



## Simple Test Report

Product Name : Bluetooth Low Energy 5.2 Controller Module  
Model No. : BM7701-00-1

Applicant : HOLTEK SEMICONDUCTOR INCORPORATION  
Address : No.3, CREATION RD. II, HSINCHU SCIENCE  
PARK, HSINCHU, TAIWAN, R.O.C.

Date of Receipt : Apr. 08, 2021  
Issued Date : May 21, 2021  
Report No. : 2140165R-E3032160657  
Report Version : V1.0

The test results relate only to the samples tested.

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Issued Date : May 21, 2021

Report No. : 2140165R-E3032160657



Product Name : Bluetooth Low Energy 5.2 Controller Module  
 Applicant : HOLTEK SEMICONDUCTOR INCORPORATION  
 Address : No.3, CREATION RD. II, HSINCHU SCIENCE PARK,  
 HSINCHU, TAIWAN, R.O.C.  
 Model No. : BM7701-00-1  
 Module Voltage : DC 2.0V to 3.6V  
 EUT Voltage : DC 3V  
 Applicable Standard : FCC:  
 FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2019  
 ANSI C63.10: 2013  
 CE:  
 ETSI EN 300 328 V2.2.2 (2019-07)  
 Laboratory Name : Hsin Chu Laboratory  
 Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township,  
 Hsinchu County 310, Taiwan, R.O.C.  
 TEL: +886-3-582-8001 / FAX: +886-3-582-8958  
 Test Result : Pass

Test Item		
FCC		
Duty Cycle	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
Maximum peak conducted output power	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
TX Radiated Emission	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
RX Radiated Emission	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
Power Density	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
Occupied Bandwidth & DTS Bandwidth	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
Band edge	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
CE		
Duty Cycle	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
Occupied Bandwidth	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
Conducted power	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
EIRP	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
Maximum Spectral Power Density	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
Transmitter Spurious emission	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
Receiver Spurious emission	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
Transmitter unwanted emission in the out of band	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
Receiver Blocking	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail

*Louis Hsu*

( Louis Hsu / Deputy Manager )

*Scott Chang*

( Scott Chang / Senior Engineer )

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## 1. List of Test Equipment

### FCC:

Duty Cycle / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

Maximum peak conducted output power / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2021/03/29	2022/03/28
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30

TX Radiated Emission / CB4-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Signal Analyzer	R&S	FSVA40	101435	2020/06/24	2021/06/23
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Bilog Antenna	Teseq	CBL6112D	23191	2021/02/26	2022/02/25
Horn Antenna	Schwarzbeck	BBHA 9120D	01640	2020/09/17	2021/09/16
Horn Antenna	Schwarzbeck	BBHA 9170	203	2020/03/09	2021/03/08
Pre-Amplifier	EMCI	EMC01820I	980364	2020/09/14	2021/09/13
Pre-Amplifier	EMCI	EMC0031835	980233	2020/12/07	2021/12/06
Pre-Amplifier	DEKRA	AP-400C	201801231	2020/11/16	2021/11/15
Band Reject Filter	Micro-Tronics	BRM50702	G192	2020/03/09	2021/03/08
Wideband Radio Communication Tester	R&S	CMW500	106071	2021/01/27	2022/01/26
Wireless Conn. Tseter	R&S	CMW500	157118	2020/07/23	2021/07/22
Coaxial Cable(10m)	Suhner	SF102_SF104	CB4-H	2020/04/25	2021/04/24
DEKRA Testing System	DEKRA	Version 1.2	CB4-H	NA	NA

## RX Radiated Emission / CB4-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Signal Analyzer	R&S	FSVA40	101435	2020/06/24	2021/06/23
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Bilog Antenna	Teseq	CBL6112D	23191	2021/02/26	2022/02/25
Horn Antenna	Schwarzbeck	BBHA 9120D	01640	2020/09/17	2021/09/16
Horn Antenna	Schwarzbeck	BBHA 9170	203	2021/03/11	2022/03/10
Pre-Amplifier	EMCI	EMC01820I	980364	2020/09/14	2021/09/13
Pre-Amplifier	EMCI	EMC0031835	980233	2020/12/07	2021/12/06
Pre-Amplifier	DEKRA	AP-400C	201801231	2020/11/16	2021/11/15
Band Reject Filter	Micro-Tronics	BRM50702	G192	2021/03/04	2022/03/03
Wideband Radio Communication Tester	R&S	CMW500	106071	2021/01/27	2022/01/26
Wireless Conn. Tseter	R&S	CMW500	157118	2020/07/23	2021/07/22
Coaxial Cable(10m)	Suhner	SF102_SF104	CB4-H	2020/04/25	2021/04/24
DEKRA Testing System	DEKRA	Version 1.2	CB4-H	NA	NA

## Power Density / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

## Occupied Bandwidth &amp; DTS Bandwidth / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Keysight	N9010B	MY57110159	2021/03/29	2022/03/28
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30

## Band edge / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

**CE:**

## Duty Cycle / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
Signal Analyzer	R&S	FSV7	101650	2020/03/23	2021/03/22
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02

## Occupied Channel Bandwidth / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
Signal Analyzer	R&S	FSV7	101650	2020/03/23	2021/03/22
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02

## Conducted power / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
Signal Analyzer	R&S	FSV7	101650	2020/03/23	2021/03/22
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02

## EIRP / CB3-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
Signal Analyzer	R&S	FSVA40	101435	2020/06/24	2021/6/23
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Bilog Antenna	Teseq	CBL6112D	23191	2021/02/26	2022/02/25
Pre-Amplifier	DEKRA	AP-025C	12183122	2020/09/03	2021/09/02
Pre-Amplifier	EMCI	EMC11830I	980366	2020/11/30	2021/11/29
Band Reject Filter	Micro-Tronics	BRM50702	G257	2020/12/16	2021/12/15
Coaxial Cable(19m)	Suhner	SF104	CB3-H_1	2020/07/25	2021/07/24
DEKRA Testing System	DEKRA	Version 1.2	CB3-H	NA	NA

## Maximum Spectral Power Density / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
Signal Analyzer	R&S	FSV7	101650	2020/03/23	2021/03/22
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02

## Transmitter Spurious emission / CB3-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
Signal Analyzer	R&S	FSVA40	101435	2020/06/24	2021/6/23
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Bilog Antenna	Teseq	CBL6112D	23191	2021/02/26	2022/02/25
Pre-Amplifier	DEKRA	AP-025C	12183122	2020/09/03	2021/09/02
Pre-Amplifier	EMCI	EMC11830I	980366	2020/11/30	2021/11/29
Band Reject Filter	Micro-Tronics	BRM50702	G257	2020/12/16	2021/12/15
Coaxial Cable(19m)	Suhner	SF104	CB3-H_1	2020/07/25	2021/07/24
DEKRA Testing System	DEKRA	Version 1.2	CB3-H	NA	NA

## Receiver Spurious emission / CB3-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
Signal Analyzer	R&S	FSVA40	101435	2020/06/24	2021/6/23
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Bilog Antenna	Teseq	CBL6112D	23191	2021/02/26	2022/02/25
Pre-Amplifier	DEKRA	AP-025C	12183122	2020/09/03	2021/09/02
Pre-Amplifier	EMCI	EMC11830I	980366	2020/11/30	2021/11/29
Band Reject Filter	Micro-Tronics	BRM50702	G257	2020/12/16	2021/12/15
Coaxial Cable(19m)	Suhner	SF104	CB3-H_1	2020/07/25	2021/07/24
DEKRA Testing System	DEKRA	Version 1.2	CB3-H	NA	NA

## Transmitter unwanted emission in the out of band / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
Signal Analyzer	R&S	FSV7	101650	2020/03/23	2021/03/22
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02



## Receiver Blocking / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
ESG Vector Signal Generator	Agilent	E4438C	MY45095759	2020/05/11	2021/05/10
MXG Vector Signal Generator	Keysight	N5182B	MY53052548	2021/02/22	2022/02/21
Spectrum Analyzer	Agilent	N9010A	US47140172	2020/06/18	2021/06/17
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
Signal Analyzer	R&S	FSV7	101650	2020/03/23	2021/03/22
EXG Analog Signal Generator	Keysight	N5171B	MY56200665	2020/06/24	2021/06/23
Wideband Radio Communication Tester	R&S	CMW500	150246	2021/03/09	2022/03/08
Spectrum Analyzer	Keysight	N9030B	MY57140404	2020/06/03	2021/06/02

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

## 2. FCC Test Data

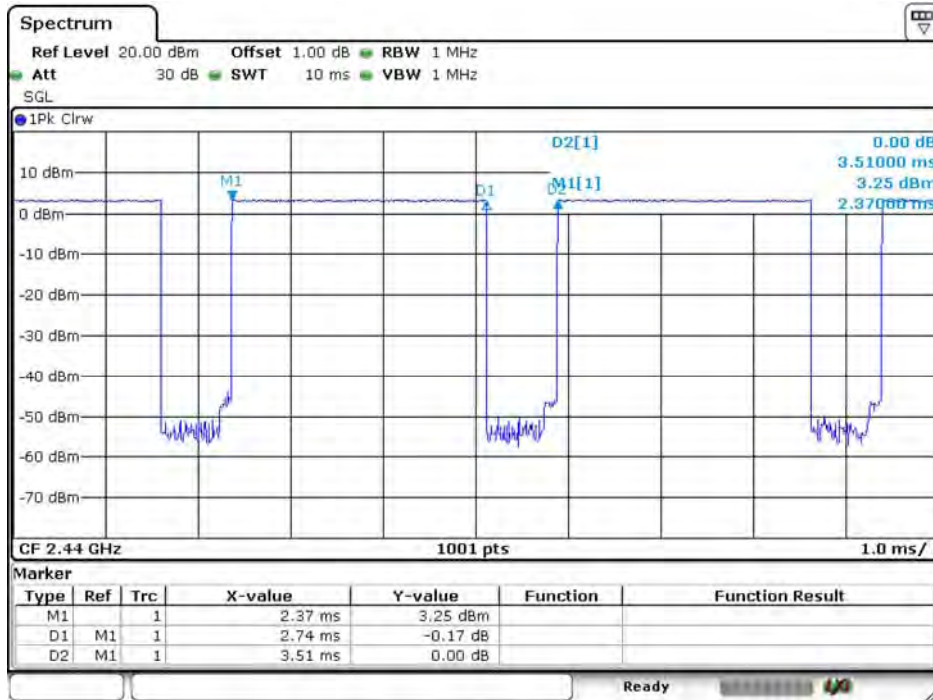
### 2.1. Duty Cycle

#### 2.1.1. Test Result

Product	Bluetooth Low Energy 5.2 Controller Module		
Test Item	Duty Cycle		
Test Mode	Mode1: Transmit		
Date of Test	2021/03/10	Test Site	SR12-H
Test Temperature (°C)	23	Test Humidity (%)	66

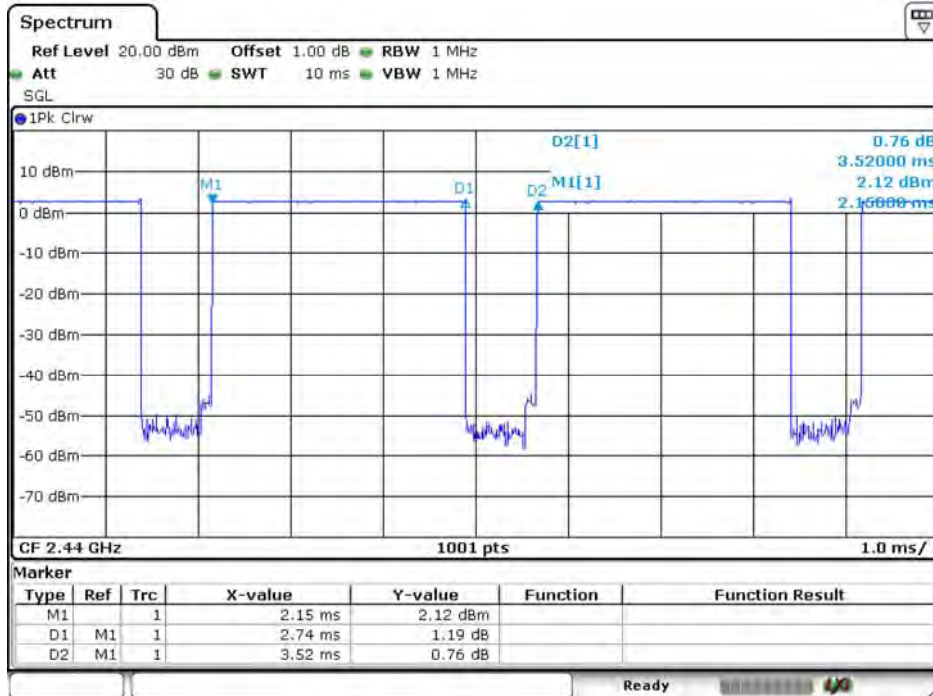
Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB) linear voltage	Duty Factor (dB) Power	1/T Minimum VBW (kHz)
1M	2.740	3.510	78.06%	2.151131	1.08	0.365
2M	2.740	3.520	77.84%	2.175842	1.09	0.365

1M



Date: 10.MAR.2021 13:50:13

2M



Date: 10.MAR.2021 13:44:48

## 2.2. Maximum peak conducted output power

### 2.2.1. Test Result

Product	Bluetooth Low Energy 5.2 Controller Module		
Test Item	Maximum peak conducted output power		
Test Mode	Mode1: Transmit		
Date of Test	2021/05/11	Test Site	SR12-H
Test Temperature (°C)	24	Test Humidity (%)	68

#### BT 5.0\_1M

Channel	Frequency (MHz)	Power Index	Meter Power (dBm)	Limit (dBm)
00	2402	2	2.800	≤ 30
19	2440	2	2.770	≤ 30
39	2480	2	2.730	≤ 30

Product	Bluetooth Low Energy 5.2 Controller Module		
Test Item	Maximum peak conducted output power		
Test Mode	Mode1: Transmit		
Date of Test	2021/05/13	Test Site	SR12-H
Test Temperature (°C)	25	Test Humidity (%)	65

#### BT 5.0\_2M

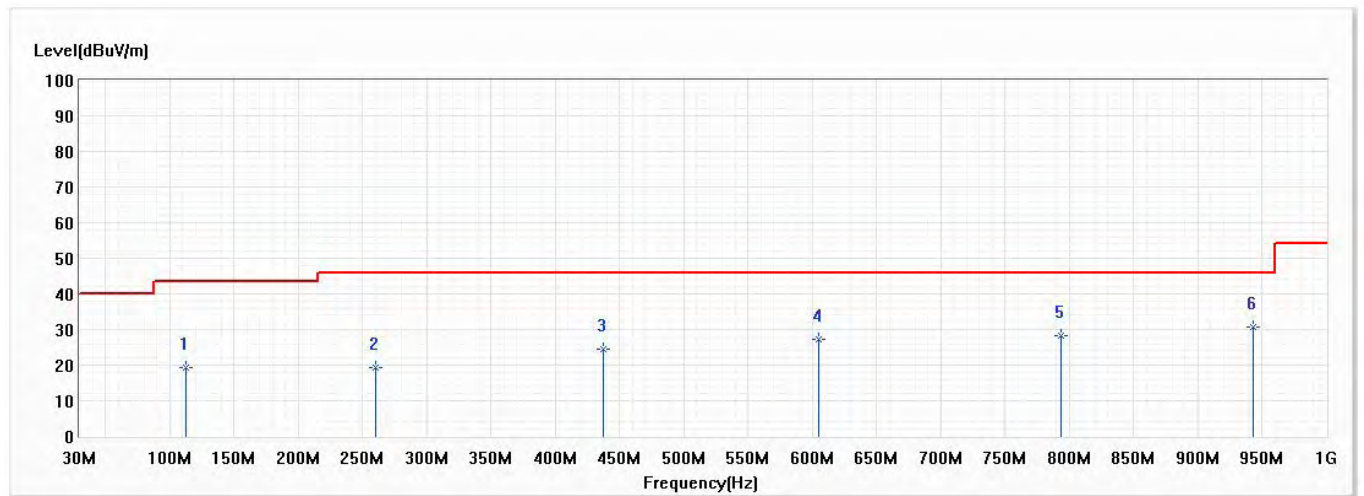
Channel	Frequency (MHz)	Power Index	Meter Power (dBm)	Limit (dBm)
00	2402	2	2.830	≤ 30
19	2440	2	2.790	≤ 30
39	2480	2	2.740	≤ 30

## 2.3. Radiated Emission

### 2.3.1. Test Result

#### 30MHz-1GHz Spurious

Model No	DM7701-00-1	Site	CB4-H
Test Voltage	DC-3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Lion Wang
Polarity	Horizontal	Temperature (°C)	21.5
Test Condition	BT5.2,tone,Ch0,2.402G,	Humidity (%RH)	51.3

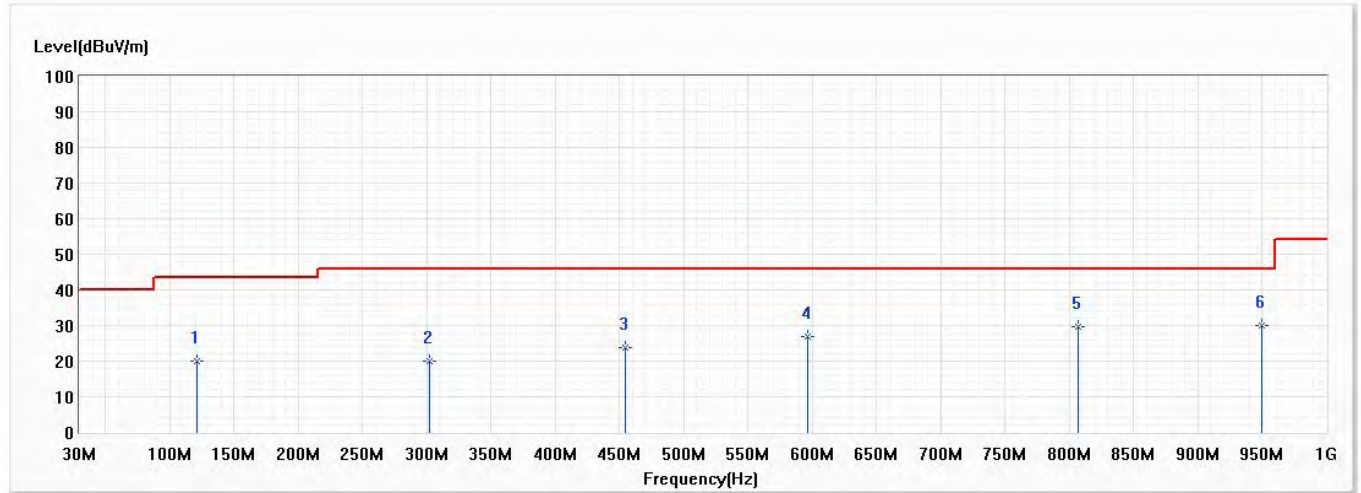


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	112.693	19.19	43.50	-24.31	22.88	-3.69	QP
2	260.496	19.48	46.00	-26.52	21.85	-2.37	QP
3	437.764	24.49	46.00	-21.51	22.86	1.63	QP
4	604.604	27.40	46.00	-18.60	22.84	4.56	QP
5	793.875	28.44	46.00	-17.56	22.38	6.06	QP
* 6	943.013	30.56	46.00	-15.44	23.04	7.52	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	DM7701-00-1	Site	CB4-H
Test Voltage	DC-3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Lion Wang
Polarity	Vertical	Temperature (°C)	21.5
Test Condition	BT5.2,tone,Ch0,2.402G,	Humidity (%RH)	51.3

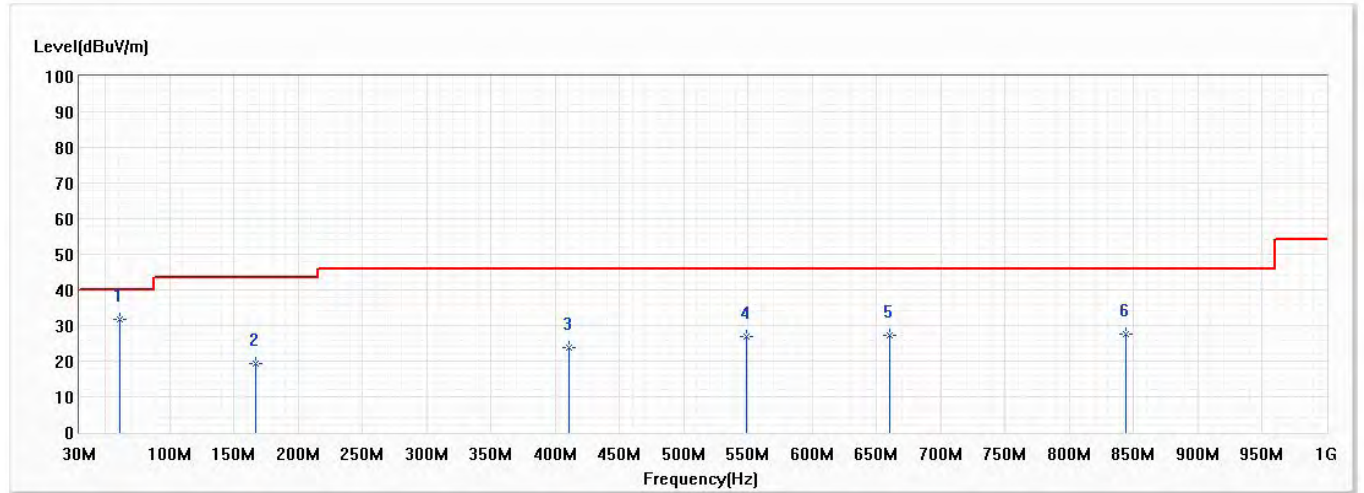


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	120.938	20.04	43.50	-23.46	23.72	-3.68	QP
2	302.206	20.02	46.00	-25.98	22.27	-2.25	QP
3	454.133	23.96	46.00	-22.04	22.11	1.85	QP
4	596.601	27.04	46.00	-18.96	22.67	4.37	QP
5	806.606	29.59	46.00	-16.41	23.44	6.15	QP
* 6	949.318	30.02	46.00	-15.98	22.38	7.64	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	DM7701-00-1	Site	CB4-H
Test Voltage	DC-3V	Test Date	2021/3/17
Test Mode	Mode 1: Transmit	Engineer	Elwin Lin
Polarity	Horizontal	Temperature (°C)	21.5
Test Condition	BT5.2,tone,Ch19,2.44G,	Humidity (%RH)	51.3



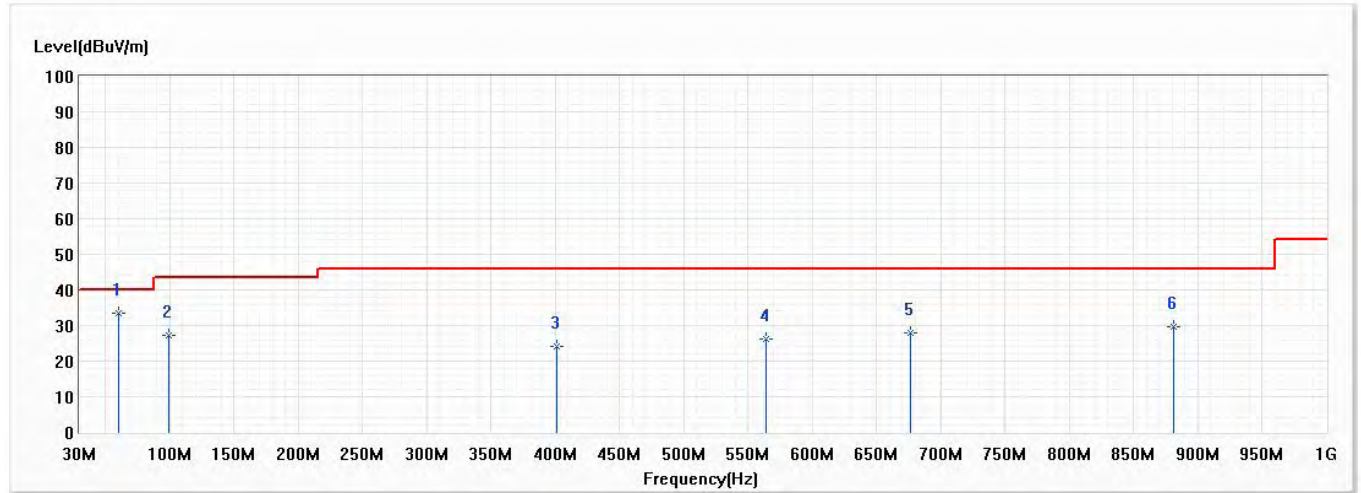
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	61.404	31.89	40.00	-8.11	41.22	-9.33	QP
2	166.649	19.22	43.50	-24.28	25.41	-6.19	QP
3	410.604	23.77	46.00	-22.23	22.54	1.23	QP
4	548.586	26.80	46.00	-19.20	22.56	4.24	QP
5	660.258	27.41	46.00	-18.59	22.57	4.84	QP
6	843.466	27.75	46.00	-18.25	21.17	6.58	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.



Model No	DM7701-00-1	Site	CB4-H
Test Voltage	DC-3V	Test Date	2021/3/17
Test Mode	Mode 1: Transmit	Engineer	Elwin Lin
Polarity	Vertical	Temperature (°C)	21.5
Test Condition	BT5.2,tone,Ch19,2.44G,	Humidity (%RH)	51.3



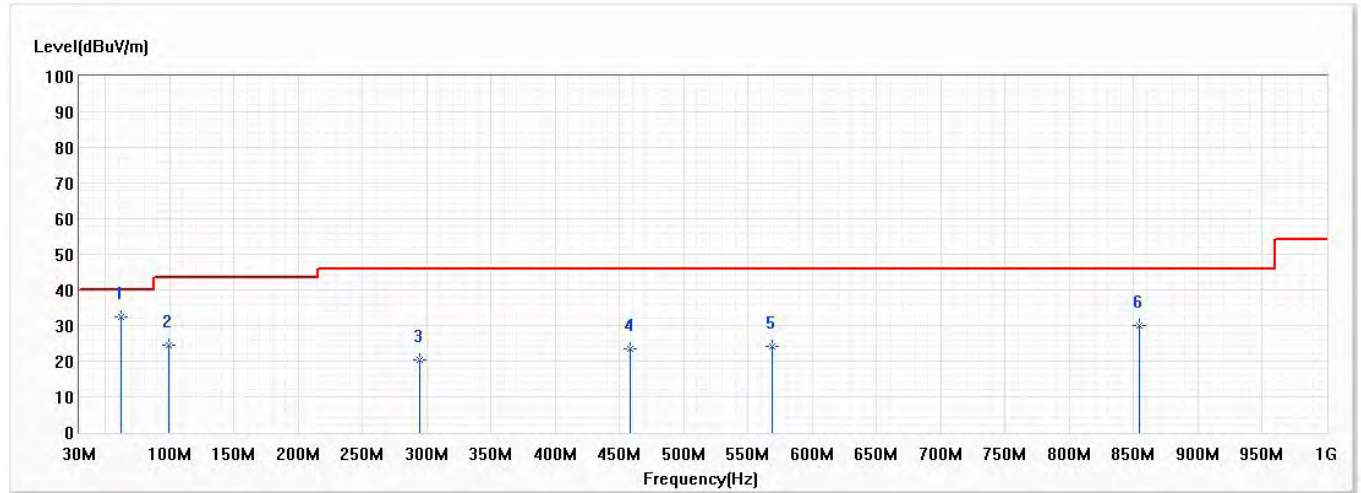
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	60.676	33.34	40.00	-6.66	42.54	-9.20	QP
2	99.961	27.14	43.50	-16.36	32.10	-4.96	QP
3	400.783	24.16	46.00	-21.84	23.33	0.83	QP
4	563.864	26.15	46.00	-19.85	22.04	4.11	QP
5	676.505	27.77	46.00	-18.23	22.91	4.86	QP
6	881.054	29.66	46.00	-16.34	22.84	6.82	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.



Model No	DM7701-00-1	Site	CB4-H
Test Voltage	DC-3V	Test Date	2021/3/17
Test Mode	Mode 1: Transmit	Engineer	Elwin Lin
Polarity	Horizontal	Temperature (°C)	21.5
Test Condition	BT5.2,tone,Ch39,2.48G,	Humidity (%RH)	51.3

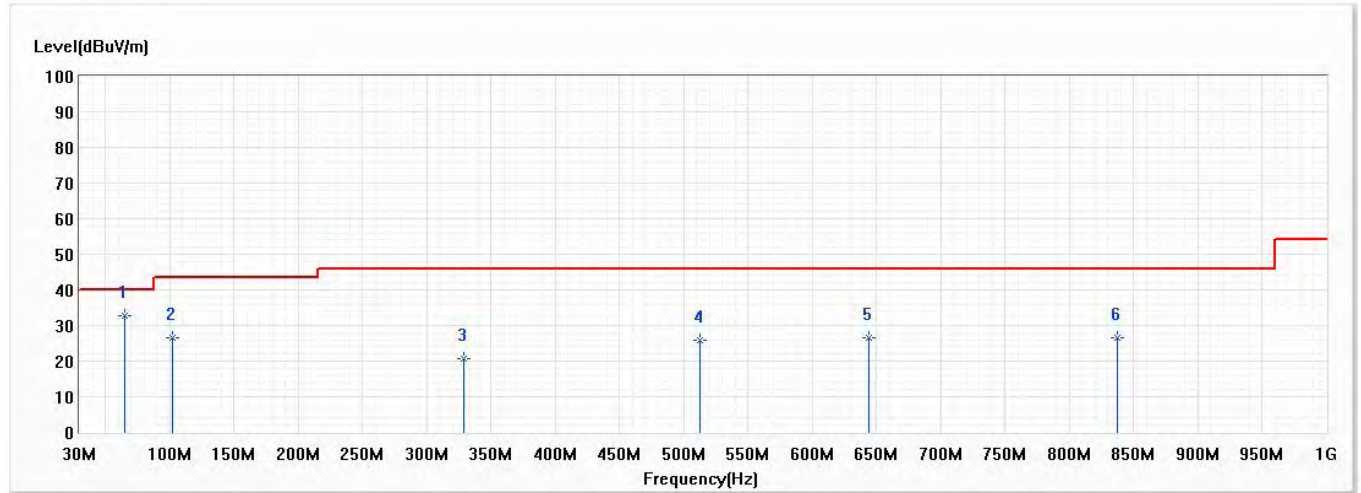


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	62.010	32.51	40.00	-7.49	42.03	-9.52	QP
2	99.719	24.36	43.50	-19.14	29.39	-5.03	QP
3	294.931	20.47	46.00	-25.53	22.88	-2.41	QP
4	457.891	23.37	46.00	-22.63	21.42	1.95	QP
5	568.593	24.26	46.00	-21.74	20.12	4.14	QP
6	854.379	29.90	46.00	-16.10	23.17	6.73	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	DM7701-00-1	Site	CB4-H
Test Voltage	DC-3V	Test Date	2021/3/17
Test Mode	Mode 1: Transmit	Engineer	Elwin Lin
Polarity	Vertical	Temperature (°C)	21.5
Test Condition	BT5.2,tone,Ch39,2.48G,	Humidity (%RH)	51.3

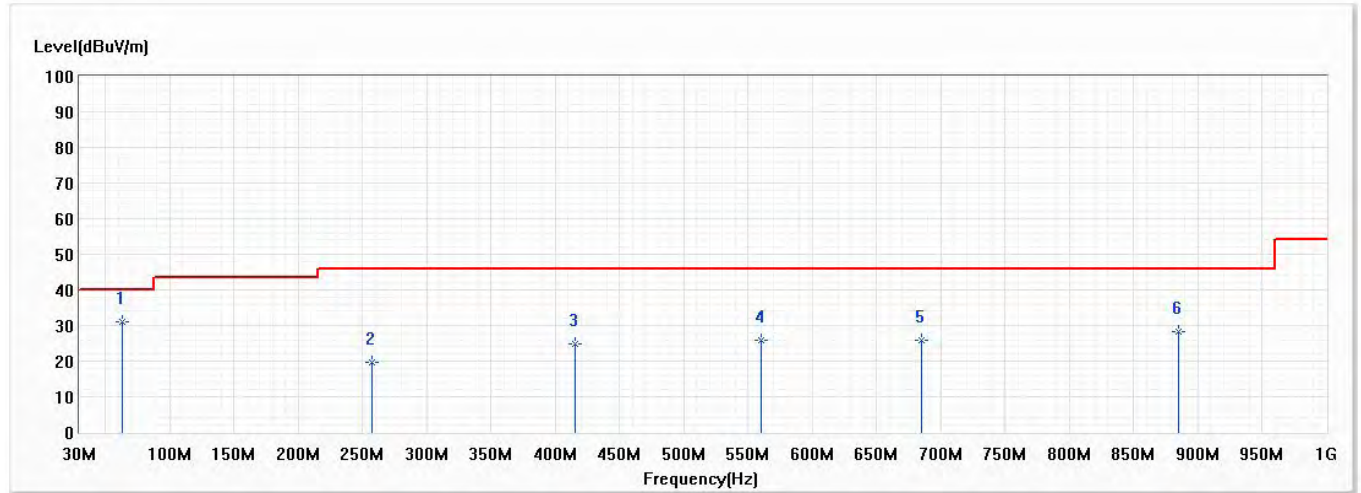


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	65.163	32.82	40.00	-7.18	42.31	-9.49	QP
2	102.629	26.52	43.50	-16.98	31.10	-4.58	QP
3	329.366	20.67	46.00	-25.33	22.27	-1.60	QP
4	512.575	25.83	46.00	-20.17	22.94	2.89	QP
5	644.374	26.52	46.00	-19.48	21.62	4.90	QP
6	836.919	26.46	46.00	-19.54	19.90	6.56	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC-3V	Test Date	2021/3/17
Test Mode	Mode 2: Receiver	Engineer	Elwin Lin
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	SISO,BT5.2,Ch0, 2.402G,2M	Humidity (%RH)	55.0

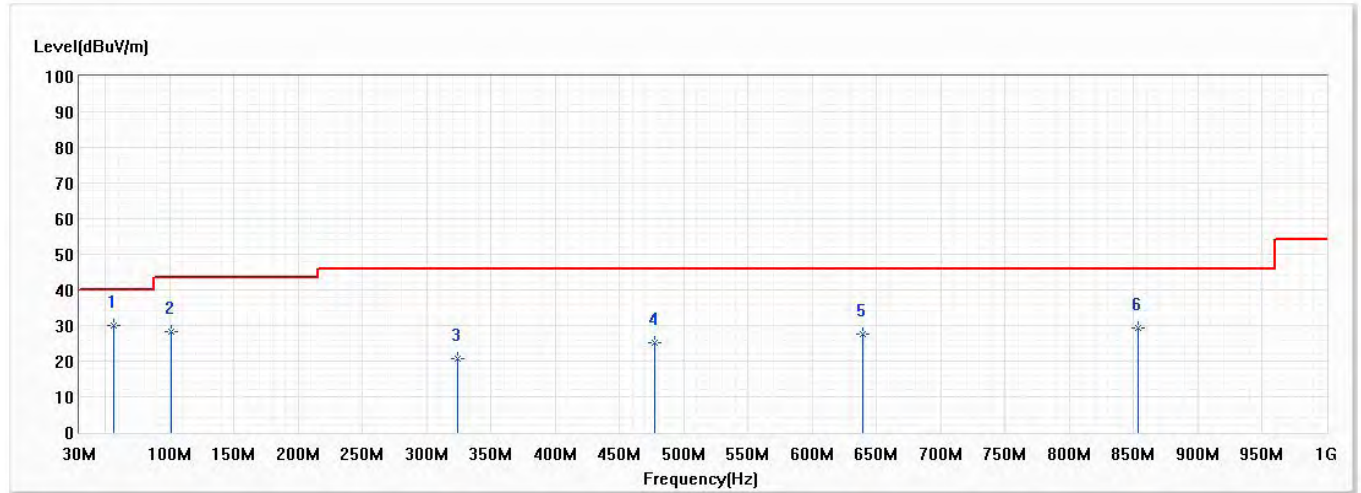


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	63.101	31.17	40.00	-8.83	40.59	-9.42	QP
2	257.829	19.50	46.00	-26.50	21.95	-2.45	QP
3	415.696	24.68	46.00	-21.32	23.32	1.36	QP
4	560.105	25.79	46.00	-20.21	21.70	4.09	QP
5	685.356	26.01	46.00	-19.99	21.20	4.81	QP
6	885.055	28.17	46.00	-17.83	21.26	6.91	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC-3V	Test Date	2021/3/17
Test Mode	Mode 2: Receiver	Engineer	Elwin Lin
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	SISO,BT5.2,Ch0,2.402G,2M	Humidity (%RH)	55.0

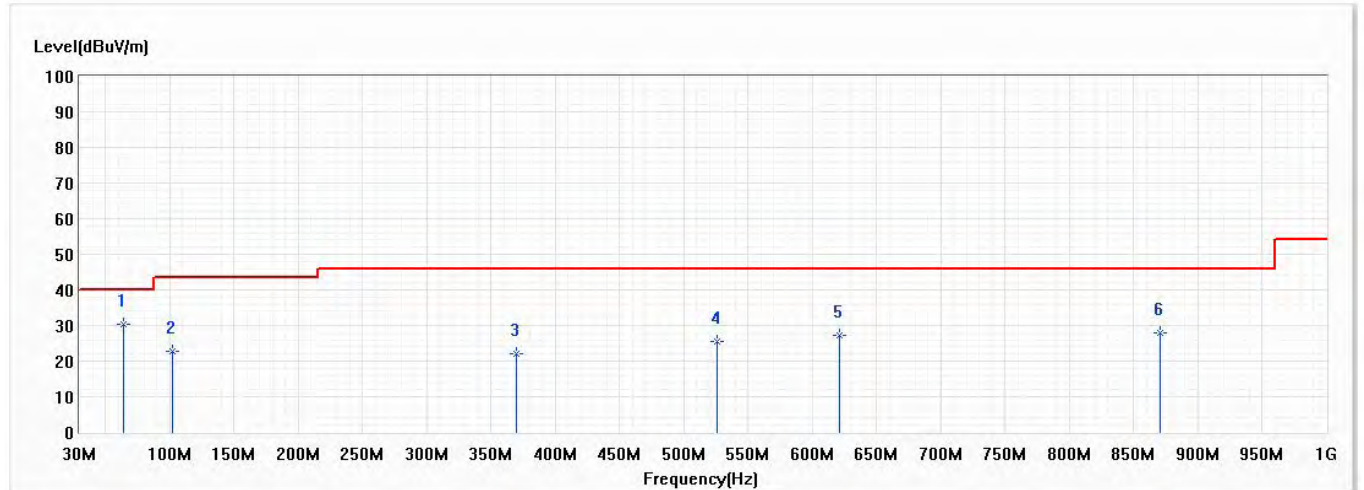


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	57.039	30.01	40.00	-9.99	39.06	-9.05	QP
2	101.780	28.25	43.50	-15.25	32.78	-4.53	QP
3	324.153	20.71	46.00	-25.29	22.41	-1.70	QP
4	476.928	25.14	46.00	-20.86	22.68	2.46	QP
5	638.796	27.44	46.00	-18.56	22.53	4.91	QP
6	853.166	29.36	46.00	-16.64	22.64	6.72	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC-3V	Test Date	2021/3/17
Test Mode	Mode 2: Receiver	Engineer	Elwin Lin
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	SISO,BT5.2,Ch19,2.44G,2M	Humidity (%RH)	55.0

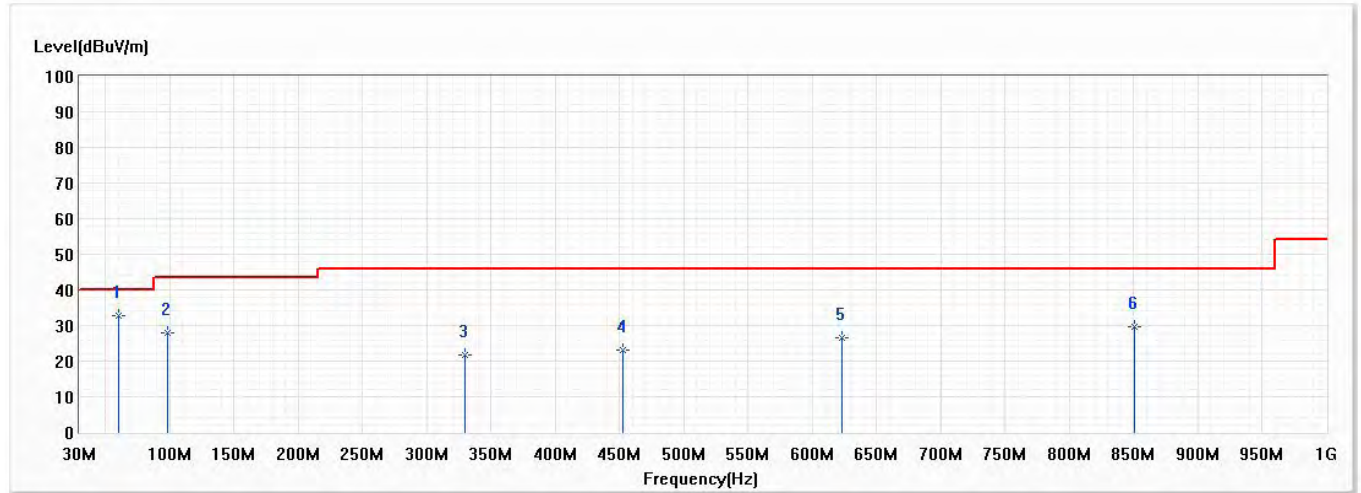


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	63.829	30.29	40.00	-9.71	39.66	-9.37	QP
2	102.629	22.81	43.50	-20.69	27.39	-4.58	QP
3	369.985	21.90	46.00	-24.10	22.33	-0.43	QP
4	525.549	25.46	46.00	-20.54	22.40	3.06	QP
5	621.458	27.37	46.00	-18.63	22.52	4.85	QP
6	870.505	27.99	46.00	-18.01	21.23	6.76	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC-3V	Test Date	2021/3/17
Test Mode	Mode 2: Receiver	Engineer	Elwin Lin
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	SISO,BT5.2,Ch19,2.44G,2M	Humidity (%RH)	55.0



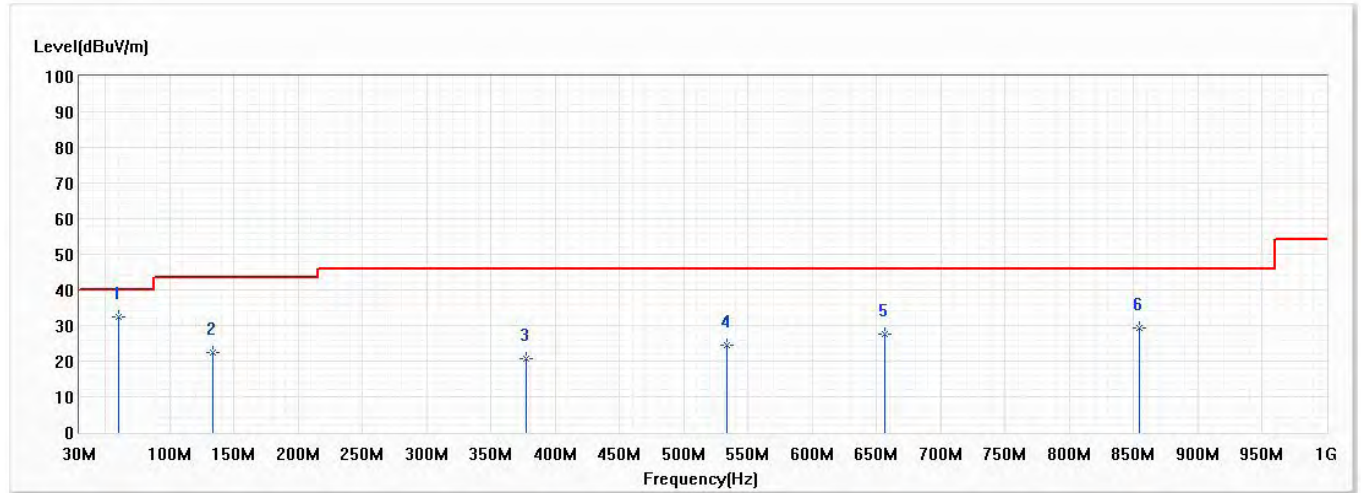
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	60.313	32.81	40.00	-7.19	42.01	-9.20	QP
2	98.749	27.81	43.50	-15.69	33.09	-5.28	QP
3	329.488	21.73	46.00	-24.27	23.33	-1.60	QP
4	452.314	23.15	46.00	-22.85	21.34	1.81	QP
5	623.398	26.69	46.00	-19.31	21.80	4.89	QP
6	850.984	29.58	46.00	-16.42	22.87	6.71	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.



Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC-3V	Test Date	2021/3/17
Test Mode	Mode 2: Receiver	Engineer	Elwin Lin
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	SISO,BT5.2,Ch39,2.48G,2M	Humidity (%RH)	55.0

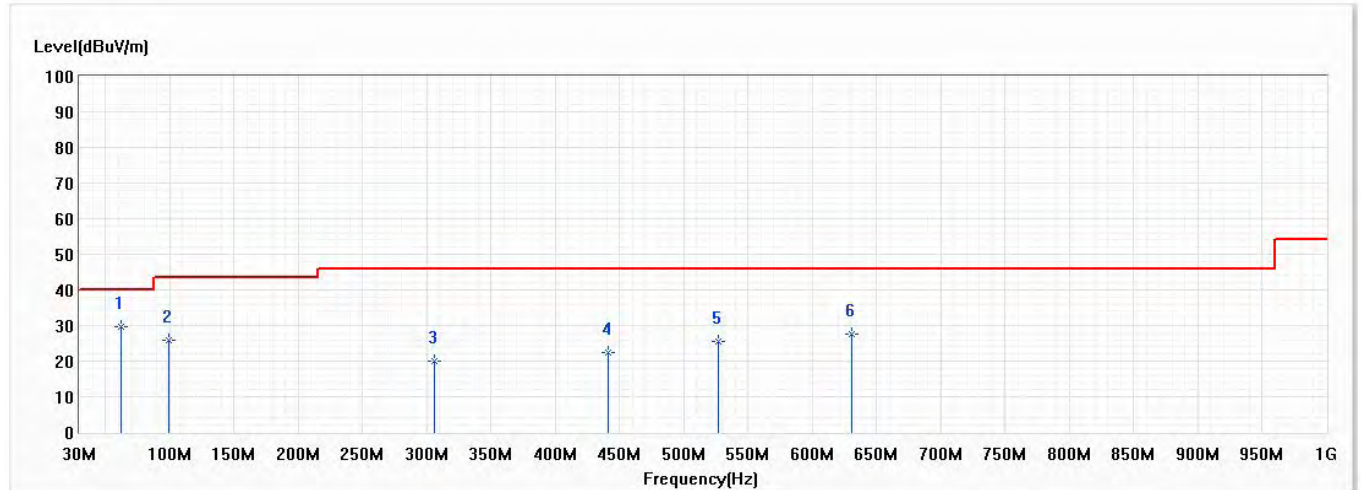


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	60.191	32.27	40.00	-7.73	41.46	-9.19	QP
2	134.033	22.29	43.50	-21.21	26.45	-4.16	QP
3	377.381	20.73	46.00	-25.27	20.98	-0.25	QP
4	533.430	24.54	46.00	-21.46	20.99	3.55	QP
5	656.135	27.72	46.00	-18.28	22.81	4.91	QP
6	854.621	29.31	46.00	-16.69	22.58	6.73	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC-3V	Test Date	2021/3/17
Test Mode	Mode 2: Receiver	Engineer	Elwin Lin
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	SISO,BT5.2,Ch39,2.48G,2M	Humidity (%RH)	55.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	62.253	29.74	40.00	-10.26	39.24	-9.50	QP
2	99.961	25.90	43.50	-17.60	30.86	-4.96	QP
3	305.723	20.11	46.00	-25.89	22.27	-2.16	QP
4	440.795	22.40	46.00	-23.60	20.77	1.63	QP
5	527.246	25.45	46.00	-20.55	22.32	3.13	QP
6	630.309	27.63	46.00	-18.37	22.68	4.95	QP

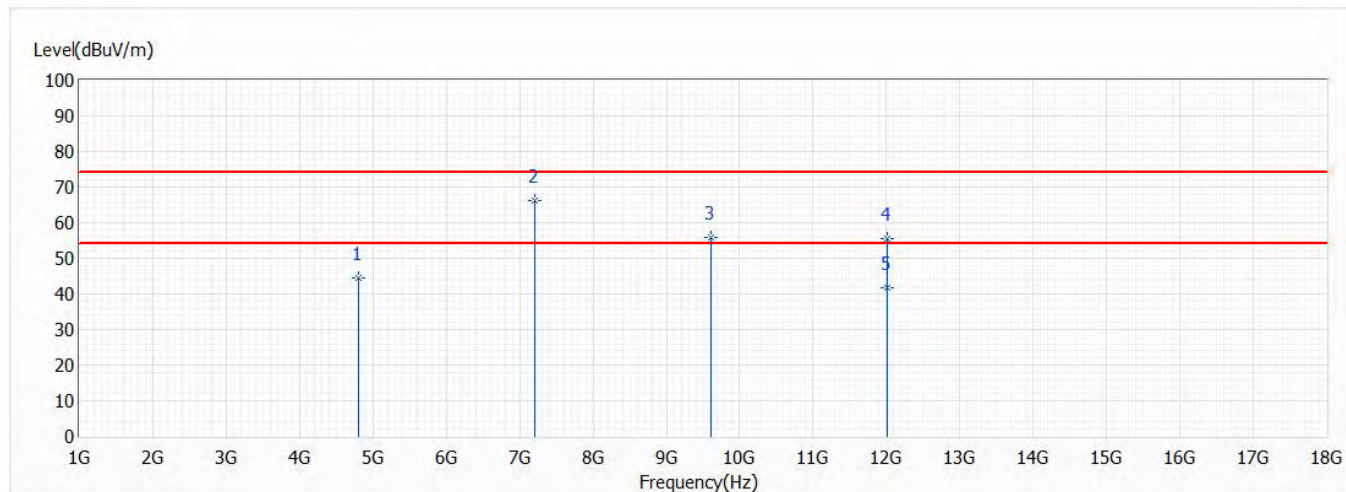
Note:

1. All reading levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.



**Above 1GHz Spurious**

Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC 3V	Test Date	2021/3/31
Test Mode	Mode 1: Transmit	Engineer	Elwin Lin
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	BT 5.2,PWR=2,Ch0,2.402G,	Humidity (%RH)	58.0

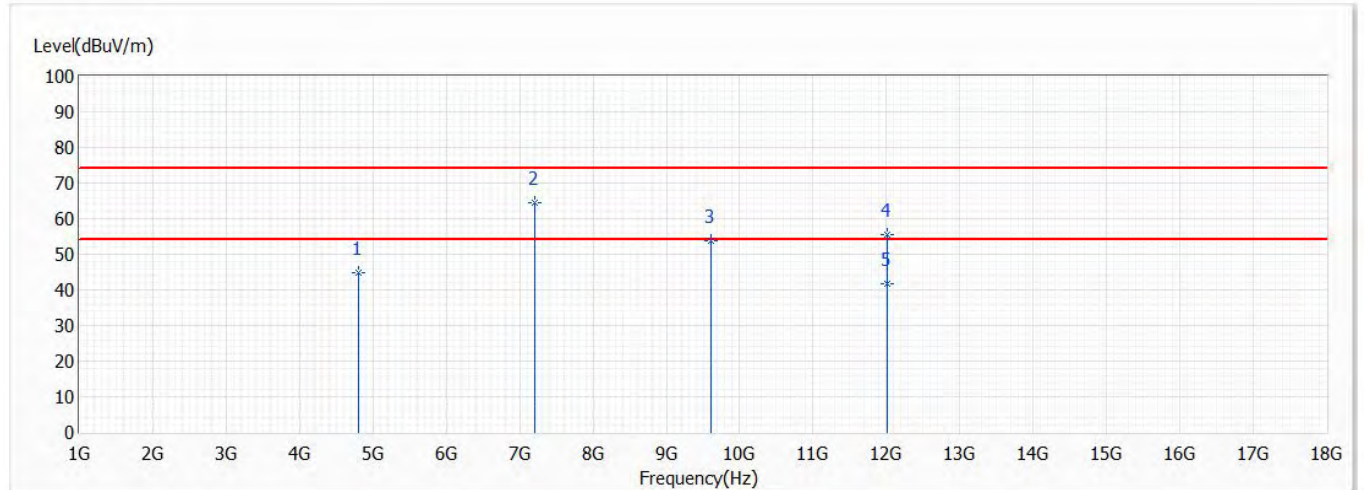


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	44.57	74.00	-29.43	46.05	-1.48	PK
* 2	7206.000	66.26	74.00	-7.74	60.04	6.22	PK
3	9608.000	55.93	74.00	-18.07	44.55	11.38	PK
4	12010.000	55.52	74.00	-18.48	42.10	13.42	PK
5	12010.000	41.66	54.00	-12.34	28.24	13.42	AV

**Note:**

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC 3V	Test Date	2021/3/31
Test Mode	Mode 1: Transmit	Engineer	Elwin Lin
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	BT 5.2,PWR=2,Ch0,2.402G,	Humidity (%RH)	58.0

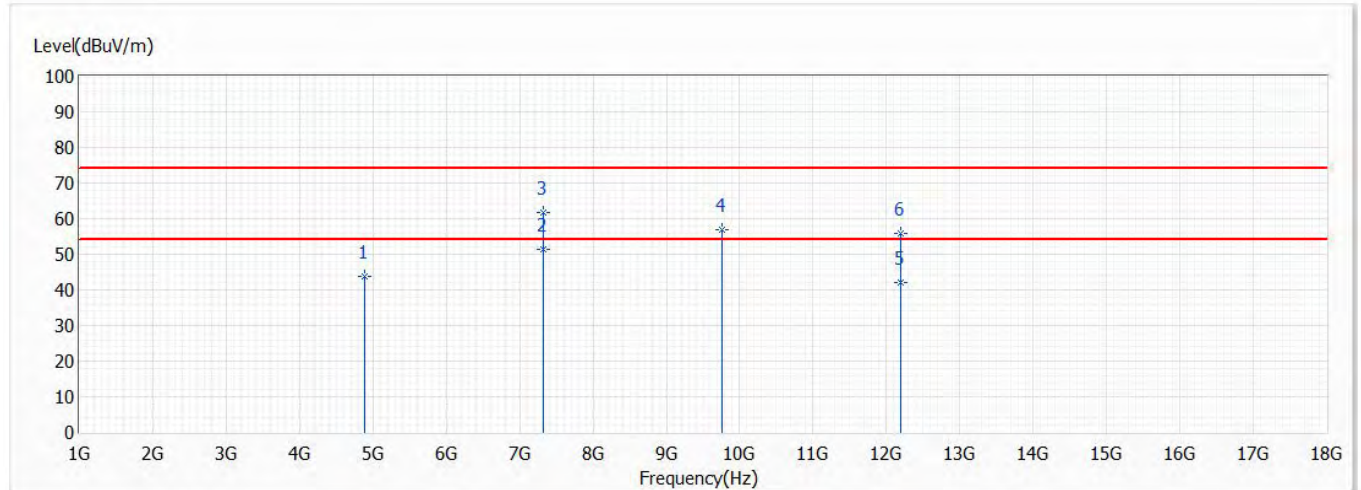


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	44.97	74.00	-29.03	46.45	-1.48	PK
* 2	7206.000	64.44	74.00	-9.56	58.22	6.22	PK
3	9608.000	53.88	74.00	-20.12	42.50	11.38	PK
4	12010.000	55.68	74.00	-18.32	42.26	13.42	PK
5	12010.000	41.80	54.00	-12.20	28.38	13.42	AV

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC 3V	Test Date	2021/3/31
Test Mode	Mode 1: Transmit	Engineer	Elwin Lin
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	BT 5.2,PWR=2,Ch19,2.44G,	Humidity (%RH)	58.0

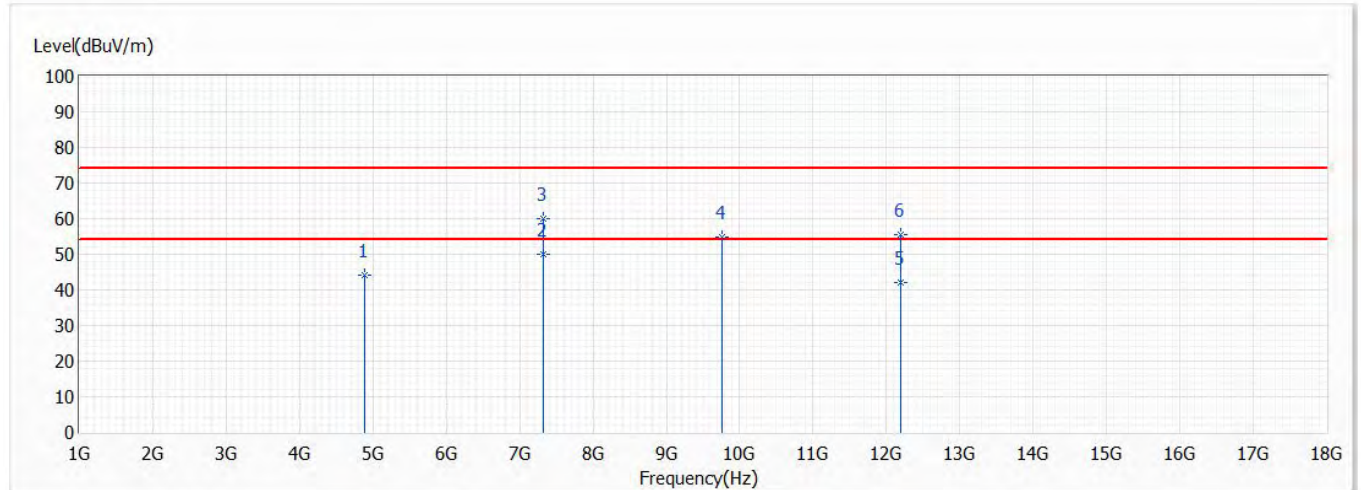


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	43.90	74.00	-30.10	45.29	-1.39	PK
* 2	7320.000	51.44	54.00	-2.56	45.21	6.23	AV
3	7320.000	61.84	74.00	-12.16	55.61	6.23	PK
4	9760.000	56.98	74.00	-17.02	45.30	11.68	PK
5	12200.000	41.90	54.00	-12.10	28.35	13.55	AV
6	12200.000	56.03	74.00	-17.97	42.48	13.55	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC 3V	Test Date	2021/3/31
Test Mode	Mode 1: Transmit	Engineer	Elwin Lin
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	BT 5.2,PWR=2,Ch19,2.44G,	Humidity (%RH)	58.0

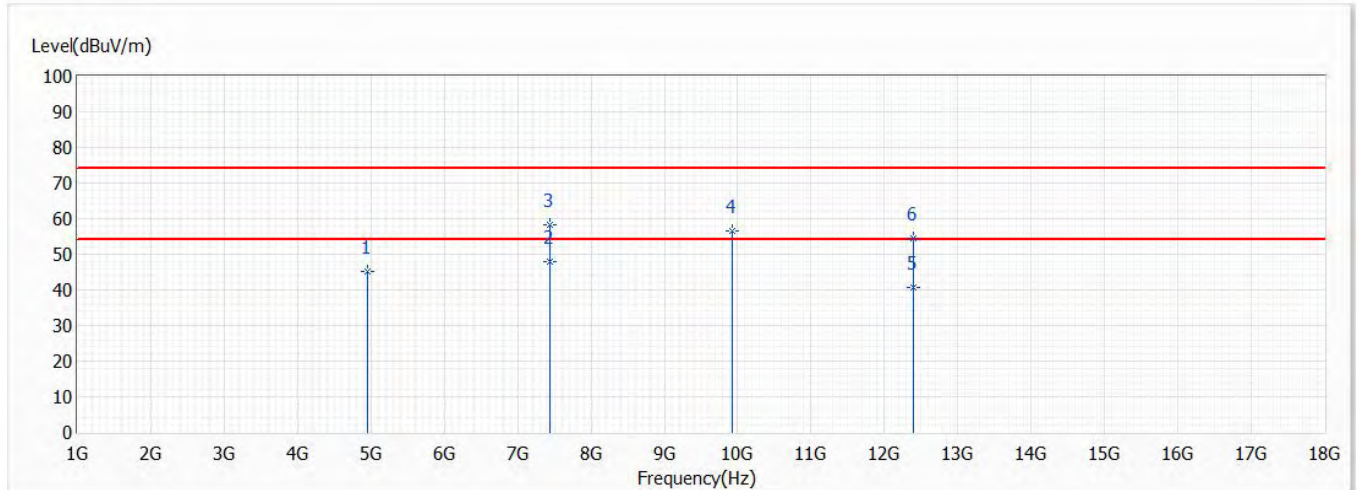


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	44.06	74.00	-29.94	45.45	-1.39	PK
* 2	7320.000	49.88	54.00	-4.12	43.65	6.23	AV
3	7320.000	60.17	74.00	-13.83	53.94	6.23	PK
4	9760.000	55.00	74.00	-19.00	43.32	11.68	PK
5	12200.000	41.90	54.00	-12.10	28.35	13.55	AV
6	12200.000	55.68	74.00	-18.32	42.13	13.55	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC 3V	Test Date	2021/3/31
Test Mode	Mode 1: Transmit	Engineer	Elwin Lin
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	BT 5.2,PWR=2,Ch39,2.48G,	Humidity (%RH)	58.0



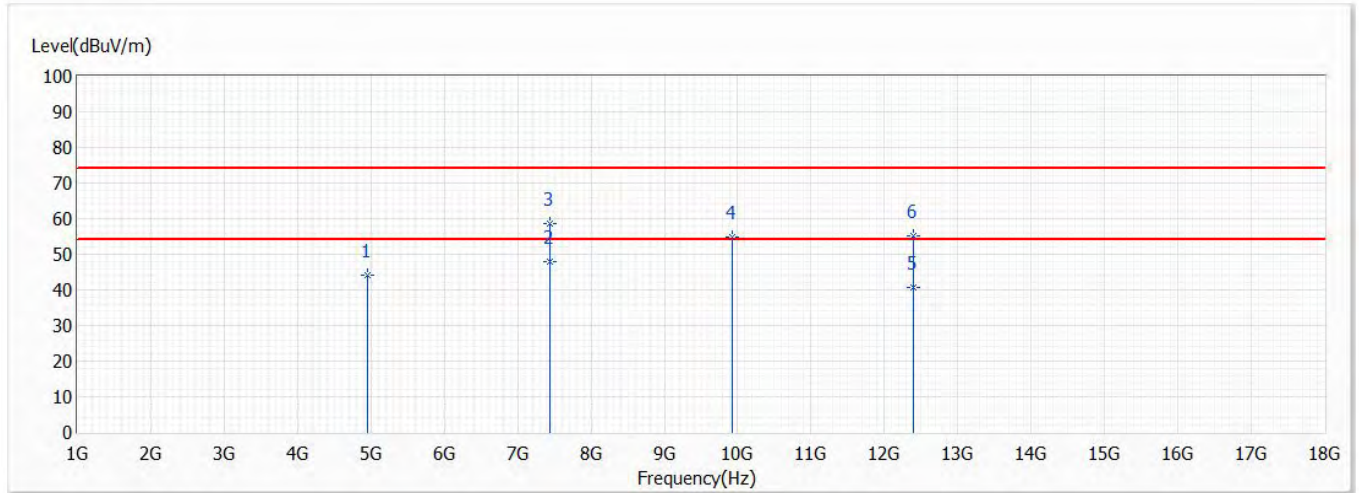
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	45.30	74.00	-28.70	46.45	-1.15	PK
* 2	7440.000	47.79	54.00	-6.21	40.98	6.81	AV
3	7440.000	58.18	74.00	-15.82	51.37	6.81	PK
4	9920.000	56.46	74.00	-17.54	44.49	11.97	PK
5	12400.000	40.84	54.00	-13.16	27.79	13.05	AV
6	12400.000	54.62	74.00	-19.38	41.57	13.05	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.



Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC 3V	Test Date	2021/3/31
Test Mode	Mode 1: Transmit	Engineer	Elwin Lin
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	BT 5.2,PWR=2,Ch39,2.48G,	Humidity (%RH)	58.0

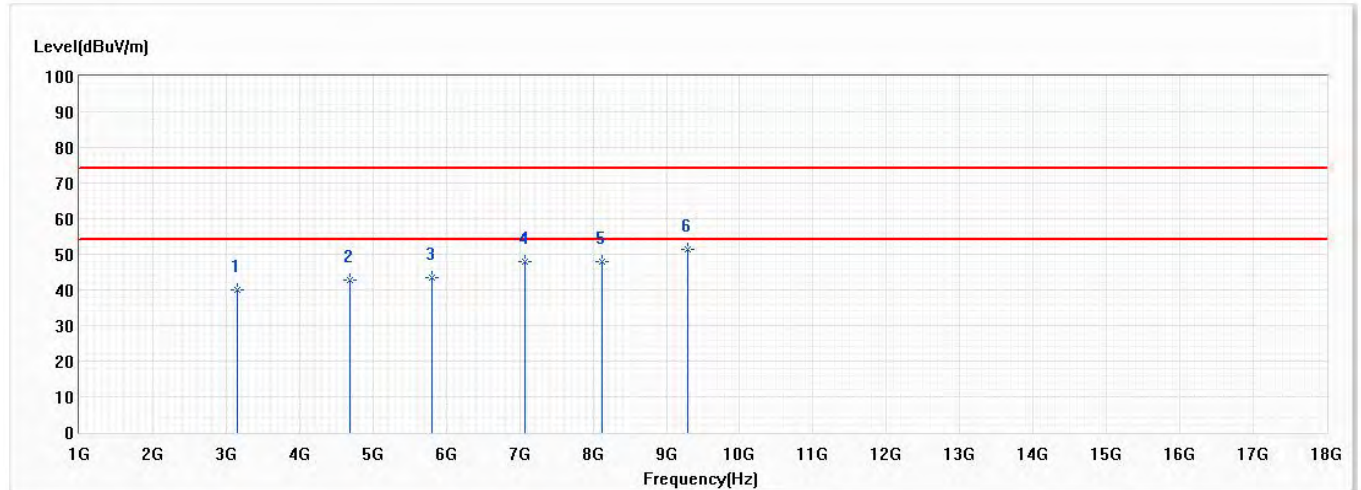


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	44.09	74.00	-29.91	45.24	-1.15	PK
* 2	7440.000	47.88	54.00	-6.12	41.07	6.81	AV
3	7440.000	58.70	74.00	-15.30	51.89	6.81	PK
4	9920.000	54.97	74.00	-19.03	43.00	11.97	PK
5	12400.000	40.79	54.00	-13.21	27.74	13.05	AV
6	12400.000	55.10	74.00	-18.90	42.05	13.05	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC 3V	Test Date	2021/3/17
Test Mode	Mode 2: Receiver	Engineer	Elwin Lin
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	SISO,BT5.2,Ch0,2.402G,2M	Humidity (%RH)	55.0

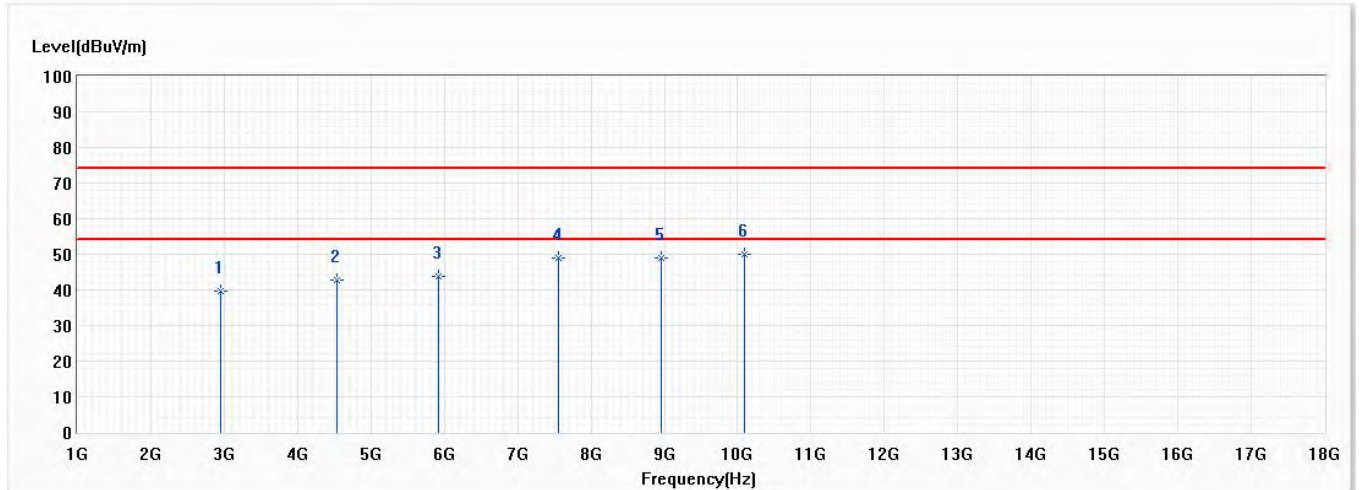


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3154.750	40.13	74.00	-33.87	45.82	-5.69	PK
2	4684.750	42.81	74.00	-31.19	44.77	-1.96	PK
3	5800.375	43.61	74.00	-30.39	42.98	0.63	PK
4	7066.875	47.85	74.00	-26.15	42.29	5.56	PK
5	8120.875	47.98	74.00	-26.02	39.68	8.30	PK
* 6	9298.125	51.35	74.00	-22.65	40.31	11.04	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC 3V	Test Date	2021/3/17
Test Mode	Mode 2: Receiver	Engineer	Elwin Lin
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	SISO,BT5.2,Ch0,2.402G,2M	Humidity (%RH)	55.0



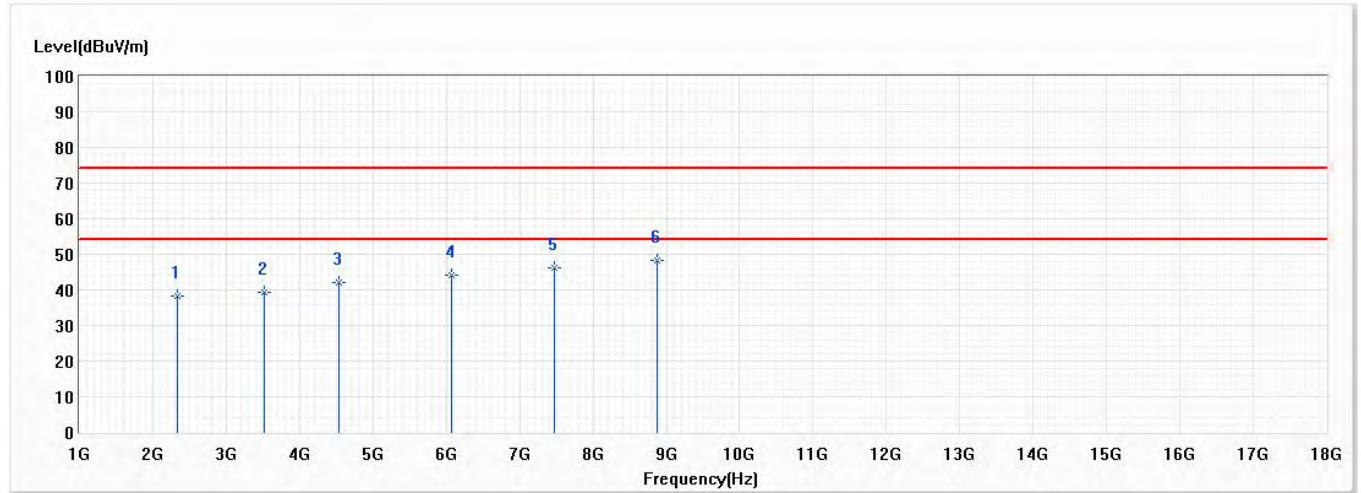
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2944.375	39.64	74.00	-34.36	46.30	-6.66	PK
2	4536.000	42.61	74.00	-31.39	45.28	-2.67	PK
3	5921.500	43.89	74.00	-30.11	42.97	0.92	PK
4	7553.500	48.86	74.00	-25.14	41.70	7.16	PK
5	8960.250	48.84	74.00	-25.16	39.16	9.68	PK
* 6	10086.500	50.12	74.00	-23.88	38.12	12.00	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.



Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC 3V	Test Date	2021/3/17
Test Mode	Mode 2: Receiver	Engineer	Elwin Lin
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	SISO,BT5.2,Ch19,2.44G,2M	Humidity (%RH)	55.0

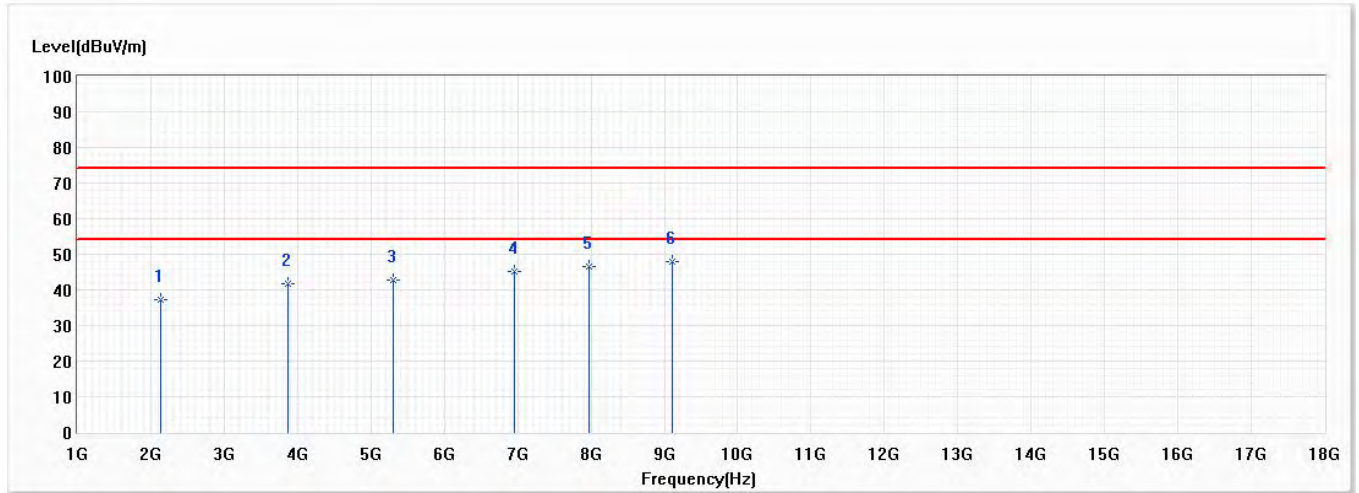


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2338.750	38.44	74.00	-35.56	46.46	-8.02	PK
2	3516.000	39.44	74.00	-34.56	45.02	-5.58	PK
3	4540.250	41.95	74.00	-32.05	44.59	-2.64	PK
4	6072.375	44.13	74.00	-29.87	43.14	0.99	PK
5	7477.000	46.25	74.00	-27.75	39.34	6.91	PK
* 6	8877.375	48.20	74.00	-25.80	38.61	9.59	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC 3V	Test Date	2021/3/17
Test Mode	Mode 2: Receiver	Engineer	Elwin Lin
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	SISO,BT5.2,Ch19,2.44G,2M	Humidity (%RH)	55.0

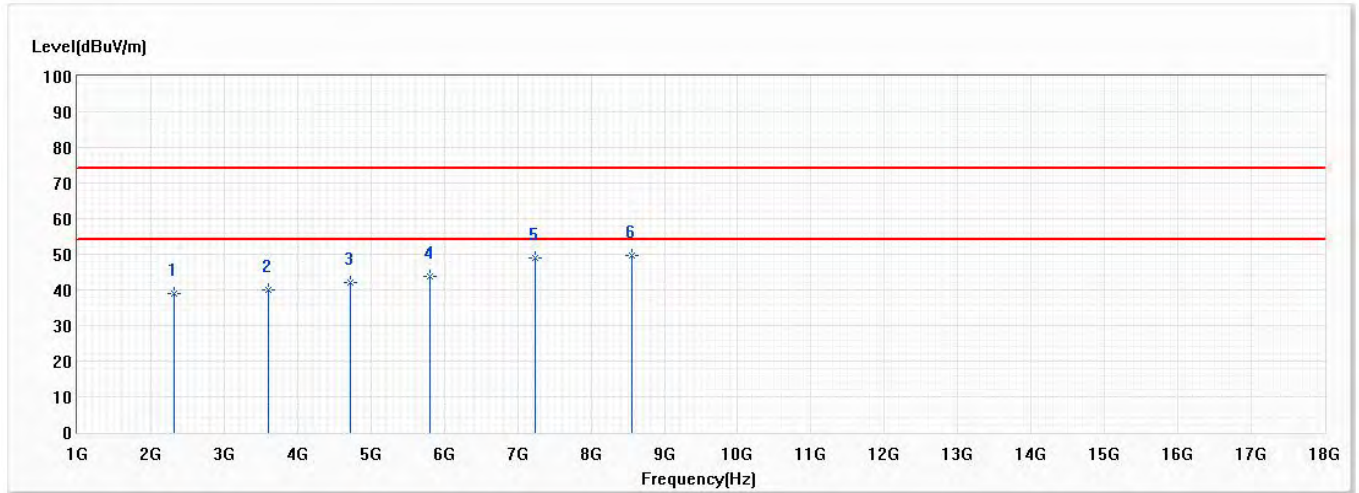


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2130.500	37.41	74.00	-36.59	46.22	-8.81	PK
2	3877.250	41.67	74.00	-32.33	46.01	-4.34	PK
3	5305.250	42.80	74.00	-31.20	43.87	-1.07	PK
4	6947.875	45.11	74.00	-28.89	40.60	4.51	PK
5	7978.500	46.59	74.00	-27.41	38.42	8.17	PK
* 6	9106.875	47.82	74.00	-26.18	37.82	10.00	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC 3V	Test Date	2021/3/17
Test Mode	Mode 2: Receiver	Engineer	Elwin Lin
Polarity	Horizontal	Temperature (°C)	23.0
Test Condition	SISO,BT5.2,Ch39,2.48G,2M	Humidity (%RH)	55.0

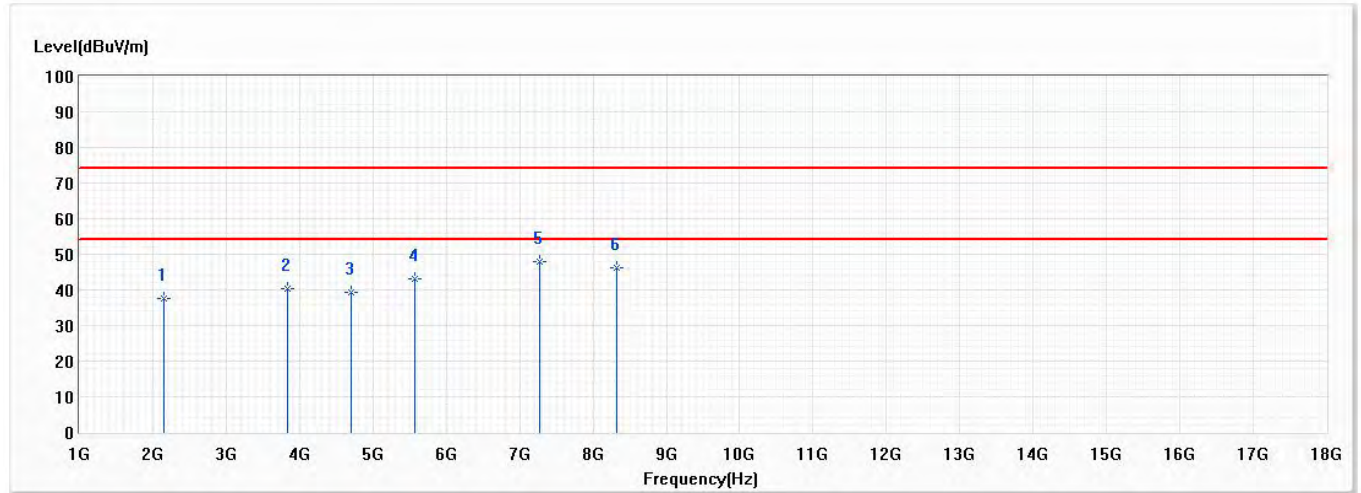


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2323.875	39.04	74.00	-34.96	47.08	-8.04	PK
2	3601.000	39.95	74.00	-34.05	45.26	-5.31	PK
3	4716.625	42.02	74.00	-31.98	43.81	-1.79	PK
4	5798.250	43.90	74.00	-30.10	43.27	0.63	PK
5	7247.500	48.93	74.00	-25.07	42.47	6.46	PK
* 6	8552.250	49.65	74.00	-24.35	41.12	8.53	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Model No	BM7701-00-1	Site	CB4-H
Test Voltage	DC 3V	Test Date	2021/3/17
Test Mode	Mode 2: Receiver	Engineer	Elwin Lin
Polarity	Vertical	Temperature (°C)	23.0
Test Condition	SISO,BT5.2,Ch39,2.48G,2M	Humidity (%RH)	55.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2156.000	37.62	74.00	-36.38	46.12	-8.50	PK
2	3832.625	40.47	74.00	-33.53	45.19	-4.72	PK
3	4699.625	39.39	74.00	-34.61	41.24	-1.85	PK
4	5577.250	43.04	74.00	-30.96	43.05	-0.01	PK
* 5	7275.125	47.88	74.00	-26.12	41.52	6.36	PK
6	8318.500	46.12	74.00	-27.88	38.01	8.11	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

## 2.4. Power Density

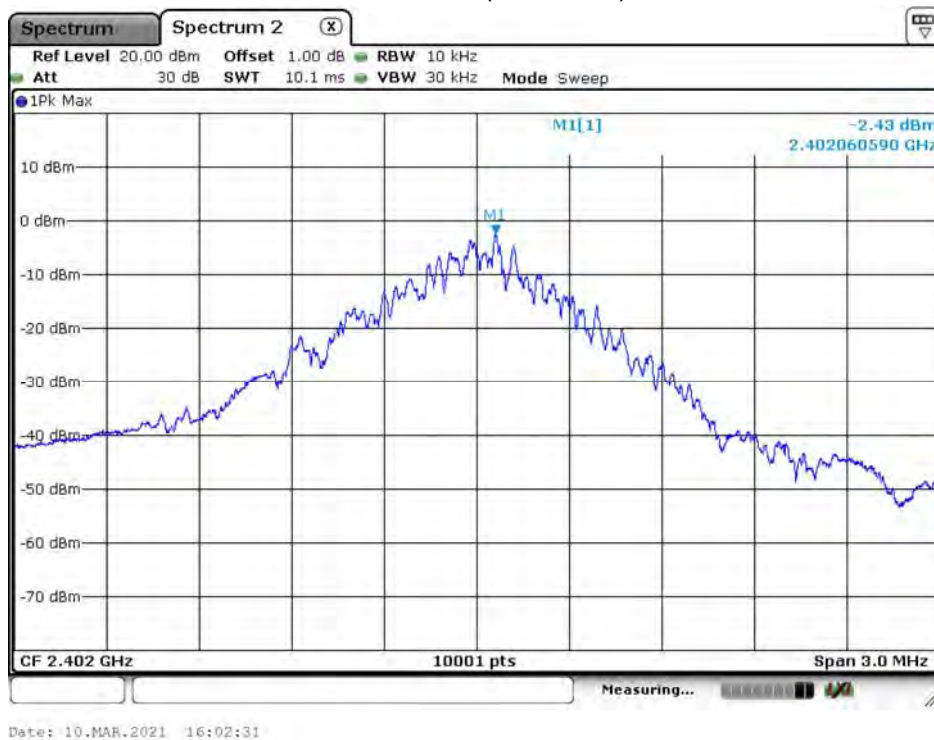
### 2.4.1. Test Result

Product	Bluetooth Low Energy 5.2 Controller Module		
Test Item	Power Density		
Test Mode	Mode1: Transmit		
Date of Test	2021/03/10	Test Site	SR12-H
Test Temperature (°C)	23	Test Humidity (%)	66

1M

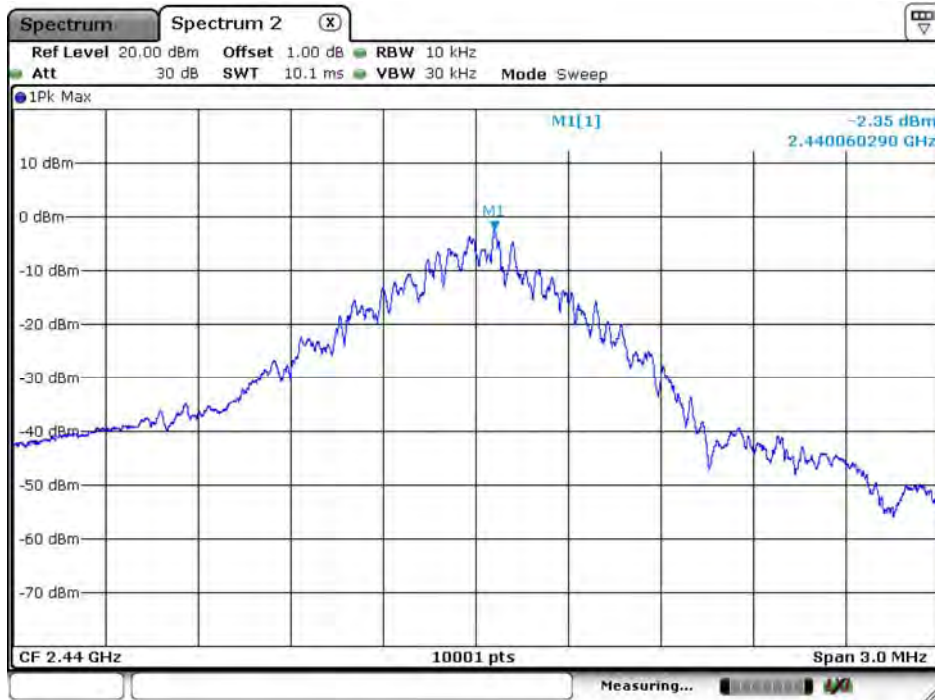
Channel No.	Frequency (MHz)	Measure Level (dBm/3kHz)	Limit (dBm/3kHz)
00	2402	-2.430	≤ 8
19	2440	-2.350	≤ 8
39	2480	-2.290	≤ 8

Channel 00 (2402MHz)



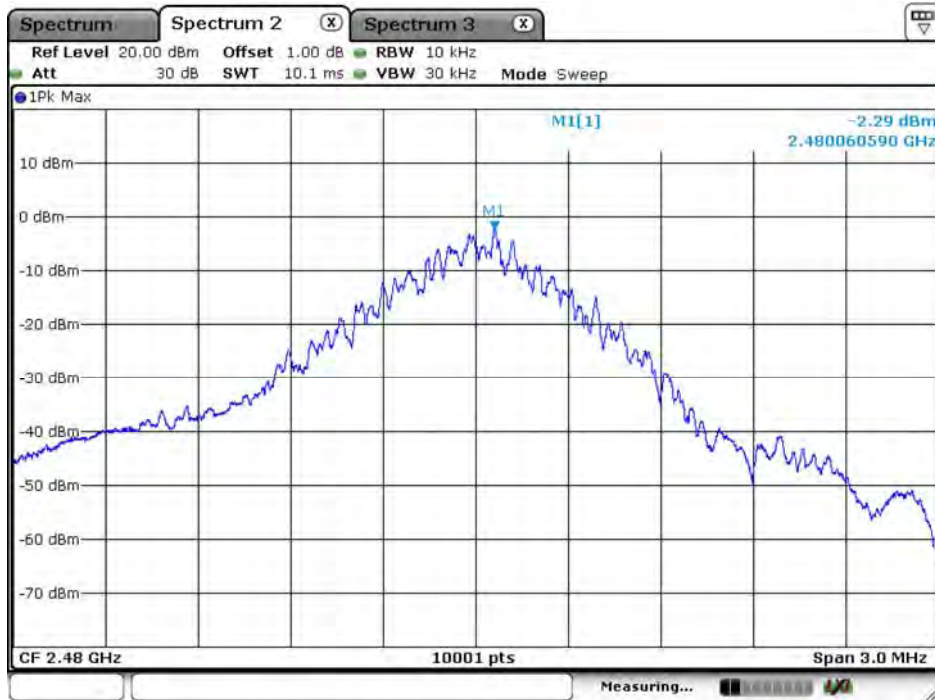


### Channel 19 (2440MHz)



Date: 10.MAR.2021 16:03:52

### Channel 39 (2480MHz)



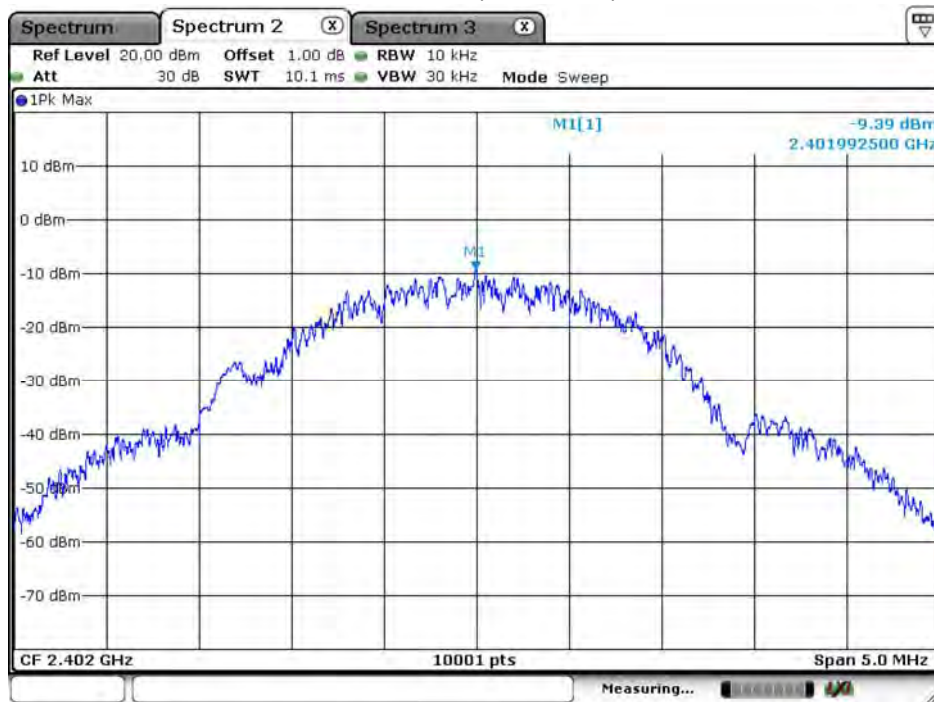
Date: 10.MAR.2021 16:12:56

Product	Bluetooth Low Energy 5.2 Controller Module		
Test Item	Power Density		
Test Mode	Mode1: Transmit		
Date of Test	2021/03/10	Test Site	SR12-H
Test Temperature (°C)	23	Test Humidity (%)	66

2M

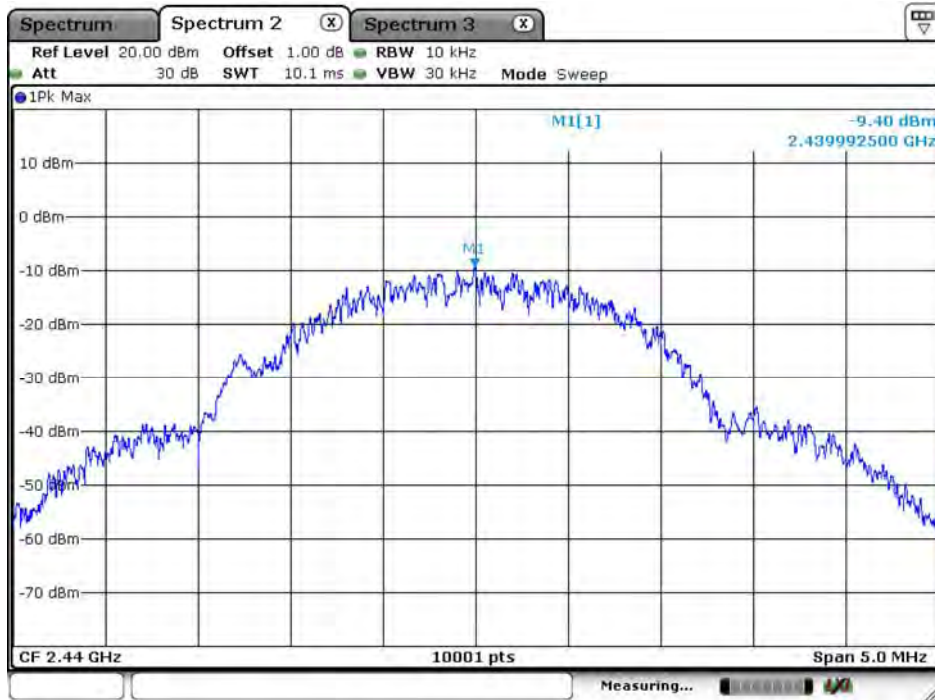
Channel No.	Frequency (MHz)	Measure Level (dBm/3kHz)	Limit (dBm/3kHz)	Result
00	2402	-9.390	≤8	Pass
19	2440	-9.400	≤8	Pass
39	2480	-9.150	≤8	Pass

Channel 0 (2402MHz)



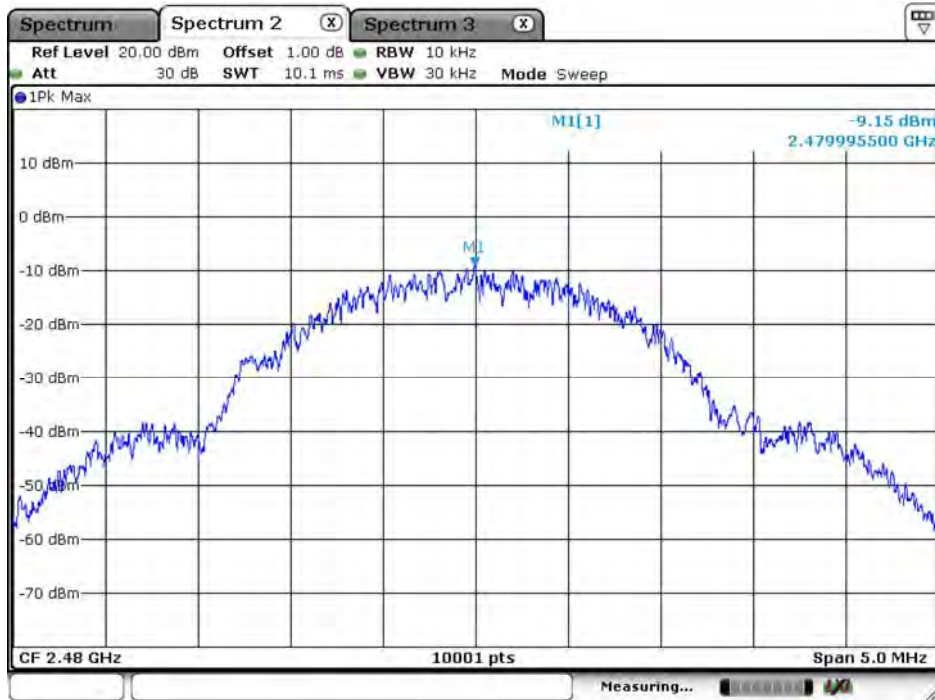
Date: 10.MAR.2021 16:24:03

### Channel 19 (2440MHz)



Date: 10.MAR.2021 16:17:45

### Channel 39 (2480MHz)



Date: 10.MAR.2021 16:25:09



## 2.5. Occupied Bandwidth & DTS Bandwidth

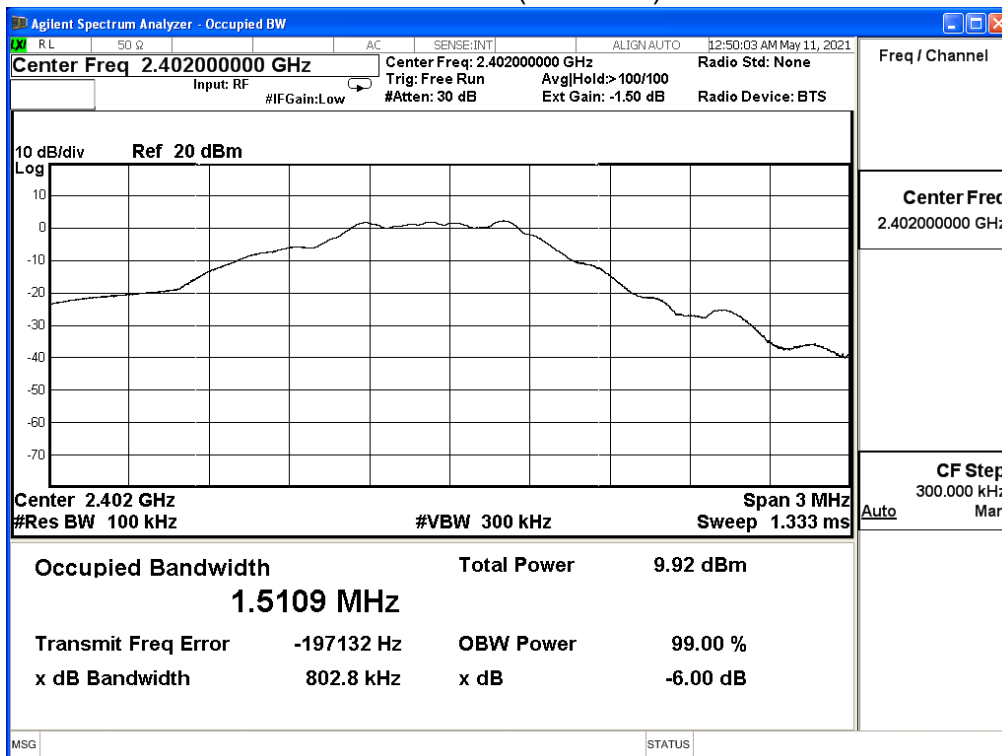
### 2.5.1. Test Result

Product	Bluetooth Low Energy 5.2 Controller Module		
Test Item	Occupied Bandwidth & DTS Bandwidth		
Test Mode	Mode1: Transmit		
Date of Test	2021/05/11	Test Site	SR12-H
Test Temperature (°C)	24	Test Humidity (%)	68

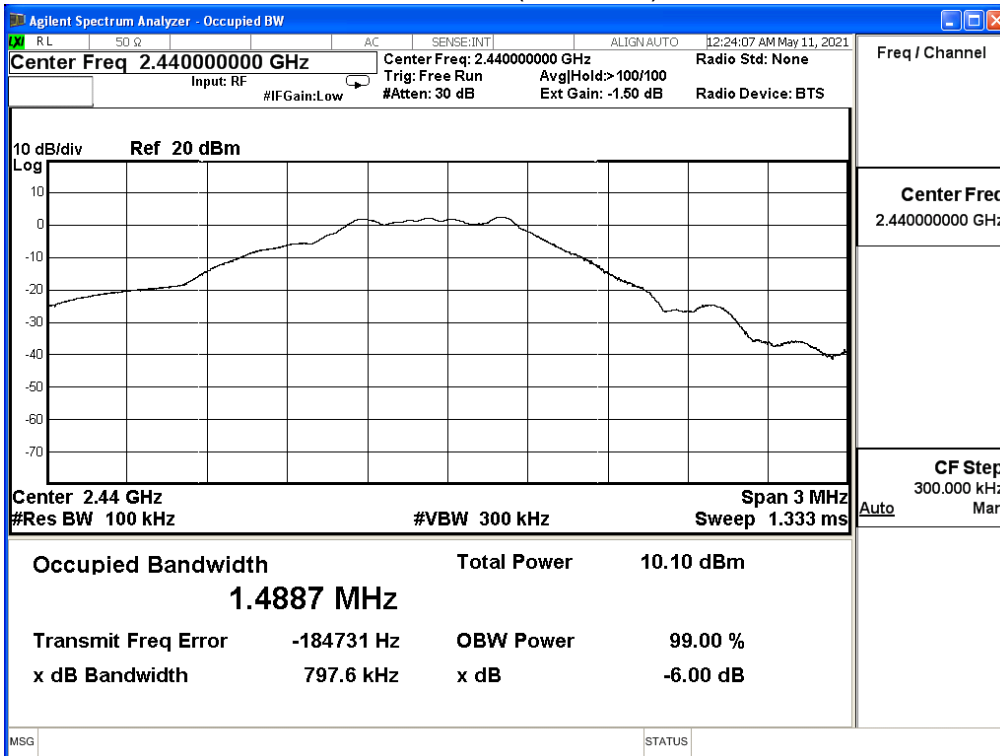
1M

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	0.802	$\geq 0.5$
19	2440	0.797	$\geq 0.5$
39	2480	0.796	$\geq 0.5$

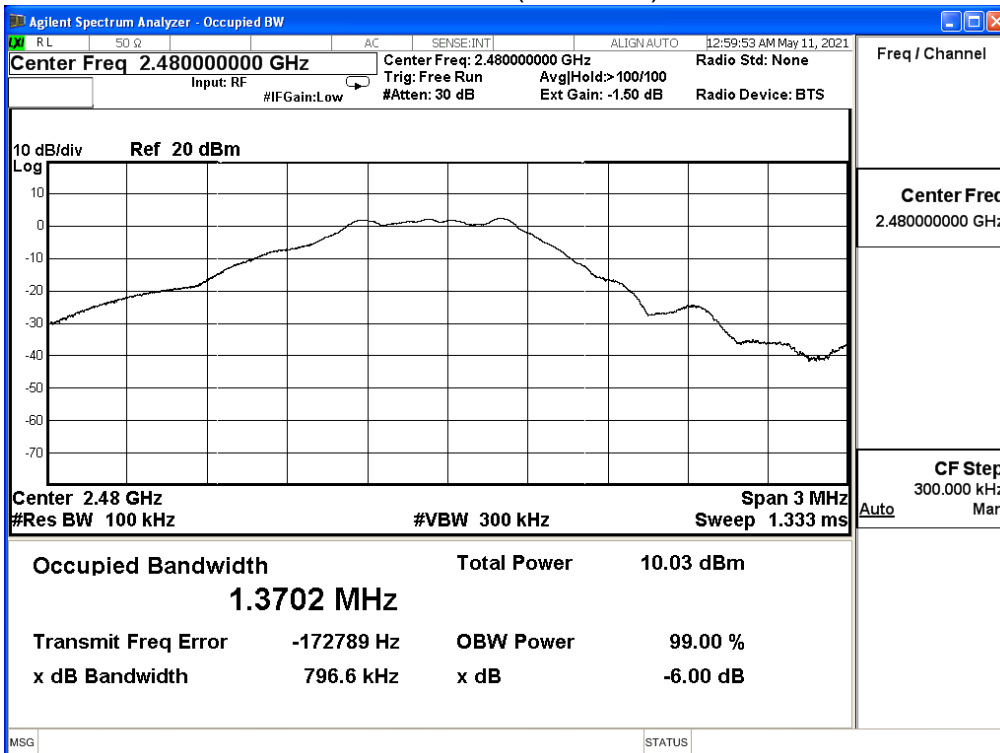
Channel 00 (2402MHz)



### Channel 19 (2440MHz)



### Channel 39 (2480MHz)

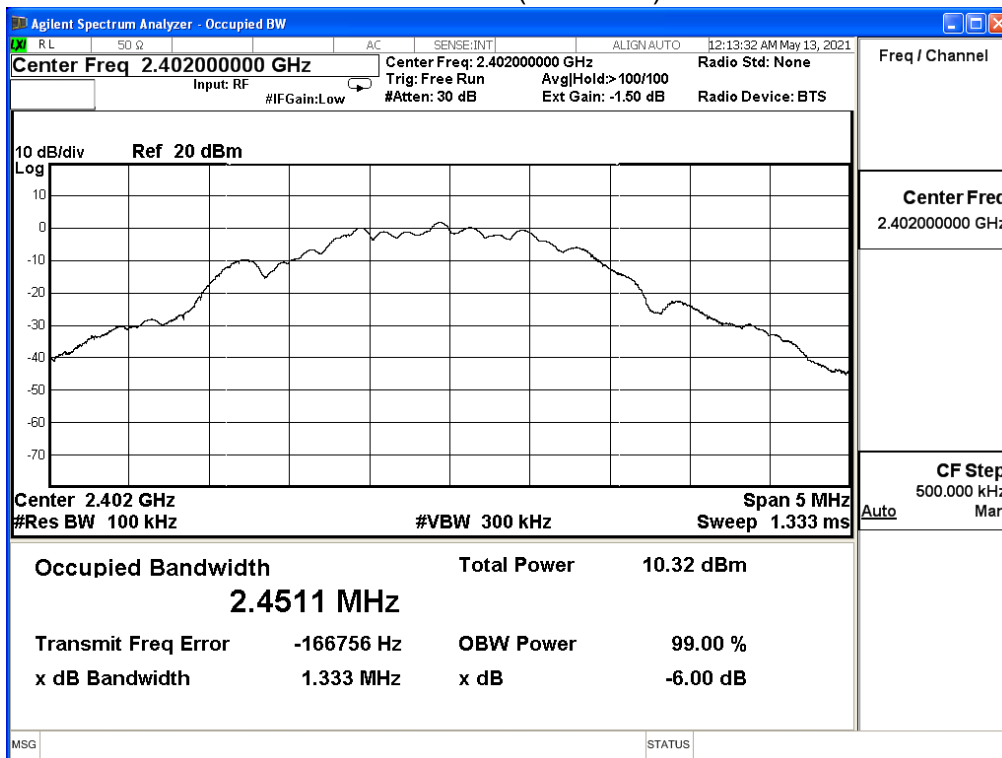


Product	Bluetooth Low Energy 5.2 Controller Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode1: Transmit		
Date of Test	2021/05/13	Test Site	SR12-H
Test Temperature (°C)	25	Test Humidity (%)	65

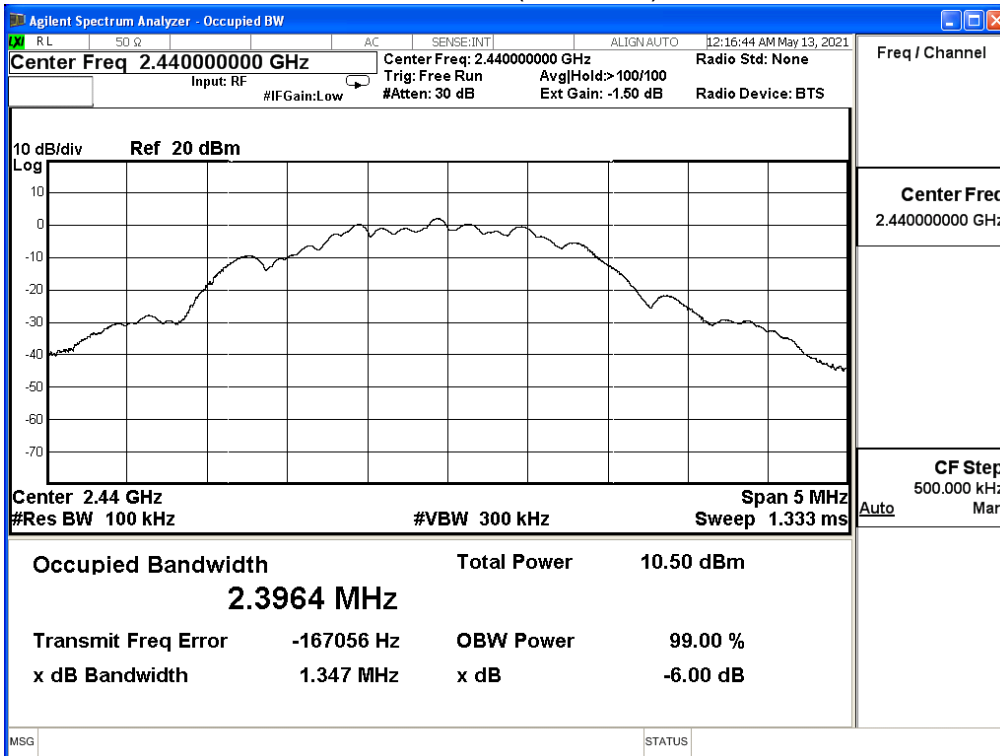
2M

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	1.333	≥ 0.5
19	2440	1.347	≥ 0.5
39	2480	1.347	≥ 0.5

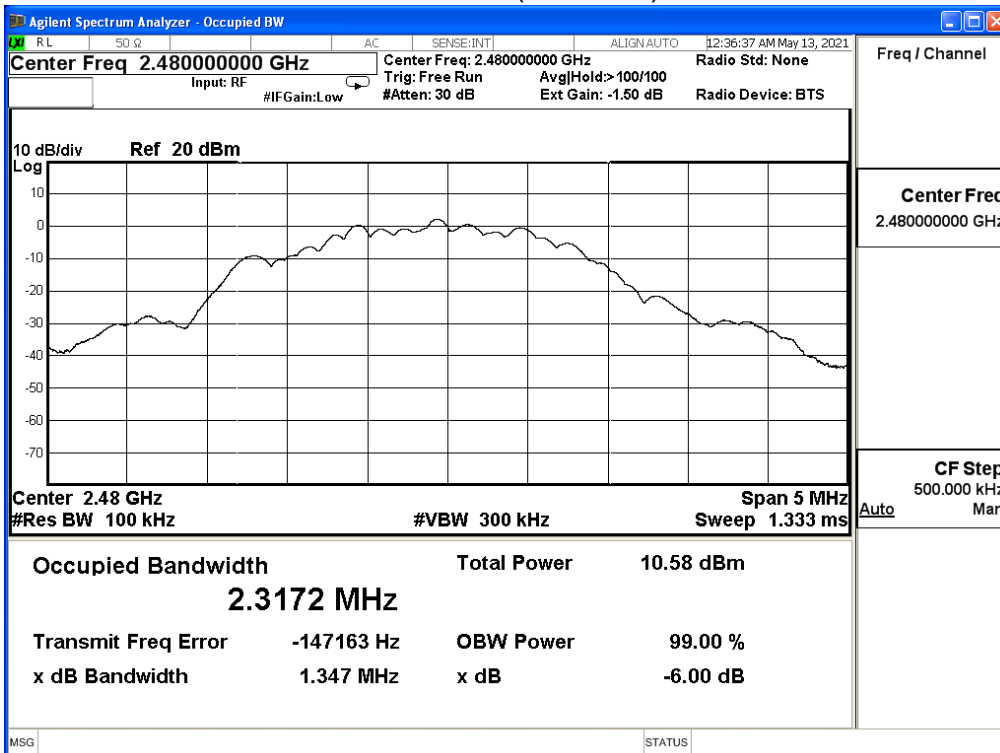
Channel 00 (2402MHz)



### Channel 19 (2440MHz)



### Channel 39 (2480MHz)



## 2.6. Band edge

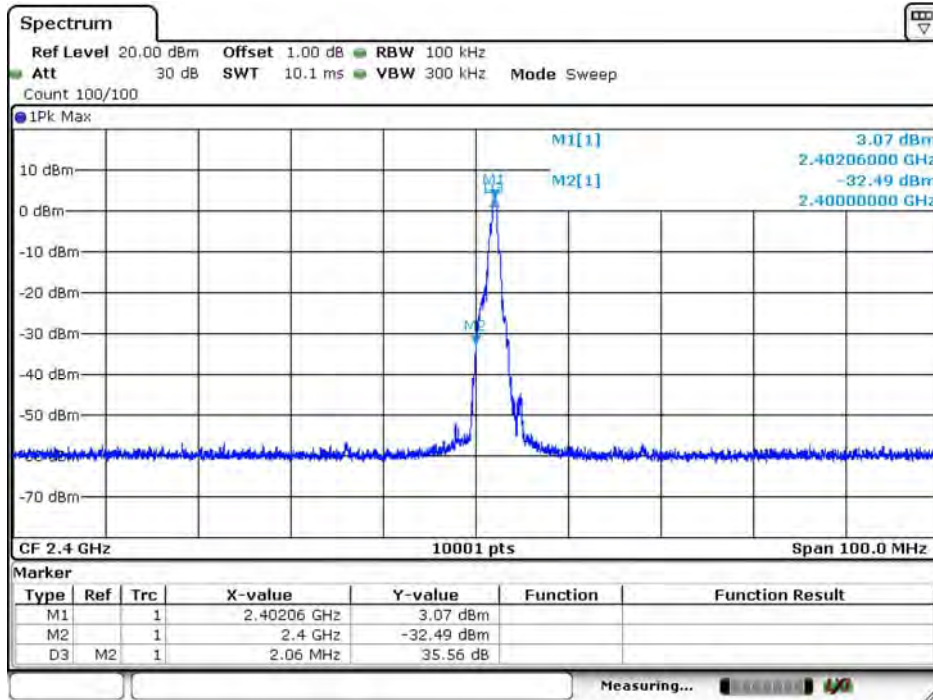
### 2.6.1. Test Result

Product	Bluetooth Low Energy 5.2 Controller Module		
Test Item	Band edge		
Test Mode	Mode1: Transmit		
Date of Test	2021/03/10	Test Site	SR12-H
Test Temperature (°C)	23	Test Humidity (%)	66

1M

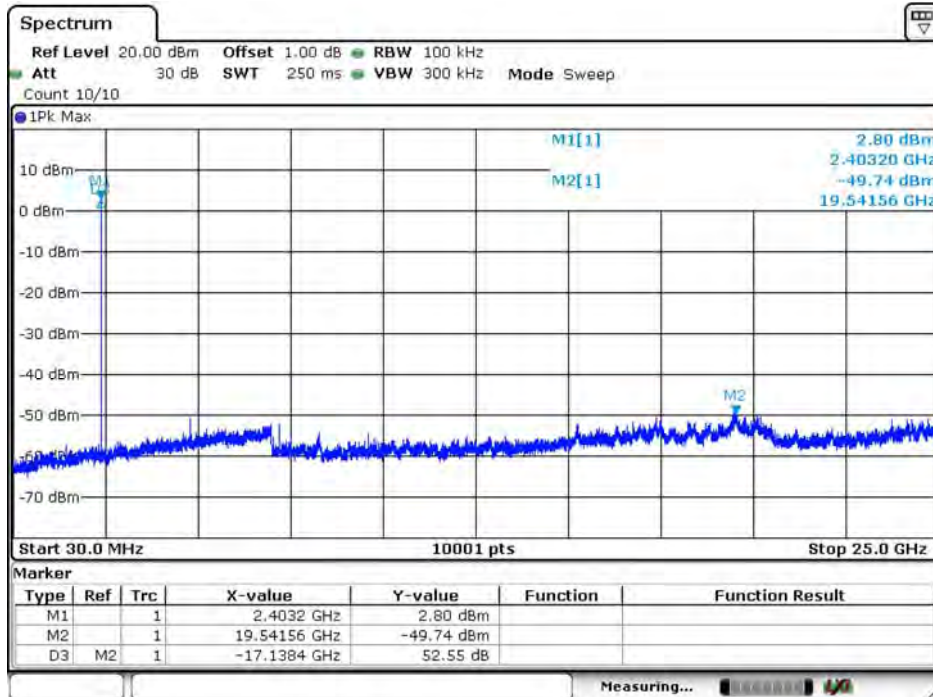
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
00	2402	35.560	$\geq 20$	Pass
19	2440	52.380	$\geq 20$	Pass
39	2480	51.520	$\geq 20$	Pass

Channel 00 (2402MHz)\_1M



Date: 10.MAR.2021 15:59:35

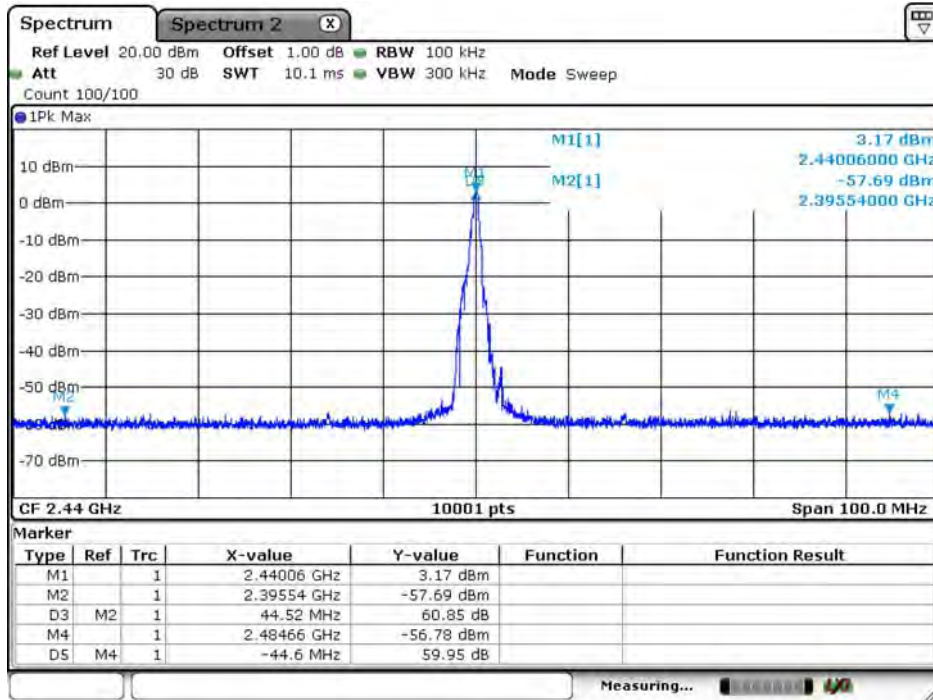
Channel 00 (2402MHz)(30MHz-25GHz)\_1M



Date: 10.MAR.2021 16:00:30

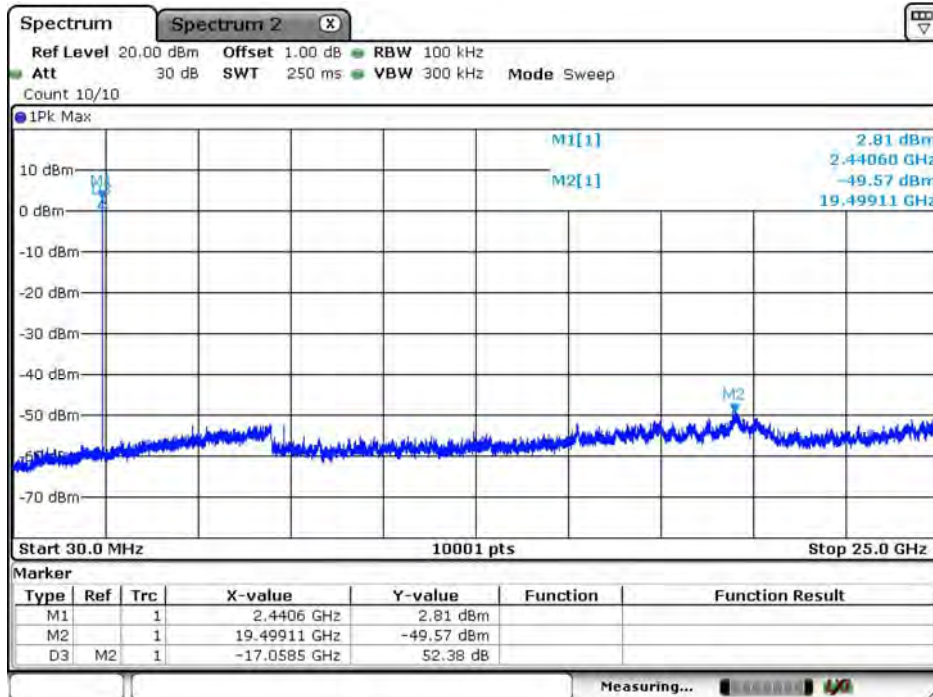


Channel 19 (2440MHz)\_1M



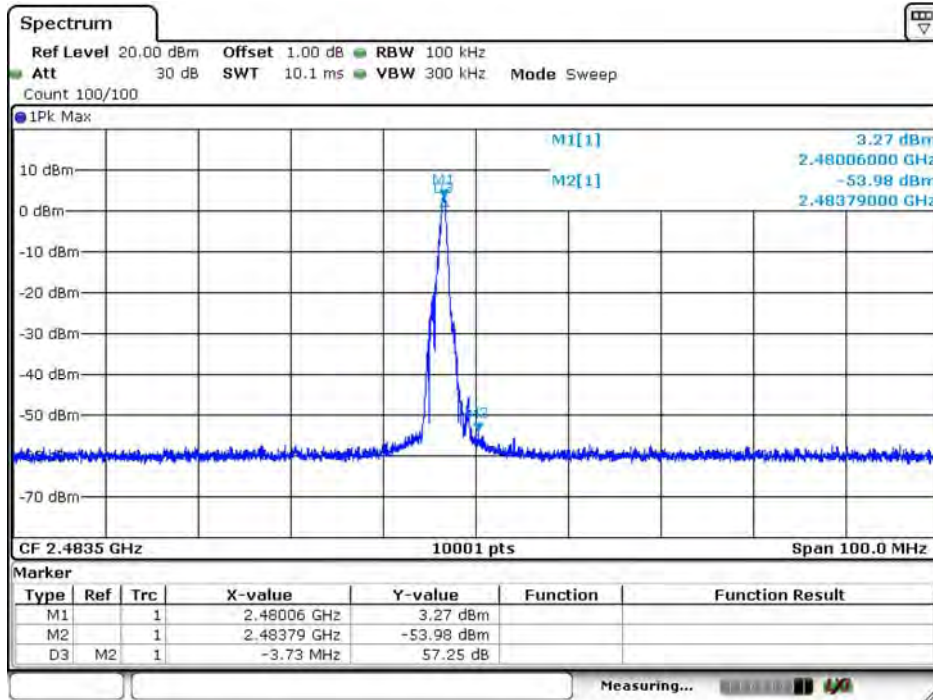
Date: 10.MAR.2021 16:06:59

Channel 19 (2440MHz)(30MHz-25GHz)\_1M



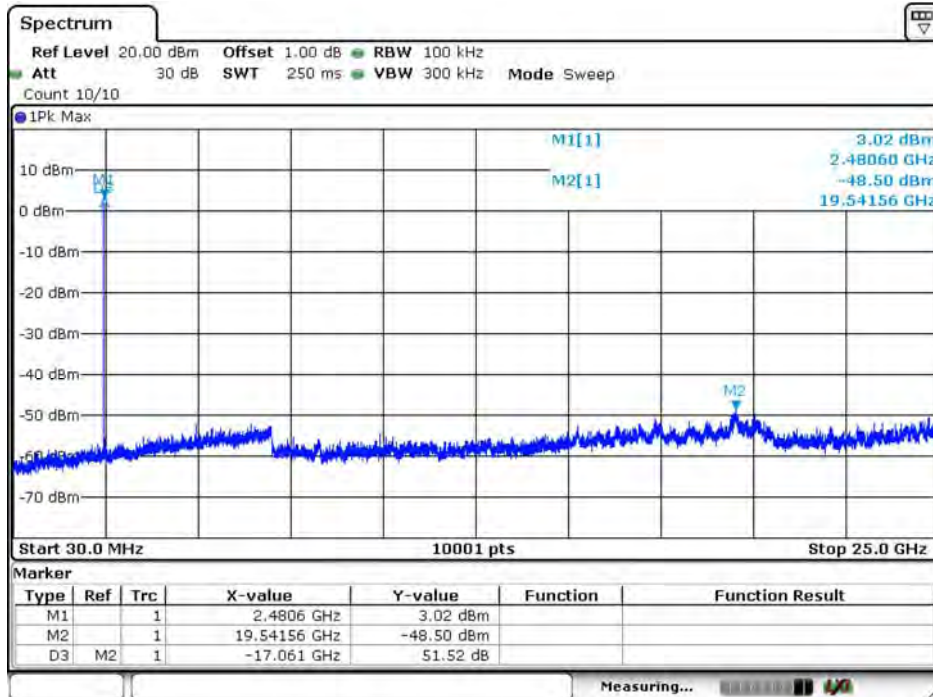
Date: 10.MAR.2021 16:08:23

Channel 39 (2480MHz)\_1M



Date: 10.MAR.2021 15:57:25

Channel 39 (2480MHz)(30MHz-25GHz)\_1M



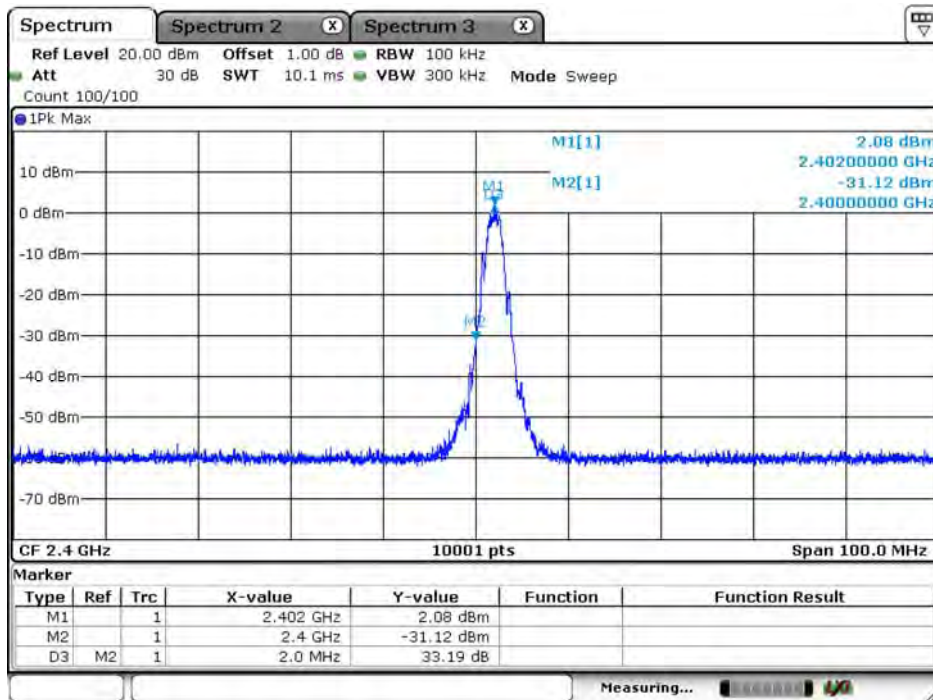
Date: 10.MAR.2021 15:52:05

Product	Bluetooth Low Energy 5.2 Controller Module		
Test Item	Band edge		
Test Mode	Mode1: Transmit		
Date of Test	2021/03/10	Test Site	SR12-H
Test Temperature (°C)	23	Test Humidity (%)	66

## 2M

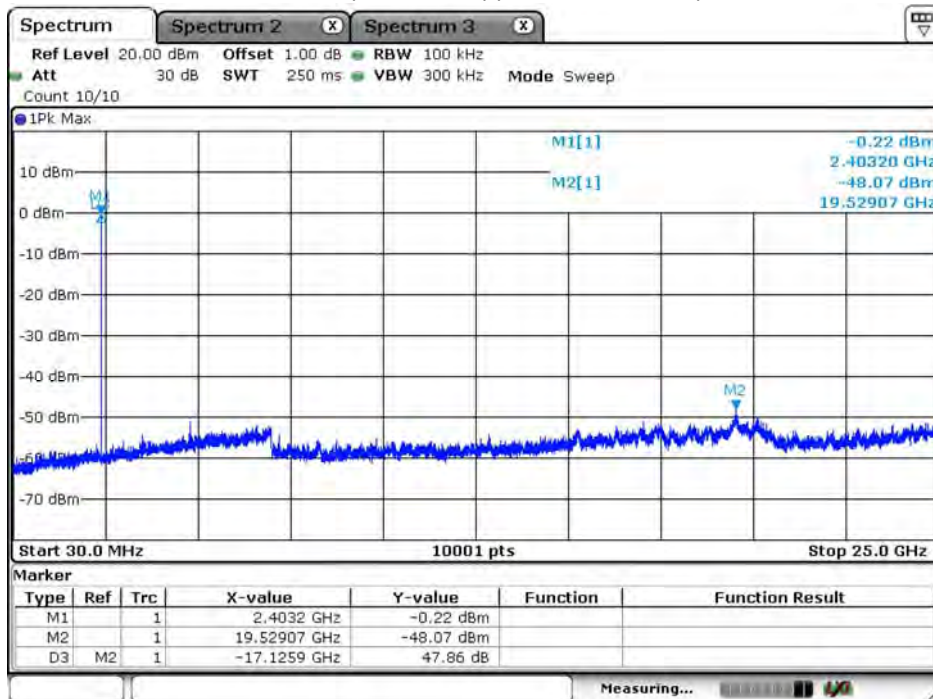
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
00	2402	33.190	$\geq 20$	Pass
19	2440	47.530	$\geq 20$	Pass
39	2480	49.130	$\geq 20$	Pass

Channel 00 (2402MHz)\_2M



Date: 10.MAR.2021 16:22:07

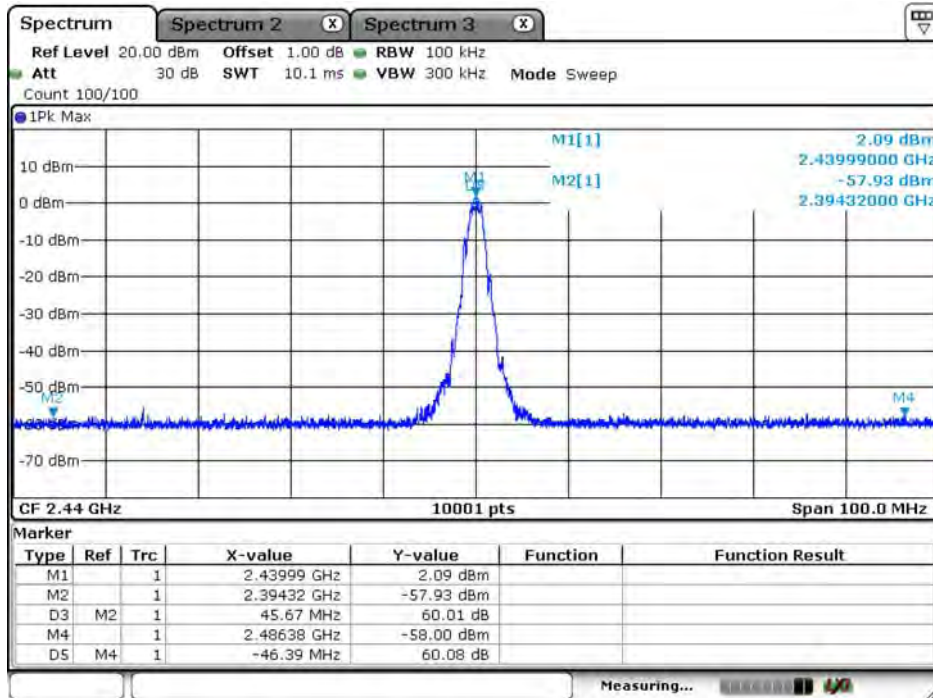
Channel 00 (2402MHz)(30MHz-25GHz)\_2M



Date: 10.MAR.2021 16:23:30

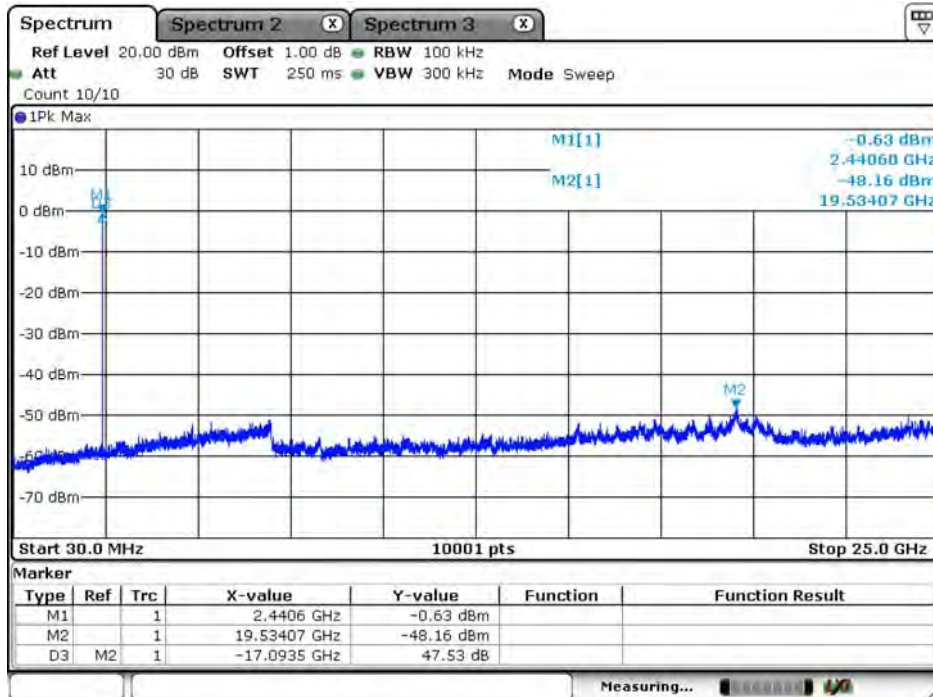


### Channel 19 (2440MHz)\_2M



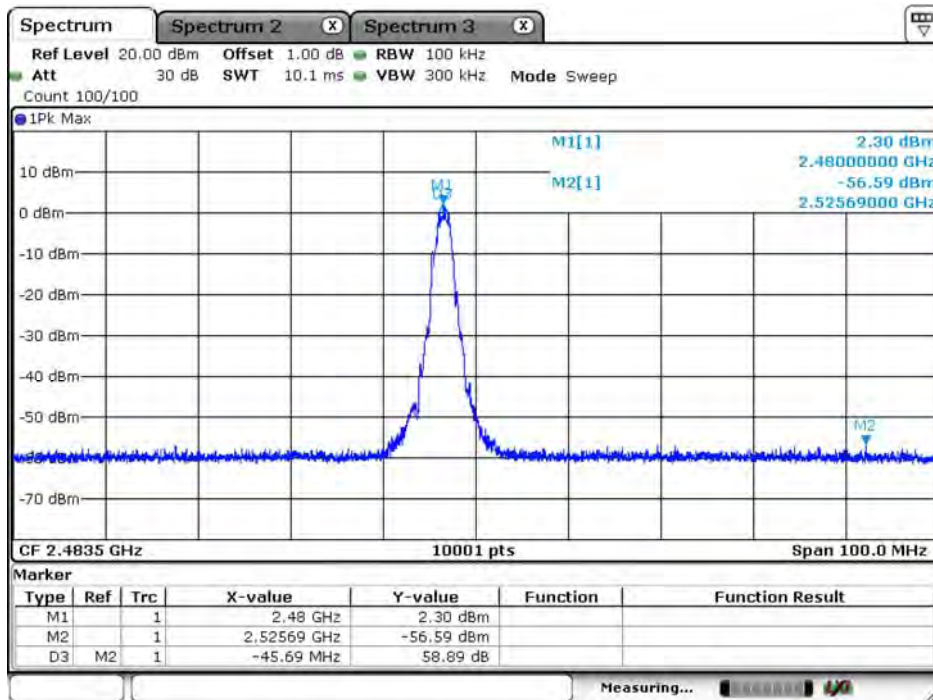
Date: 10.MAR.2021 16:18:56

### Channel 19 (2440MHz)(30MHz-25GHz)\_2M



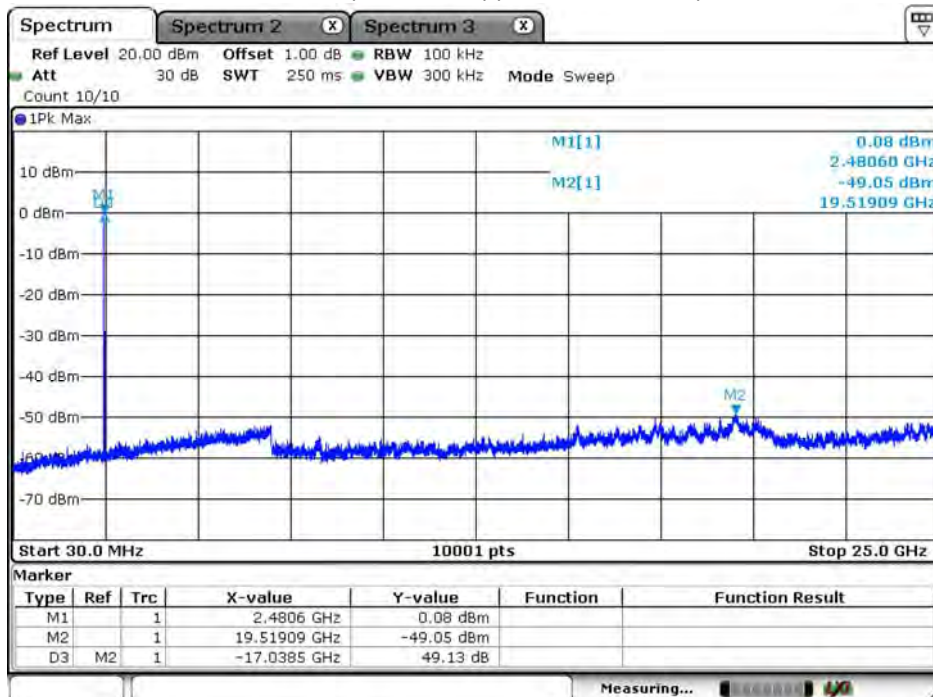
Date: 10.MAR.2021 16:20:21

Channel 39 (2480MHz)\_2M



Date: 10.MAR.2021 16:26:45

Channel 39 (2480MHz)(30MHz-25GHz)\_2M



Date: 10.MAR.2021 16:26:05



### 3. CE Test Data

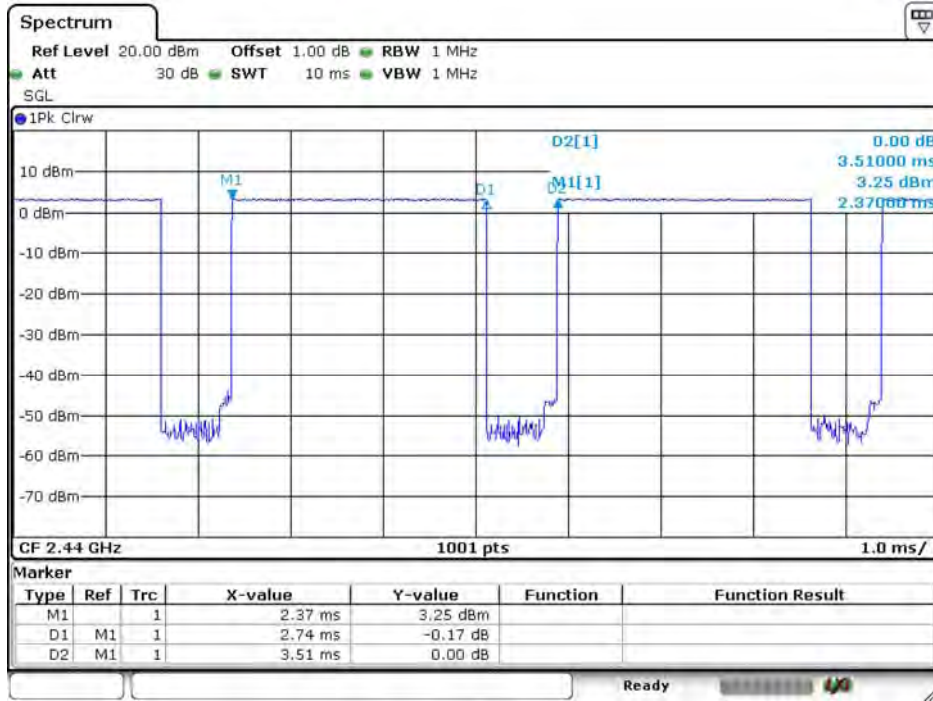
#### 3.1. Duty cycle

##### 3.1.1. Test Result

Model No	BM7701-00-1		
Test Item	Duty Cycle		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2021/03/10	Test Site	SR12-H
Temperature (°C)	23	Test Humidity (%)	66

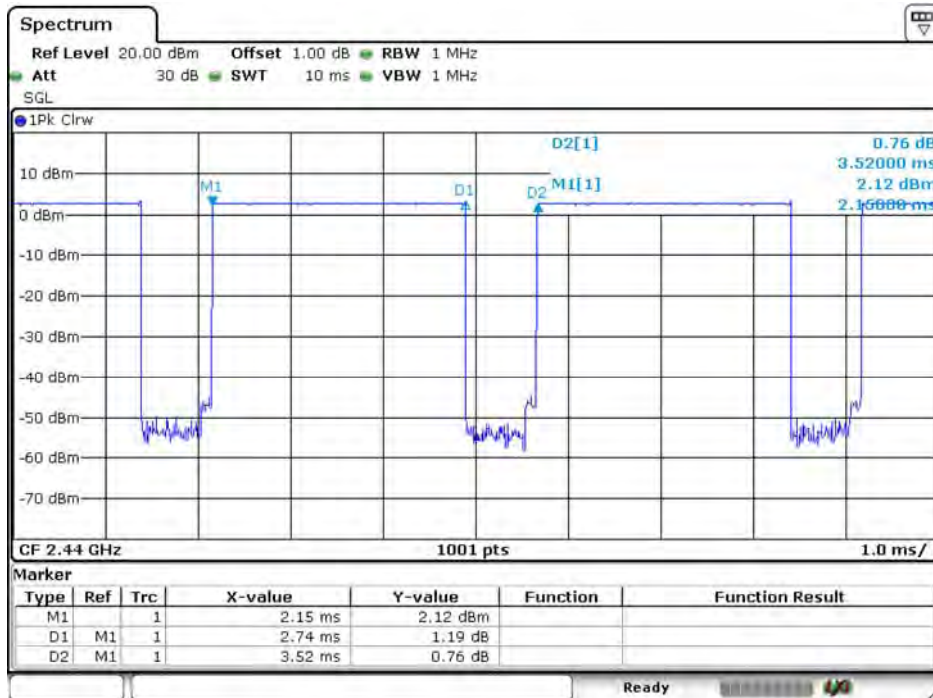
Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB) linear voltage	Duty Factor (dB) Power	1/T Minimum VBW (kHz)
1M	2.740	3.510	78.06	2.151131	1.08	0.365
2M	2.740	3.520	77.84	2.175842	1.09	0.365

1M



Date: 10.MAR.2021 13:50:13

2M



Date: 10.MAR.2021 13:44:48

## 3.2. Occupied Channel Bandwidth

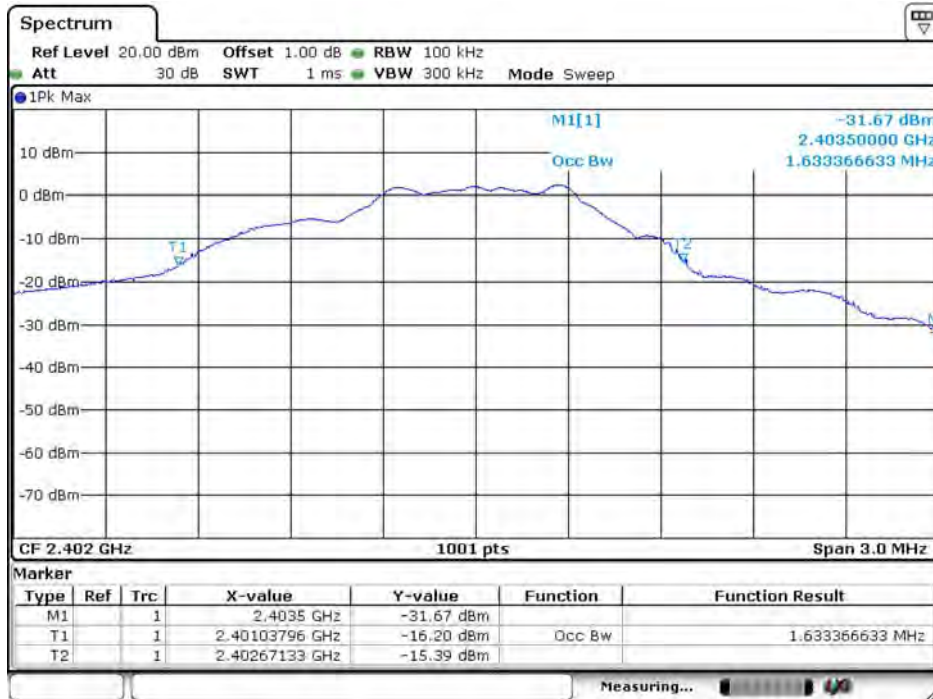
### 3.2.1. Test Result

Product	Bluetooth Low Energy 5.2 Controller Module		
Test Item	Occupied Channel Bandwidth		
Test Mode	Mode1: Transmit		
Date of Test	2021/03/10	Test Site	SR12-H
Temperature (°C)	23	Test Humidity (%)	66

1M

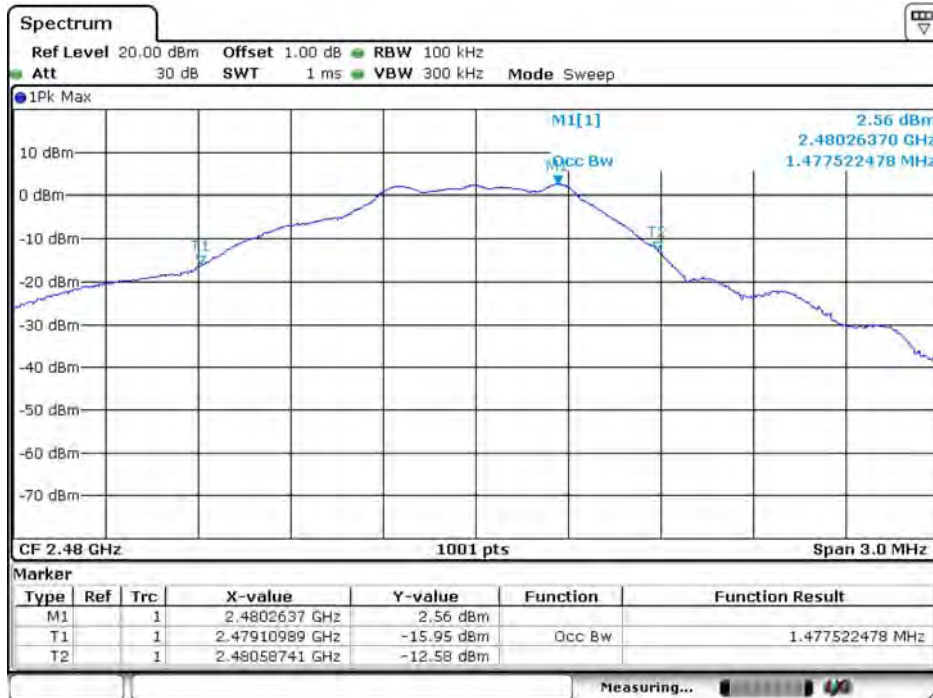
Channel	Frequency (MHz)	Reading Value (MHz)	Measure Value (MHz)	Limit (MHz)
00	2402	1.634	2401.038	> 2400.000
39	2480	1.478	2480.587	< 2483.500

### 2402MHz



Date: 16.MAR.2024 14:05:58

### 2480MHz



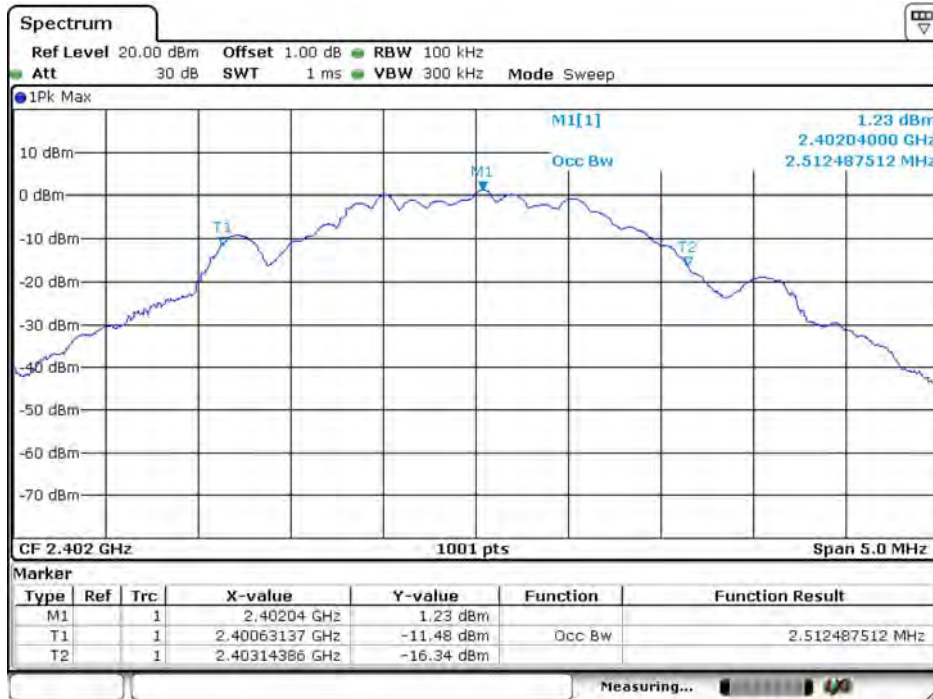
Date: 16.MAR.2024 14:03:50

Product	Bluetooth Low Energy 5.2 Controller Module		
Test Item	Occupied Channel Bandwidth		
Test Mode	Mode1: Transmit		
Date of Test	2021/03/10	Test Site	SR12-H
Temperature (°C)	23	Test Humidity (%)	66

## 2M

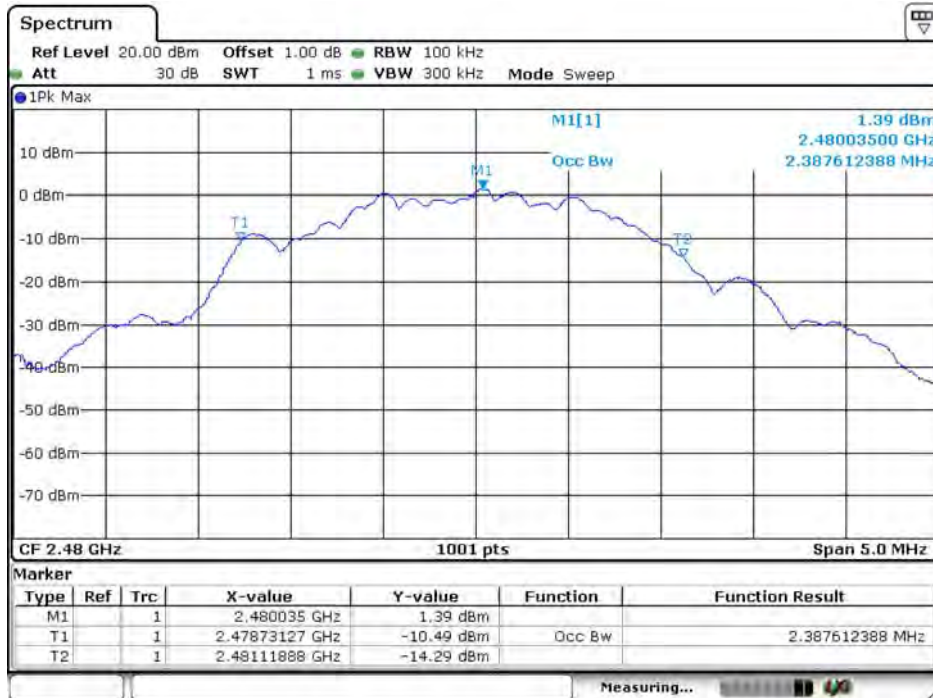
Channel	Frequency (MHz)	Reading Value (MHz)	Measure Value (MHz)	Limit (MHz)
00	2402	2.512	2400.631	>2400.000
39	2480	2.388	2481.112	<2483.500

### 2402MHz



Date: 16.MAR.2024 14:06:53

### 2480MHz



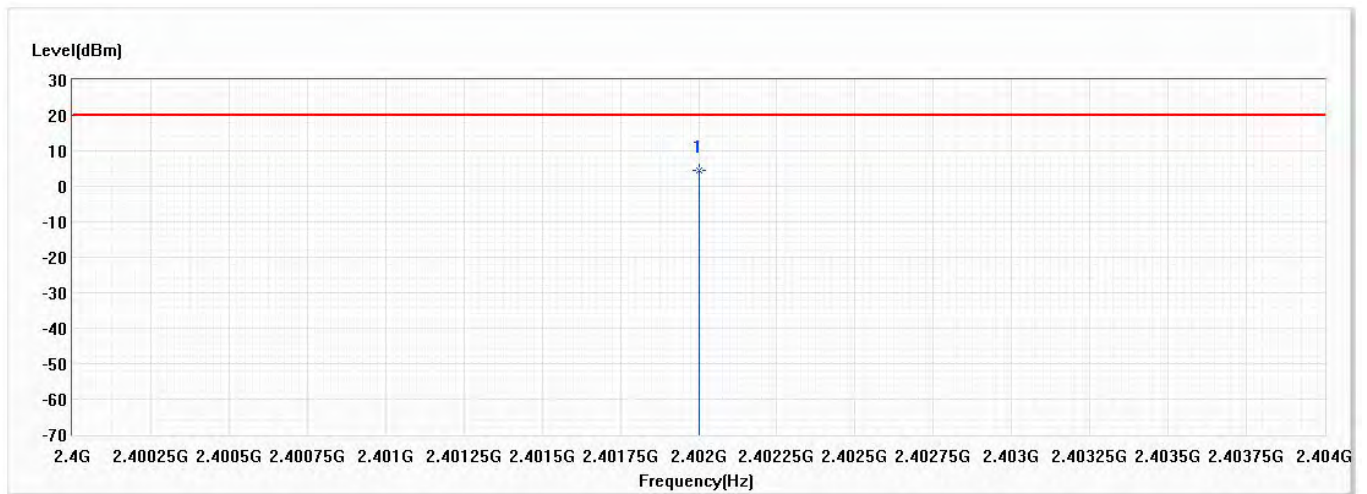
Date: 16.MAR.2024 14:07:59



### 3.3. EIRP

#### 3.3.1. Test Result

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch0, 2.402G	Humidity (%RH)	55.0

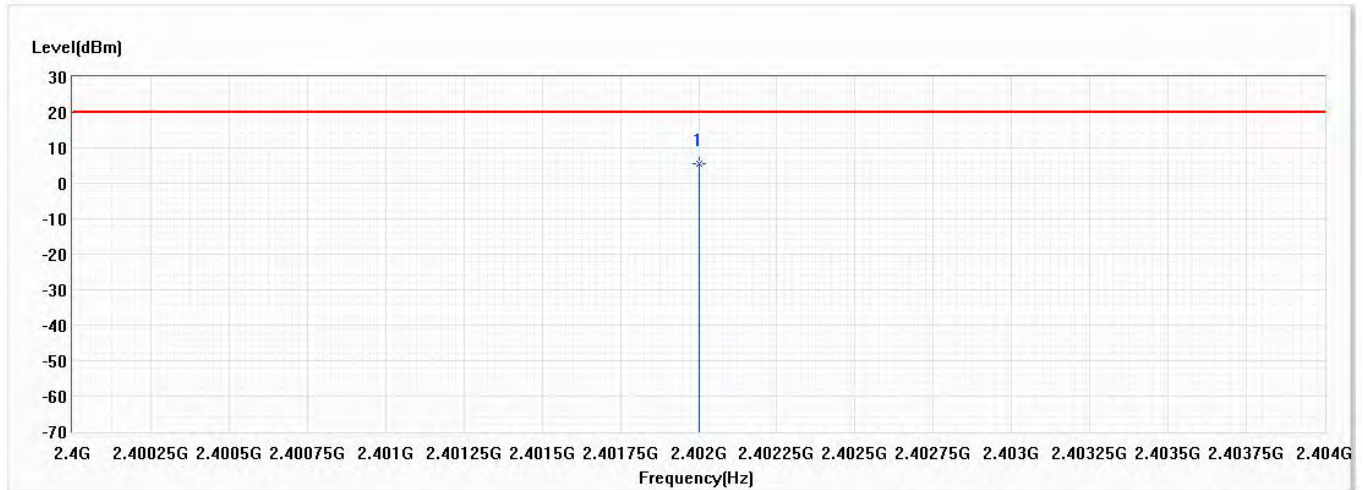


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
* 1	2402.000	4.46	20.00	-15.54	-40.69	45.15	PK

Note:

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch0, 2.402G	Humidity (%RH)	55.0

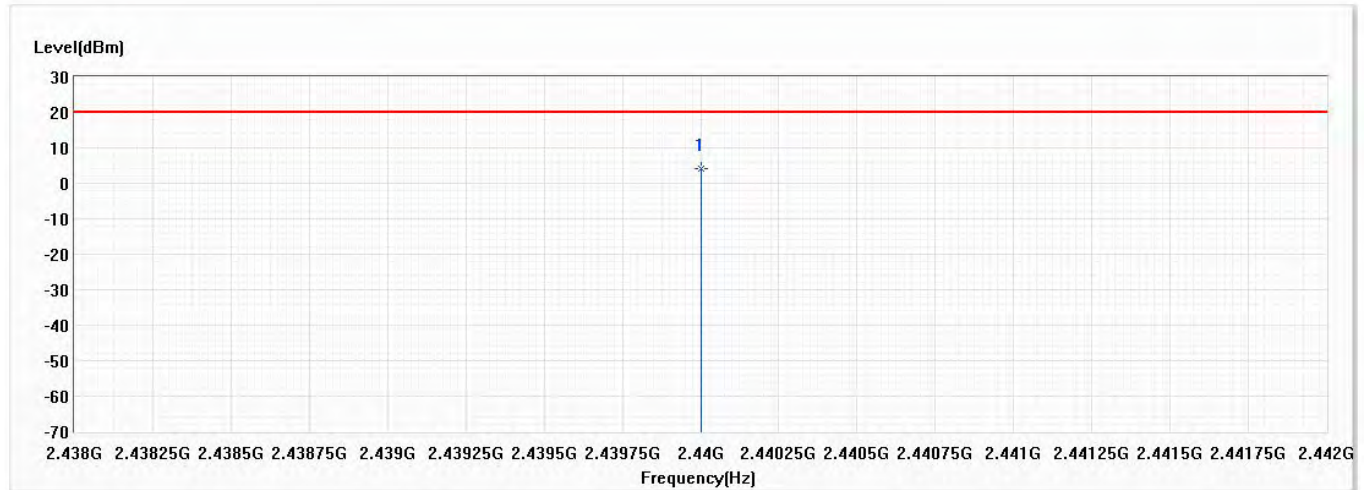


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
* 1	2402.000	5.43	20.00	-14.57	-39.98	45.41	PK

Note:

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch19, 2.44G	Humidity (%RH)	55.0

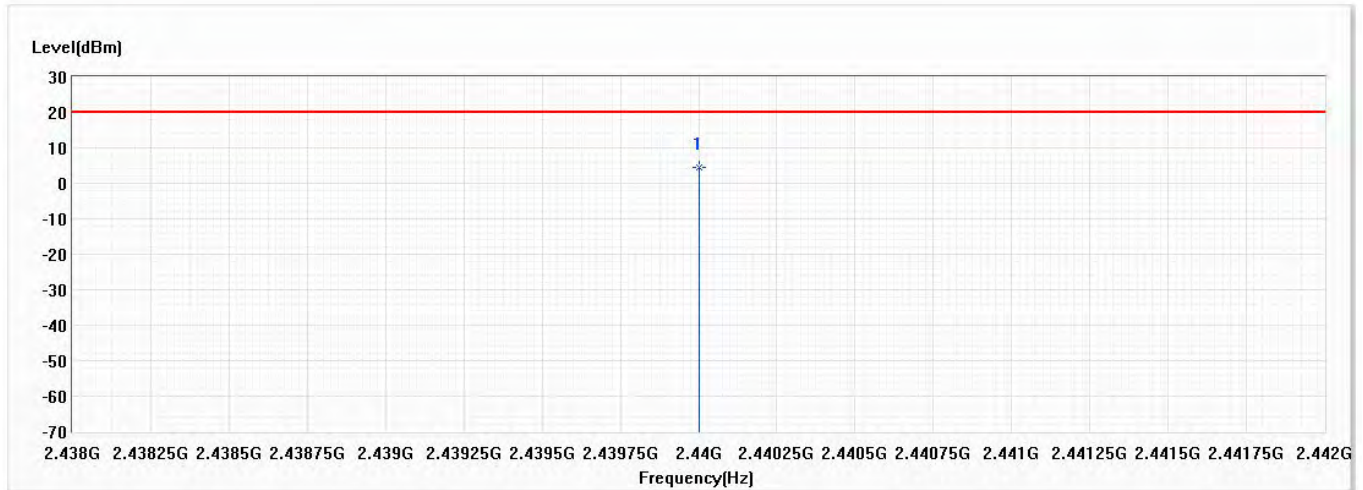


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
* 1	2440.000	4.17	20.00	-15.83	-41.12	45.29	PK

Note:

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch19, 2.44G	Humidity (%RH)	55.0



No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
* 1	2440.000	4.56	20.00	-15.44	-41.02	45.58	PK

Note:

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch39, 2.48G	Humidity (%RH)	55.0

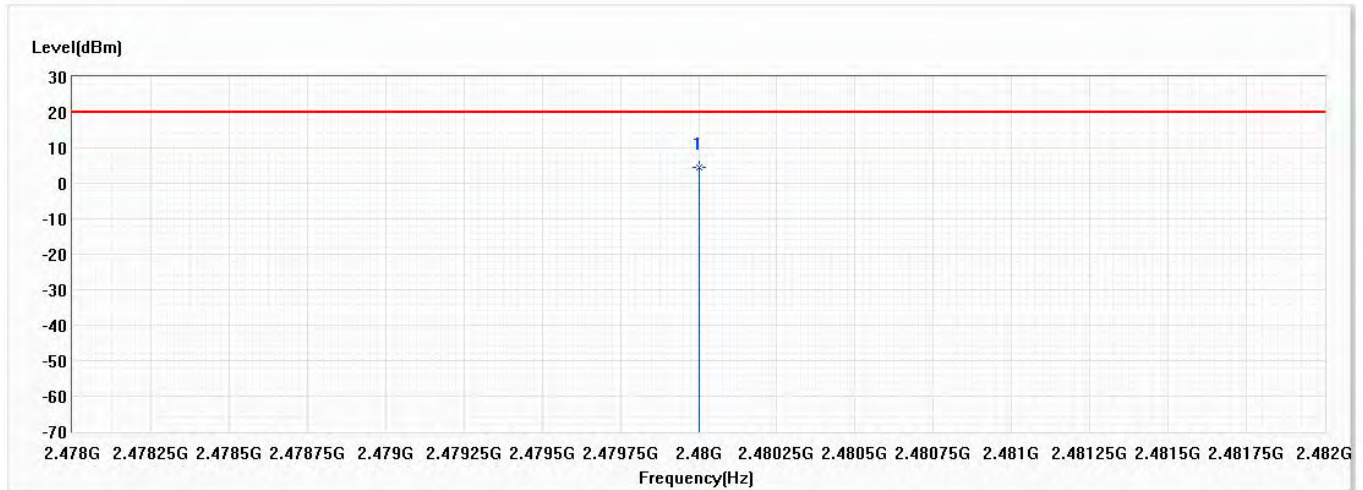


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
* 1	2480.000	4.05	20.00	-15.95	-41.39	45.44	PK

Note:

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch39, 2.48G	Humidity (%RH)	55.0



No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
* 1	2480.000	4.50	20.00	-15.50	-41.26	45.76	PK

Note:

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.



### 3.4. Maximum Spectral Power Density

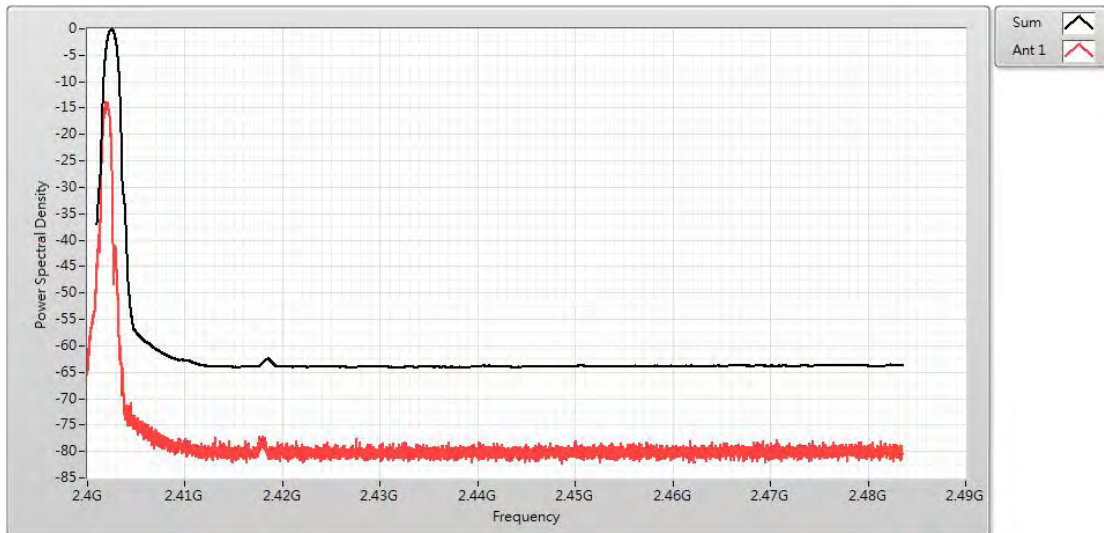
#### 3.4.1. Test Result

Product	Bluetooth Low Energy 5.2 Controller Module		
Test Item	Maximum Spectral Power Density		
Test Mode	Mode1: Transmit		
Date of Test	2021/03/10	Test Site	SR12-H
Temperature (°C)	23	Test Humidity (%)	66

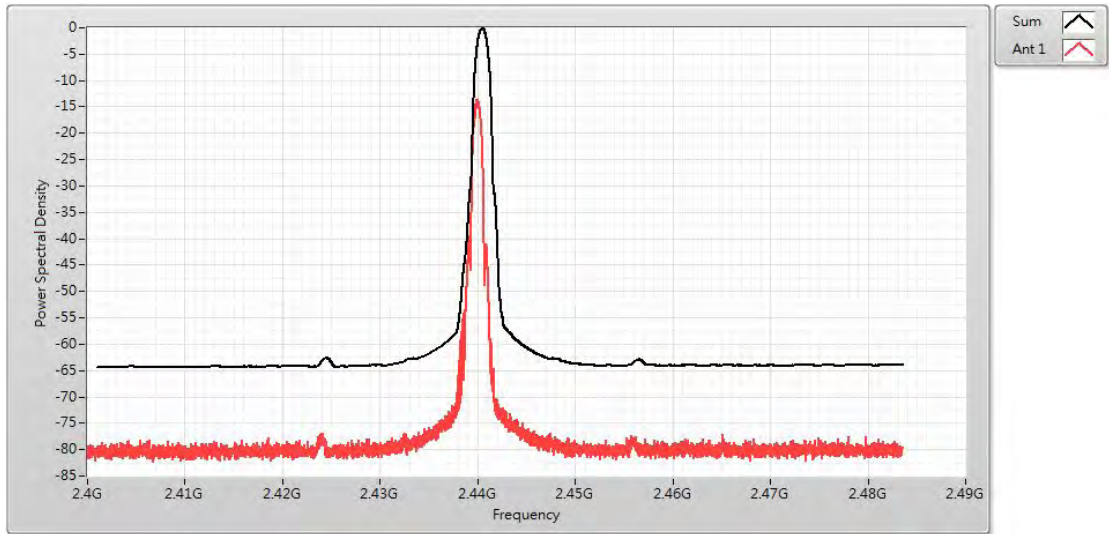
1M

Channel No.	Frequency (MHz)	Measure Value (dBm/MHz)	Limit (dBm/MHz)
00	2402	-13.780	≤ 10
19	2440	-13.520	≤ 10
39	2480	-13.670	≤ 10

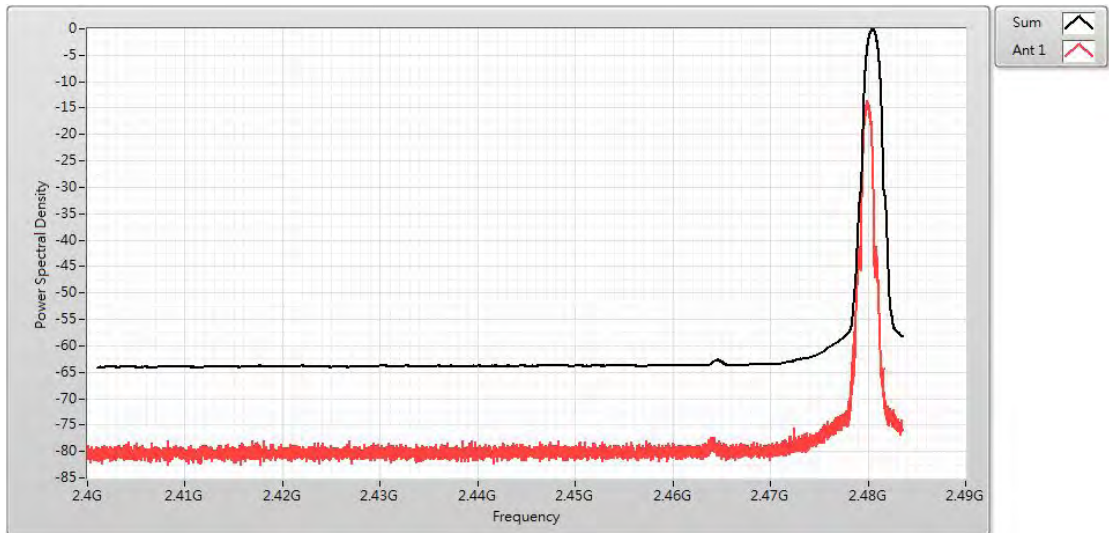
#### 2402MHz



**2440MHz**



**2480MHz**

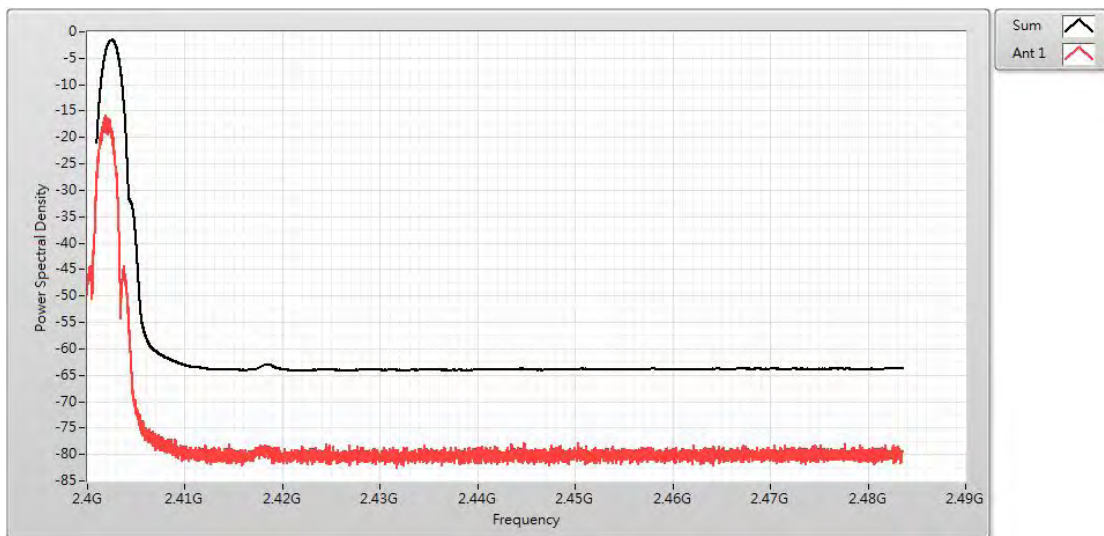


Product	Bluetooth Low Energy 5.2 Controller Module		
Test Item	Maximum Spectral Power Density		
Test Mode	Mode1: Transmit		
Date of Test	2021/03/10	Test Site	SR12-H
Temperature (°C)	23	Test Humidity (%)	66

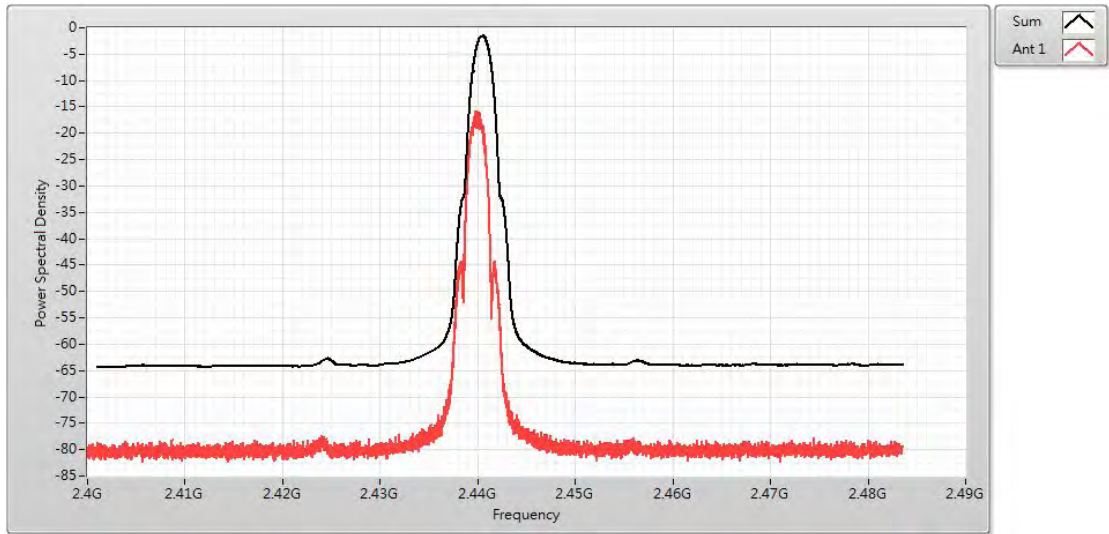
2M

Channel No.	Frequency (MHz)	Measure Value (dBm/MHz)	Limit (dBm/MHz)
00	2402	-15.870	≤ 10
19	2440	-15.730	≤ 10
39	2480	-16.160	≤ 10

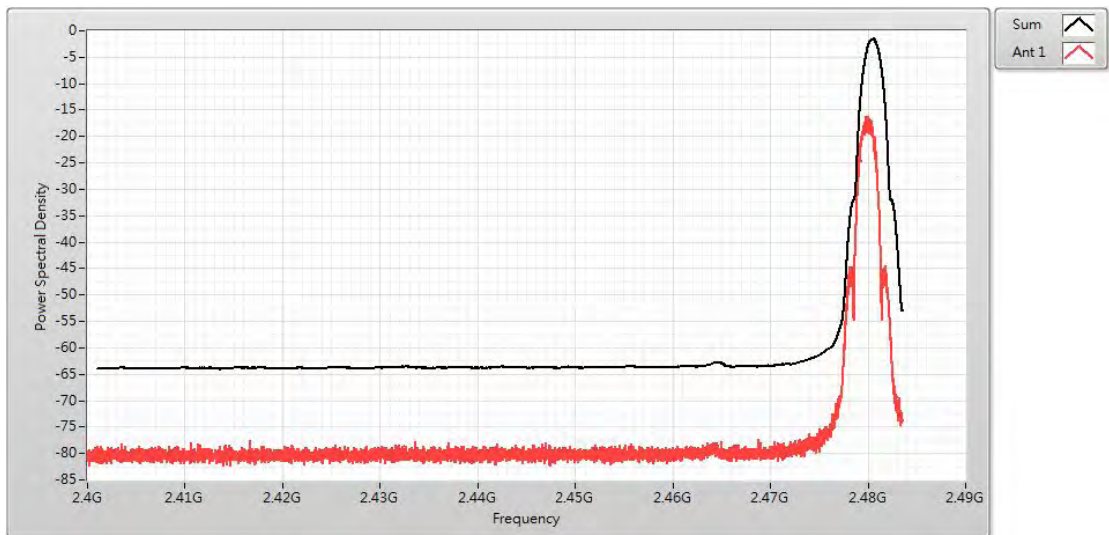
**2402MHz**



**2440MHz**



**2480MHz**

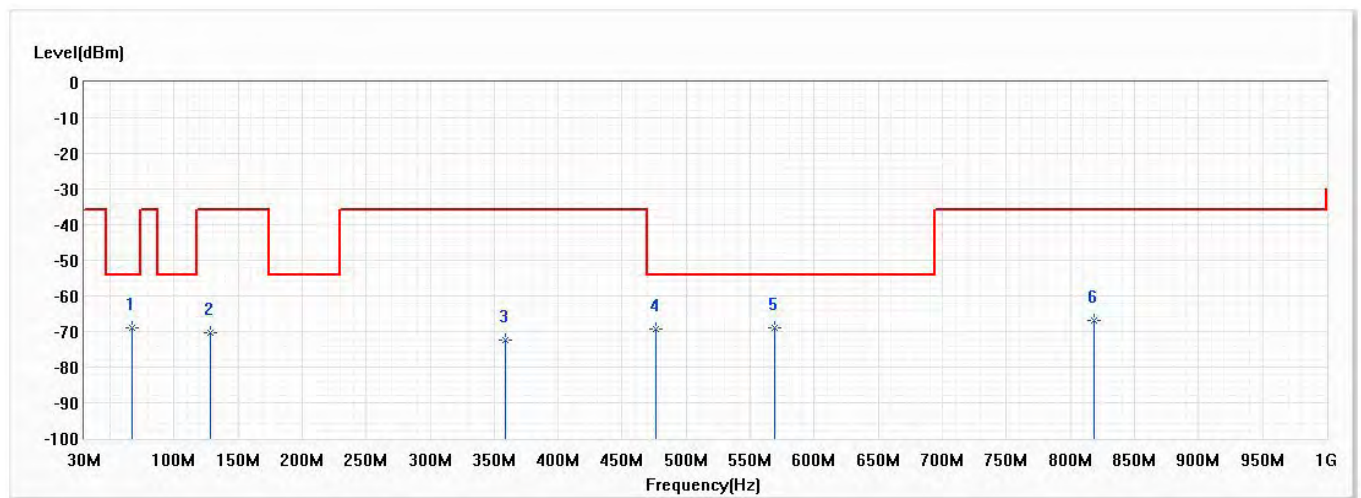


### 3.5. Transmitter Spurious emission

#### 3.5.1. Test Result

##### 30MHz-1GHz Spurious:

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch00, 2.402G,TX	Humidity (%RH)	55.0



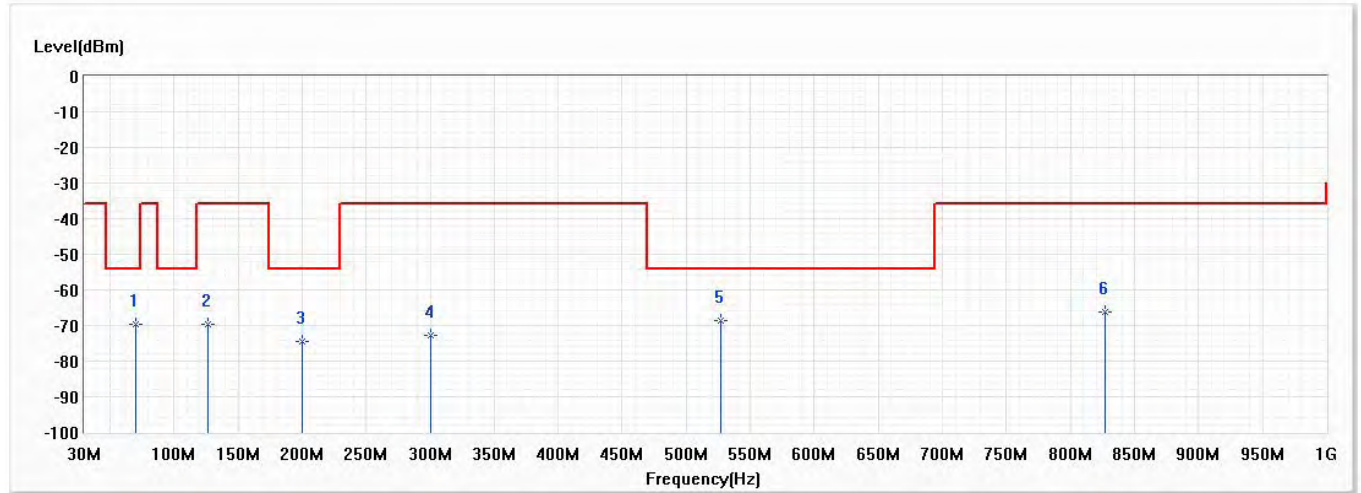
No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
* 1	67.345	-69.03	-54.00	-15.03	-56.15	-12.88	PK
2	128.455	-70.32	-36.00	-34.32	-62.64	-7.68	PK
3	358.830	-72.33	-36.00	-36.33	-66.75	-5.58	PK
4	476.200	-69.23	-54.00	-15.23	-66.86	-2.37	PK
5	568.835	-69.03	-54.00	-15.03	-67.60	-1.43	PK
6	818.610	-66.74	-36.00	-30.74	-67.70	0.96	PK

Note:

1. All reading levels is RMS value.
2. " \* ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.



Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch00, 2.402G,TX	Humidity (%RH)	55.0



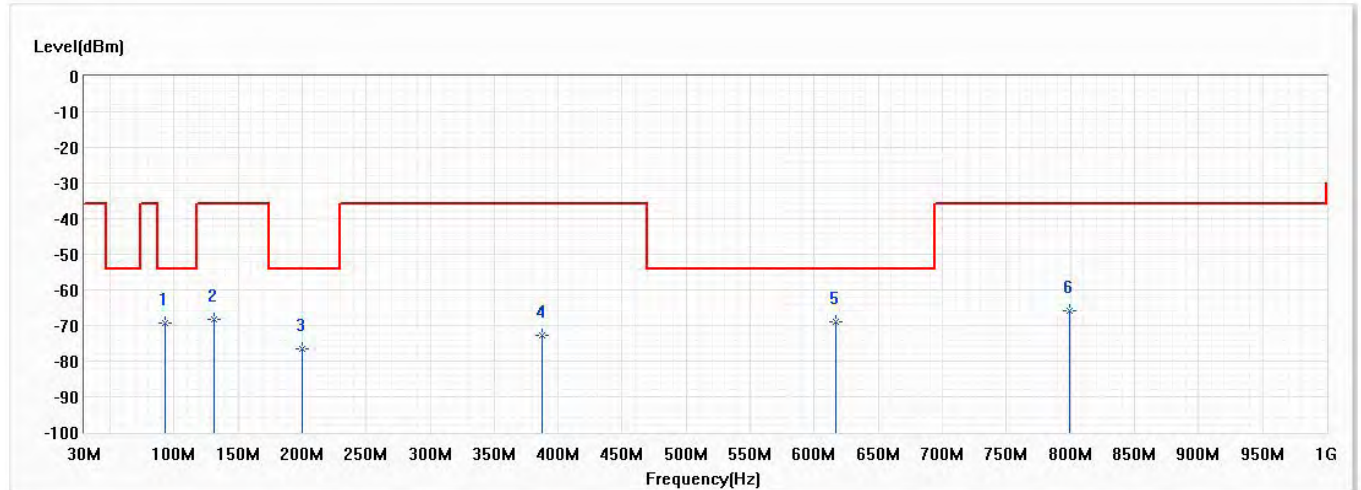
No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	69.770	-69.63	-54.00	-15.63	-57.51	-12.12	PK
2	126.515	-69.55	-36.00	-33.55	-63.56	-5.99	PK
3	199.750	-74.61	-54.00	-20.61	-64.30	-10.31	PK
4	300.145	-72.91	-36.00	-36.91	-65.30	-7.61	PK
* 5	526.640	-68.49	-54.00	-14.49	-66.72	-1.77	PK
6	827.340	-66.37	-36.00	-30.37	-66.91	0.54	PK

Note:

1. All reading levels is RMS value.
2. " \* ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.



Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch19, 2.4G,TX	Humidity (%RH)	55.0

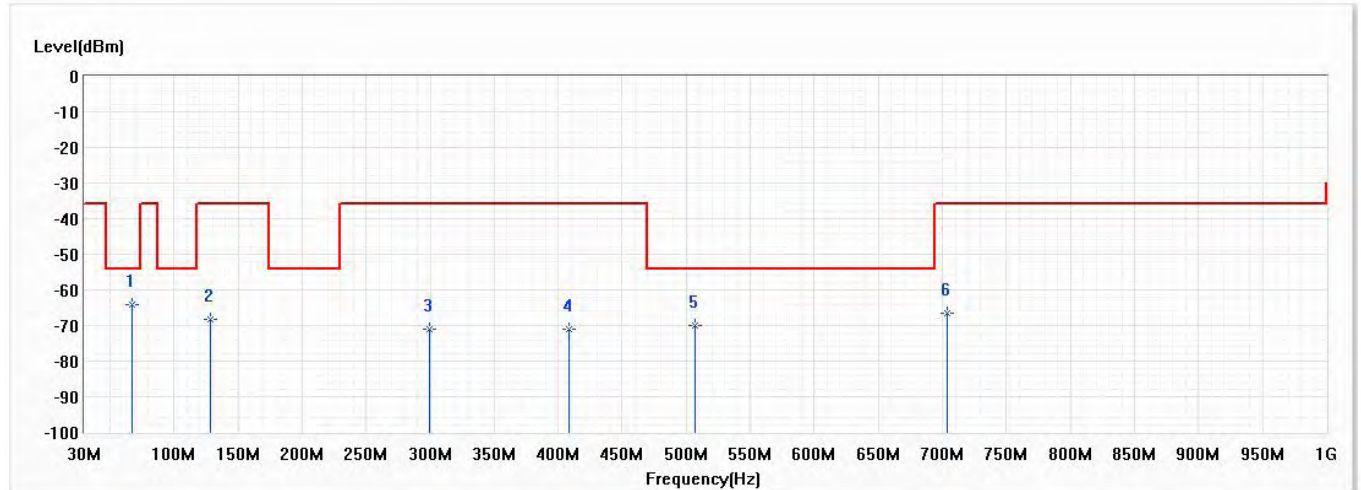


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	93.050	-69.24	-54.00	-15.24	-59.28	-9.96	PK
2	131.365	-68.34	-36.00	-32.34	-60.51	-7.83	PK
3	199.750	-76.51	-54.00	-22.51	-64.34	-12.17	PK
4	387.445	-72.80	-36.00	-36.80	-68.13	-4.67	PK
* 5	616.365	-68.86	-54.00	-14.86	-67.60	-1.26	PK
6	799.210	-66.03	-36.00	-30.03	-66.73	0.70	PK

Note:

1. All reading levels is RMS value.
2. " \* ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch19, 2.44G,TX	Humidity (%RH)	55.0

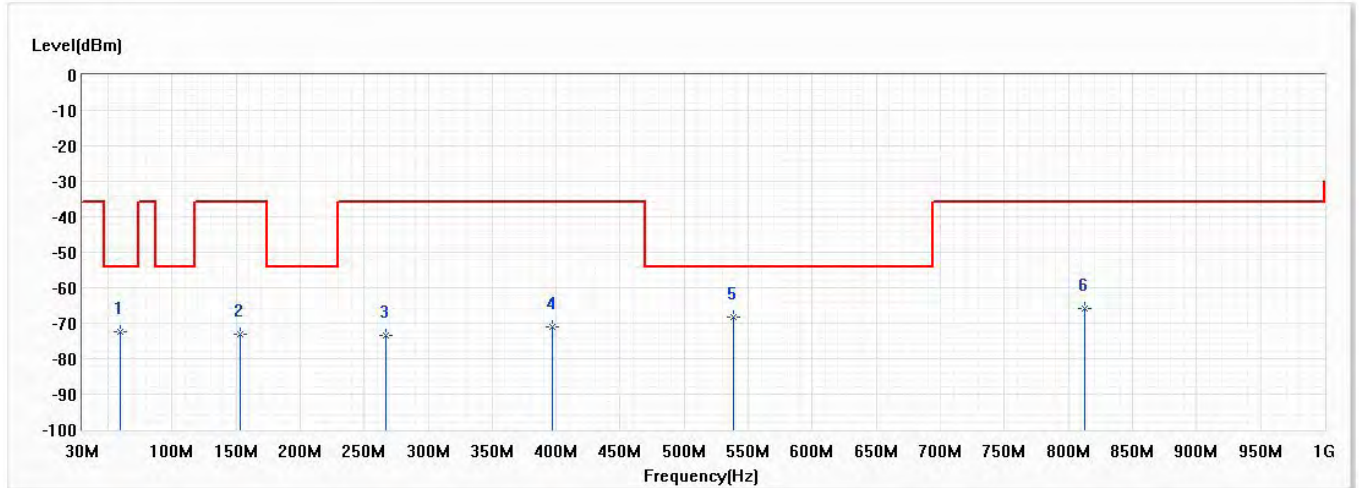


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
* 1	67.345	-64.07	-54.00	-10.07	-51.64	-12.43	PK
2	128.455	-68.17	-36.00	-32.17	-62.15	-6.02	PK
3	299.660	-71.12	-36.00	-35.12	-63.50	-7.62	PK
4	408.785	-71.02	-36.00	-35.02	-66.61	-4.41	PK
5	506.755	-70.06	-54.00	-16.06	-67.79	-2.27	PK
6	704.150	-66.48	-36.00	-30.48	-65.95	-0.53	PK

Note:

1. All reading levels is RMS value.
2. " \* ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch39, 2.48G,TX	Humidity (%RH)	55.0

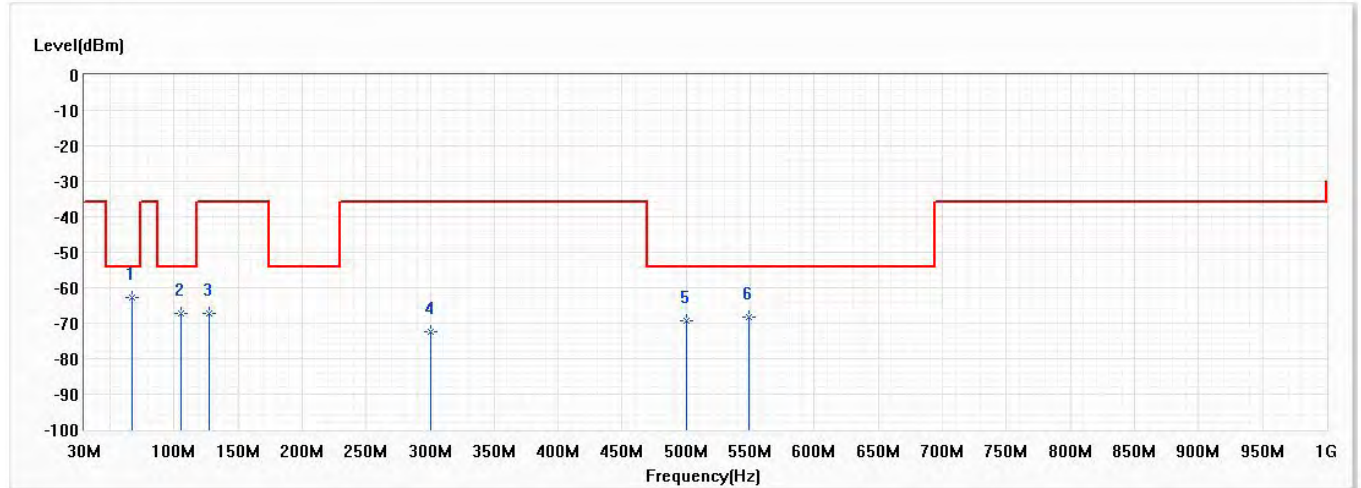


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	60.070	-72.42	-54.00	-18.42	-59.53	-12.89	PK
2	153.675	-73.03	-36.00	-37.03	-62.66	-10.37	PK
3	266.680	-73.57	-36.00	-37.57	-66.01	-7.56	PK
4	396.660	-70.88	-36.00	-34.88	-66.51	-4.37	PK
* 5	538.765	-68.22	-54.00	-14.22	-66.88	-1.34	PK
6	812.305	-65.71	-36.00	-29.71	-66.58	0.87	PK

Note:

1. All reading levels is RMS value.
2. " \* ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch39, 2.48G,TX	Humidity (%RH)	55.0



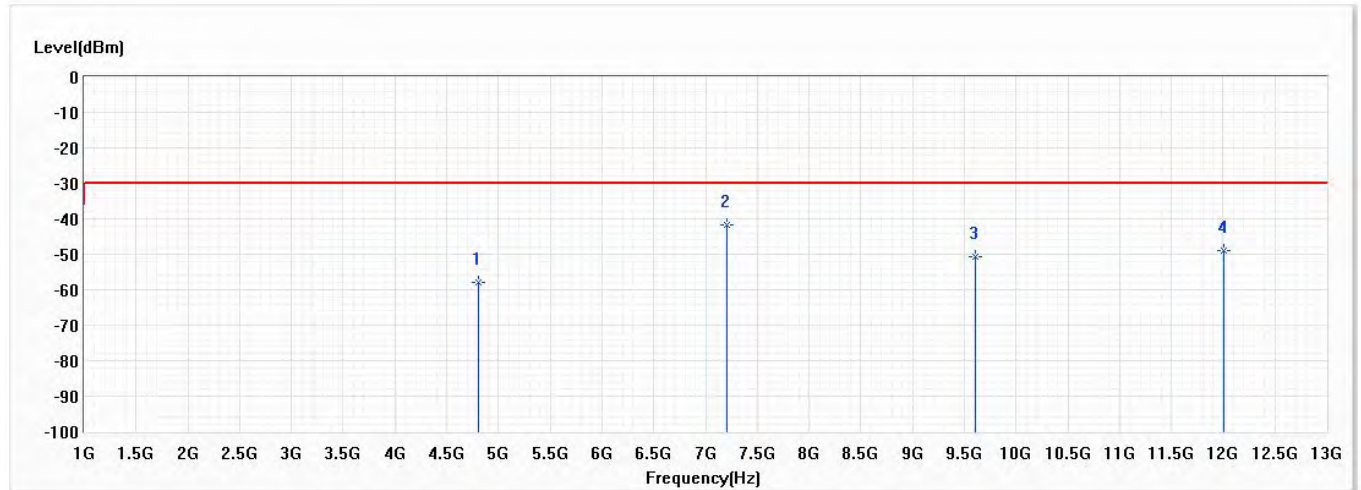
No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
* 1	67.345	-62.83	-54.00	-8.83	-50.40	-12.43	PK
2	105.175	-67.23	-54.00	-13.23	-60.38	-6.85	PK
3	127.485	-67.36	-36.00	-31.36	-61.36	-6.00	PK
4	300.145	-72.31	-36.00	-36.31	-64.70	-7.61	PK
5	499.965	-69.16	-54.00	-15.16	-66.74	-2.42	PK
6	548.465	-68.21	-54.00	-14.21	-66.98	-1.23	PK

Note:

1. All reading levels is RMS value.
2. " \* ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.

**Above 1GHz Spurious:**

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch00, 2.402G	Humidity (%RH)	55.0

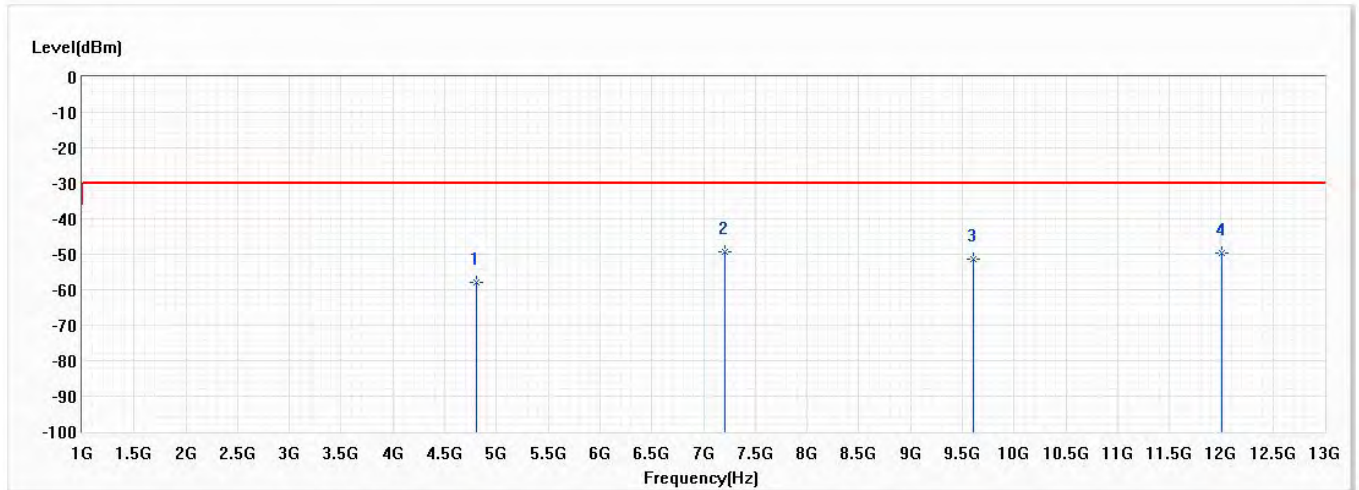


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	4804.000	-57.78	-30.00	-27.78	-66.75	8.97	PK
* 2	7206.000	-41.88	-30.00	-11.88	-58.04	16.16	PK
3	9608.000	-50.67	-30.00	-20.67	-71.10	20.43	PK
4	12010.000	-49.11	-30.00	-19.11	-71.00	21.89	PK

**Note:**

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch00, 2.402G	Humidity (%RH)	55.0



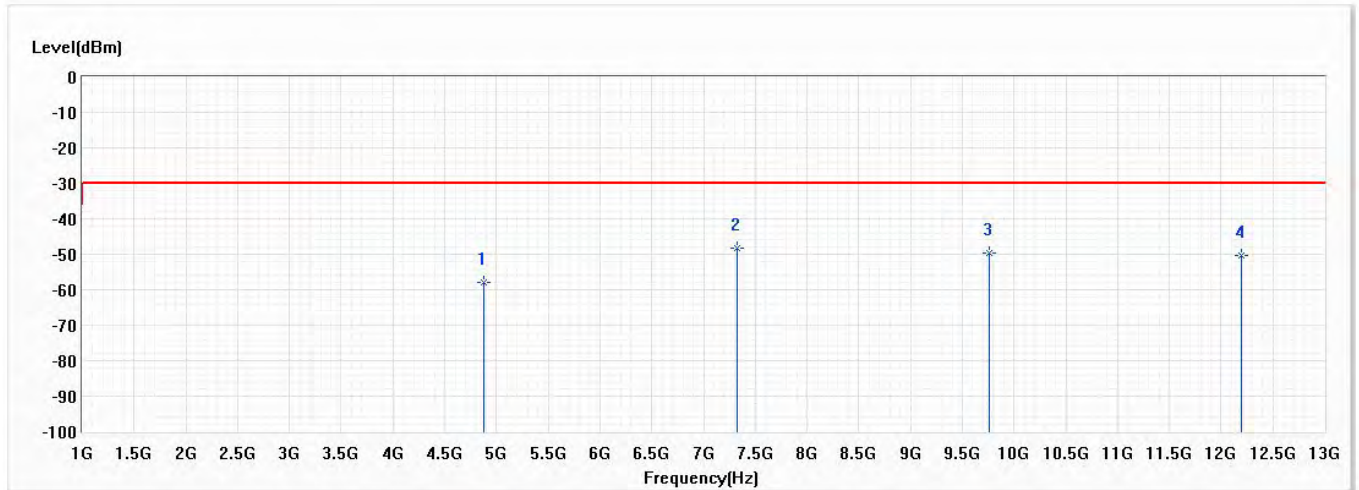
No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	4804.000	-58.06	-30.00	-28.06	-67.23	9.17	PK
* 2	7206.000	-49.41	-30.00	-19.41	-64.99	15.58	PK
3	9608.000	-51.47	-30.00	-21.47	-72.00	20.53	PK
4	12010.000	-49.81	-30.00	-19.81	-71.69	21.88	PK

Note:

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.



Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch19, 2.44G	Humidity (%RH)	55.0

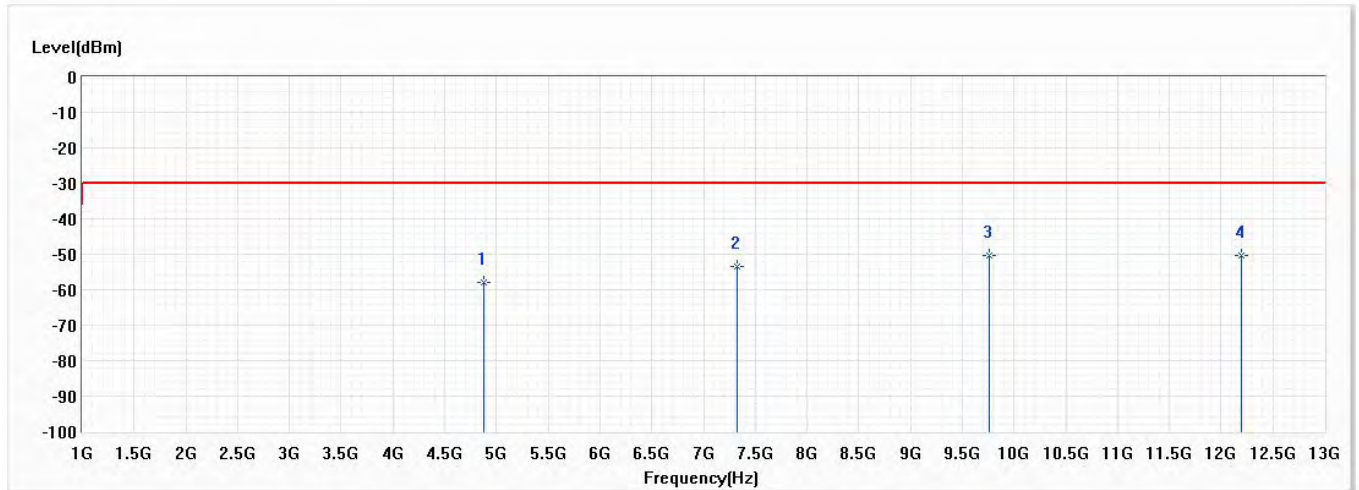


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	4880.000	-57.77	-30.00	-27.77	-66.94	9.17	PK
* 2	7320.000	-48.43	-30.00	-18.43	-65.25	16.82	PK
3	9760.000	-49.70	-30.00	-19.70	-70.66	20.96	PK
4	12200.000	-50.25	-30.00	-20.25	-72.05	21.80	PK

Note:

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch19, 2.44G	Humidity (%RH)	55.0

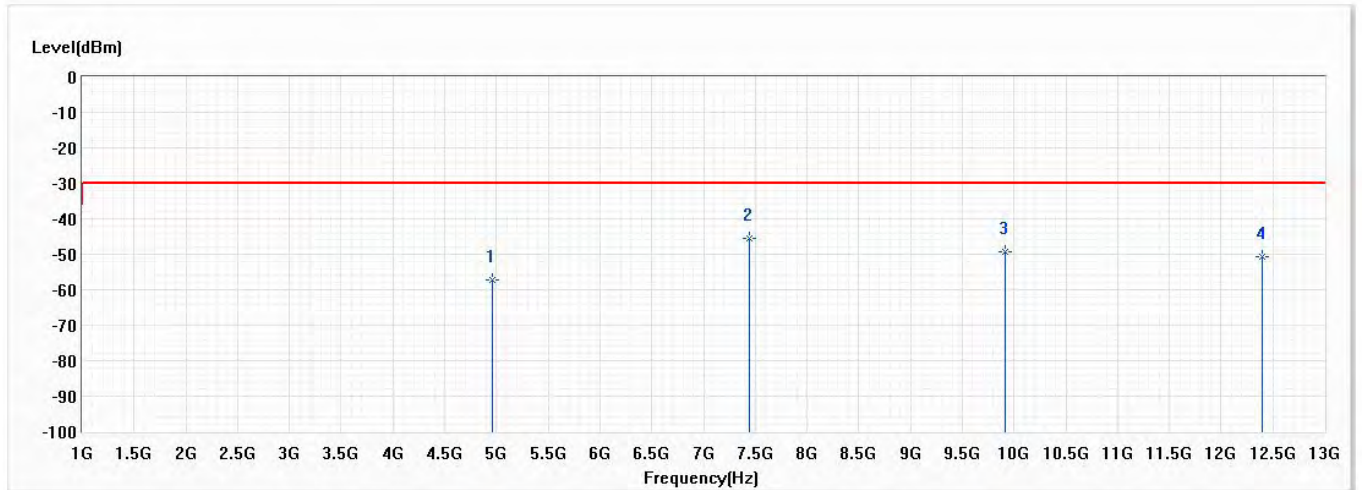


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	4880.000	-57.87	-30.00	-27.87	-67.22	9.35	PK
2	7320.000	-53.31	-30.00	-23.31	-69.53	16.22	PK
* 3	9760.000	-50.26	-30.00	-20.26	-71.21	20.95	PK
4	12200.000	-50.39	-30.00	-20.39	-72.40	22.01	PK

Note:

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR=3,Ch39, 2.48G	Humidity (%RH)	55.0

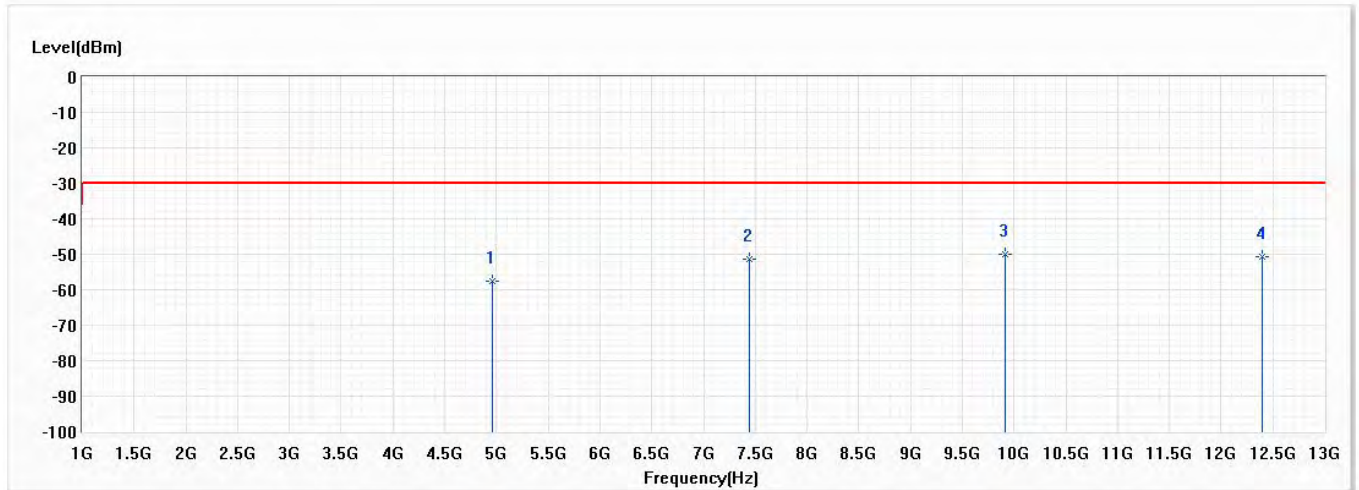


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	4960.000	-57.15	-30.00	-27.15	-66.52	9.37	PK
* 2	7440.000	-45.59	-30.00	-15.59	-63.11	17.52	PK
3	9920.000	-49.43	-30.00	-19.43	-70.95	21.52	PK
4	12400.000	-50.80	-30.00	-20.80	-72.51	21.71	PK

Note:

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 1: Transmit	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	20.1
Test Condition	Y-axis, un-modulation, PWR,Ch39, 2.48G	Humidity (%RH)	55.0



No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	4960.000	-57.54	-30.00	-27.54	-67.08	9.54	PK
2	7440.000	-51.40	-30.00	-21.40	-68.29	16.89	PK
* 3	9920.000	-49.88	-30.00	-19.88	-71.27	21.39	PK
4	12400.000	-50.71	-30.00	-20.71	-72.86	22.15	PK

Note:

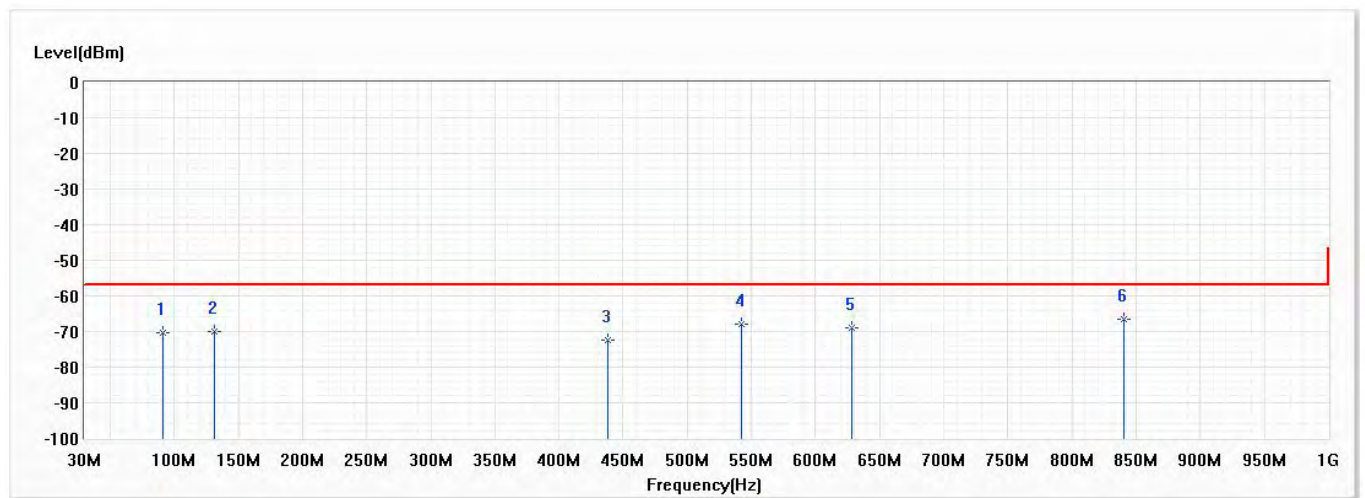
1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.

### 3.6. Receiver Spurious emission

#### 3.6.1. Test Result

##### 30MHz-1GHz Spurious:

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 2: Receiver	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	20.1
Test Condition	Y-axis,Ch00, 2.402G,RX	Humidity (%RH)	55.0

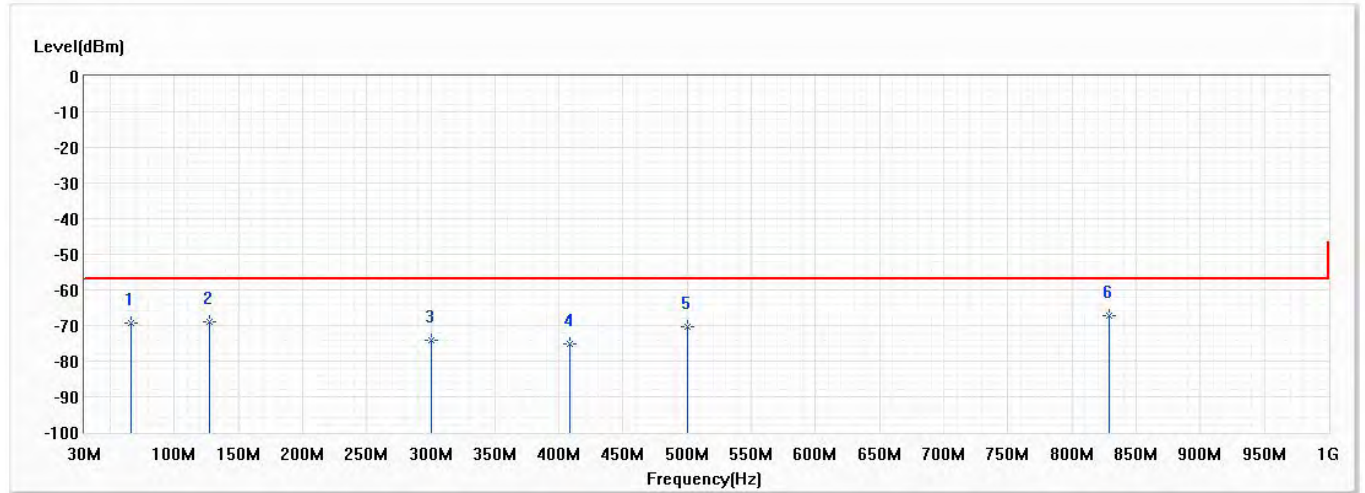


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	91.595	-70.46	-57.00	-13.46	-60.35	-10.11	PK
2	131.365	-69.87	-57.00	-12.87	-62.04	-7.83	PK
3	437.885	-72.49	-57.00	-15.49	-69.05	-3.44	PK
4	542.160	-68.01	-57.00	-11.01	-66.69	-1.32	PK
5	628.490	-68.86	-57.00	-11.86	-67.94	-0.92	PK
* 6	840.435	-66.59	-57.00	-9.59	-67.86	1.27	PK

Note:

1. All Reading Levels is RMS value.
2. " \* ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 2: Receiver	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	20.1
Test Condition	Y-axis,Ch39, 2.402G,RX	Humidity (%RH)	55.0



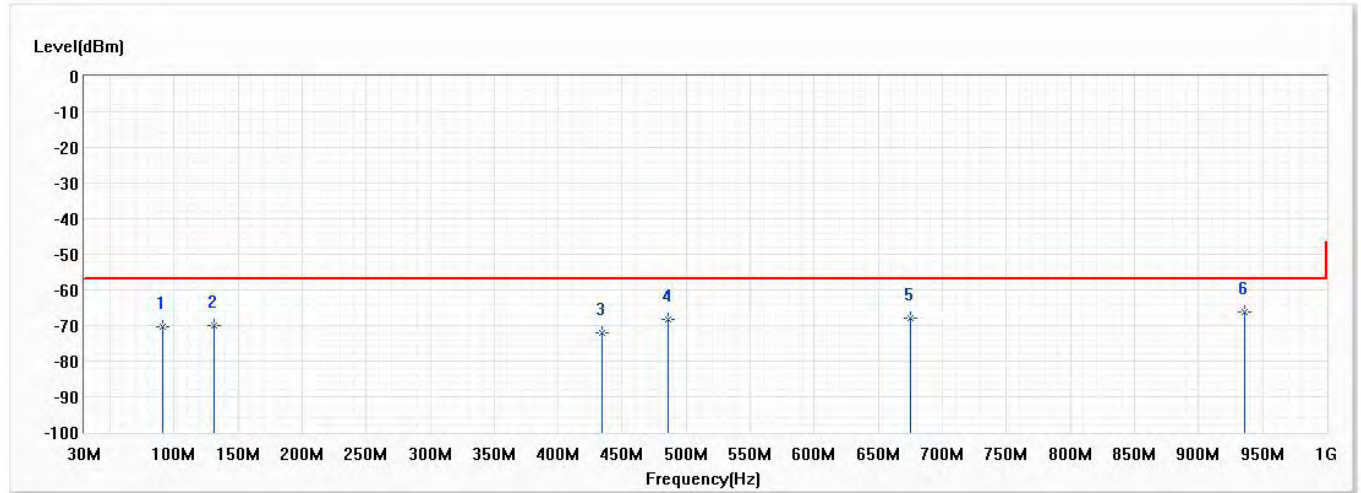
No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	66.375	-69.16	-57.00	-12.16	-56.60	-12.56	RMS
2	127.485	-68.96	-57.00	-11.96	-62.96	-6.00	RMS
3	300.145	-74.21	-57.00	-17.21	-66.60	-7.61	RMS
4	408.300	-75.00	-57.00	-18.00	-70.58	-4.42	RMS
5	499.965	-70.25	-57.00	-13.25	-67.83	-2.42	RMS
* 6	829.280	-67.30	-57.00	-10.30	-67.87	0.57	RMS

Note:

1. All Reading Levels is RMS value.
2. " \* ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.



Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 2: Receiver	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	20.1
Test Condition	Y-axis,Ch19, 2.44G,RX	Humidity (%RH)	55.0

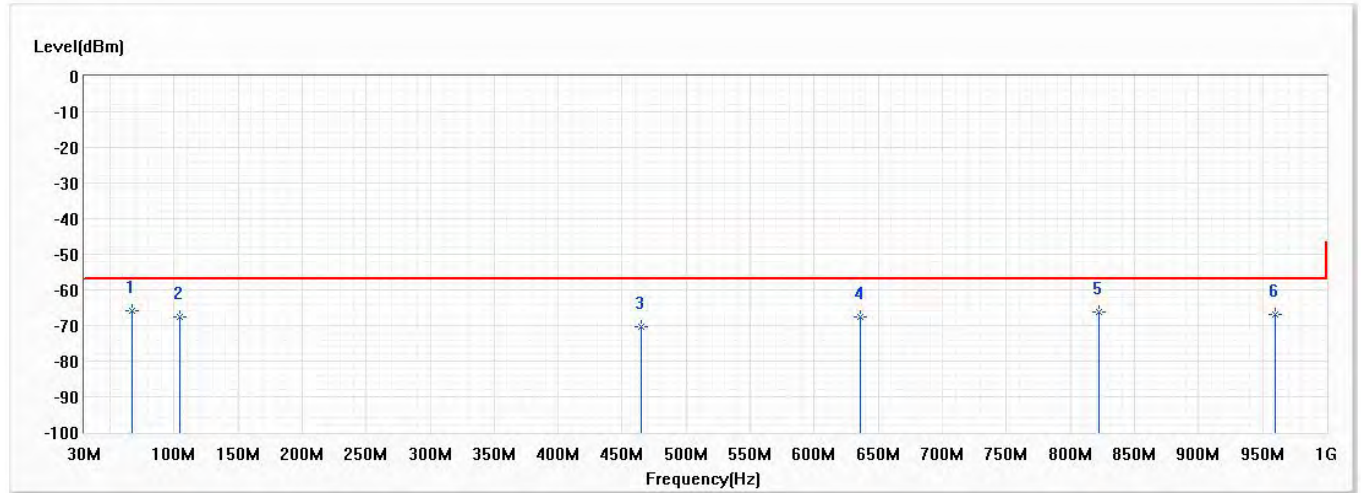


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	91.595	-70.46	-57.00	-13.46	-60.35	-10.11	PK
2	131.365	-69.87	-57.00	-12.87	-62.04	-7.83	PK
3	434.490	-72.23	-57.00	-15.23	-68.72	-3.51	PK
4	485.415	-68.23	-57.00	-11.23	-66.14	-2.09	PK
5	675.535	-68.01	-57.00	-11.01	-67.77	-0.24	PK
* 6	935.980	-66.08	-57.00	-9.08	-67.35	1.27	PK

Note:

1. All Reading Levels is RMS value.
2. " \* ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 2: Receiver	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	20.1
Test Condition	Y-axis,Ch19, 2.44G,RX	Humidity (%RH)	55.0

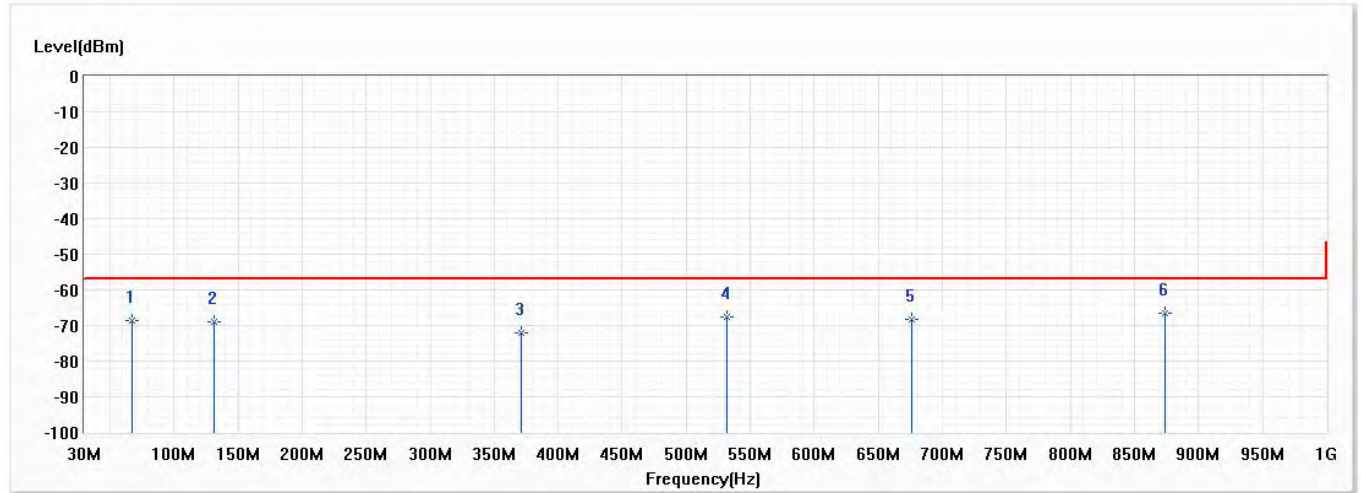


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
* 1	67.345	-65.75	-57.00	-8.75	-53.32	-12.43	PK
2	104.690	-67.60	-57.00	-10.60	-60.66	-6.94	PK
3	465.045	-70.22	-57.00	-13.22	-67.18	-3.04	PK
4	635.765	-67.54	-57.00	-10.54	-66.73	-0.81	PK
5	822.490	-66.23	-57.00	-9.23	-66.72	0.49	PK
6	959.745	-66.81	-57.00	-9.81	-68.03	1.22	PK

Note:

1. All Reading Levels is RMS value.
2. " \* ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 2: Receiver	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	20.1
Test Condition	Y-axis,Ch39, 2.48G,RX	Humidity (%RH)	55.0

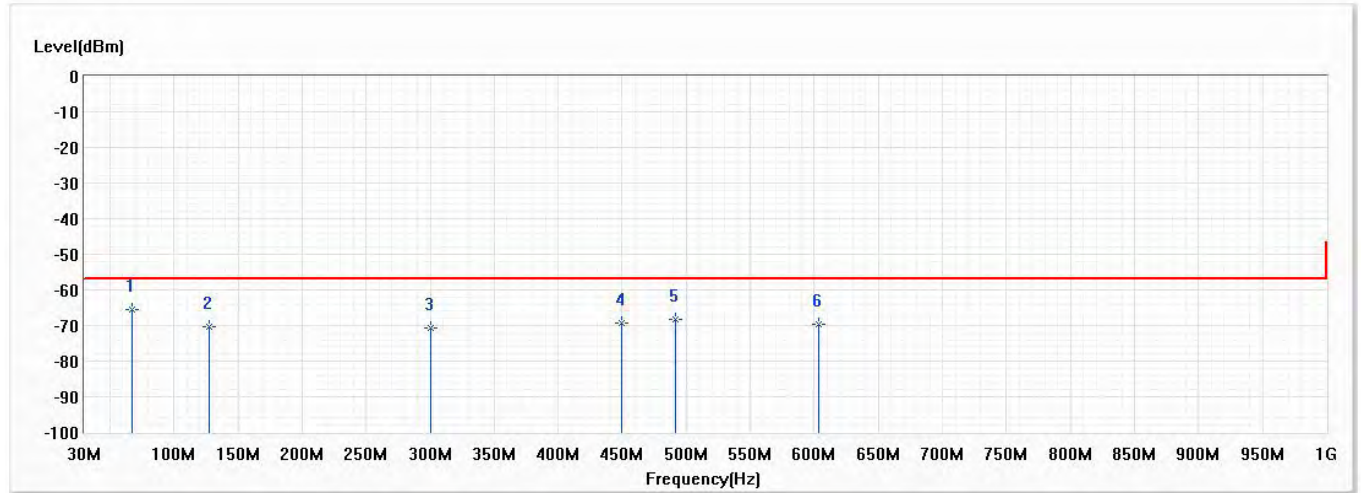


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	67.345	-68.57	-57.00	-11.57	-55.69	-12.88	PK
2	131.365	-68.98	-57.00	-11.98	-61.15	-7.83	PK
3	371.440	-72.16	-57.00	-15.16	-66.98	-5.18	PK
4	531.490	-67.67	-57.00	-10.67	-66.26	-1.41	PK
5	676.020	-68.43	-57.00	-11.43	-68.20	-0.23	PK
* 6	873.900	-66.55	-57.00	-9.55	-67.64	1.09	PK

Note:

1. All Reading Levels is RMS value.
2. " \* ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 2: Receiver	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	20.1
Test Condition	Y-axis,Ch39, 2.48G,RX	Humidity (%RH)	55.0



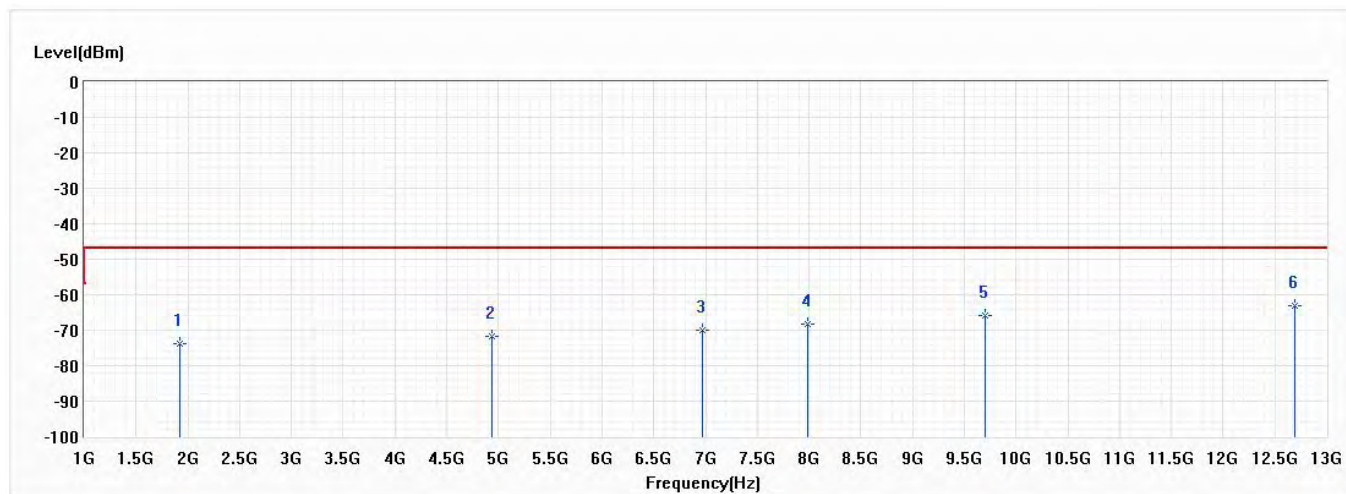
No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
* 1	67.345	-65.41	-57.00	-8.41	-52.98	-12.43	PK
2	127.485	-70.51	-57.00	-13.51	-64.51	-6.00	PK
3	300.145	-70.53	-57.00	-13.53	-62.92	-7.61	PK
4	449.525	-69.38	-57.00	-12.38	-66.07	-3.31	PK
5	491.720	-68.26	-57.00	-11.26	-65.69	-2.57	PK
6	603.270	-69.71	-57.00	-12.71	-69.02	-0.69	PK

Note:

1. All Reading Levels is RMS value.
2. " \* ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.

**Above 1GHz Spurious:**

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 2: Receiver	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	20.1
Test Condition	Y-axis, Ch19, 2.402G, RX	Humidity (%RH)	55.0

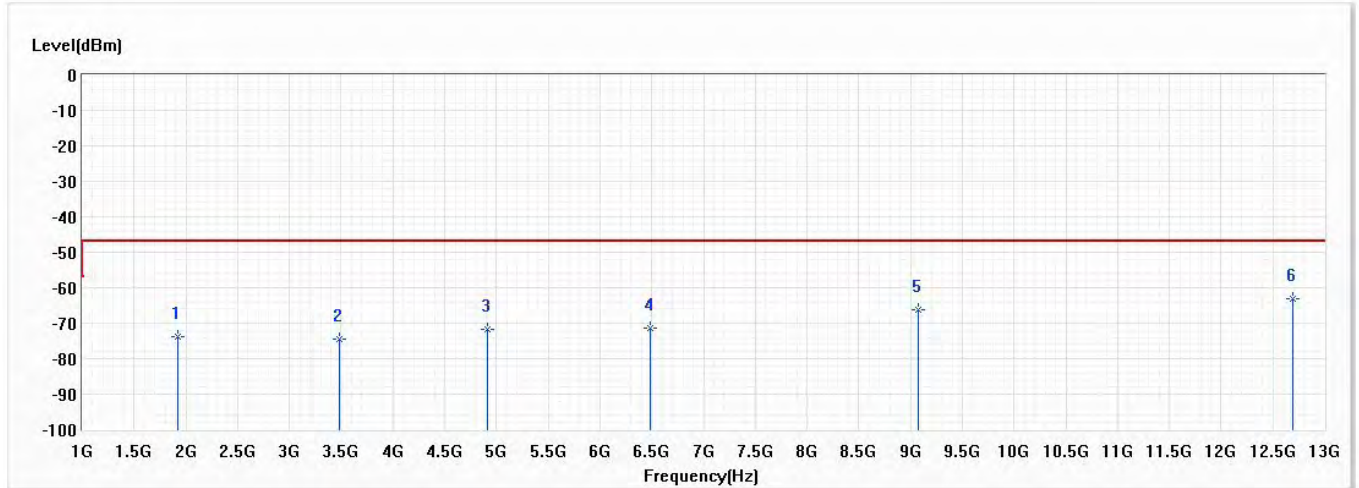


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	1918.000	-73.95	-47.00	-26.95	-61.56	-12.39	PK
2	4936.000	-71.75	-47.00	-24.75	-68.40	-3.35	PK
3	6976.000	-69.84	-47.00	-22.84	-68.85	-0.99	PK
4	7984.000	-68.23	-47.00	-21.23	-70.86	2.63	PK
5	9706.000	-65.93	-47.00	-18.93	-72.33	6.40	PK
* 6	12694.000	-62.94	-47.00	-15.94	-70.99	8.05	PK

**Note:**

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 2: Receiver	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	20.1
Test Condition	Y-axis,Ch19, 2.402G,RX	Humidity (%RH)	55.0



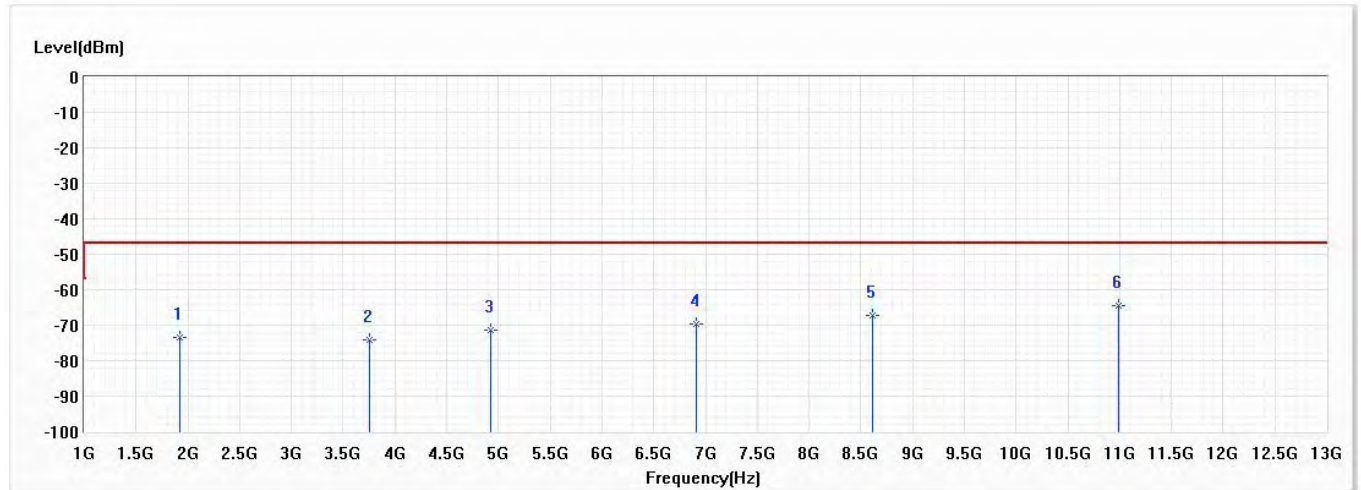
No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	1918.000	-73.95	-47.00	-26.95	-61.75	-12.20	PK
2	3478.000	-74.60	-47.00	-27.60	-67.90	-6.70	PK
3	4912.000	-71.80	-47.00	-24.80	-67.68	-4.12	PK
4	6490.000	-71.37	-47.00	-24.37	-68.31	-3.06	PK
5	9070.000	-66.12	-47.00	-19.12	-71.78	5.66	PK
* 6	12694.000	-62.94	-47.00	-15.94	-71.14	8.20	PK

Note:

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.



Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 2: Receiver	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	20.1
Test Condition	Y-axis,Ch19, 2.44G,RX	Humidity (%RH)	55.0

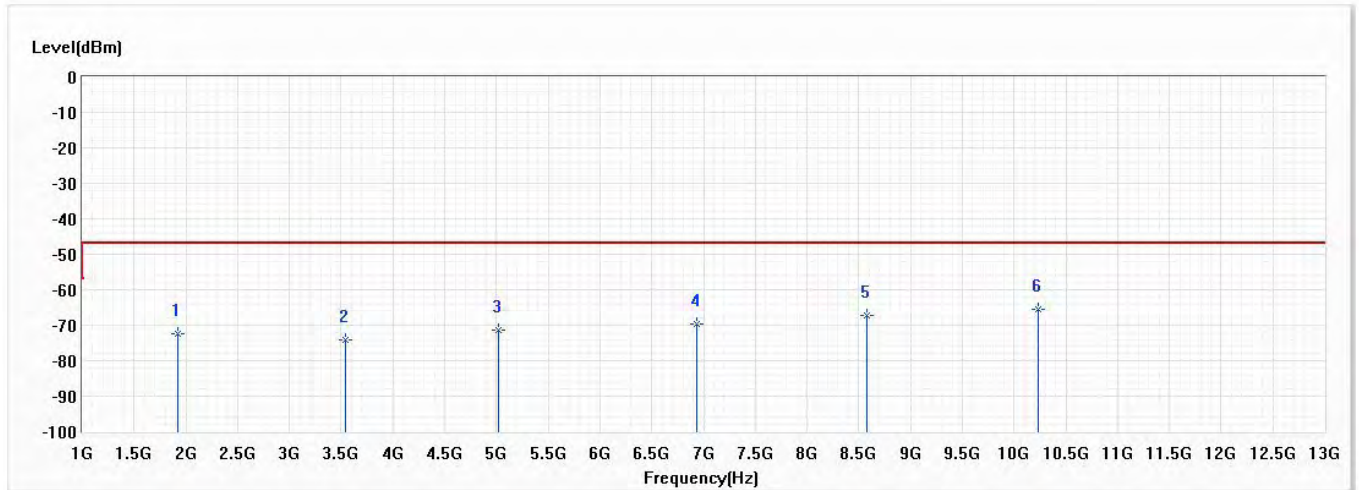


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	1918.000	-73.31	-47.00	-26.31	-60.92	-12.39	PK
2	3754.000	-74.21	-47.00	-27.21	-67.18	-7.03	PK
3	4924.000	-71.53	-47.00	-24.53	-68.16	-3.37	PK
4	6910.000	-69.56	-47.00	-22.56	-68.41	-1.15	PK
5	8614.000	-67.33	-47.00	-20.33	-71.80	4.47	PK
* 6	10990.000	-64.41	-47.00	-17.41	-72.90	8.49	PK

Note:

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 2: Receiver	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	20.1
Test Condition	Y-axis,Ch19, 2.44G,RX	Humidity (%RH)	55.0

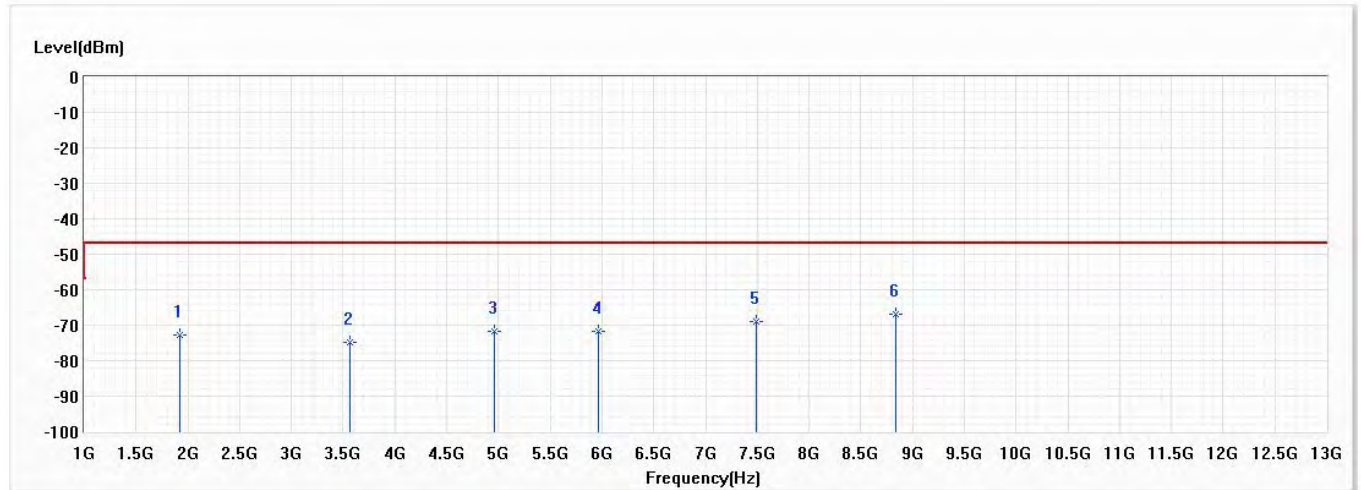


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	1918.000	-72.30	-47.00	-25.30	-60.10	-12.20	PK
2	3544.000	-74.18	-47.00	-27.18	-67.53	-6.65	PK
3	5020.000	-71.55	-47.00	-24.55	-67.43	-4.12	PK
4	6934.000	-69.53	-47.00	-22.53	-68.78	-0.75	PK
5	8578.000	-67.22	-47.00	-20.22	-71.94	4.72	PK
* 6	10228.000	-65.50	-47.00	-18.50	-73.17	7.67	PK

Note:

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 2: Receiver	Engineer	Scott Chang
Polarity	Horizontal	Temperature (°C)	20.1
Test Condition	Y-axis,Ch39, 2.48G,RX	Humidity (%RH)	55.0

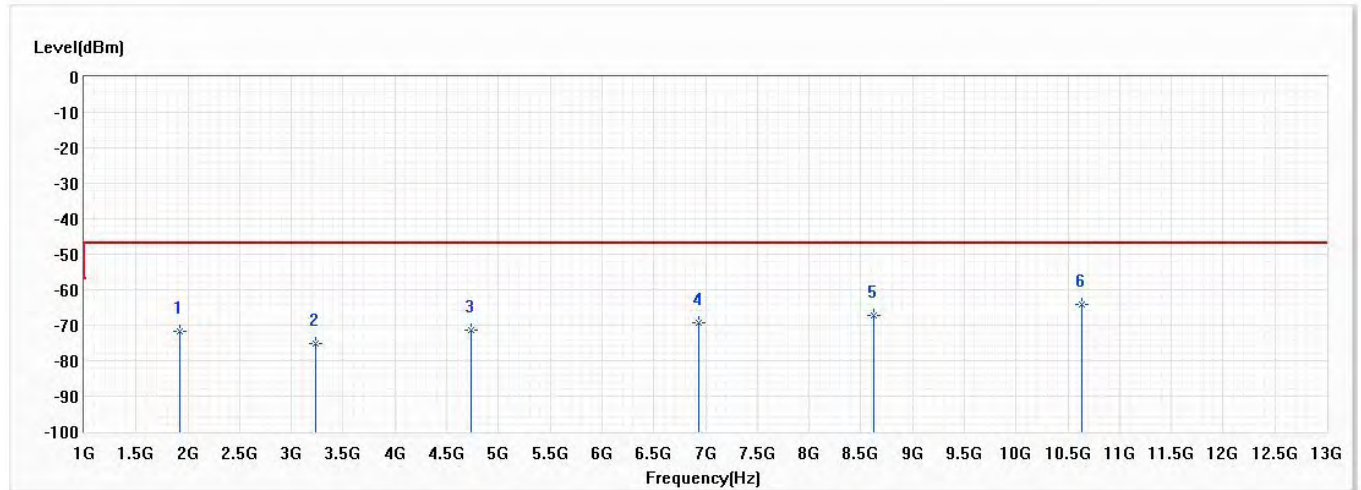


No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	1918.000	-72.62	-47.00	-25.62	-60.23	-12.39	PK
2	3568.000	-74.85	-47.00	-27.85	-68.13	-6.72	PK
3	4960.000	-71.59	-47.00	-24.59	-68.30	-3.29	PK
4	5968.000	-71.88	-47.00	-24.88	-69.32	-2.56	PK
5	7492.000	-69.06	-47.00	-22.06	-71.00	1.94	PK
* 6	8842.000	-66.76	-47.00	-19.76	-72.11	5.35	PK

Note:

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.

Model No	BM7701-00-1	Site	CB3-H
Test Voltage	DC 3V	Test Date	2021/3/3
Test Mode	Mode 2: Receiver	Engineer	Scott Chang
Polarity	Vertical	Temperature (°C)	20.1
Test Condition	Y-axis,Ch39, 2.48G,RX	Humidity (%RH)	55.0



No	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Reading Level (dBm)	Correct Factor (dB)	Detector Type
1	1918.000	-71.67	-47.00	-24.67	-59.47	-12.20	PK
2	3238.000	-75.32	-47.00	-28.32	-67.62	-7.70	PK
3	4732.000	-71.52	-47.00	-24.52	-67.33	-4.19	PK
4	6934.000	-69.45	-47.00	-22.45	-68.70	-0.75	PK
5	8626.000	-67.09	-47.00	-20.09	-71.92	4.83	PK
* 6	10630.000	-64.10	-47.00	-17.10	-72.37	8.27	PK

Note:

1. All reading levels is Peak value.
2. “ \* ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission above 13GHz were not included is because their levels are too low.

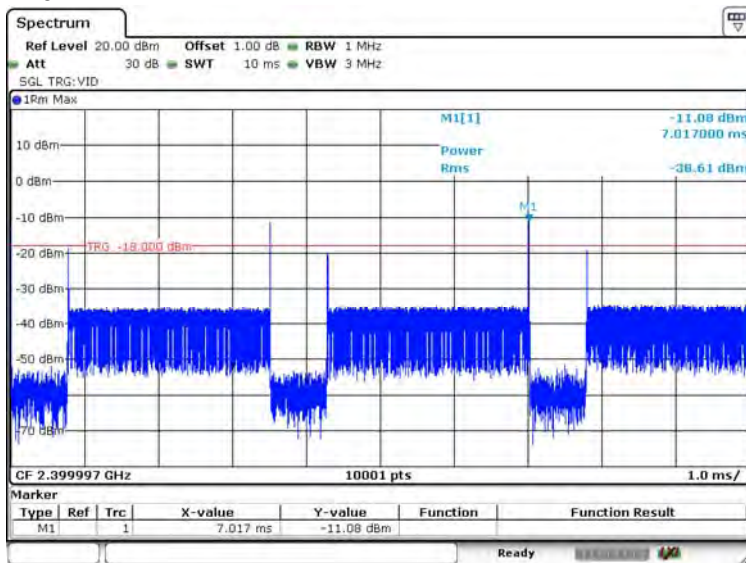
### 3.7. Transmitter unwanted emission in the out of band

#### 3.7.1. Test Result

Product	Bluetooth Low Energy 5.2 Controller Module		
Test Item	Transmitter unwanted emission in the out of band		
Test Mode	Mode1: Transmit		
Date of Test	2021/03/10	Test Site	SR12-H
Temperature (°C)	23	Test Humidity (%)	66

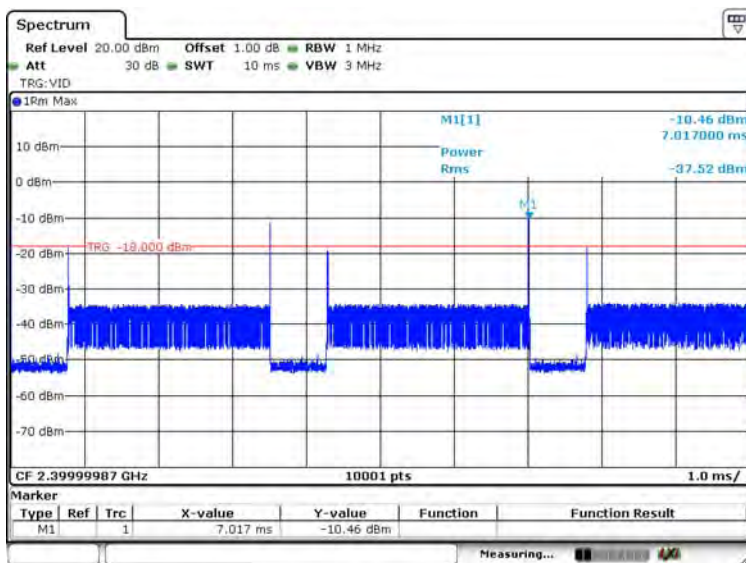
#### Time Domain

##### 2402 MHz 1M



Date: 10.MAR.2021 15:24:37

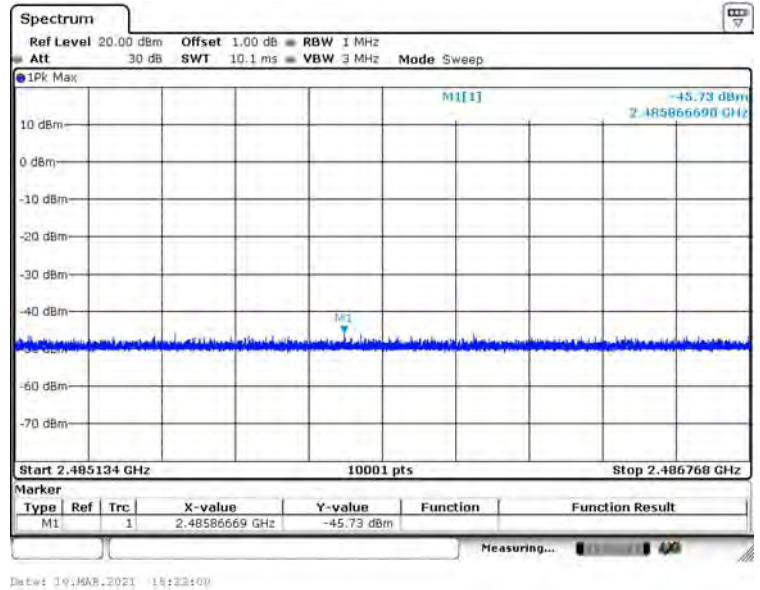
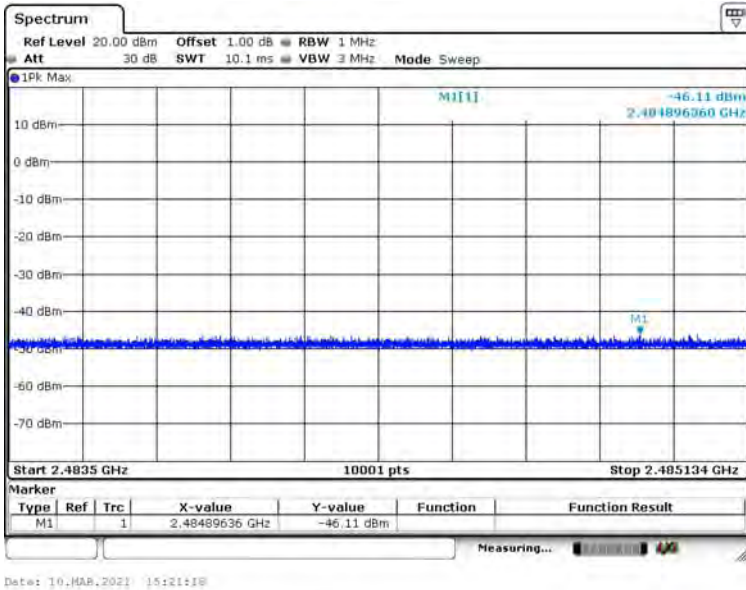
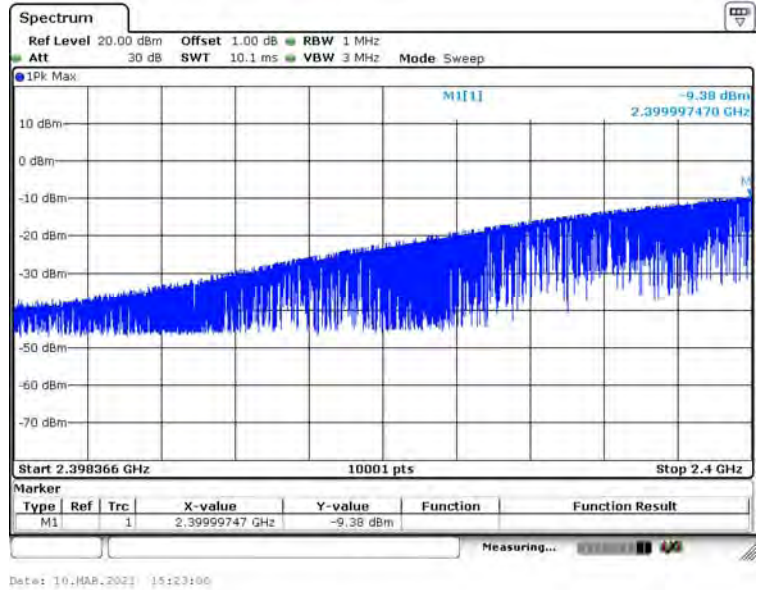
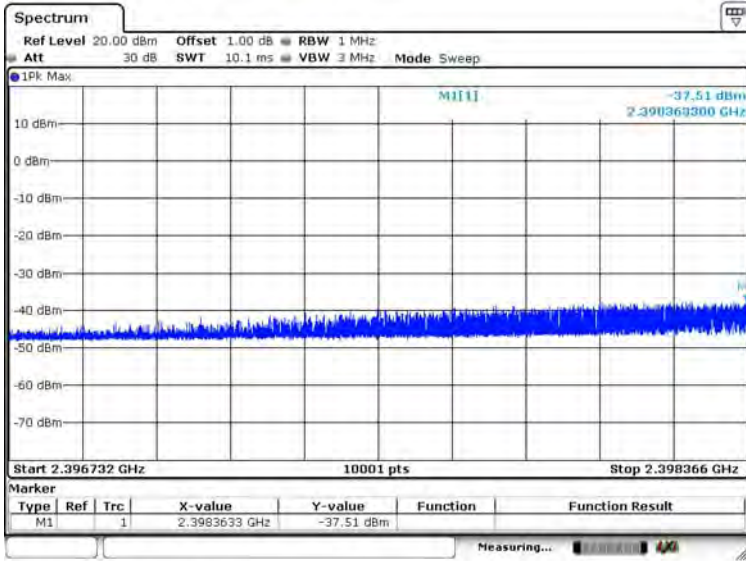
##### 2402 MHz 2M



Date: 10.MAR.2021 15:03:58

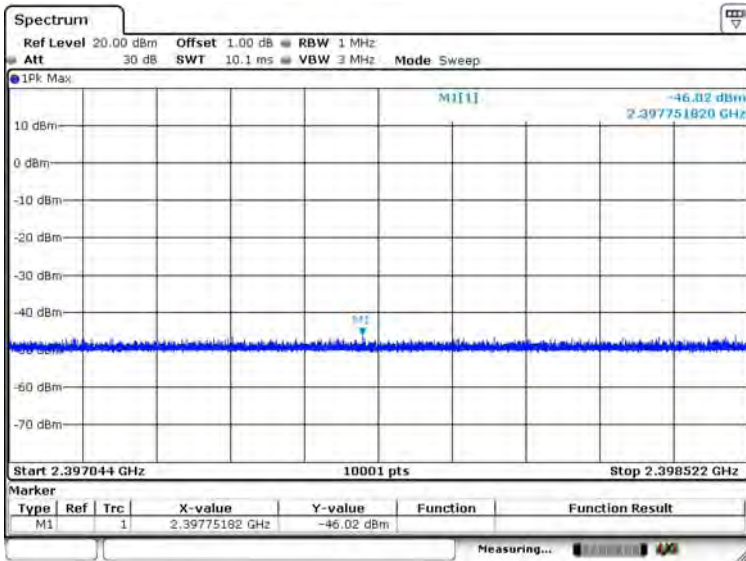


Data Rate 1Mbps, 2402 MHz

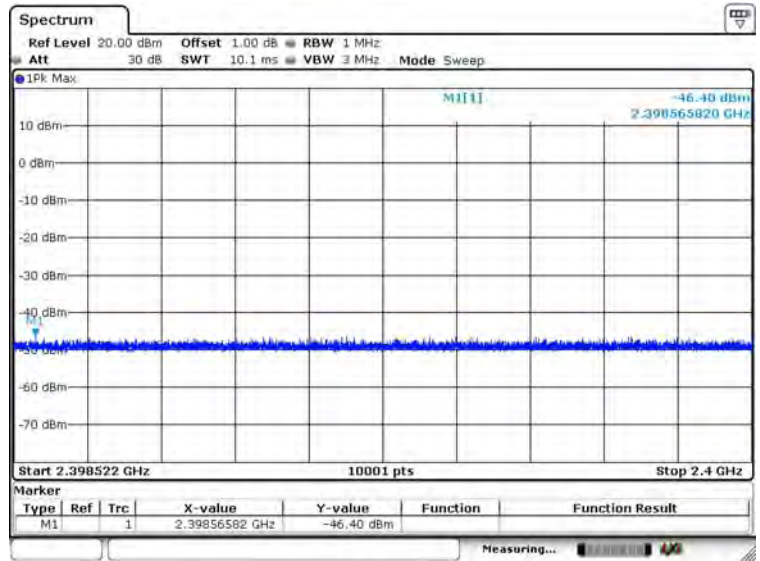




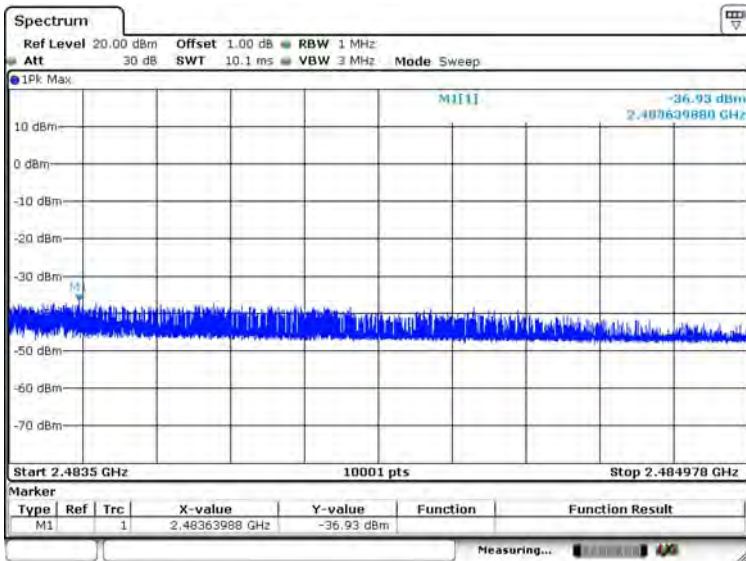
Data Rate 1Mbps, 2480 MHz



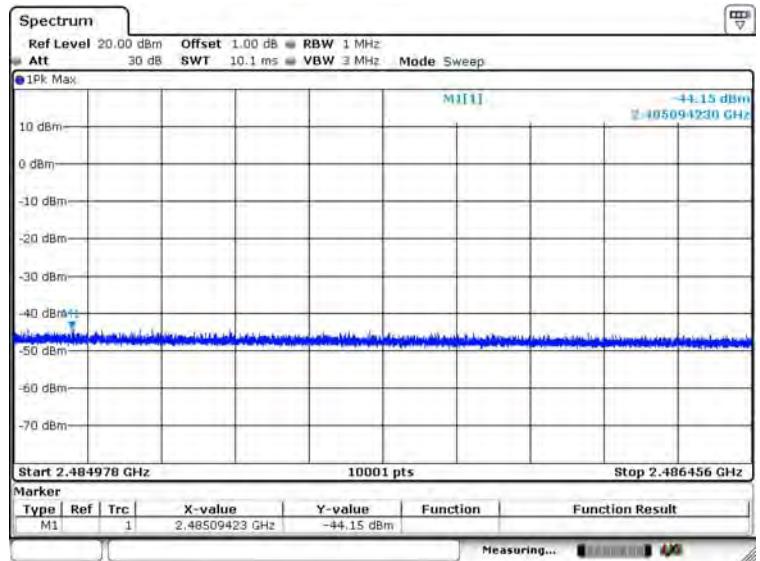
Date: 10.MAR.2021 15:27:40



Date: 10.MAR.2021 15:28:32

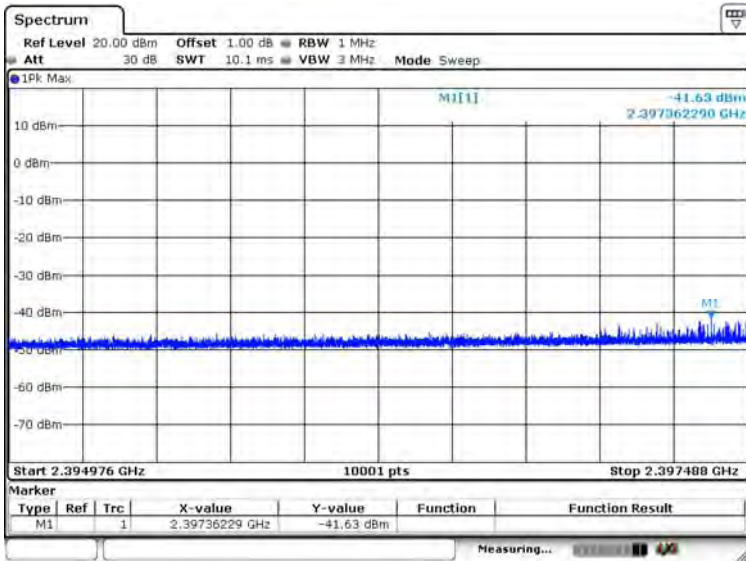


Date: 10.MAR.2021 15:29:15

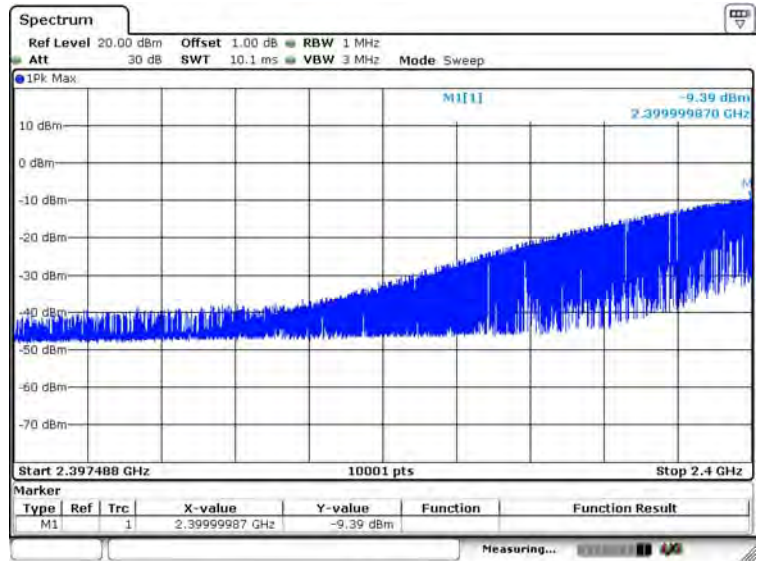


Date: 10.MAR.2021 15:31:37

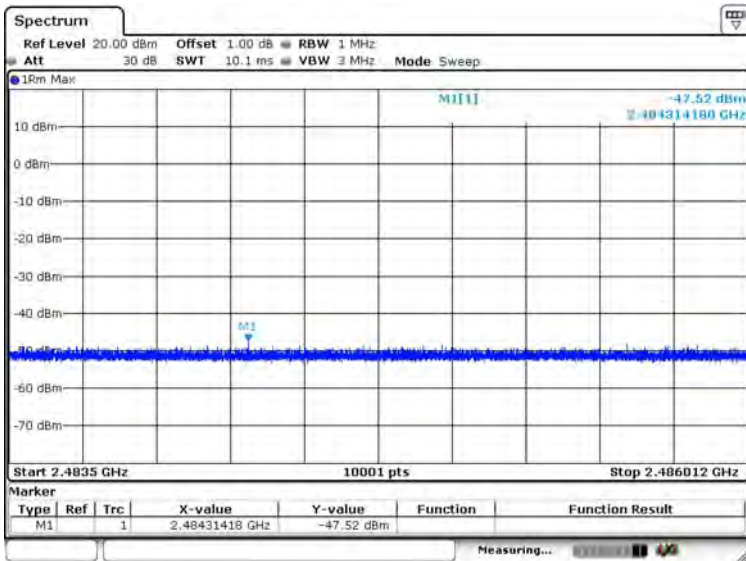
Data Rate 2Mbps, 2402 MHz



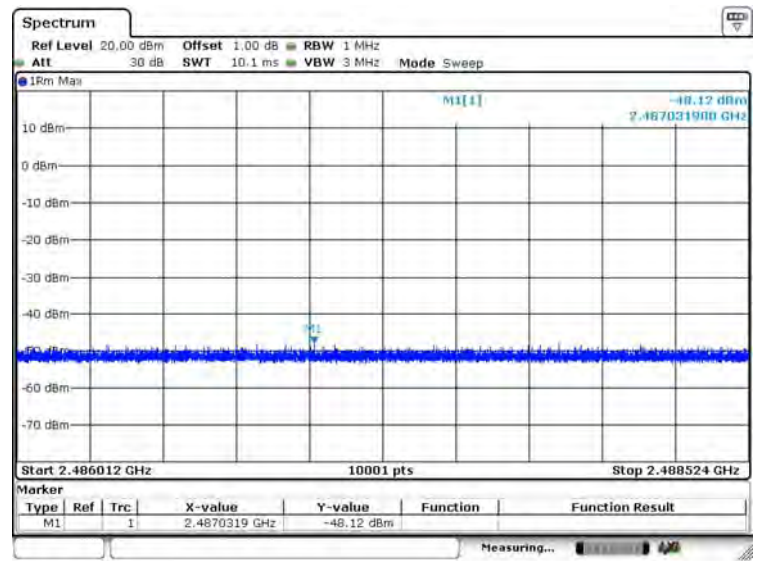
Date: 10.MAR.2021 14:47:26



Date: 10.MAR.2021 15:03:01

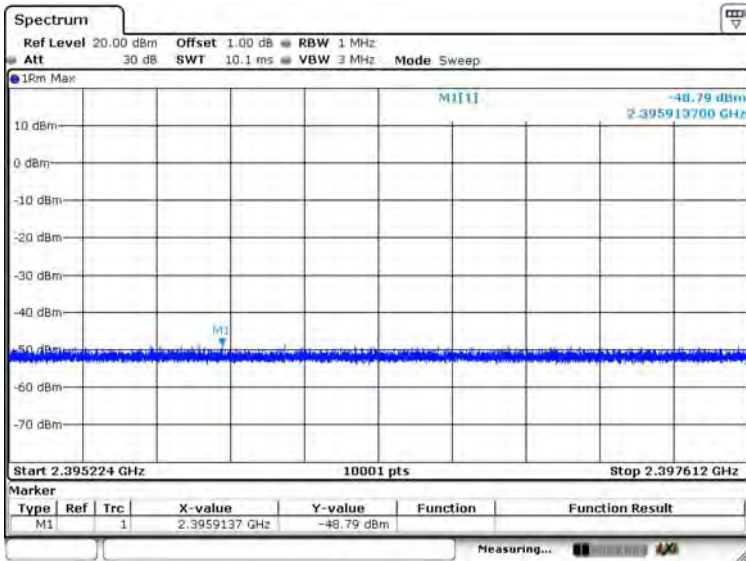


Date: 10.MAR.2021 15:05:13

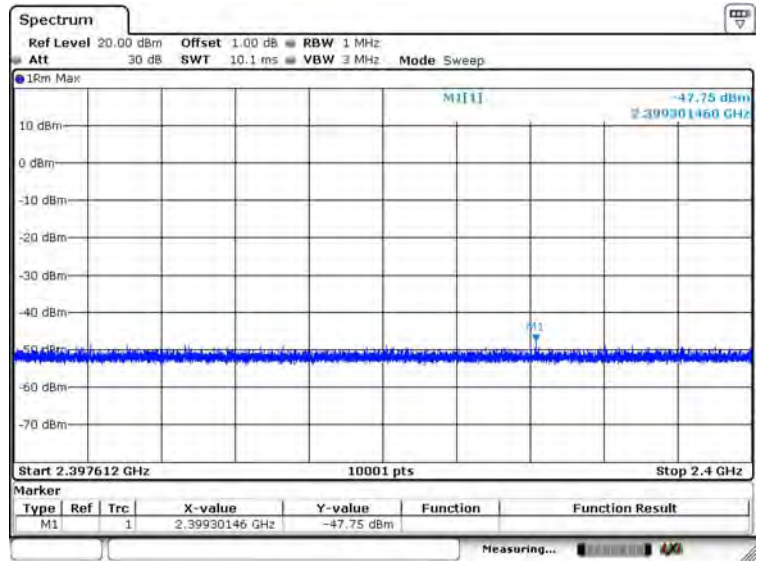


Date: 10.MAR.2021 15:05:40

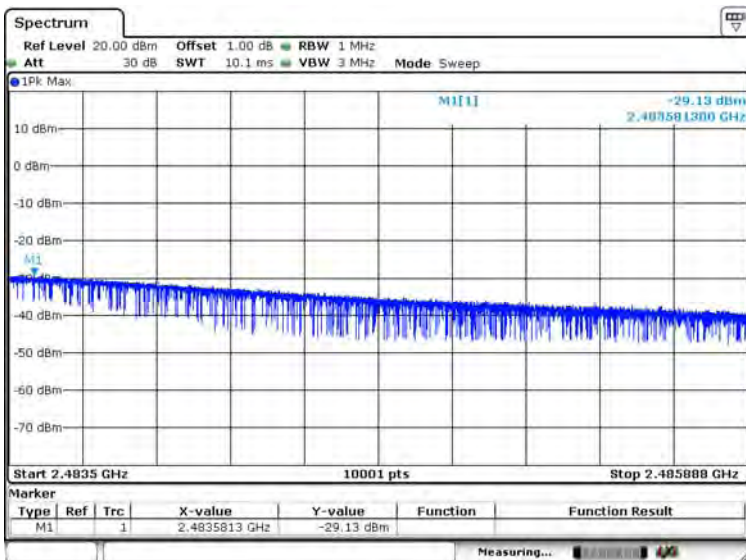
Data Rate 2Mbps, 2480 MHz



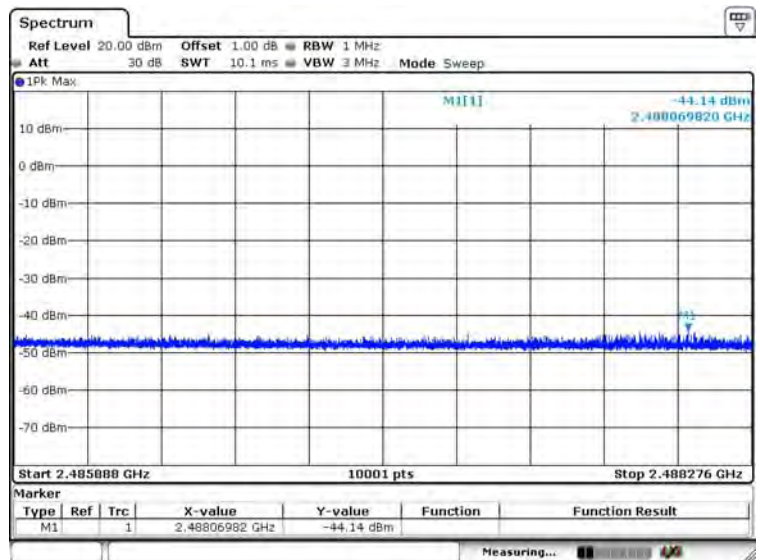
Date: 10.MAR.2021 15:07:36



Date: 10.MAR.2021 15:08:23



Date: 10.MAR.2021 14:17:55



Date: 10.MAR.2021 14:42:40



### 3.8. Receiver Blocking

#### 3.8.1. Test Result

Product	Bluetooth Low Energy 5.2 Controller Module		
Test Item	Receiver Blocking		
Test Mode	Mode 3: Normal		
Date of Test	2021/03/17	Test Site	SR10-H
Temperature (°C)	26	Test Humidity (%)	59

1M

Mode: 2402MHz

Blocking signal frequency [MHz]	Pmin [dBm]	Blocking signal power (dBm)	Max PER	Signal Generator output power at EUT input	Limit
2380	-69	-34	0.20	-22.30	<10 %
2504			0.60	-22.30	
2300			0.30	-22.30	
2584			0.40	-22.10	

Mode: 2480MHz

Blocking signal frequency [MHz]	Pmin [dBm]	Blocking signal power (dBm)	Max PER	Signal Generator output power at EUT input	Limit
2380	-69	-34	0.70	-22.30	<10 %
2504			0.50	-22.30	
2300			0.40	-22.30	
2584			0.50	-22.10	

Product	Bluetooth Low Energy 5.2 Controller Module		
Test Item	Receiver Blocking		
Test Mode	Mode 3: Normal		
Date of Test	2021/03/17	Test Site	SR10-H
Temperature (°C)	26	Test Humidity (%)	59

2M

Mode: 2402MHz

Blocking signal frequency [MHz]	Pmin [dBm]	Blocking signal power (dBm)	Max PER	Signal Generator output power at EUT input	Limit
2380	-76	-34	0.40	-22.30	<10 %
2504			0.60	-22.30	
2300			0.40	-22.30	
2584			0.40	-22.10	

Mode: 2480MHz

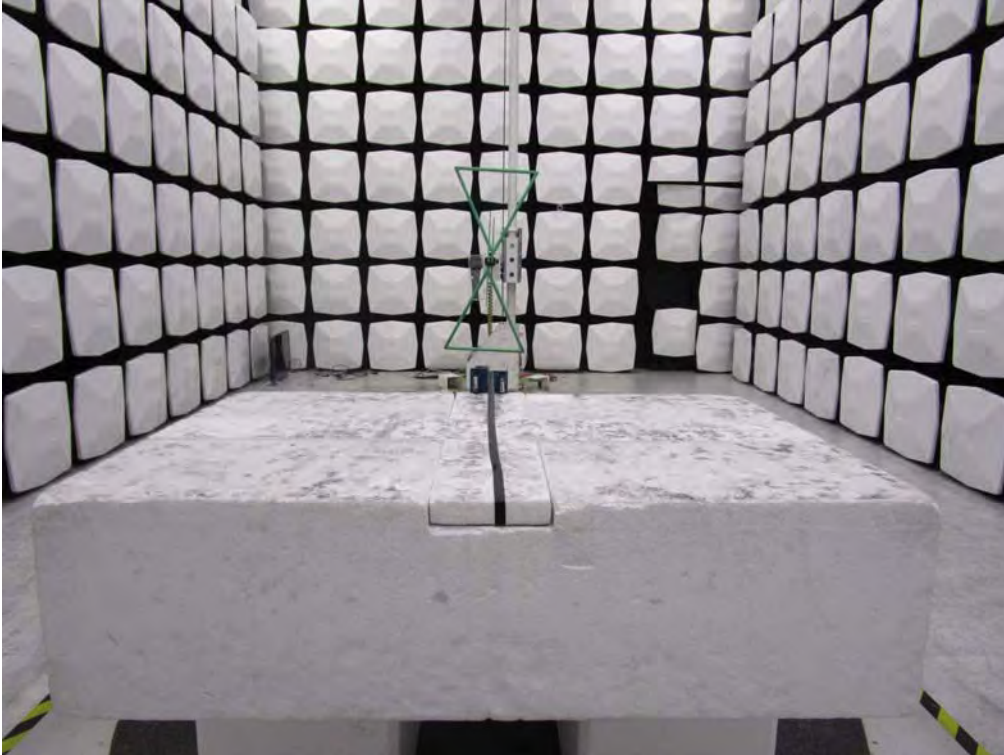
Blocking signal frequency [MHz]	Pmin [dBm]	Blocking signal power (dBm)	Max PER	Signal Generator output power at EUT input	Limit
2380	-76	-34	0.80	-22.30	<10 %
2504			1.20	-22.30	
2300			0.40	-22.30	
2584			0.70	-22.10	

## Attachment 1

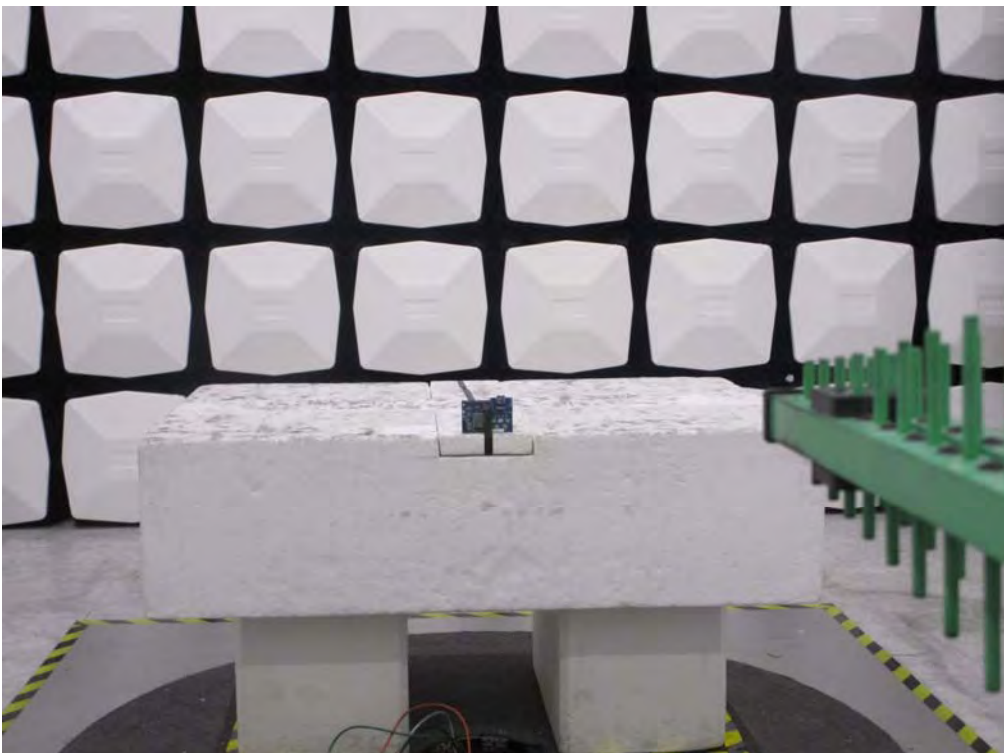
### ➤ Test Setup Photograph

#### FCC

Description : Front View of Radiated Emissions Test Setup (Bilog)

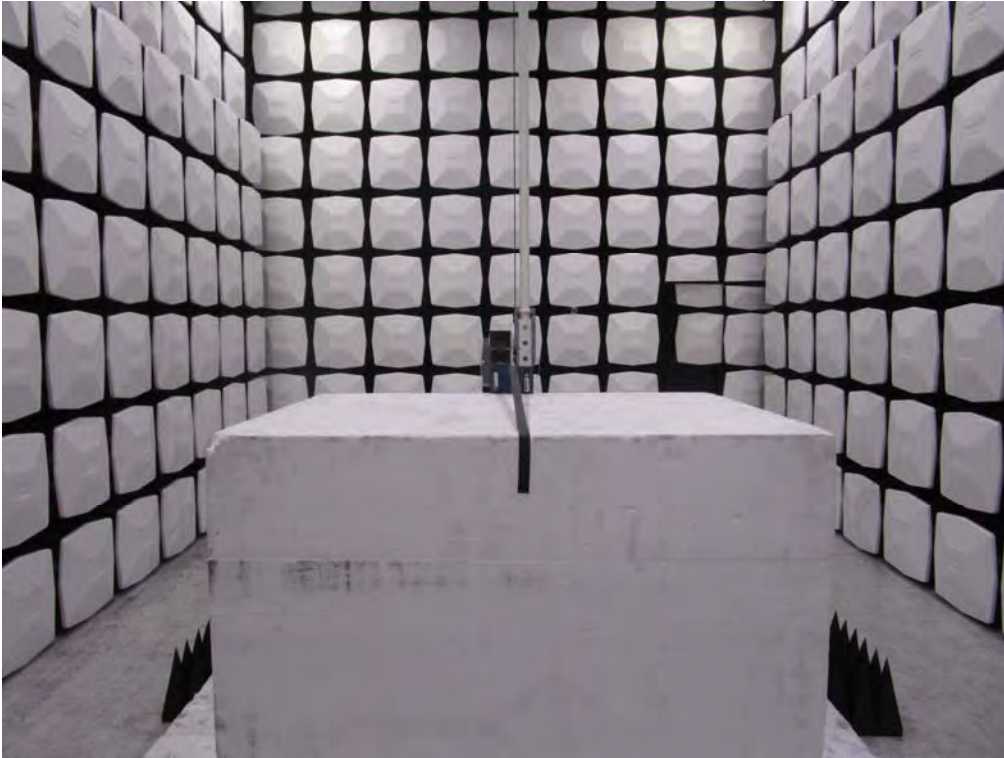


Description : Back View of Radiated Emissions Test Setup (Bilog)





Description : Front View of Radiated Emissions Test Setup (Horn)



Description : Back View of Radiated Emissions Test Setup (Horn)

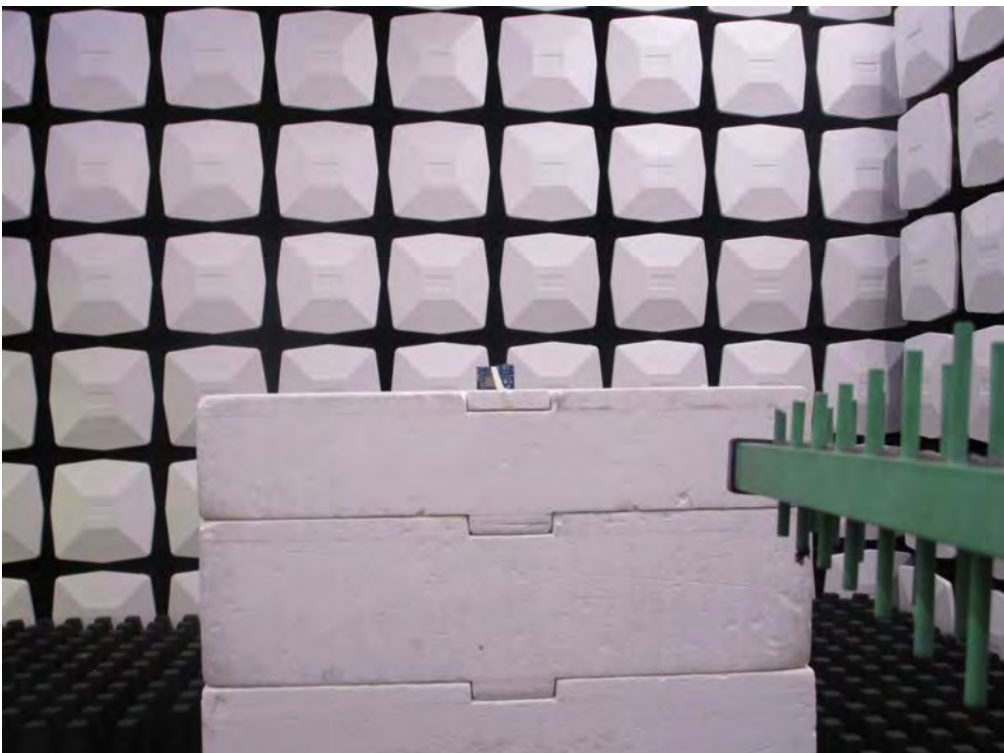


**CE**

Description : Front View of Radiated Emissions Test Setup (Bilog)



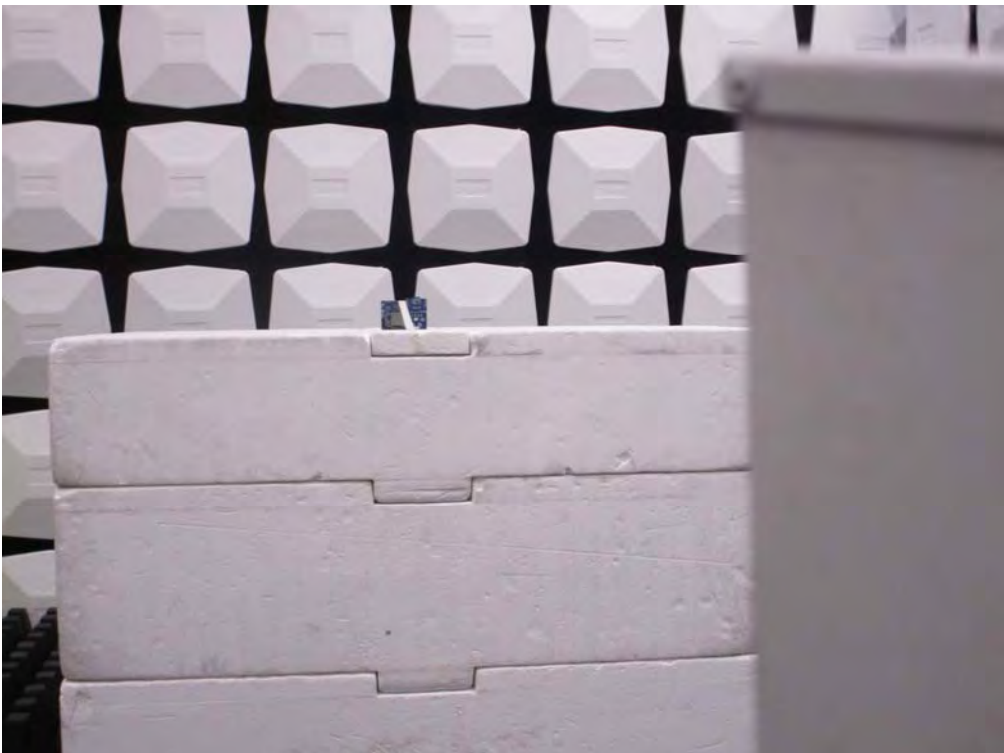
Description : Back View of Radiated Emissions Test Setup (Bilog)



Description : Front View of Radiated Emissions Test Setup (Horn)



Description : Back View of Radiated Emissions Test Setup (Horn)





X-axis



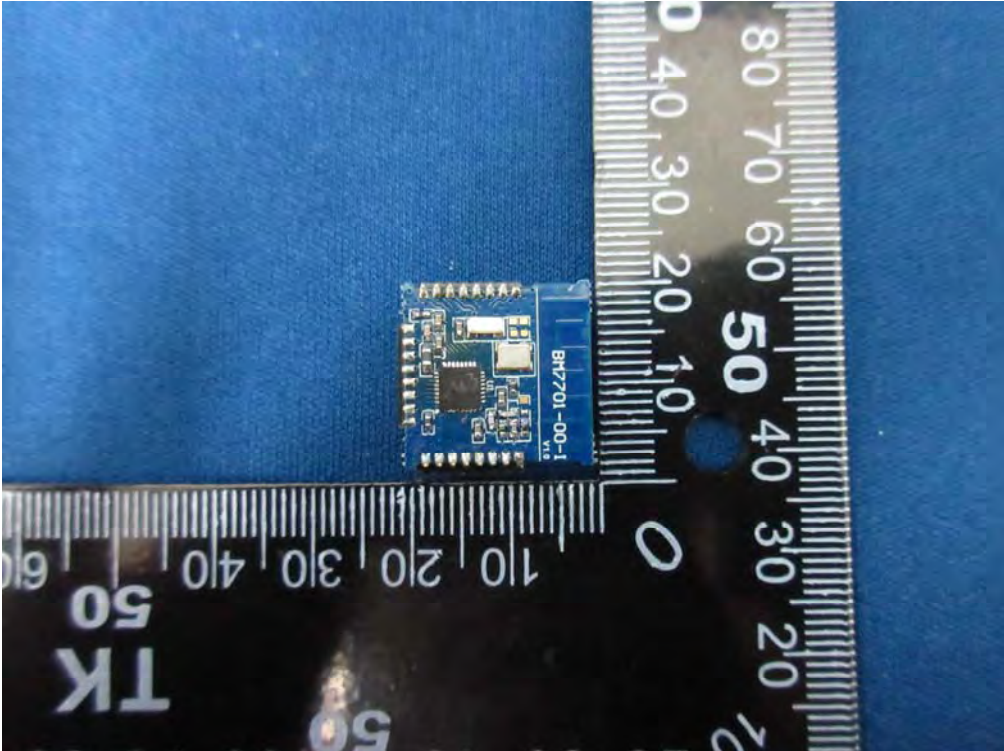
Y-axis



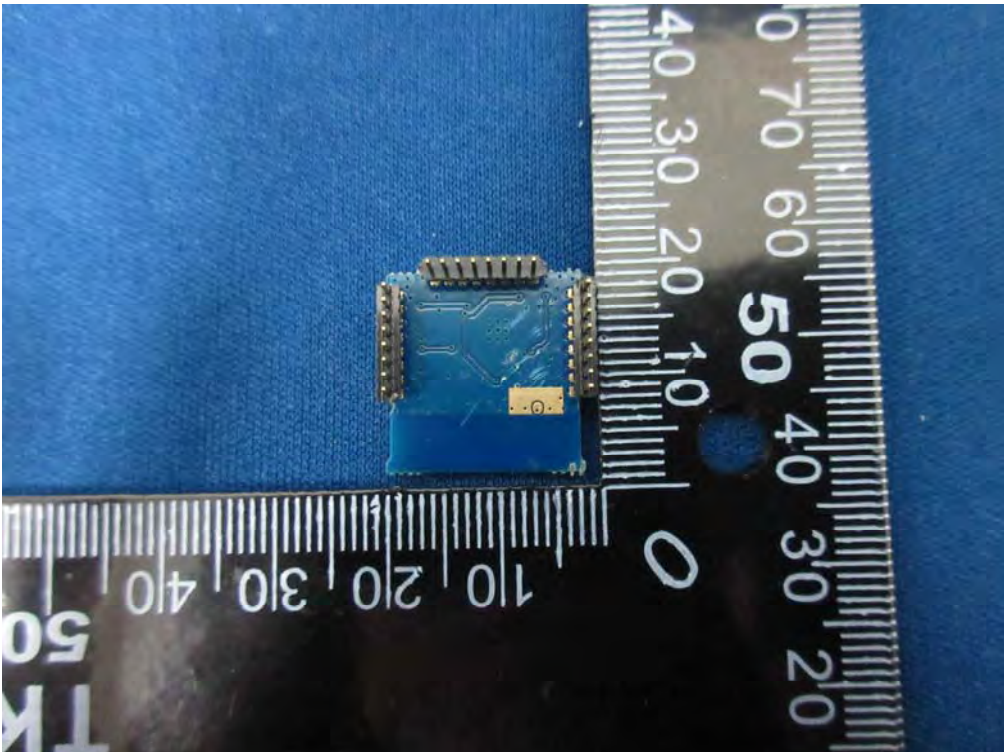
**Attachment 2**

➤ **EUT Photograph**

(1) EUT Photo

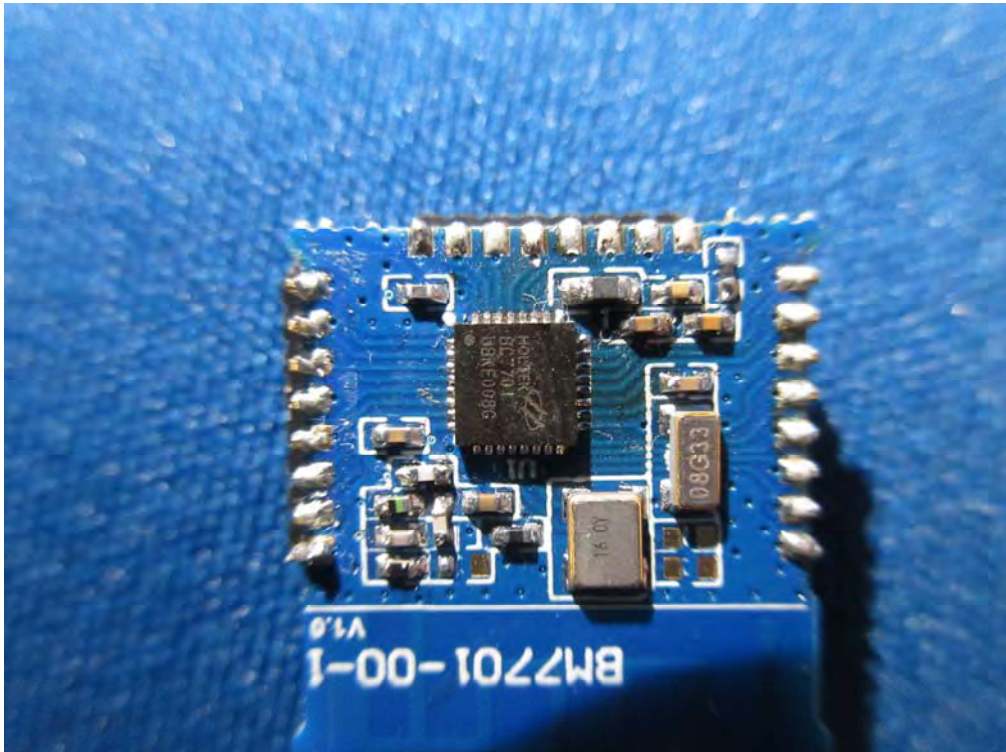


(2) EUT Photo





(3) EUT Photo



(4) EUT Photo (ANT)

