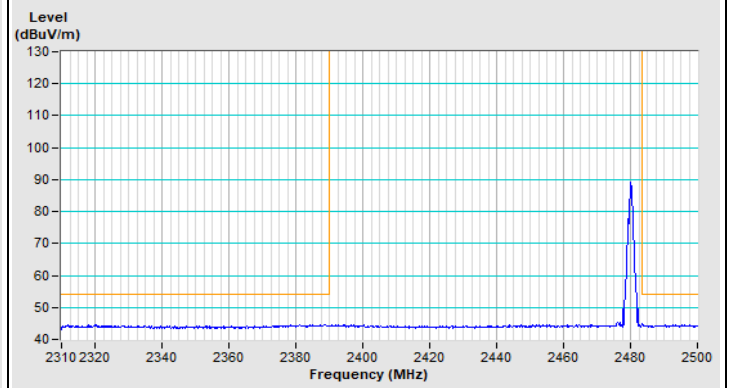
Logi Bolt 1M Channel 0



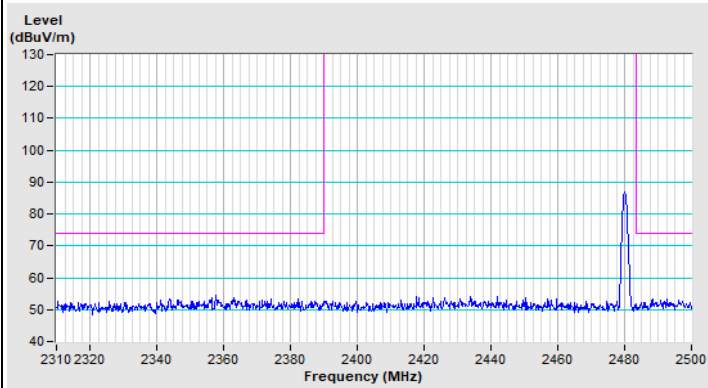
Logi Bolt 1M Channel 39



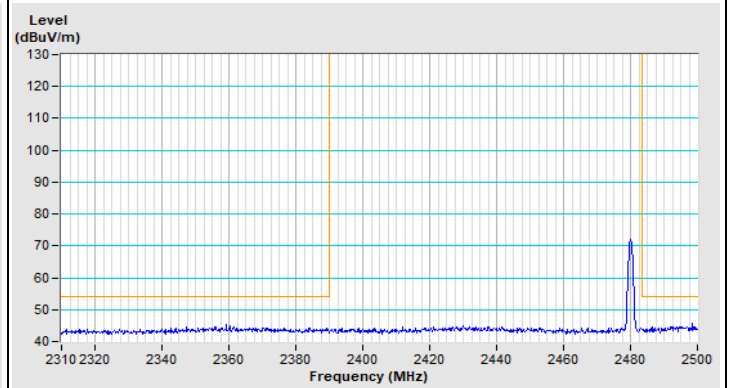
Horizontal (Peak)



Horizontal (Average)



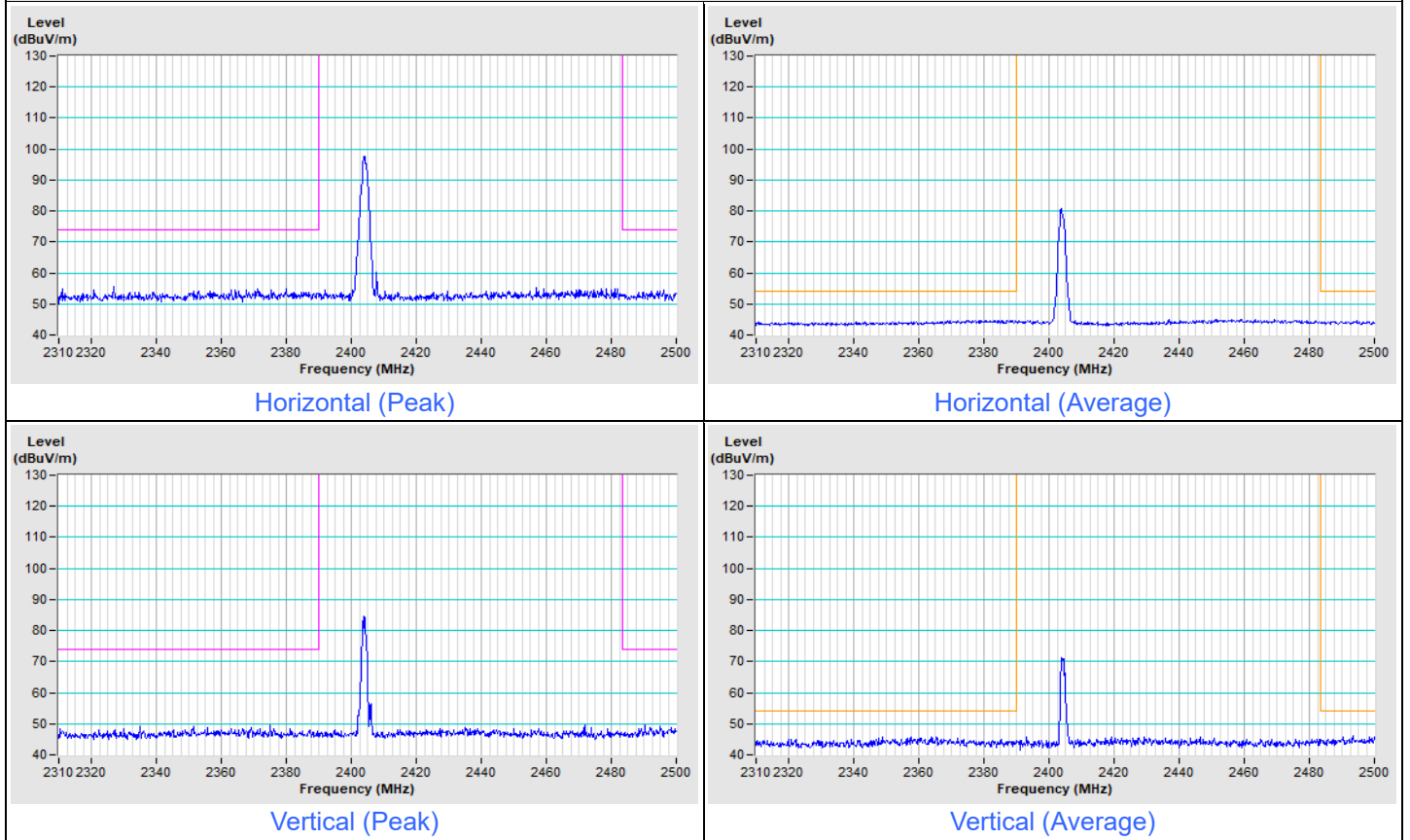
Vertical (Peak)



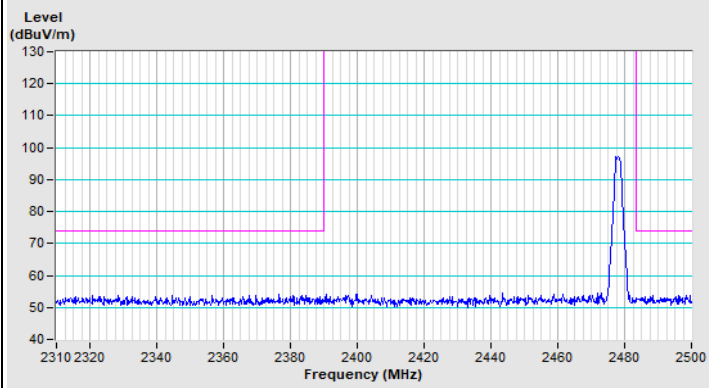
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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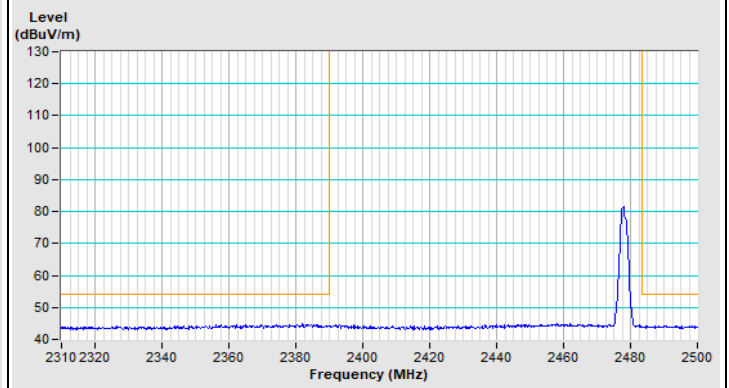
Logi Bolt 2M Channel 1



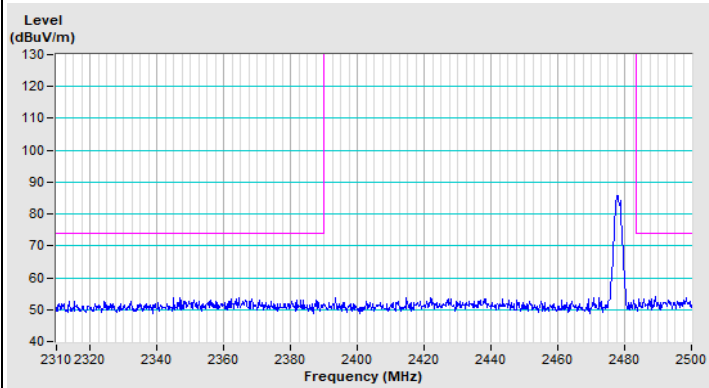
Logi Bolt 2M Channel 38



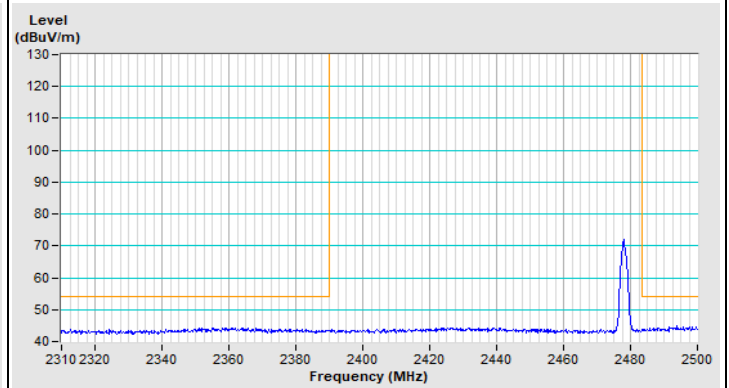
Horizontal (Peak)



Horizontal (Average)



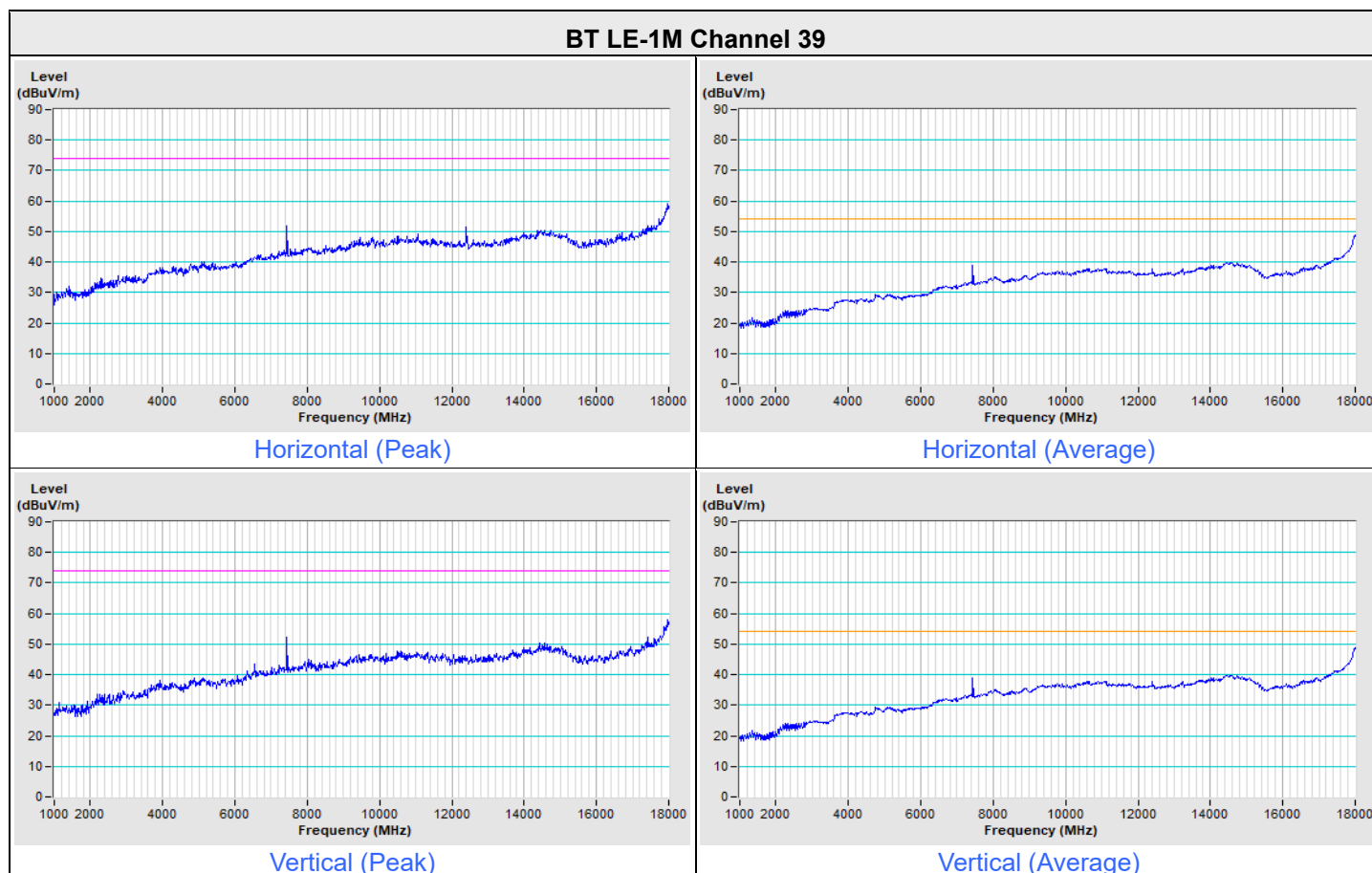
Vertical (Peak)



Vertical (Average)

Plot of Other Emission

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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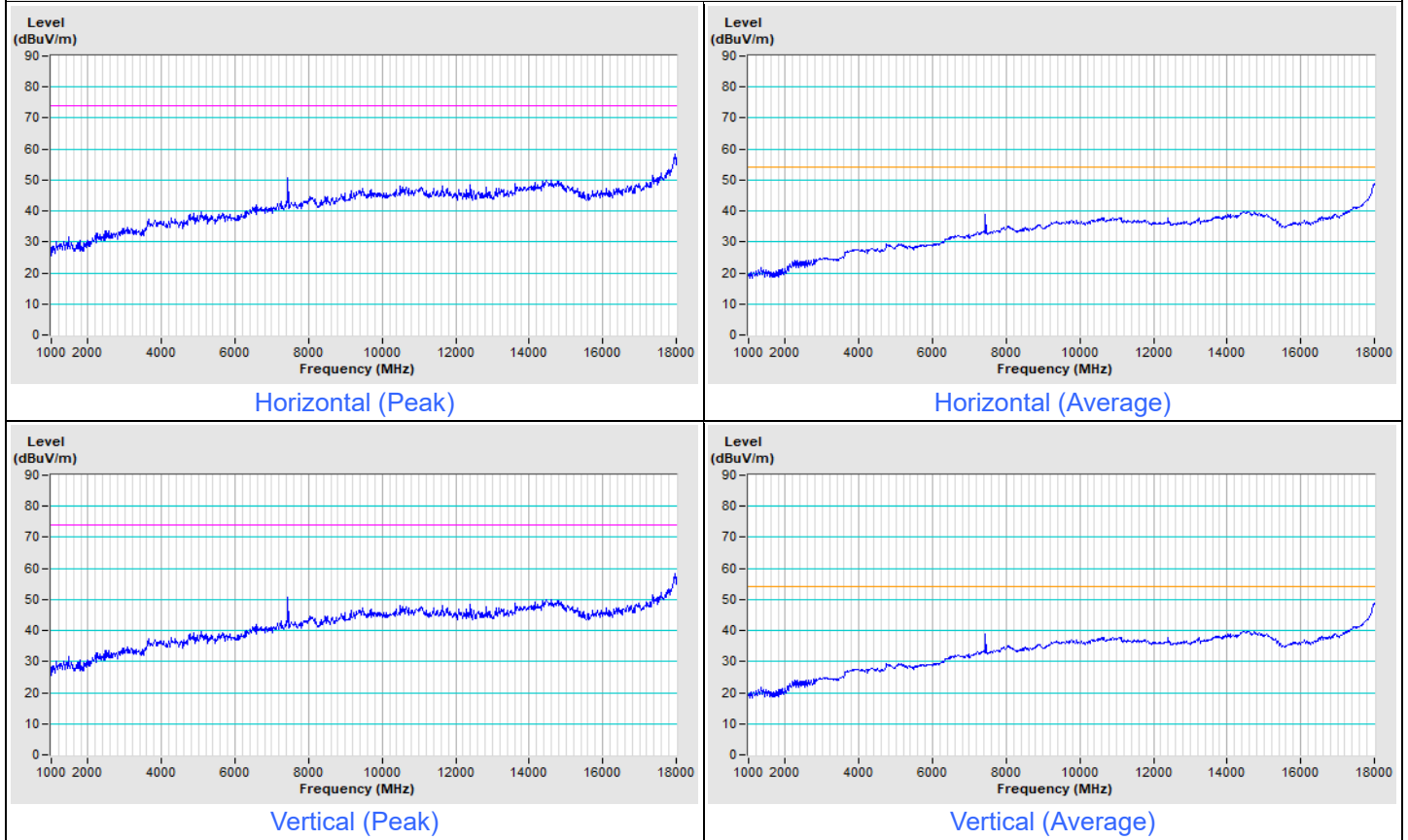


Notes:

- For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
- The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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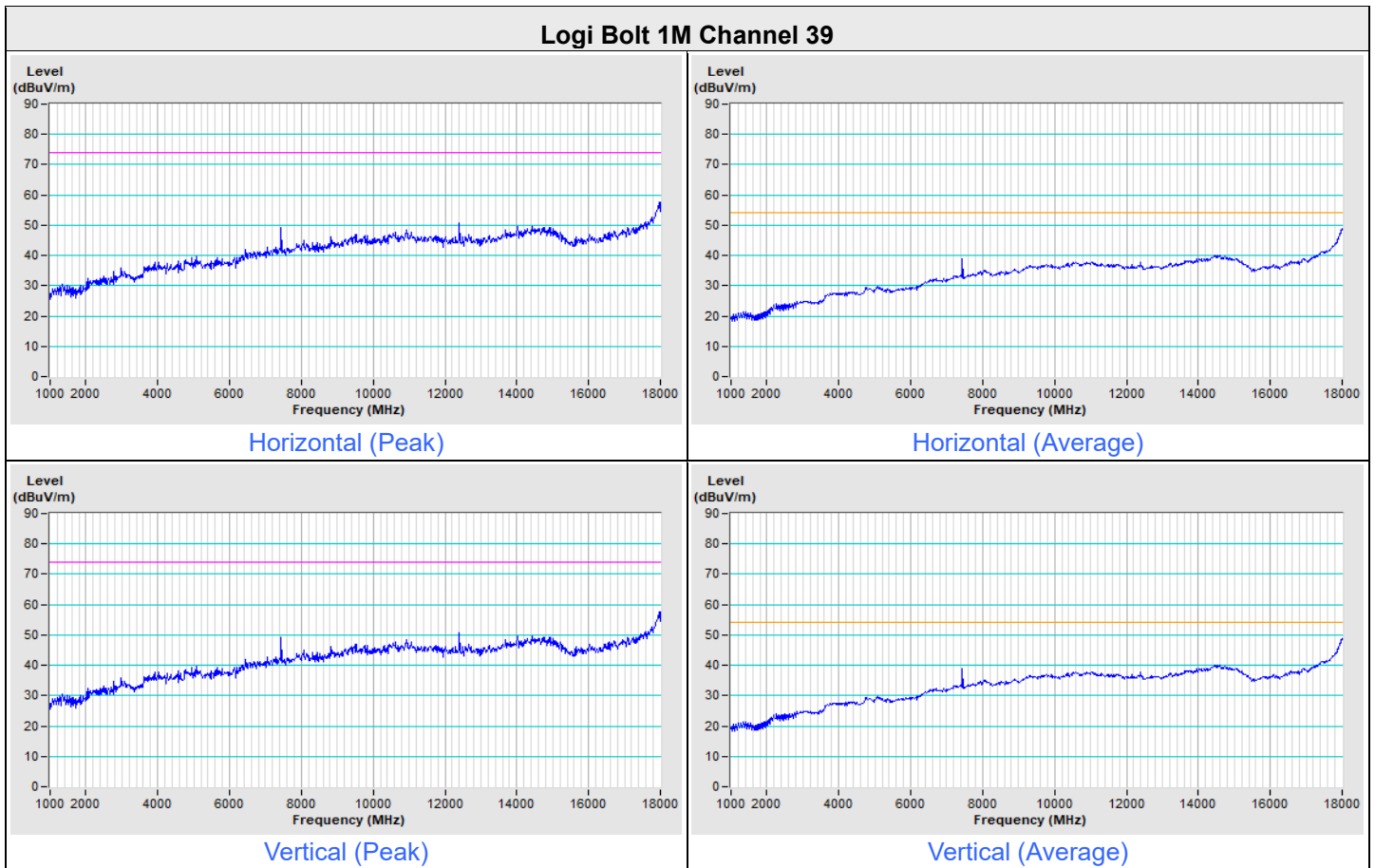
BT LE-2M Channel 38



Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

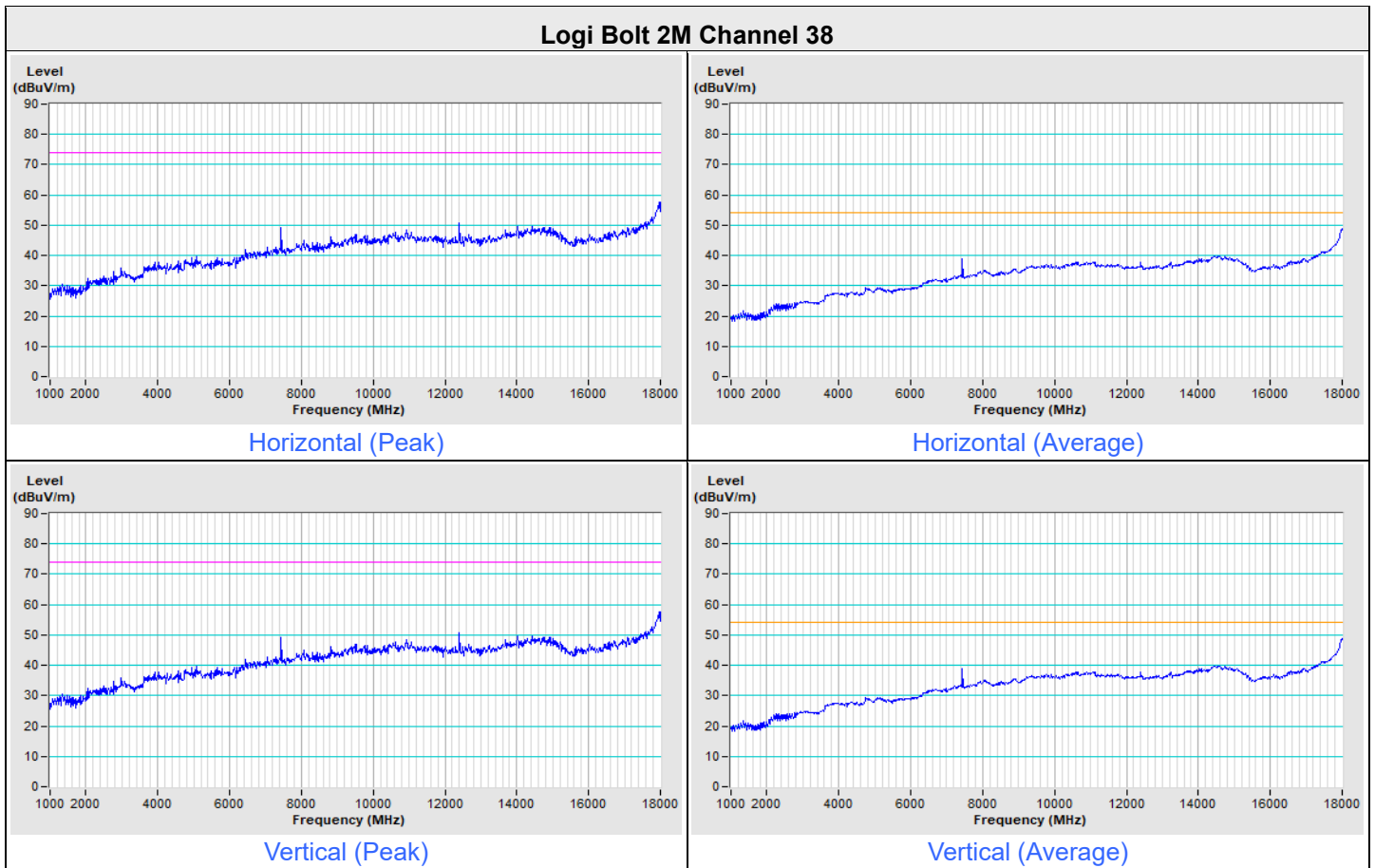
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Hsin Chu EMC/RF/Telecom Lab

Tel: 886-(0)3-6668565 (SIP)

Tel: 886-(0)3-5120595 (WD)

Hwa Ya EMC/RF/Safety Lab & Wenming EMC/RF Lab

Tel: 886-(0)3-3183232

Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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