FCC Test Report

Product Name	：	Android Based UI
Trade Name	：	PCI
Model No.	：	CSD-ELINK2
FCC ID.	：	LY5-PCIABUI

Applicant	：	PCI Private Limited
Address	：	35 Pioneer Road North, Singapore 628475 Singapore

Date of Receipt	：	Feb. 03, 2020
Issued Date	：	Mar. 17, 2020
Report No.	：	2020009R-RFUSP01V01-A
Report Version	：	V1.0

Testing Laboratory
3024

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Test Report Certification

Issued Date: Mar. 17, 2020
Report No. : 2020009R-RFUSP01V01-A

Product Name	:	Android Based UI
Applicant	:	PCI Private Limited
Address	:	35 Pioneer Road North, Singapore 628475 Singapore
Manufacturer	:	PCI Private Limited
Address	:	35 Pioneer Road North, Singapore 628475 Singapore
Trade Name	:	PCI
Model No.	:	CSD-ELINK2
FCC ID.	:	LY5-PCIABUI
EUT Voltage	:	DC 5V
Testing Voltage	:	DC 5V
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2018 ANSI C63.10: 2013
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	:	Complied

Documented By : Carol Tsai

(Carol Tsai / Senior Engineering Adm. Specialist)

Tested By : Rueyyan. Lin

(Rueyyan Lin / Senior Engineer)

Approved By : Louis Hsu

(Louis Hsu / Deputy Manager)

Revision History

Report No.	Version	Description	Issued Date
2020009R-RFUSP01V01-A	V1.0	Initial issue of report	Mar. 17, 2020

TABLE OF CONTENTS

Description **Page**

1. General Information 6
   - 1.1. EUT Description 6
   - 1.2. Test Mode 7
   - 1.3. Tested System Details 8
   - 1.4. Configuration of tested System 8
   - 1.5. EUT Exercise Software 8
   - 1.6. Test Facility 9
   - 1.7. List of Test Equipment 11
   - 1.8. Duty cycle 13
   - 1.9. Uncertainty 14
2. Conducted Emission 15
   - 2.1. Test Setup 15
   - 2.2. Limits 15
   - 2.3. Test Procedure 15
   - 2.4. Test Specification 15
   - 2.5. Test Result 15
3. Maximum peak conducted output power 16
   - 3.1. Test Setup 16
   - 3.2. Test procedures 16
   - 3.3. Limits 16
   - 3.4. Test Specification 16
   - 3.5. Test Result 17
4. Radiated Emission 18
   - 4.1. Test Setup 18
   - 4.2. Limits 19
   - 4.3. Test Procedure 20
   - 4.4. Test Specification 20
   - 4.5. Test Result 21
5. RF antenna conducted test 29
   - 5.1. Test Setup 29
   - 5.2. Limits 29
   - 5.3. Test Procedure 29
   - 5.4. Test Specification 29
   - 5.5. Test Result 30
6. Radiated Emission Band Edge 34
   - 6.1. Test Setup 34
   - 6.2. Limits 34
   - 6.3. Test Procedure 34
   - 6.4. Test Specification 34
   - 6.5. Test Result 35
7. Occupied Bandwidth & DTS Bandwidth 47
   - 7.1. Test Setup 47

7.2. Limits 47
7.3. Test Procedures 47
7.4. Test Specification 47
7.5. Test Result 48
8. Power Density 52
8.1. Test Setup 52
8.2. Limits 52
8.3. Test Procedures 52
8.4. Test Specification 52
8.5. Test Result 53
Attachment 1 55
Test Setup Photograph 55
Attachment 2 57
EUT External Photograph 57
Attachment 3 60
EUT Internal Photograph 60

1. General Information

1.1. EUT Description

Product Name	Android Based UI
Trade Name	PCI
Model No.	CSD-ELINK2
Frequency Range/Channel Number	2402~2480MHz / 40 Channels
Type of Modulation	GFSK

Antenna Information	
Antenna Type	Dipole PCB Antenna
Antenna Gain	3.59 dBi

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00	2402 MHz	Channel 10	2422 MHz	Channel 20	2442 MHz	Channel 30	2462 MHz
Channel 01	2404 MHz	Channel 11	2424 MHz	Channel 21	2444 MHz	Channel 31	2464 MHz
Channel 02	2406 MHz	Channel 12	2426 MHz	Channel 22	2446 MHz	Channel 32	2466 MHz
Channel 03	2408 MHz	Channel 13	2428 MHz	Channel 23	2448 MHz	Channel 33	2468 MHz
Channel 04	2410 MHz	Channel 14	2430 MHz	Channel 24	2450 MHz	Channel 34	2470 MHz
Channel 05	2412 MHz	Channel 15	2432 MHz	Channel 25	2452 MHz	Channel 35	2472 MHz
Channel 06	2414 MHz	Channel 16	2434 MHz	Channel 26	2454 MHz	Channel 36	2474 MHz
Channel 07	2416MHz	Channel 17	2436 MHz	Channel 27	2456 MHz	Channel 37	2476 MHz
Channel 08	2418 MHz	Channel 18	2438 MHz	Channel 28	2458 MHz	Channel 38	2478 MHz
Channel 09	2420 MHz	Channel 19	2440 MHz	Channel 29	2460 MHz	Channel 39	2480 MHz

Note:

1. This device is an Android Based UI including 2.4GHz b/g/n, 5GHz a/n/ac, BT2.0/BT 4.0 transmitting and receiving functions.
2. Regards to the frequency band operation; the lowest、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
3. The EUT description is from the customer declaration.

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Test Mode	Mode 1: Transmit Mode

Test Items	Modulation	Channel	Result
Conducted Emission	GFSK	19	N/A
Maximum peak conducted	GFSK	00/19/39	Complies
Radiated Emission	GFSK	00/19/39	Complies
RF antenna conducted test	GFSK	00/19/39	Complies
Radiated Emission Band Edge	GFSK	00/19/39	Complies
Occupied Bandwidth & DTS Bandwidth	GFSK	00/19/39	Complies
Power Density	GFSK	00/19/39	Complies

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

1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
N/A					

1.4. Configuration of tested System

Connection Diagram

1.5. EUT Exercise Software

1	Set the EUT as shown in Section 1.4.
2	Execute the "Engineer Mode” on the Android system.
3	Configure test mode, test channel and data rate.
4	EUT start transmitting or receiving continuously.
5	Verify that the device is working properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual	Test Site
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	20	--
Humidity (%RH)		25 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Maximum peak conducted output power	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	25	2
Humidity (%RH)		25 - 75	54	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission Band Edge	15 - 35	25	2
Humidity (%RH)		25 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth & DTS Bandwidth	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	

Note: Test site information refers to Laboratory Information.

Laboratory Information

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: http://www.dekra.com.tw

If you have any comments, please don't hesitate to contact us. Our test sites as below:

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
Address	1. No. 75-2, 3rd Lin, WangYe Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C. 2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 3. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
Phone number	1. +886-3-592-8858 2. +886-3-582-8001 3. +886-3-582-8001
Fax number	1. +886-3-592-8859 2. +886-3-582-8958 3. +886-3-582-8958
Email address	info.tw@dekra.com
Website	http://www.dekra.com.tw

1.7. List of Test Equipment

Maximum peak conducted output power / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2019/12/02	2020/12/01
Pulse Power Sensor	Anritsu	MA2411B	1531043	2019/12/02	2020/12/01
Pulse Power Sensor	Anritsu	MA2411B	1531044	2019/12/02	2020/12/01
Power Meter	Keysight	8990B	MY51000248	2019/05/21	2020/05/20
Power Sensor	Keysight	N1923A	MY57240005	2019/05/21	2020/05/20

Radiated Emission / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2019/10/21	2020/10/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2019/09/11	2020/09/10
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Bilog Antenna	Teseq	CBL6112D	23191	2019/06/17	2020/06/16
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2019/05/28	2020/05/27
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/12/27	2020/12/26
Pre-Amplifier	DEKRA	AP-025C	12183122	2019/09/24	2020/09/23
Pre-Amplifier	EMCI	EMC11830I	980366	2019/12/03	2020/12/02
Pre-Amplifier	DEKRA	AP-400C	201801231	2019/12/03	2020/12/02
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2019/10/25	2020/10/24
Band Reject Filter	Micro-Tronics	BRM50702	G192	2019/03/27	2020/03/26
Signal Analyzer	R&S	FSV40	101435	2019/07/08	2020/070/7
Coaxial Cable(16m)	Huber+Suhner	SF104	CB2-H	2019/07/25	2020/07/24
EMI system	DEKRA	Version 1.0	CB2-H	NA	NA

RF antenna conducted test / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2019/09/11	2020/09/10

Radiated Emission Band Edge / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2019/10/21	2020/10/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2019/09/11	2020/09/10
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Bilog Antenna	Teseq	CBL6112D	23191	2019/06/17	2020/06/16
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2019/05/28	2020/05/27
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/12/27	2020/12/26
Pre-Amplifier	DEKRA	AP-025C	12183122	2019/09/24	2020/09/23
Pre-Amplifier	EMCI	EMC11830I	980366	2019/12/03	2020/12/02
Pre-Amplifier	DEKRA	AP-400C	201801231	2019/12/03	2020/12/02
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2019/10/25	2020/10/24
Band Reject Filter	Micro-Tronics	BRM50702	G192	2019/03/27	2020/03/26
Signal Analyzer	R&S	FSV40	101435	2019/07/08	2020/070/7
Coaxial Cable(16m)	Huber+Suhner	SF104	CB2-H	2019/07/25	2020/07/24
EMI system	DEKRA	Version 1.0	CB2-H	NA	NA

Occupied Bandwidth & DTS Bandwidth / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2019/09/11	2020/09/10

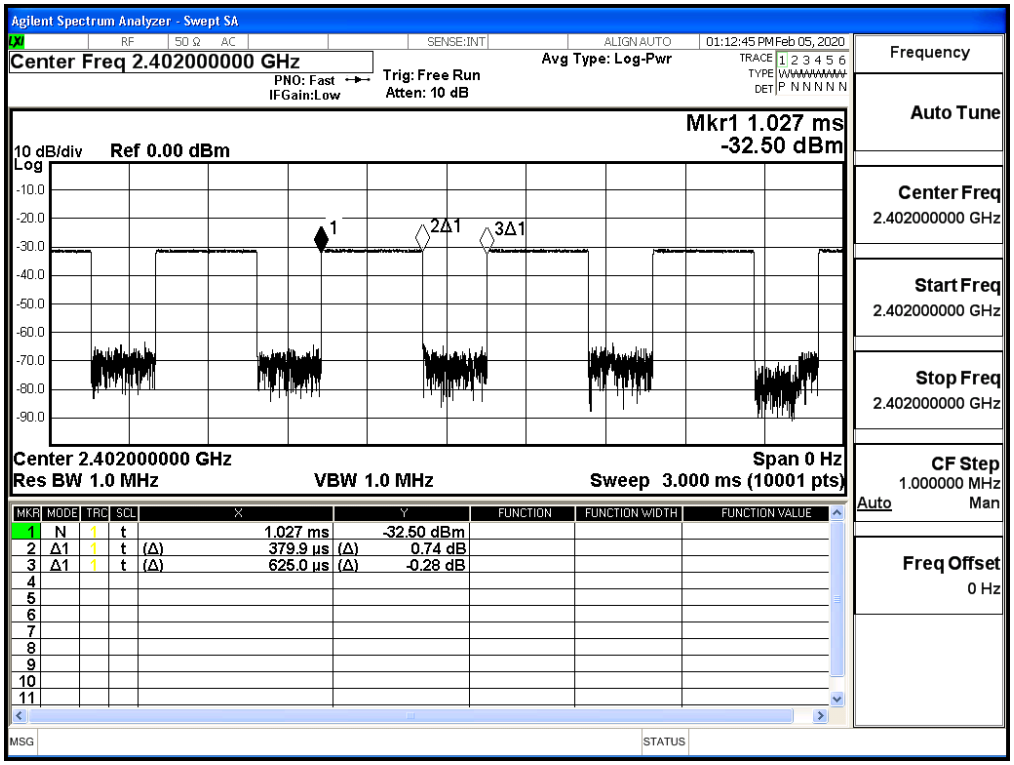
Power Density / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2019/09/11	2020/09/10

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

1.8. Duty cycle

On Time(ms)	On+Off Time(ms)	Duty Cycle(%)	Duty Factor(dB) linear voltage	Duty Factor(dB) Power	1/T Minimum VBW (kHz)
0.380	0.625	60.78%	4.324214	2.16	2.632

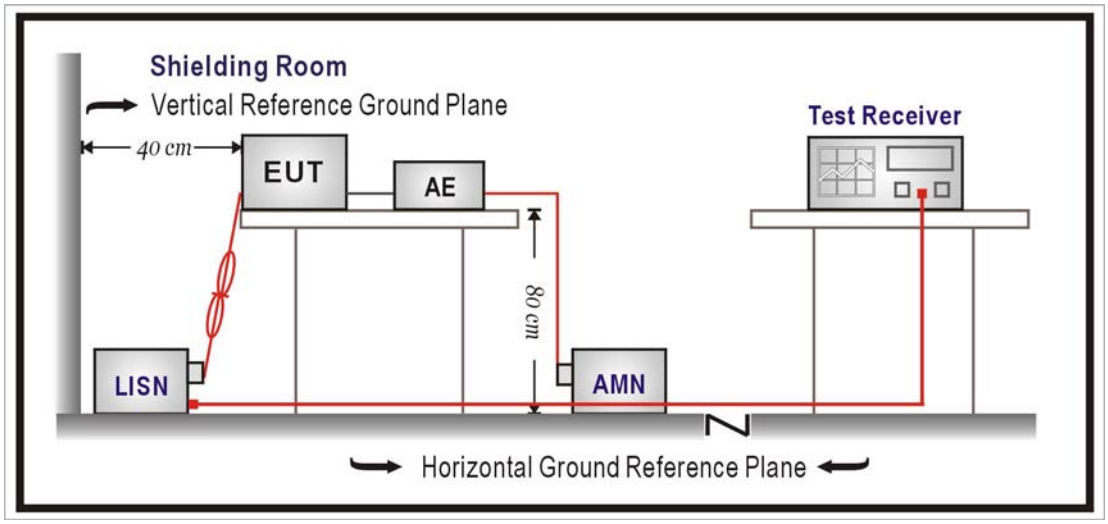


1.9. Uncertainty

Test item	Uncertainty
Maximum peak conducted output power	± 1.27 dB
Radiated Emission	30MHz～1GHz as ±3.43dB 1GHz～26.5GHz as ±3.65dB
RF antenna conducted test	± 1.27dB
Radiated Emission Band Edge	±3.65dB
Occupied Bandwidth & DTS Bandwidth	±50 Hz
Power Density	±1.27 dB

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

2.3. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9KHz.

2.4. Test Specification

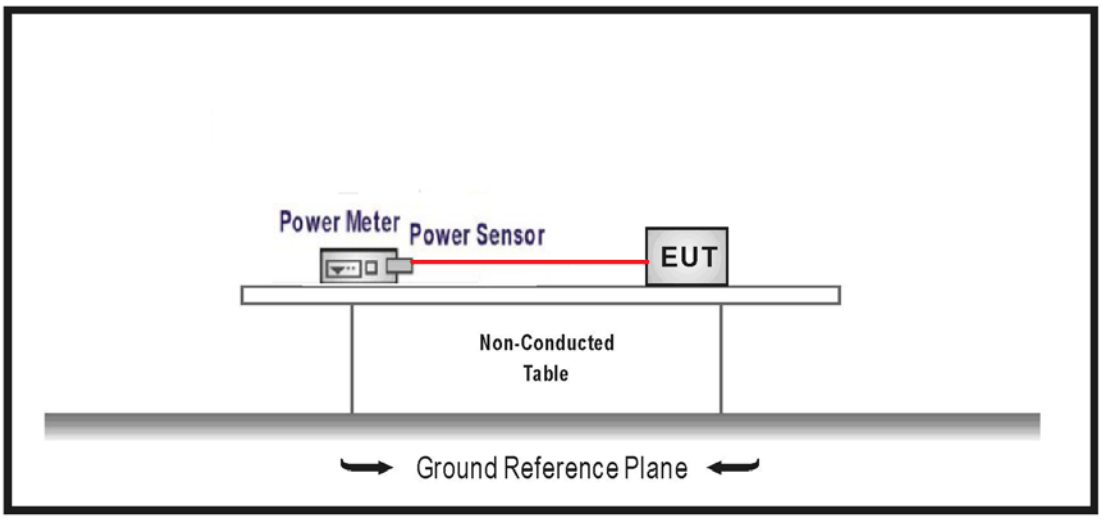
According to FCC Part 15 Subpart C Paragraph 15.207: 2018

2.5. Test Result

Owing to the DC operation of EUT, this test item is not performed.

3. Maximum peak conducted output power

3.1. Test Setup



3.2. Test procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB558074 D01V05 for compliance to FCC 47CFR 15.247 requirements.

3.3. Limits

The maximum peak conducted output power shall be less 1 Watt.

3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2018

3.5. Test Result

Product	Android Based UI		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/03/02	Test Site	SR12-H
Test Temperature	22.0℃	Test Humidity	55.0%

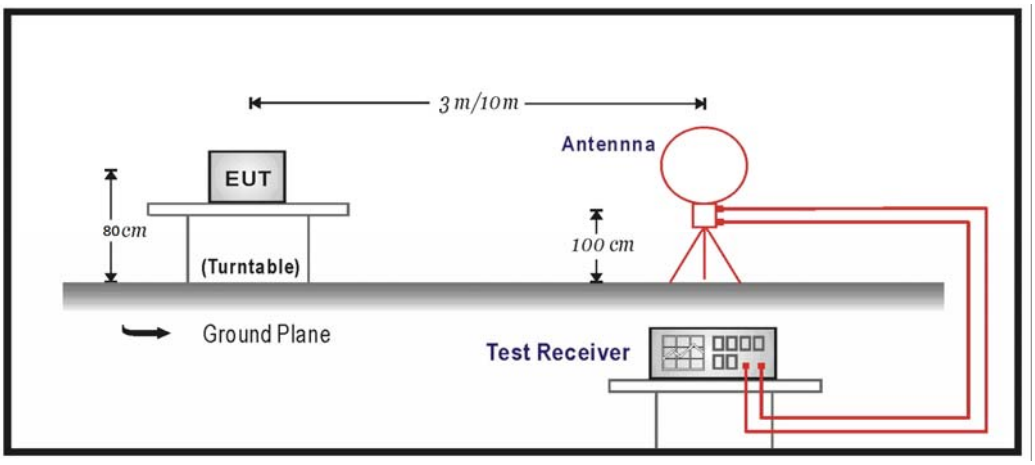
GFSK

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
00	2402	3.560	≦30
19	2440	5.890	≦30
39	2480	5.100	≦30

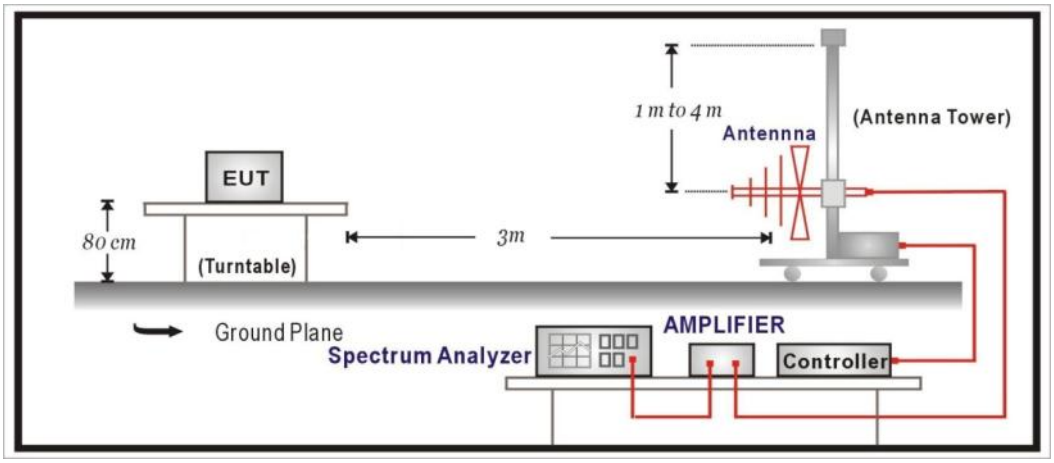
4. Radiated Emission

4.1. Test Setup

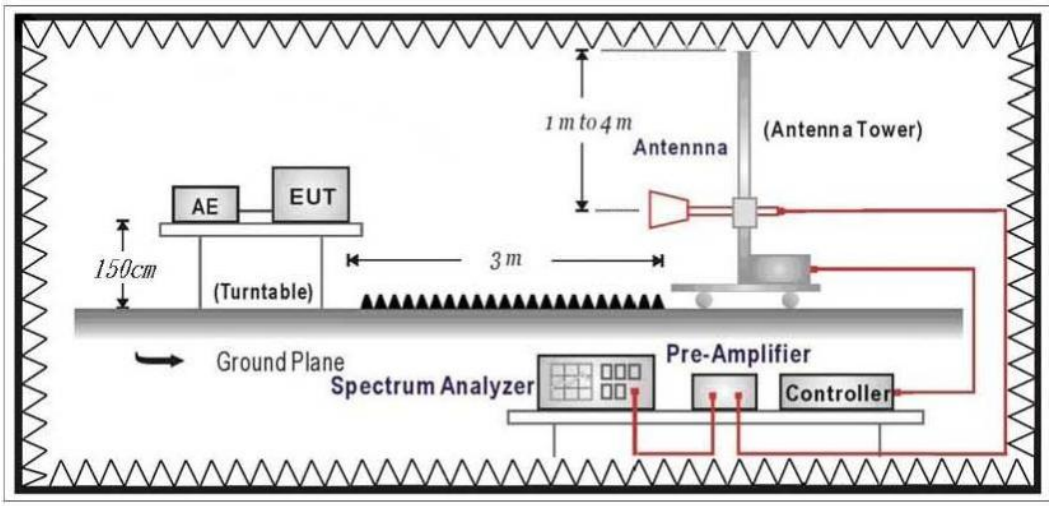
Under 30MHz Test Setup:



Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.2. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency (MHz)	uV/m	dBuV/m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the Radiated Emission Band Edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 D01V05 for compliance to FCC 47CFR 15.247 requirements.
The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.
On any frequency or frequencies form 9KHz(inculde The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

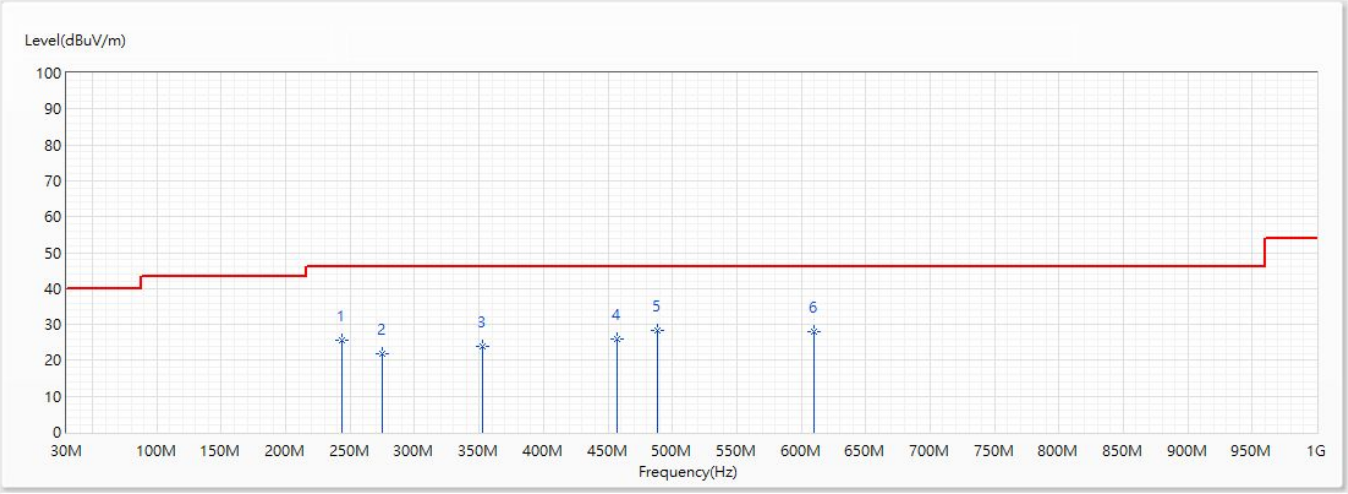
4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247:2018

4.5. Test Result

30MHz-1GHz Spurious

Model No	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/3/9
Test Mode	Mode 1: Transmit Mode	Engineer	Max
Polarity	Horizontal	Temperature (℃)	18.5
Test Condition	802.15.1_2440MHz	Humidity (%RH)	51.0

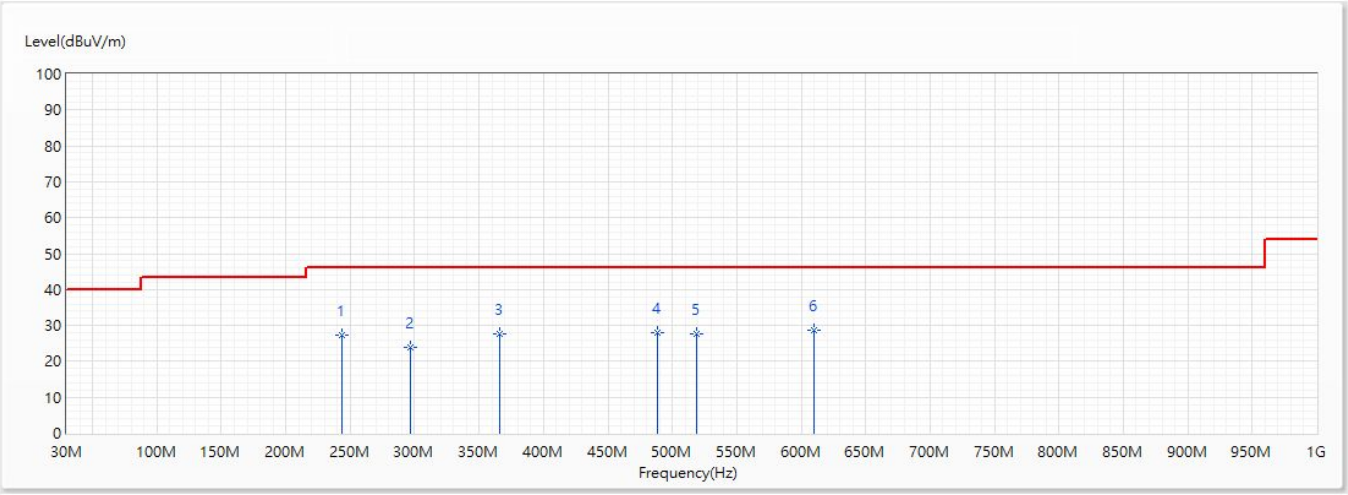


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	244.006	25.70	46.00	-20.30	27.38	-1.68	QP
2	275.168	21.88	46.00	-24.12	22.75	-0.87	QP
3	352.889	23.89	46.00	-22.11	22.57	1.32	QP
4	457.528	26.04	46.00	-19.96	22.12	3.92	QP
* 5	488.083	28.28	46.00	-17.72	23.83	4.45	QP
6	610.06	27.98	46.00	-18.02	21.90	6.08	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	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/3/9
Test Mode	Mode 1: Transmit Mode	Engineer	Max
Polarity	Vertical	Temperature (℃)	18.5
Test Condition	802.15.1_2440MHz	Humidity (%RH)	51.0



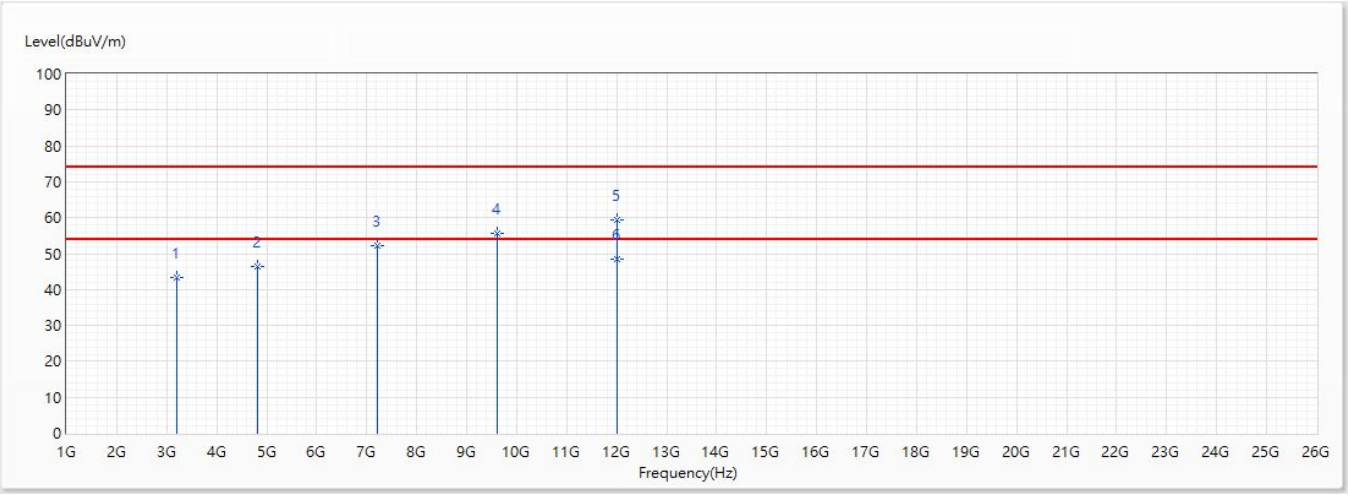
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	244.006	27.25	46.00	-18.75	28.93	-1.68	QP
2	296.993	23.98	46.00	-22.02	24.46	-0.48	QP
3	365.984	27.54	46.00	-18.46	25.79	1.75	QP
4	487.961	28.10	46.00	-17.90	23.65	4.45	QP
5	518.516	27.58	46.00	-18.42	22.66	4.92	QP
* 6	609.939	28.59	46.00	-17.41	22.51	6.08	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.

Harmonic & Spurious:

Model No	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/2/28
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan
Polarity	Horizontal	Temperature (℃)	18.5
Test Condition	802.15.1_2402MHz	Humidity (%RH)	51.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3202.667	43.46	74.00	-30.54	57.83	-14.37	PK
2	4804	46.40	74.00	-27.60	54.87	-8.47	PK
3	7206	52.25	74.00	-21.75	52.06	0.19	PK
4	9608	55.62	74.00	-18.38	50.88	4.74	PK
5	12010	59.43	74.00	-14.57	50.30	9.13	PK
* 6	12010	48.31	54.00	-5.69	39.18	9.13	AV

Note:

1.All reading above 1GHz is performed with peak and/or average measurements as necessary.

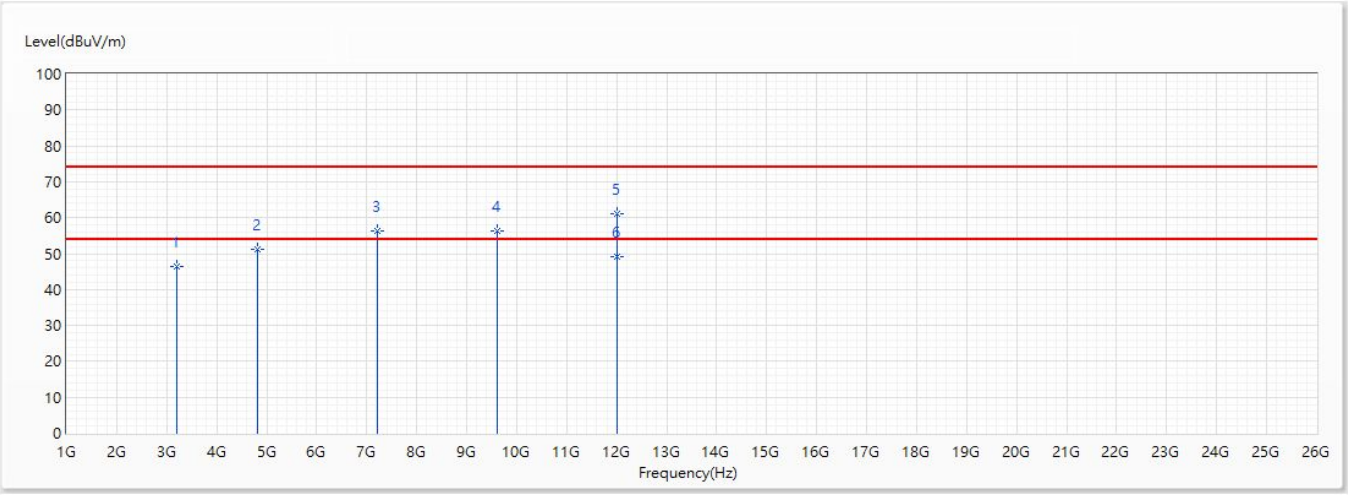
2. “ * ”, means this data is the worst value.

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	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/2/28
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan
Polarity	Vertical	Temperature (℃)	18.5
Test Condition	802.15.1_2402MHz	Humidity (%RH)	51.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3202.667	46.44	74.00	-27.56	60.81	-14.37	PK
2	4808	51.17	74.00	-22.83	59.64	-8.47	PK
3	7206	56.46	74.00	-17.54	56.27	0.19	PK
4	9608	56.46	74.00	-17.54	51.72	4.74	PK
5	12010	61.21	74.00	-12.79	52.08	9.13	PK
* 6	12010	48.98	54.00	-5.02	39.85	9.13	AV

Note:

1.All reading above 1GHz is performed with peak and/or average measurements as necessary.

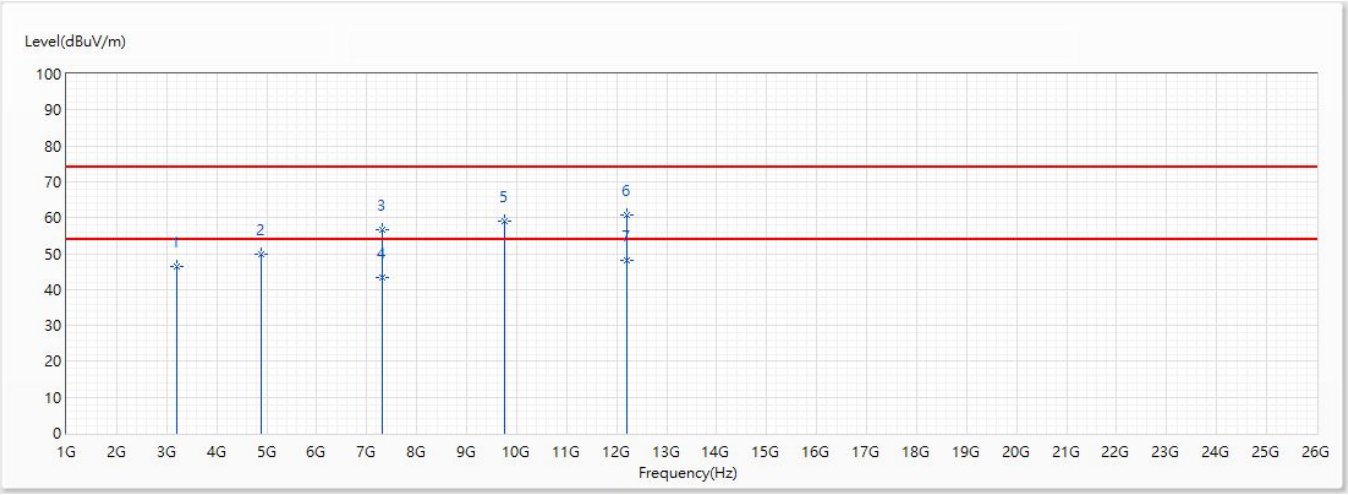
2. “ * ”, means this data is the worst value.

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	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/2/28
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan
Polarity	Horizontal	Temperature (℃)	18.5
Test Condition	802.15.1_2440MHz	Humidity (%RH)	51.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3202.667	46.28	74.00	-27.72	60.65	-14.37	PK
2	4880	49.75	74.00	-24.25	57.98	-8.23	PK
3	7320	56.49	74.00	-17.51	56.07	0.42	PK
4	7320	43.41	54.00	-10.59	42.99	0.42	AV
5	9760	59.11	74.00	-14.89	54.23	4.88	PK
6	12200	60.86	74.00	-13.14	52.27	8.59	PK
* 7	12200	48.10	54.00	-5.90	39.51	8.59	AV

Note:

1.All reading above 1GHz is performed with peak and/or average measurements as necessary.

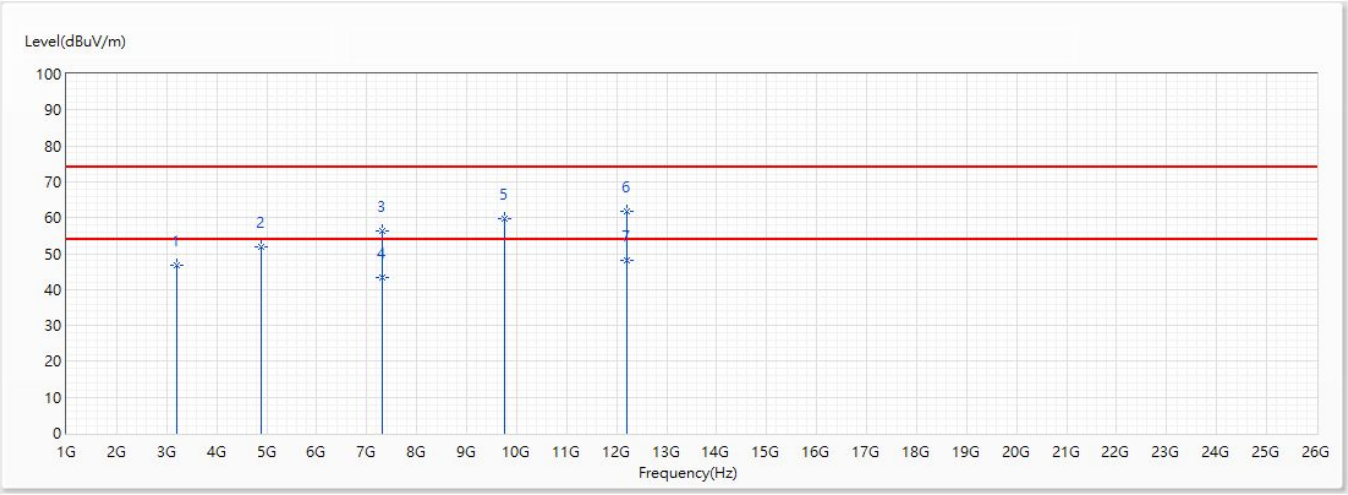
2. “ * ”, means this data is the worst value.

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	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/2/28
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan
Polarity	Vertical	Temperature (℃)	18.5
Test Condition	802.15.1_2440MHz	Humidity (%RH)	51.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3202.667	46.62	74.00	-27.38	60.99	-14.37	PK
2	4880	51.99	74.00	-22.01	60.22	-8.23	PK
3	7320	56.24	74.00	-17.76	55.82	0.42	PK
4	7320	43.42	54.00	-10.58	43.00	0.42	AV
5	9760	59.82	74.00	-14.18	54.94	4.88	PK
6	12200	61.62	74.00	-12.38	53.03	8.59	PK
* 7	12200	48.15	54.00	-5.85	39.56	8.59	AV

Note:

1.All reading above 1GHz is performed with peak and/or average measurements as necessary.

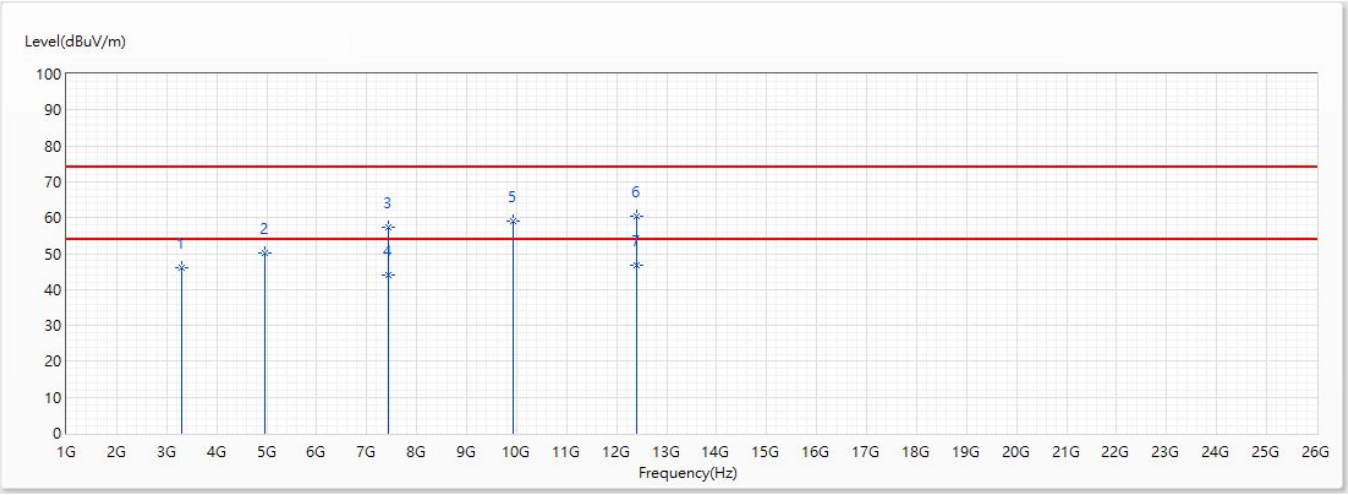
2. “ * ”, means this data is the worst value.

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	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/2/28
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan
Polarity	Horizontal	Temperature (℃)	18.5
Test Condition	802.15.1_2480MHz	Humidity (%RH)	51.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3306.666	46.16	74.00	-27.84	60.30	-14.14	PK
2	4960	50.31	74.00	-23.69	58.27	-7.96	PK
3	7440	57.37	74.00	-16.63	56.70	0.67	PK
4	7440	43.89	54.00	-10.11	43.22	0.67	AV
5	9920	59.14	74.00	-14.86	54.10	5.04	PK
6	12400	60.25	74.00	-13.75	52.22	8.03	PK
* 7	12400	46.85	54.00	-7.15	38.82	8.03	AV

Note:

1.All reading above 1GHz is performed with peak and/or average measurements as necessary.

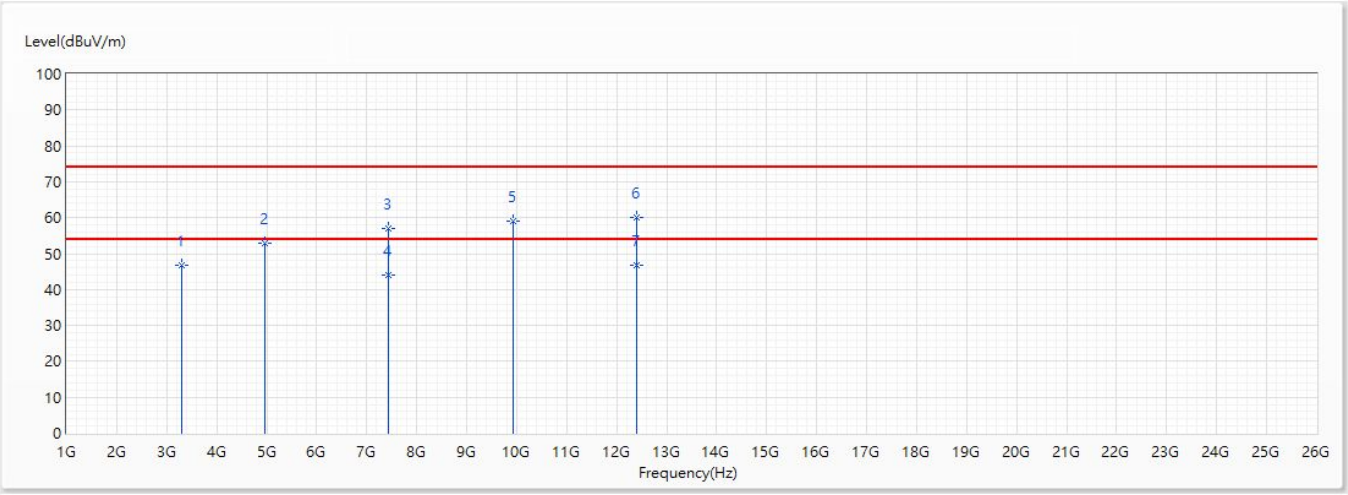
2. “ * ”, means this data is the worst value.

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	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/2/28
Test Mode	Mode 1: Transmit Mode	Engineer	Rueyyan
Polarity	Vertical	Temperature (℃)	18.5
Test Condition	802.15.1_2480MHz	Humidity (%RH)	51.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3306.666	46.77	74.00	-27.23	60.91	-14.14	PK
2	4960	52.87	74.00	-21.13	60.83	-7.96	PK
3	7440	57.01	74.00	-16.99	56.34	0.67	PK
4	7440	43.89	54.00	-10.11	43.22	0.67	AV
5	9920	59.04	74.00	-14.96	54.00	5.04	PK
6	12400	60.13	74.00	-13.87	52.10	8.03	PK
* 7	12400	46.85	54.00	-7.15	38.82	8.03	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.

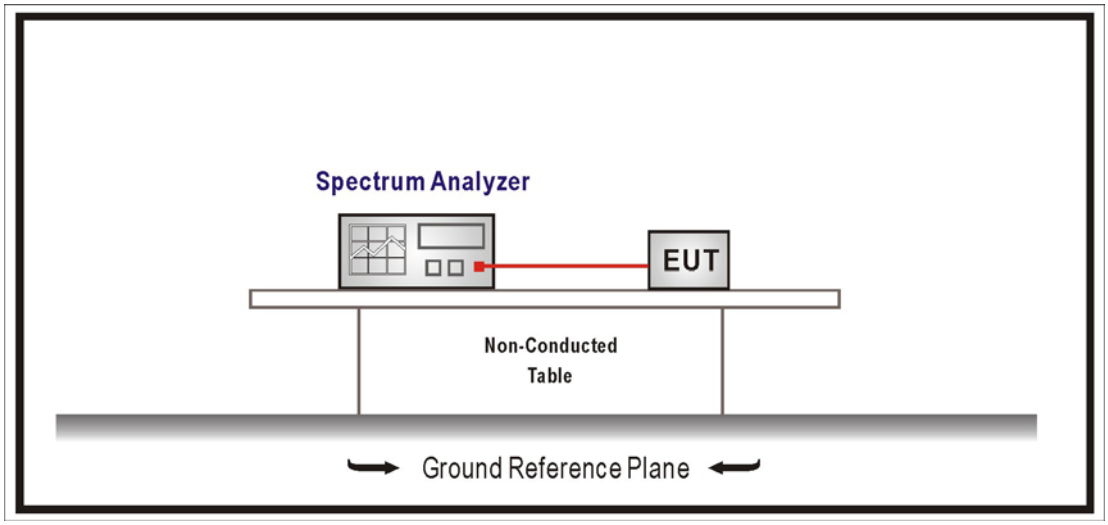
4.The average measurement was not performed when the peak measured data under the limit of average detection.

5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

5. RF antenna conducted test

5.1. Test Setup

RF Conducted Measurement:



5.2. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 D01V05 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

5.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2018

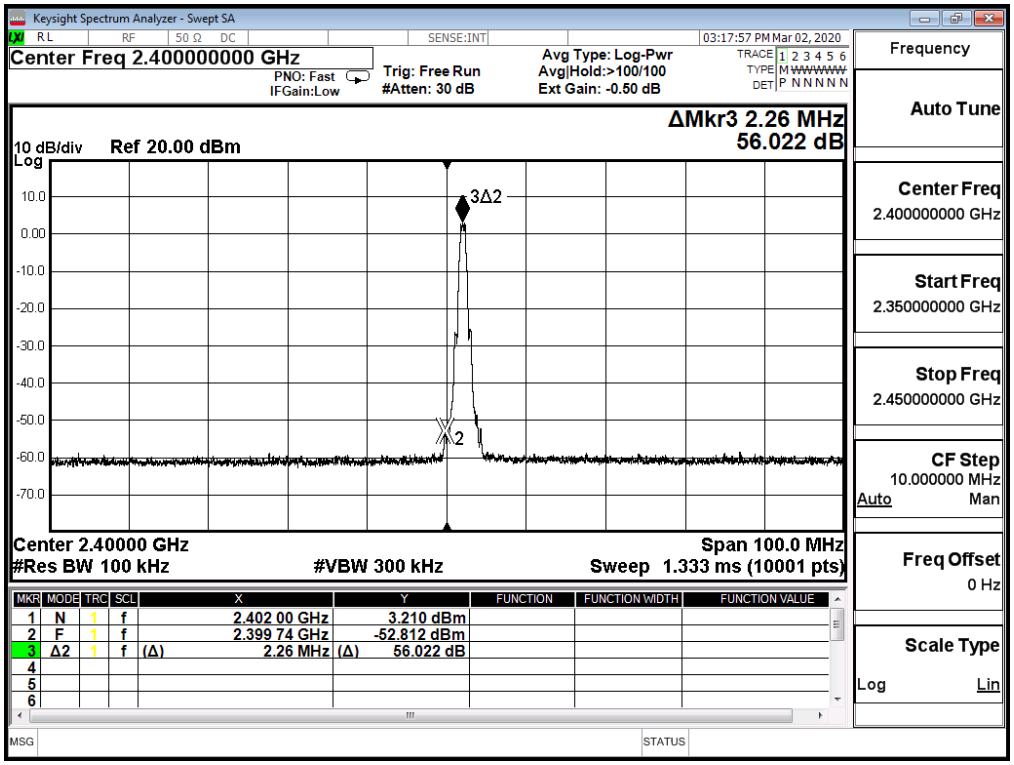
5.5. Test Result

Product	Android Based UI		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/03/02	Test Site	SR12-H
Test Temperature	22.0℃	Test Humidity	55.0%

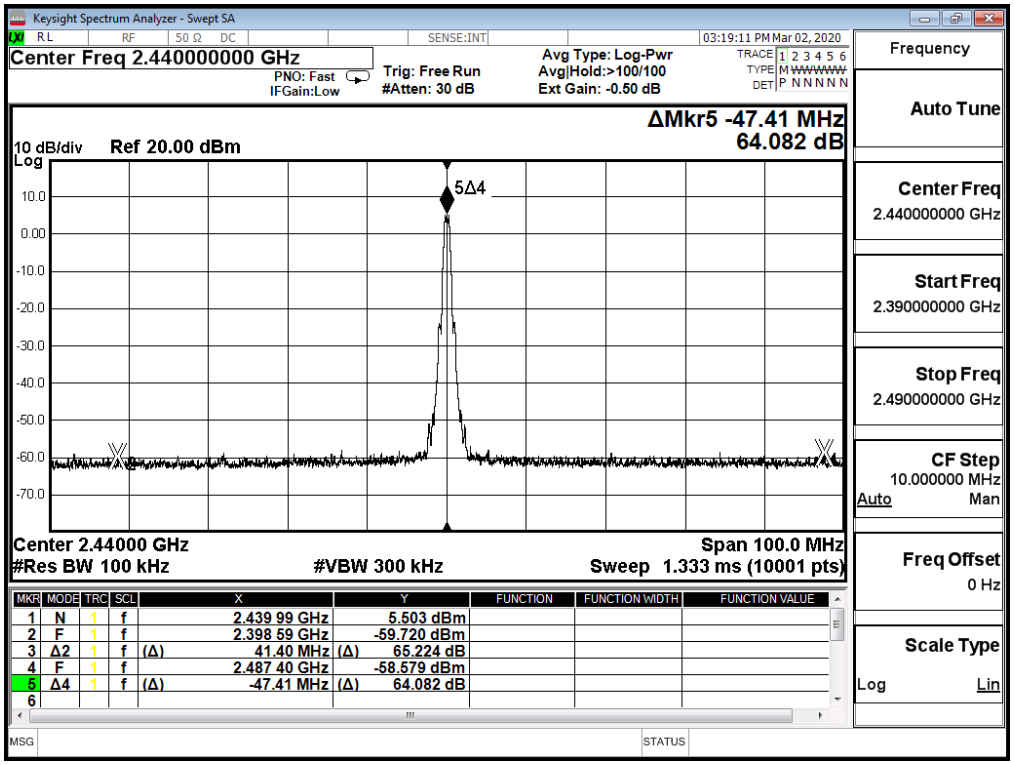
GFSK

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)
00	2402	53.629	≥20
19	2440	56.746	≥20
39	2480	55.009	≥20

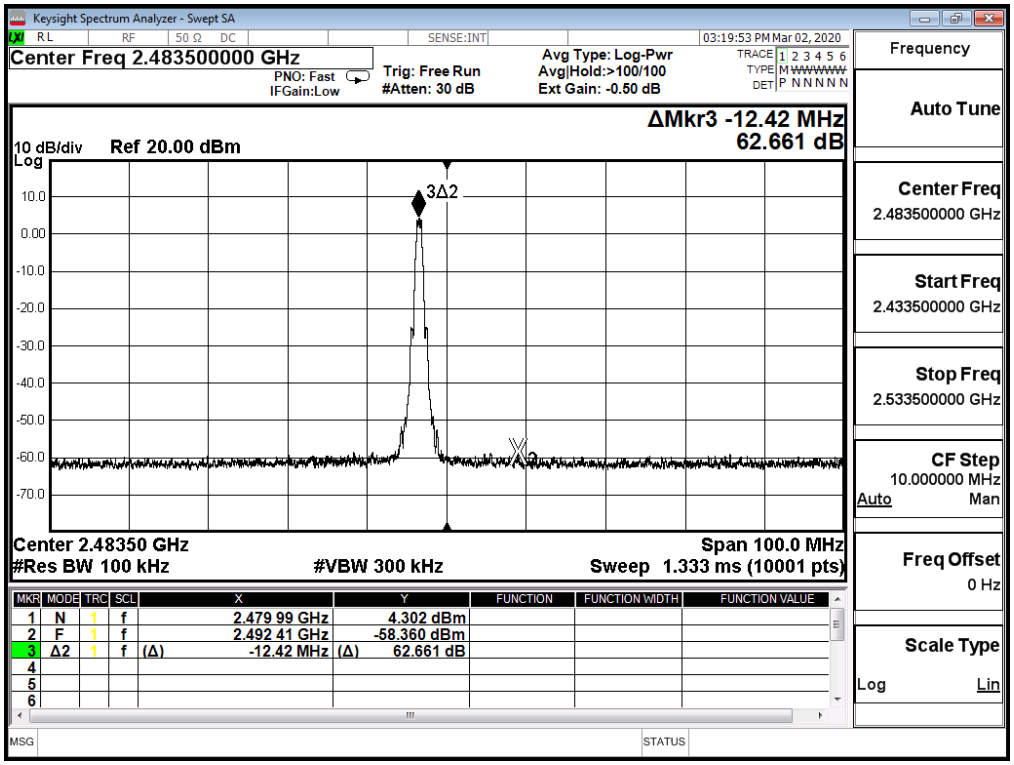
Channel 00



Channel 19

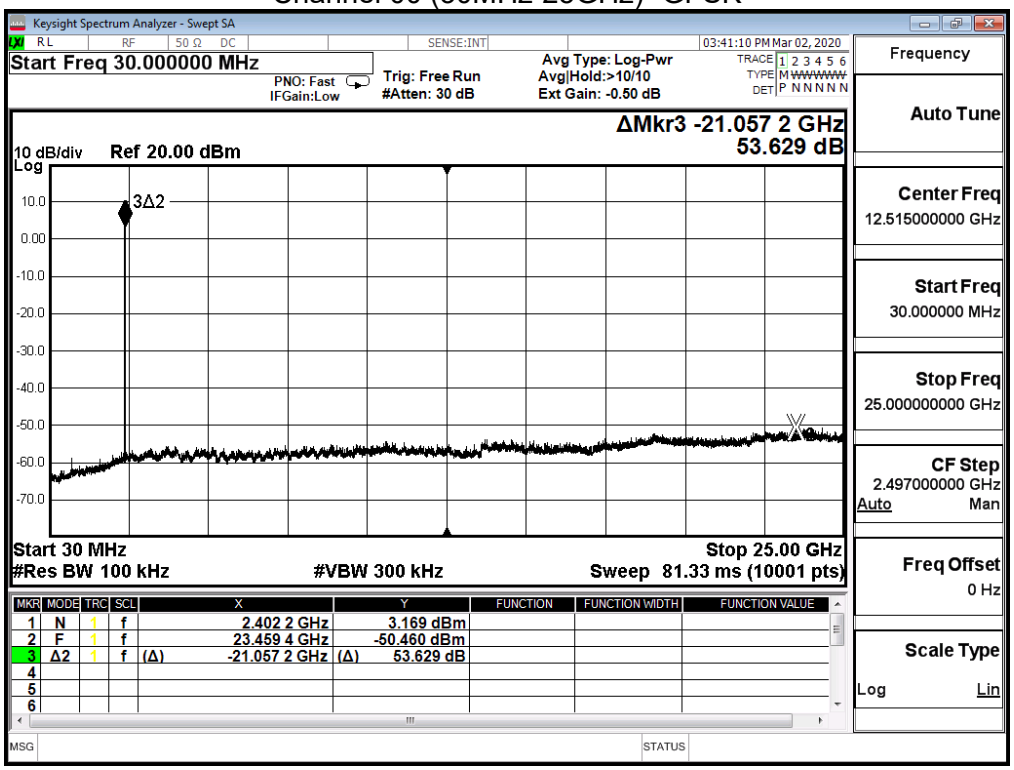


Channel 39

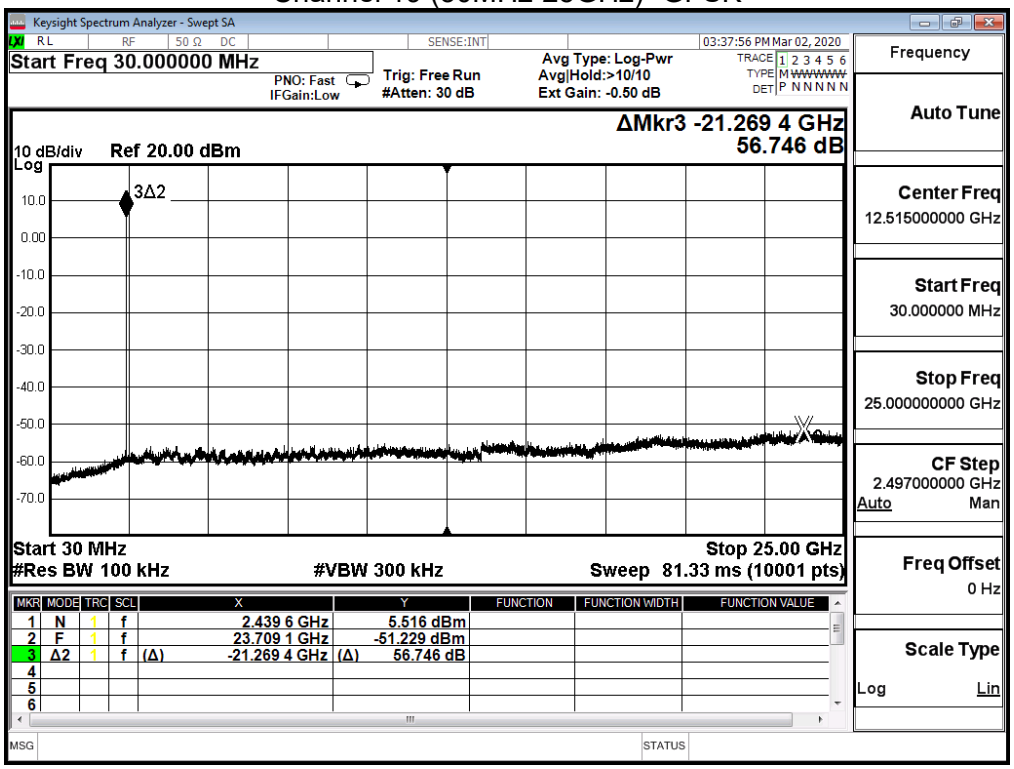


Product	Android Based UI		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/03/02	Test Site	SR12-H
Test Temperature	22.0℃	Test Humidity	55.0%

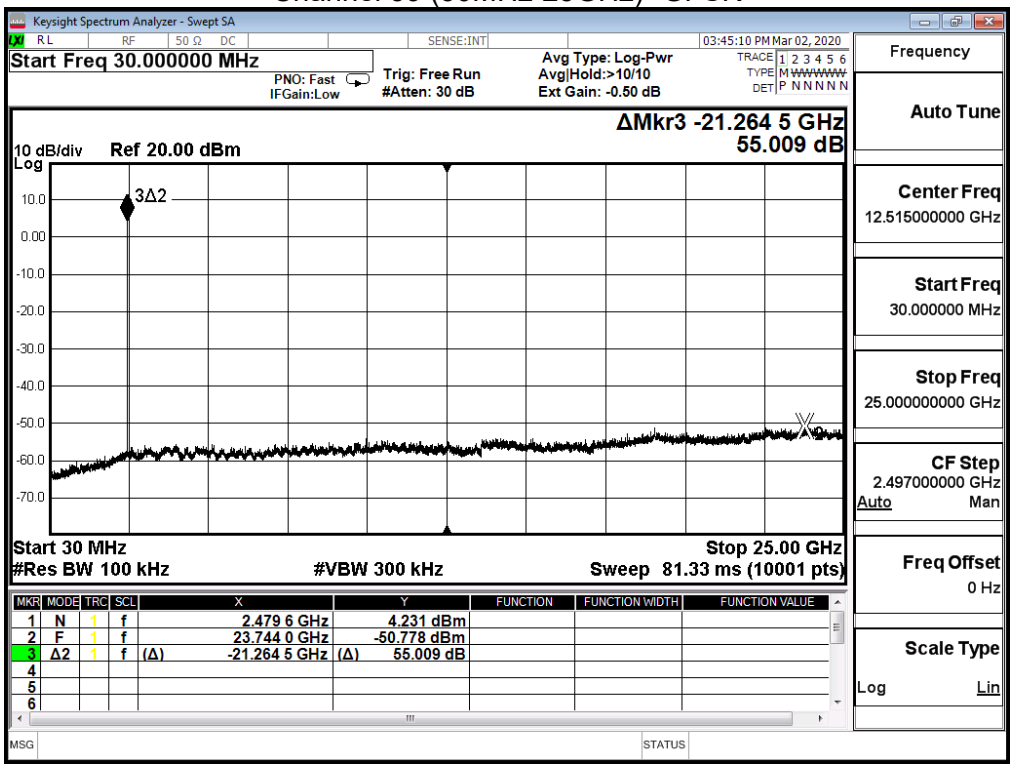
Channel 00 (30MHz-25GHz)- GFSK



Channel 19 (30MHz-25GHz)- GFSK



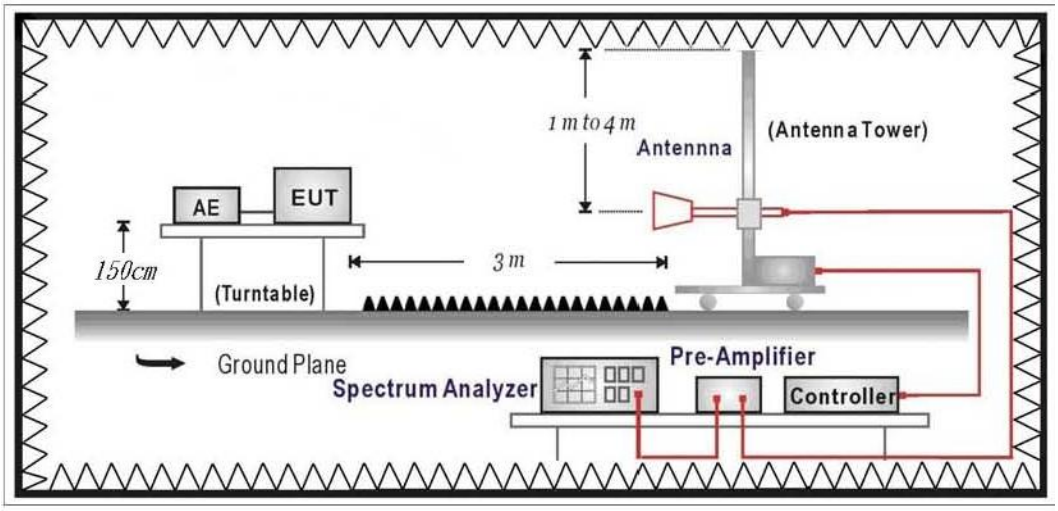
Channel 39 (30MHz-25GHz)- GFSK



6. Radiated Emission Band Edge

6.1. Test Setup

RF Radiated Measurement:



6.2. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 D01V05 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

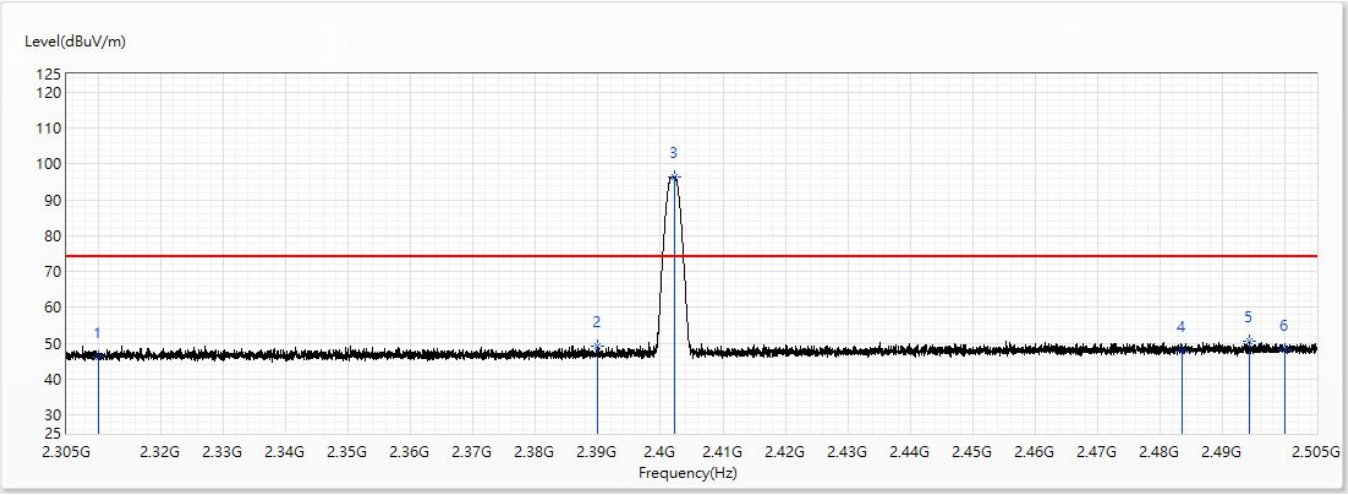
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247:2018

6.5. Test Result

Model No	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/3/2
Test Mode	Mode 1: Transmit Mode	Engineer	Scott
Polarity	Horizontal	Temperature (℃)	18.5
Test Condition	802.15.1_2402MHz	Humidity (%RH)	51.0

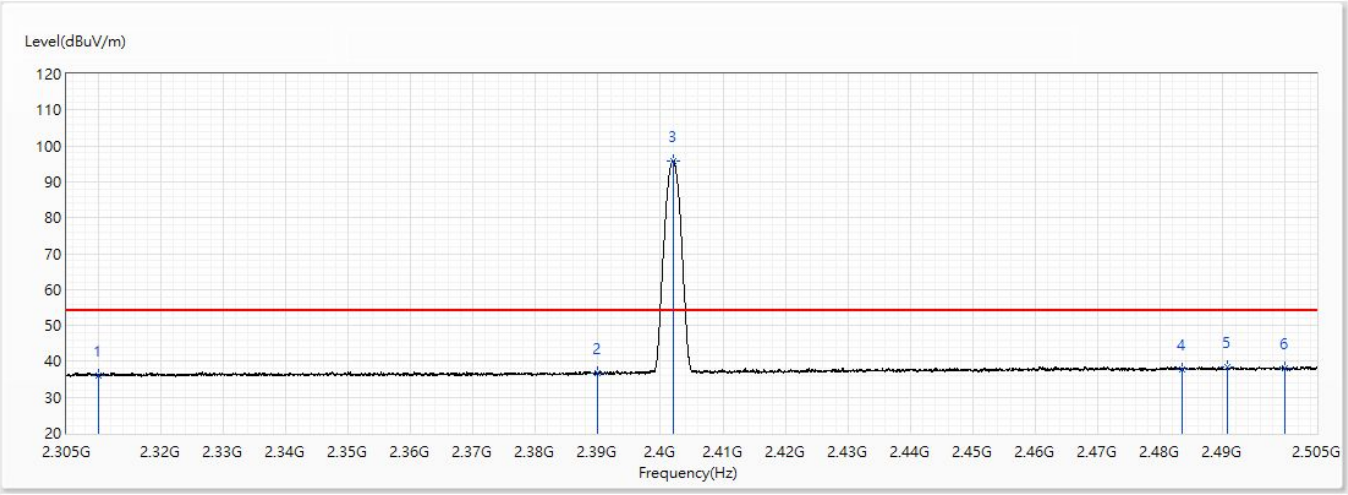


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	46.14	74.00	-27.86	30.57	15.57	PK
2	2390	49.29	74.00	-24.71	33.13	16.16	PK
! 3	2402.175	96.30	74.00	22.30	80.05	16.25	PK
4	2483.5	47.79	74.00	-26.21	30.93	16.86	PK
5	2494.2	50.73	74.00	-23.27	33.79	16.94	PK
6	2500	48.16	74.00	-25.84	31.18	16.98	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Model No	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/3/2
Test Mode	Mode 1: Transmit Mode	Engineer	Scott
Polarity	Horizontal	Temperature (℃)	18.5
Test Condition	802.15.1_2402MHz	Humidity (%RH)	51.0

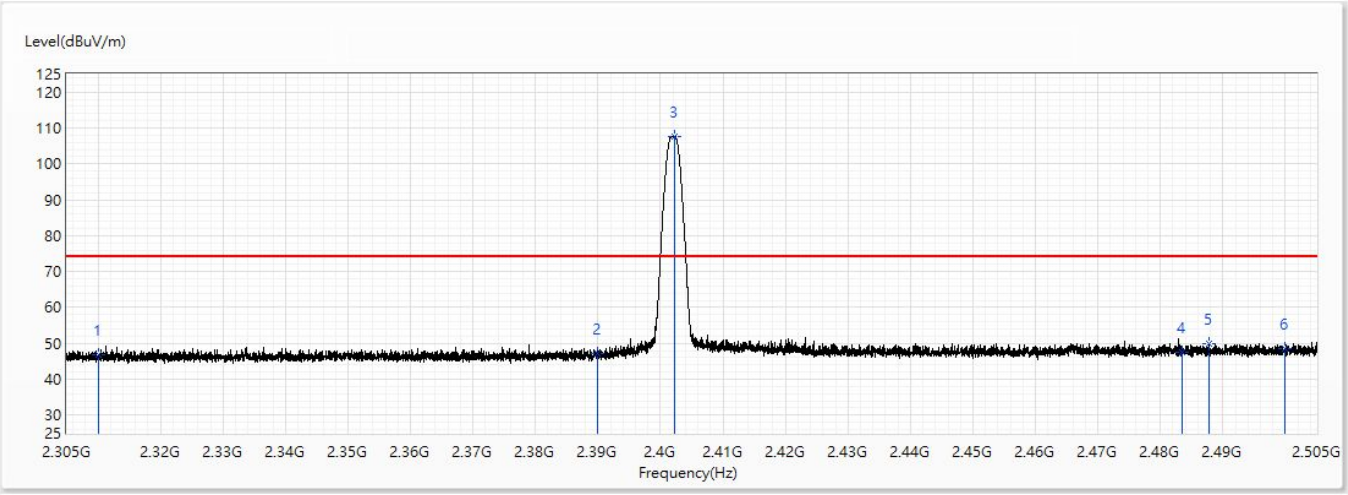


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	35.95	54.00	-18.05	20.38	15.57	AV
2	2390	36.63	54.00	-17.37	20.47	16.16	AV
! 3	2402.025	95.86	54.00	41.86	79.61	16.25	AV
4	2483.5	37.88	54.00	-16.12	21.02	16.86	AV
5	2490.725	38.53	54.00	-15.47	21.62	16.91	AV
6	2500	37.94	54.00	-16.06	20.96	16.98	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Model No	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/3/2
Test Mode	Mode 1: Transmit Mode	Engineer	Scott
Polarity	Vertical	Temperature (℃)	18.5
Test Condition	802.15.1_2402MHz	Humidity (%RH)	51.0

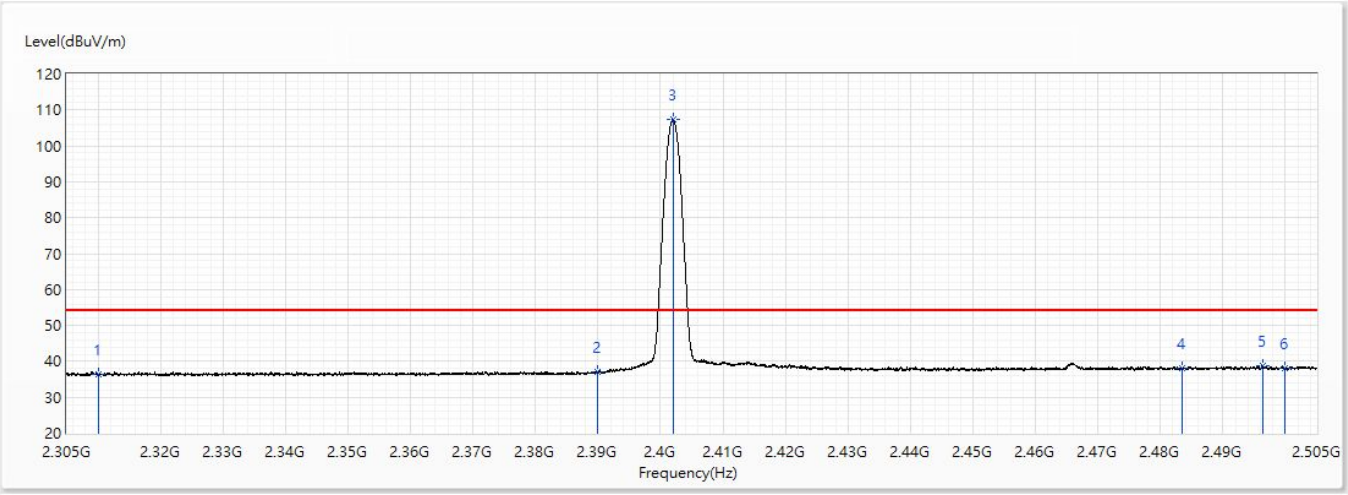


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	46.76	74.00	-27.24	31.19	15.57	PK
2	2390	47.14	74.00	-26.86	30.98	16.16	PK
! 3	2402.175	107.76	74.00	33.76	91.51	16.25	PK
4	2483.5	47.42	74.00	-26.58	30.56	16.86	PK
5	2487.7	50.06	74.00	-23.94	33.17	16.89	PK
6	2500	48.58	74.00	-25.42	31.60	16.98	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Model No	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/3/2
Test Mode	Mode 1: Transmit Mode	Engineer	Scott
Polarity	Vertical	Temperature (℃)	18.5
Test Condition	802.15.1_2402MHz	Humidity (%RH)	51.0

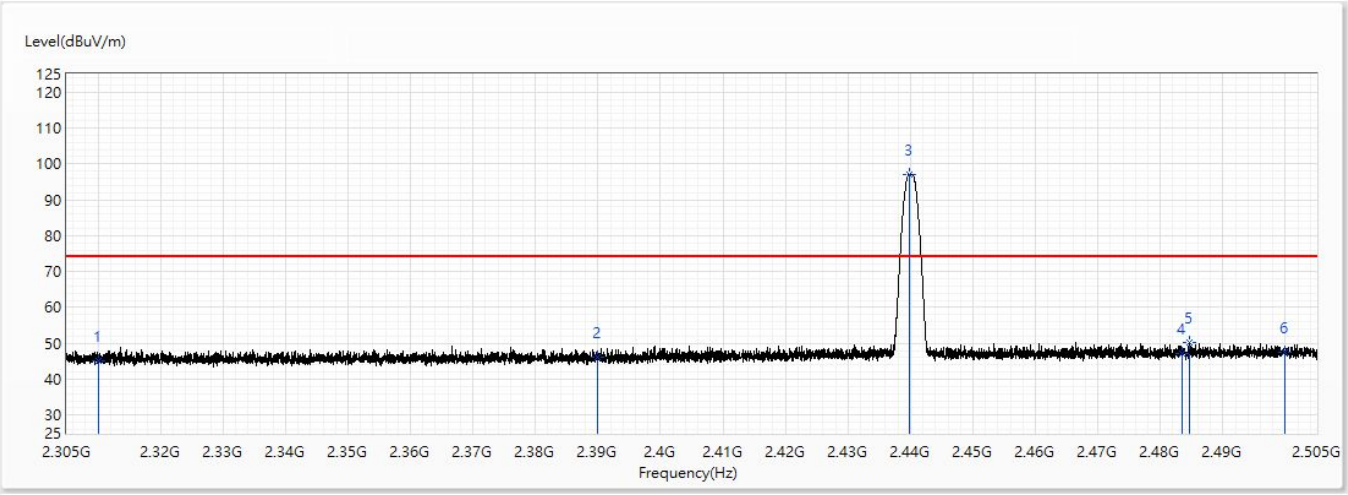


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	36.42	54.00	-17.58	20.85	15.57	AV
2	2390	36.93	54.00	-17.07	20.77	16.16	AV
! 3	2402	107.29	54.00	53.29	91.04	16.25	AV
4	2483.5	38.10	54.00	-15.90	21.24	16.86	AV
5	2496.3	38.69	54.00	-15.31	21.74	16.95	AV
6	2500	37.98	54.00	-16.02	21.00	16.98	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Model No	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/3/2
Test Mode	Mode 1: Transmit Mode	Engineer	Scott
Polarity	Horizontal	Temperature (℃)	18.5
Test Condition	802.15.1_2440MHz	Humidity (%RH)	51.0

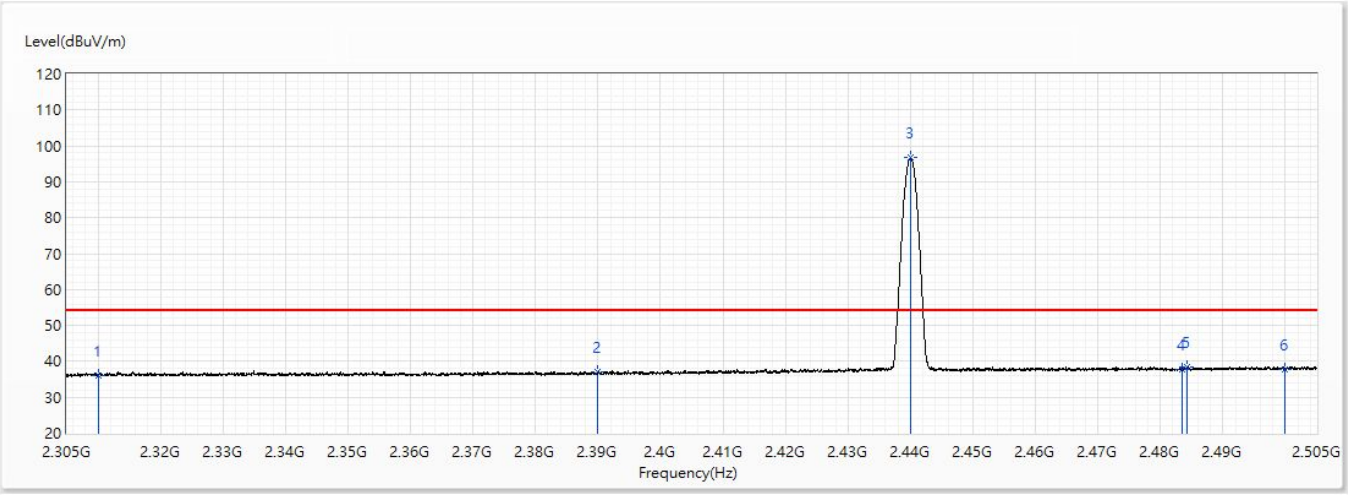


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	45.07	74.00	-28.93	29.50	15.57	PK
2	2390	46.26	74.00	-27.74	30.10	16.16	PK
! 3	2439.8	97.17	74.00	23.17	80.64	16.53	PK
4	2483.5	47.29	74.00	-26.71	30.43	16.86	PK
5	2484.7	50.30	74.00	-23.70	33.44	16.86	PK
6	2500	47.50	74.00	-26.50	30.52	16.98	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Model No	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/3/2
Test Mode	Mode 1: Transmit Mode	Engineer	Scott
Polarity	Horizontal	Temperature (℃)	18.5
Test Condition	802.15.1_2440MHz	Humidity (%RH)	51.0

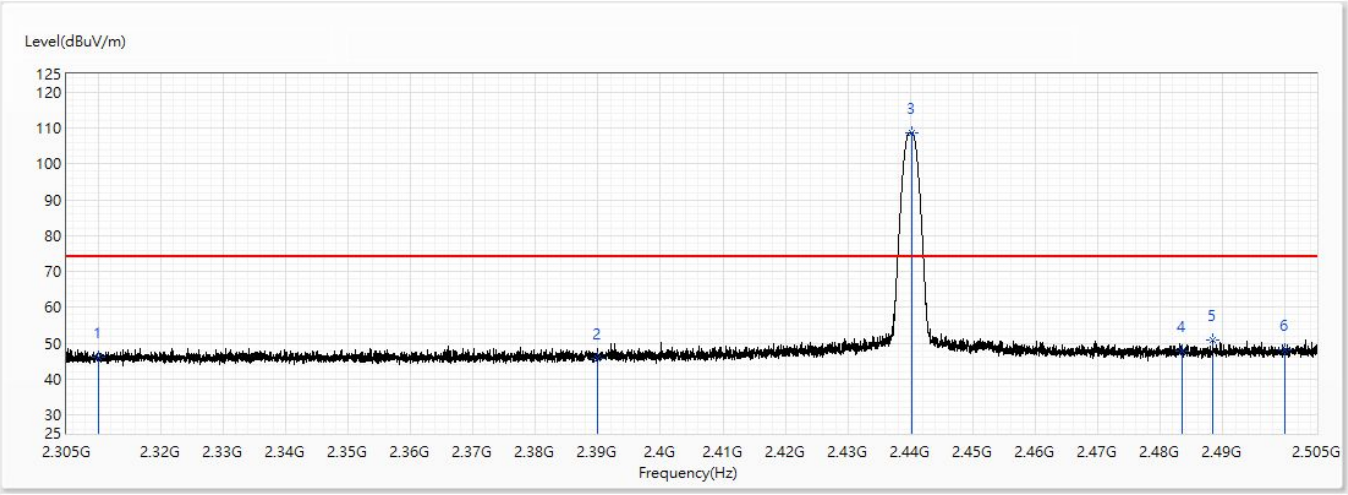


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	36.12	54.00	-17.88	20.55	15.57	AV
2	2390	36.95	54.00	-17.05	20.79	16.16	AV
! 3	2440.025	96.71	54.00	42.71	80.18	16.53	AV
4	2483.5	37.75	54.00	-16.25	20.89	16.86	AV
5	2484.275	38.40	54.00	-15.60	21.54	16.86	AV
6	2500	37.87	54.00	-16.13	20.89	16.98	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Model No	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/3/2
Test Mode	Mode 1: Transmit Mode	Engineer	Scott
Polarity	Vertical	Temperature (℃)	18.5
Test Condition	802.15.1_2440MHz	Humidity (%RH)	51.0

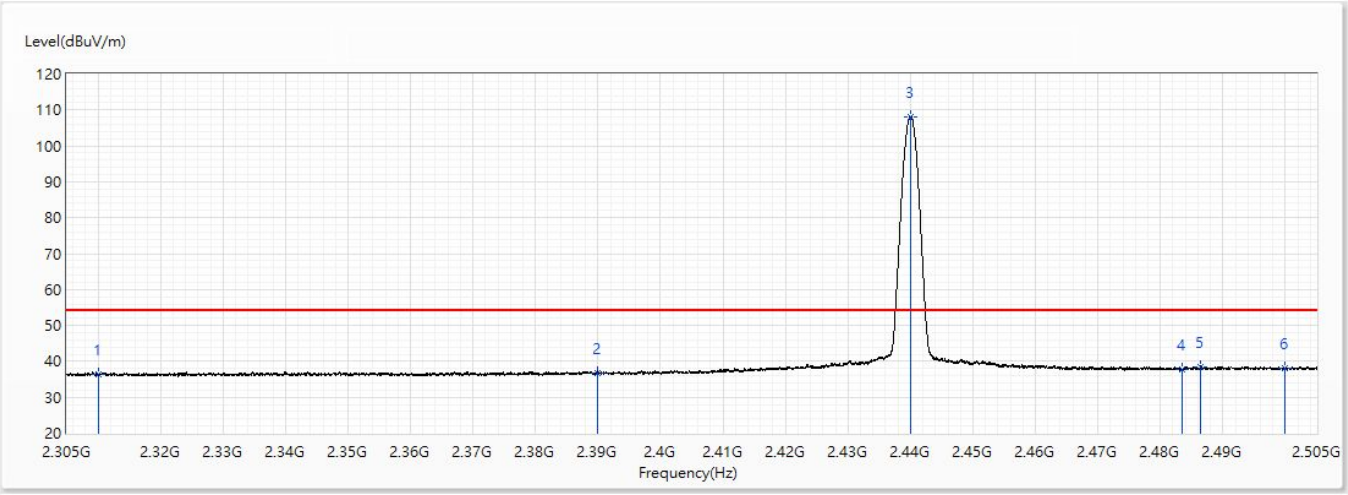


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	46.07	74.00	-27.93	30.50	15.57	PK
2	2390	45.92	74.00	-28.08	29.76	16.16	PK
! 3	2440.175	108.59	74.00	34.59	92.06	16.53	PK
4	2483.5	47.78	74.00	-26.22	30.92	16.86	PK
5	2488.325	50.80	74.00	-23.20	33.90	16.90	PK
6	2500	48.11	74.00	-25.89	31.13	16.98	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Model No	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/3/2
Test Mode	Mode 1: Transmit Mode	Engineer	Scott
Polarity	Vertical	Temperature (℃)	18.5
Test Condition	802.15.1_2440MHz	Humidity (%RH)	51.0

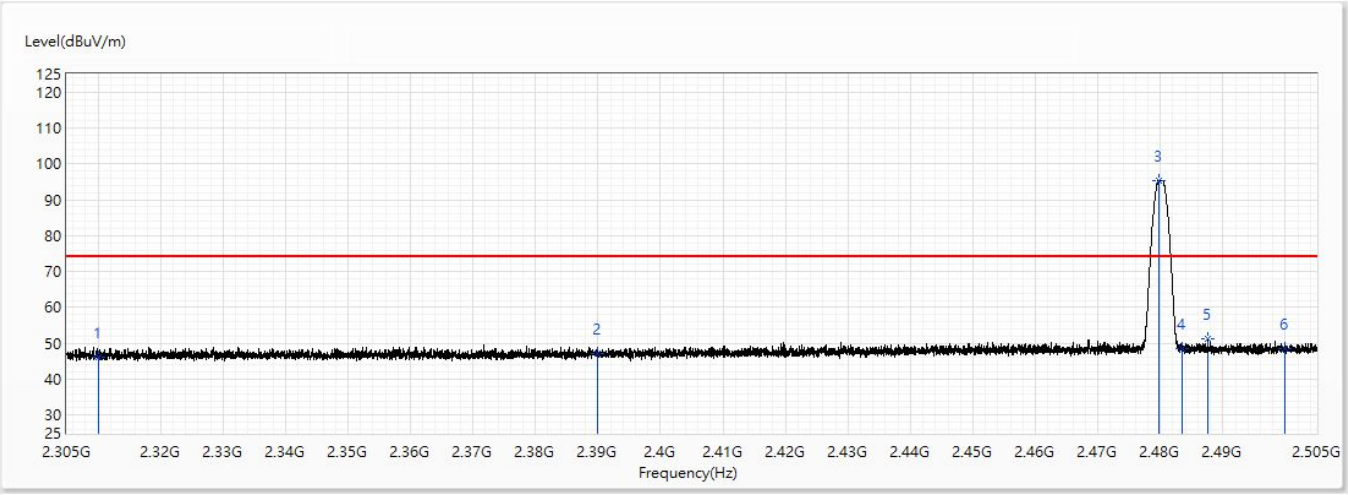


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	36.34	54.00	-17.66	20.77	15.57	AV
2	2390	36.67	54.00	-17.33	20.51	16.16	AV
! 3	2440	108.13	54.00	54.13	91.60	16.53	AV
4	2483.5	37.82	54.00	-16.18	20.96	16.86	AV
5	2486.4	38.45	54.00	-15.55	21.57	16.88	AV
6	2500	38.17	54.00	-15.83	21.19	16.98	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Model No	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/3/2
Test Mode	Mode 1: Transmit Mode	Engineer	Scott
Polarity	Horizontal	Temperature (℃)	18.5
Test Condition	802.15.1_2480MHz	Humidity (%RH)	51.0

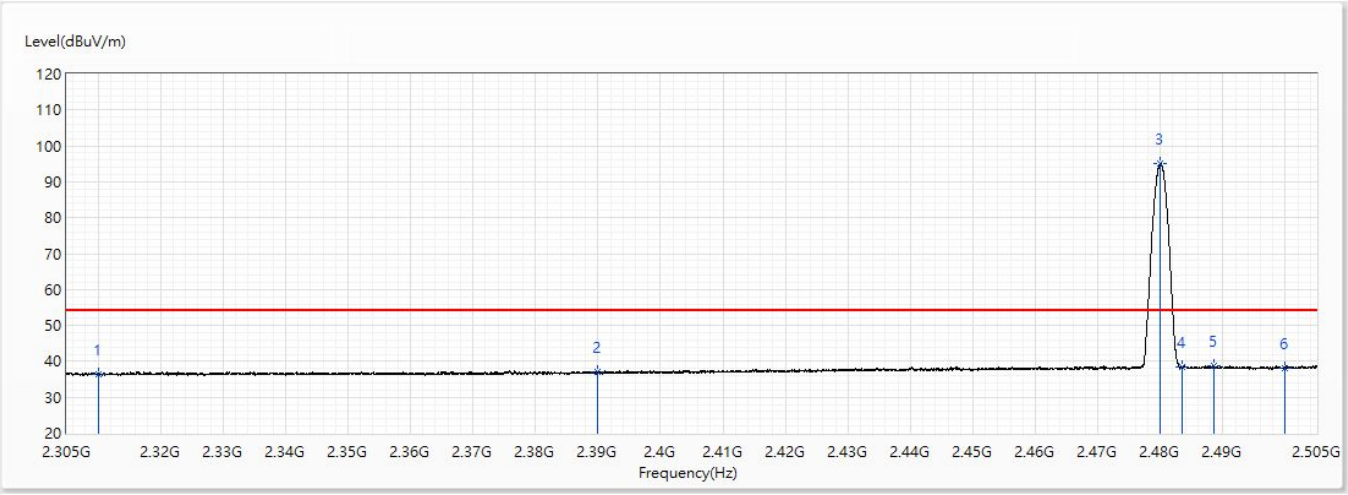


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	46.11	74.00	-27.89	30.54	15.57	PK
2	2390	47.09	74.00	-26.91	30.93	16.16	PK
! 3	2479.775	95.45	74.00	21.45	78.62	16.83	PK
4	2483.5	48.66	74.00	-25.34	31.80	16.86	PK
5	2487.525	51.24	74.00	-22.76	34.35	16.89	PK
6	2500	48.51	74.00	-25.49	31.53	16.98	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Model No	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/3/2
Test Mode	Mode 1: Transmit Mode	Engineer	Scott
Polarity	Horizontal	Temperature (℃)	18.5
Test Condition	802.15.1_2480MHz	Humidity (%RH)	51.0

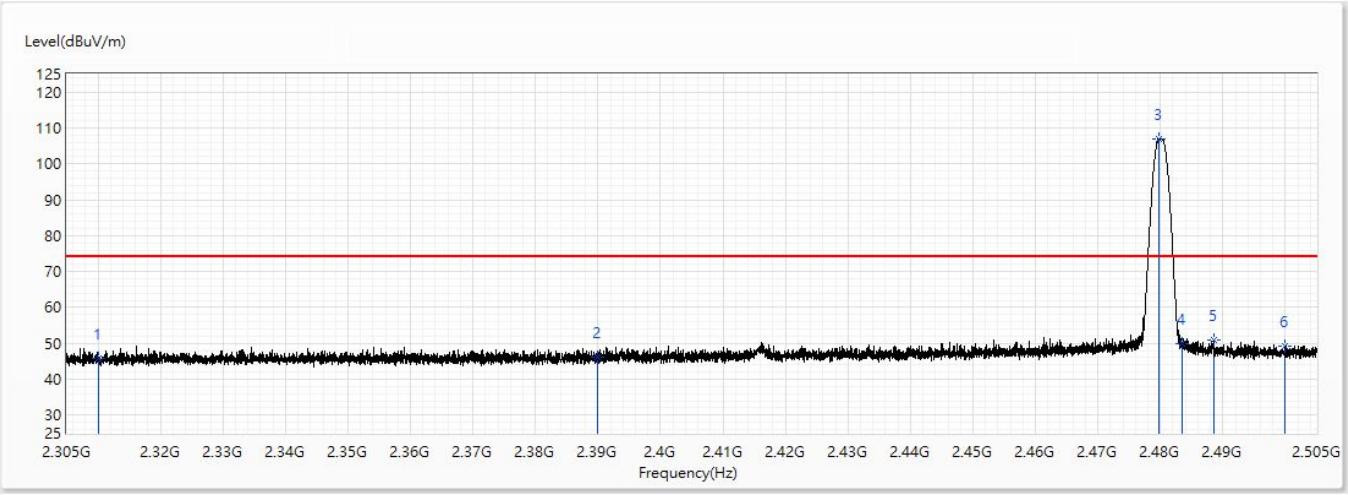


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	36.37	54.00	-17.63	20.80	15.57	AV
2	2390	37.19	54.00	-16.81	21.03	16.16	AV
! 3	2480.025	95.00	54.00	41.00	78.17	16.83	AV
4	2483.5	38.34	54.00	-15.66	21.48	16.86	AV
5	2488.525	38.76	54.00	-15.24	21.86	16.90	AV
6	2500	38.18	54.00	-15.82	21.20	16.98	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Model No	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/3/2
Test Mode	Mode 1: Transmit Mode	Engineer	Scott
Polarity	Vertical	Temperature (℃)	18.5
Test Condition	802.15.1_2480MHz	Humidity (%RH)	51.0

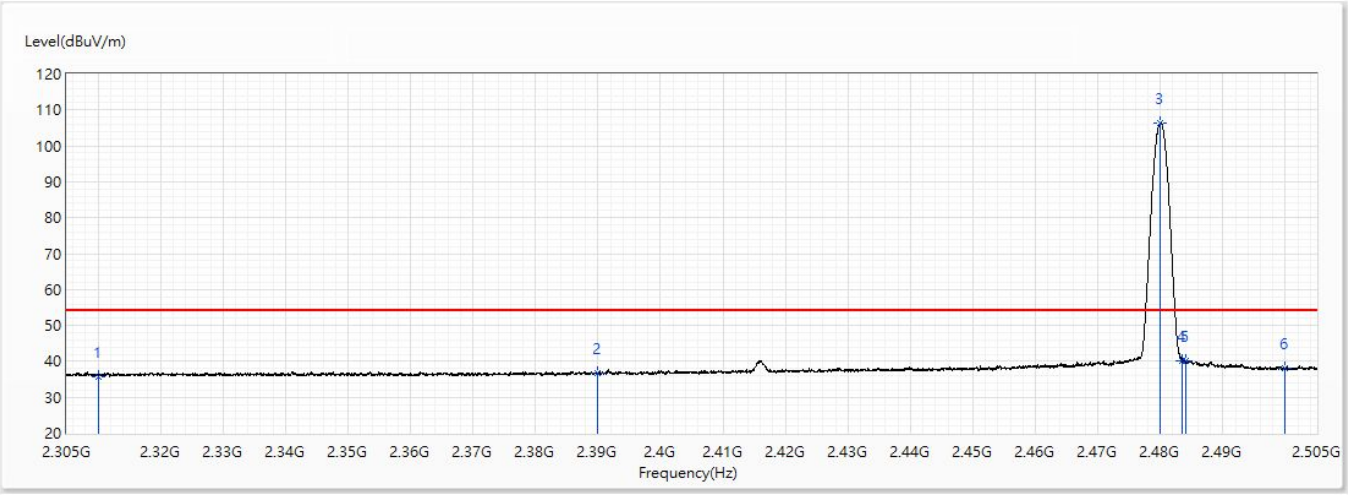


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	45.78	74.00	-28.22	30.21	15.57	PK
2	2390	46.24	74.00	-27.76	30.08	16.16	PK
! 3	2479.8	106.97	74.00	32.97	90.14	16.83	PK
4	2483.5	49.83	74.00	-24.17	32.97	16.86	PK
5	2488.475	50.84	74.00	-23.16	33.94	16.90	PK
6	2500	49.23	74.00	-24.77	32.25	16.98	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Model No	CSD-ELINK2	Site	CB2-H
Test Voltage	DC 5V	Test Date	2020/3/2
Test Mode	Mode 1: Transmit Mode	Engineer	Scott
Polarity	Vertical	Temperature (℃)	18.5
Test Condition	802.15.1_2480MHz	Humidity (%RH)	51.0



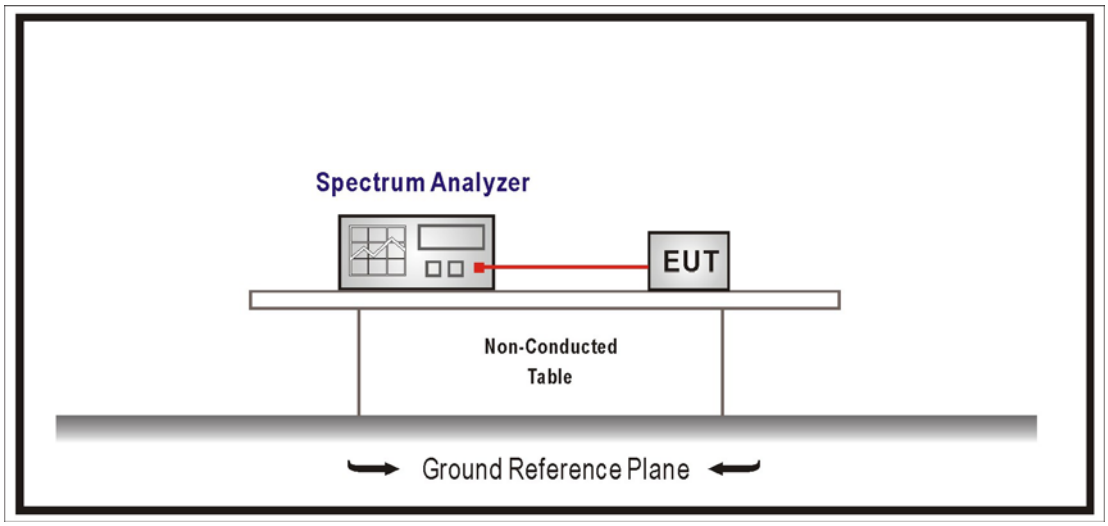
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	35.87	54.00	-18.13	20.30	15.57	AV
2	2390	36.72	54.00	-17.28	20.56	16.16	AV
! 3	2480.025	106.50	54.00	52.50	89.67	16.83	AV
4	2483.5	40.06	54.00	-13.94	23.20	16.86	AV
5	2484.025	40.19	54.00	-13.81	23.33	16.86	AV
6	2500	37.96	54.00	-16.04	20.98	16.98	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

7. Occupied Bandwidth & DTS Bandwidth

7.1. Test Setup



7.2. Limits

The 6 dB bandwidth: ≧ 500 kHz.

Occupied Bandwidth: NA

7.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB558074 D01V05 for compliance to FCC 47CFR 15.247 requirements.

7.4. Test Specification

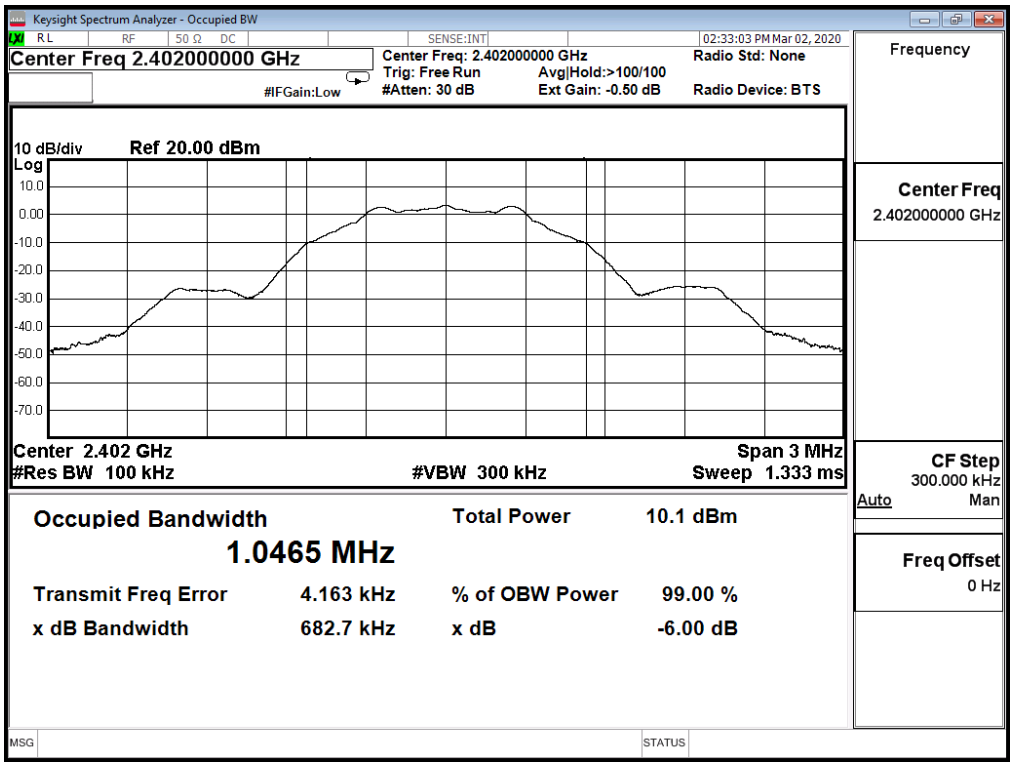
According to FCC Part 15 Subpart C Paragraph 15.247:2018

7.5. Test Result

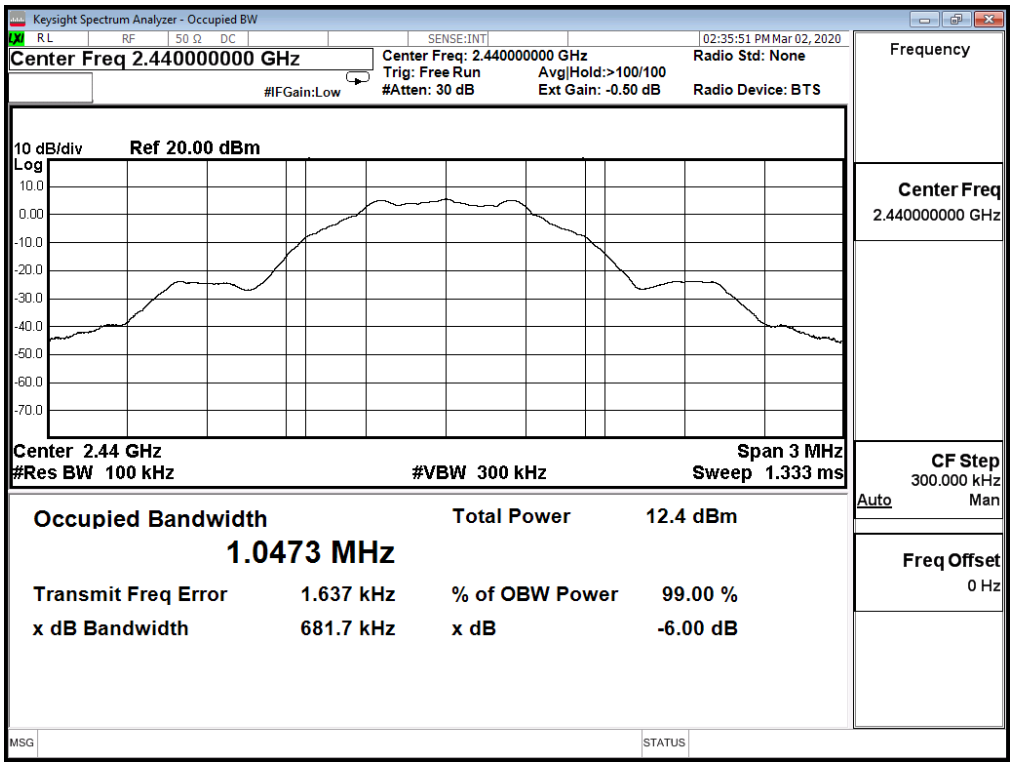
Product	Android Based UI		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/03/02	Test Site	SR12-H
Test Temperature	22.0℃	Test Humidity	55.0%

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	1.046	--
19	2440	1.047	--
39	2480	1.047	--

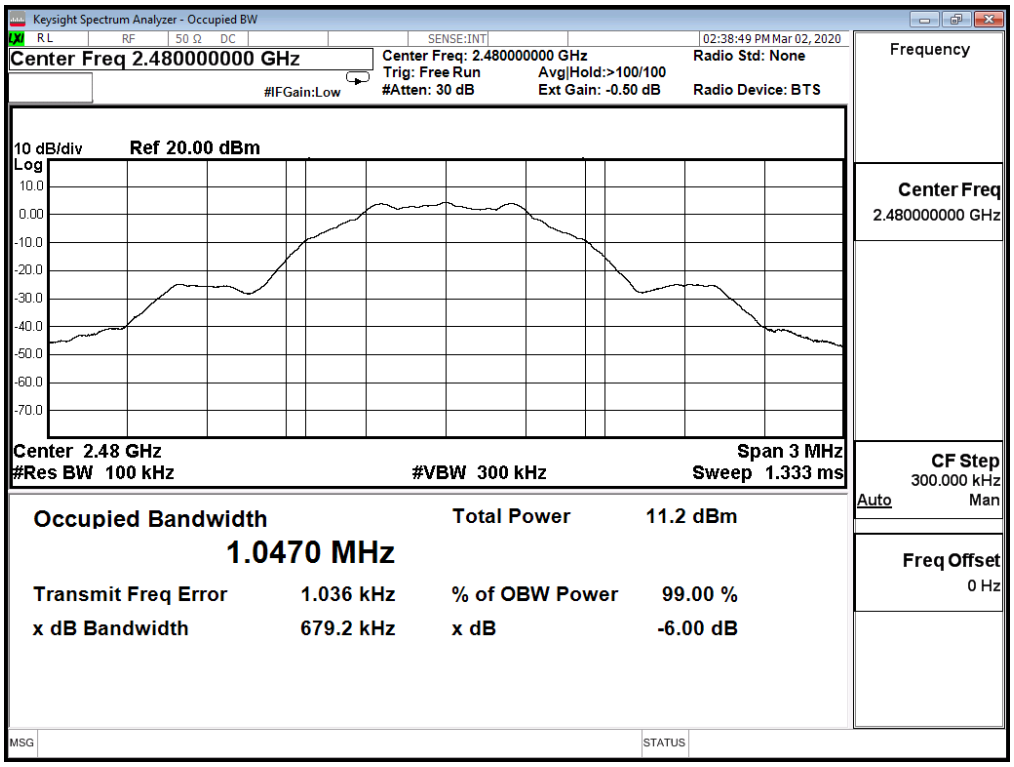
Channel 00



Channel 19



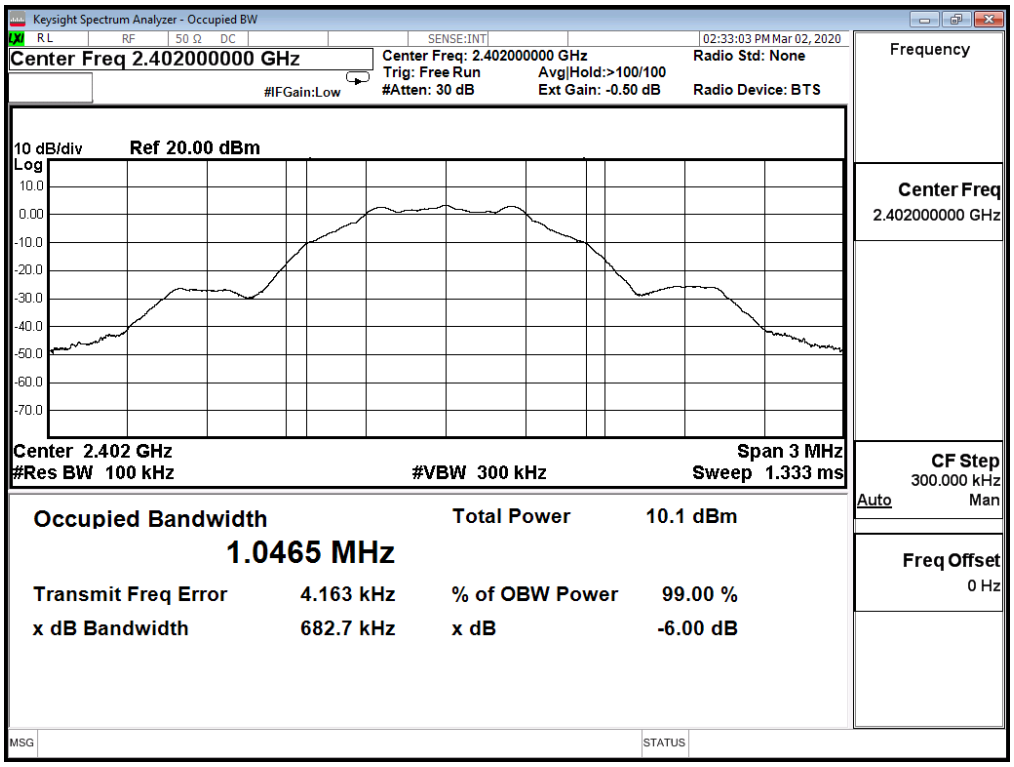
Channel 39



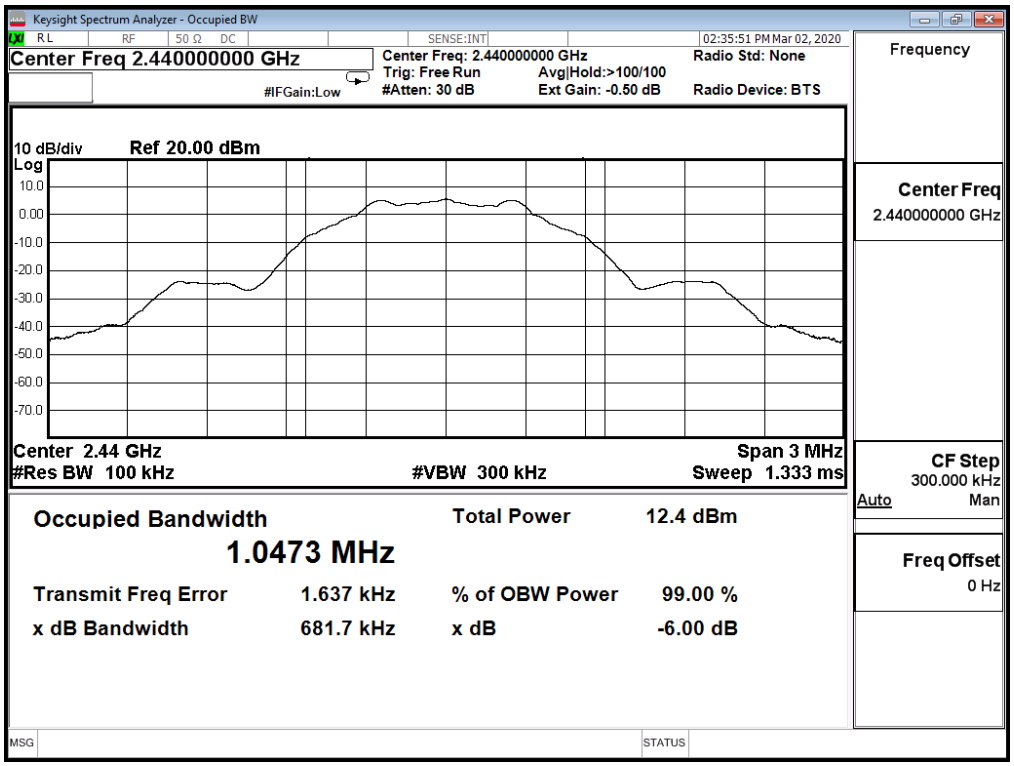
Product	Android Based UI		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/03/02	Test Site	SR12-H
Test Temperature	22.0℃	Test Humidity	55.0%

Channel No.	Frequency (MHz)	Measure Level (KHz)	Limit (KHz)
00	2402	0.682	≧500
19	2440	0.681	≧500
39	2480	0.679	≧500

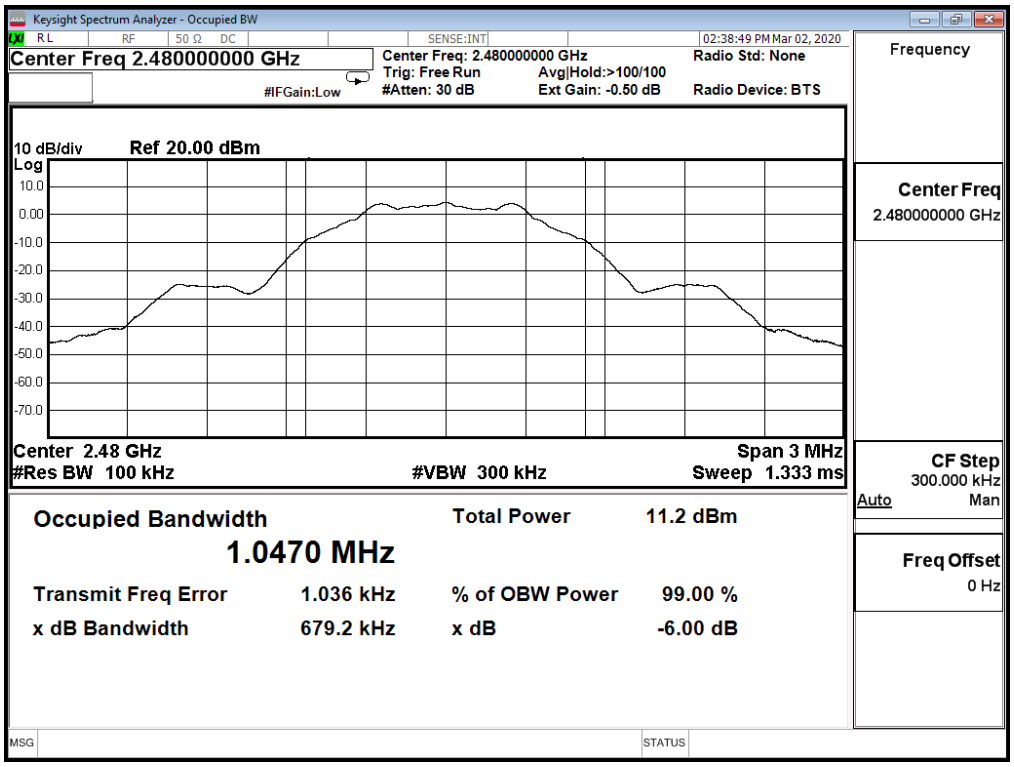
Channel 00



Channel 19

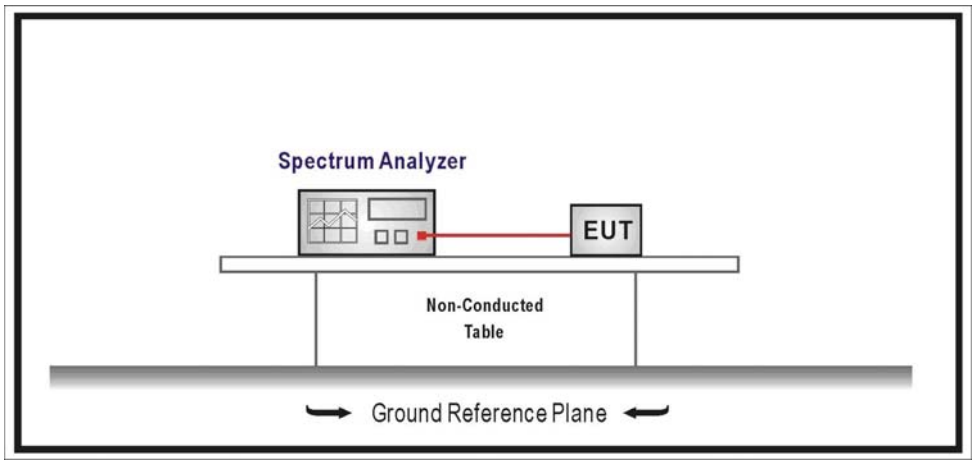


Channel 39



8. Power Density

8.1. Test Setup



8.2. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

8.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB558074 D01V05 for compliance to FCC 47CFR 15.247 requirements.

8.4. Test Specification

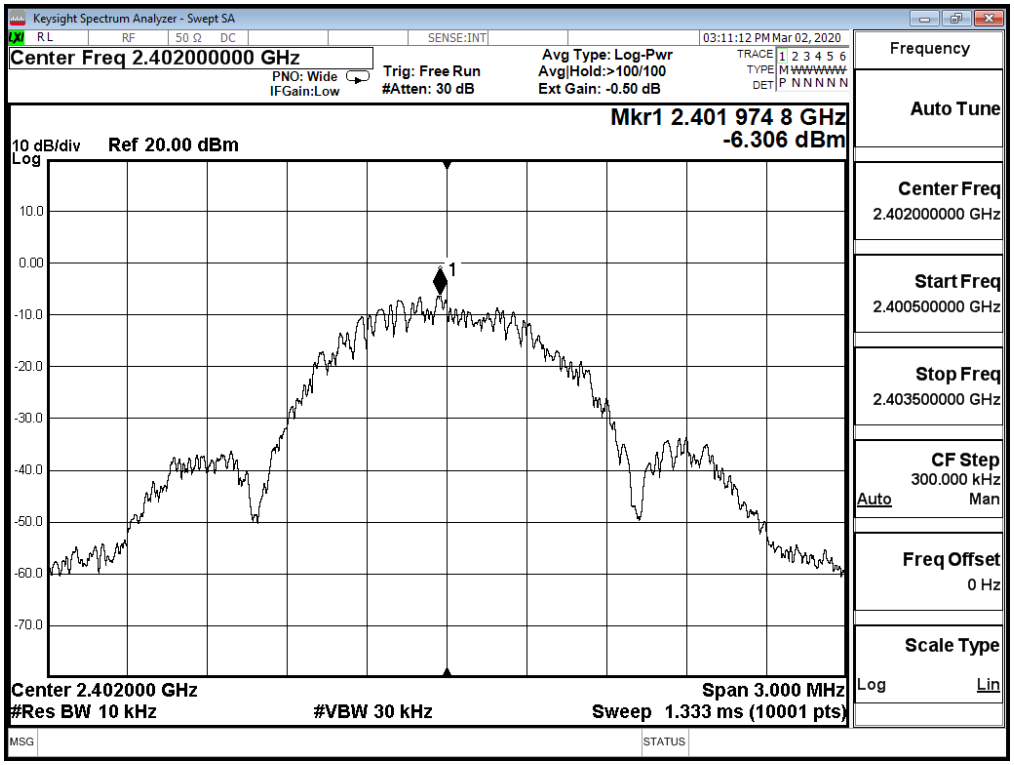
According to FCC Part 15 Subpart C Paragraph 15.247

8.5. Test Result

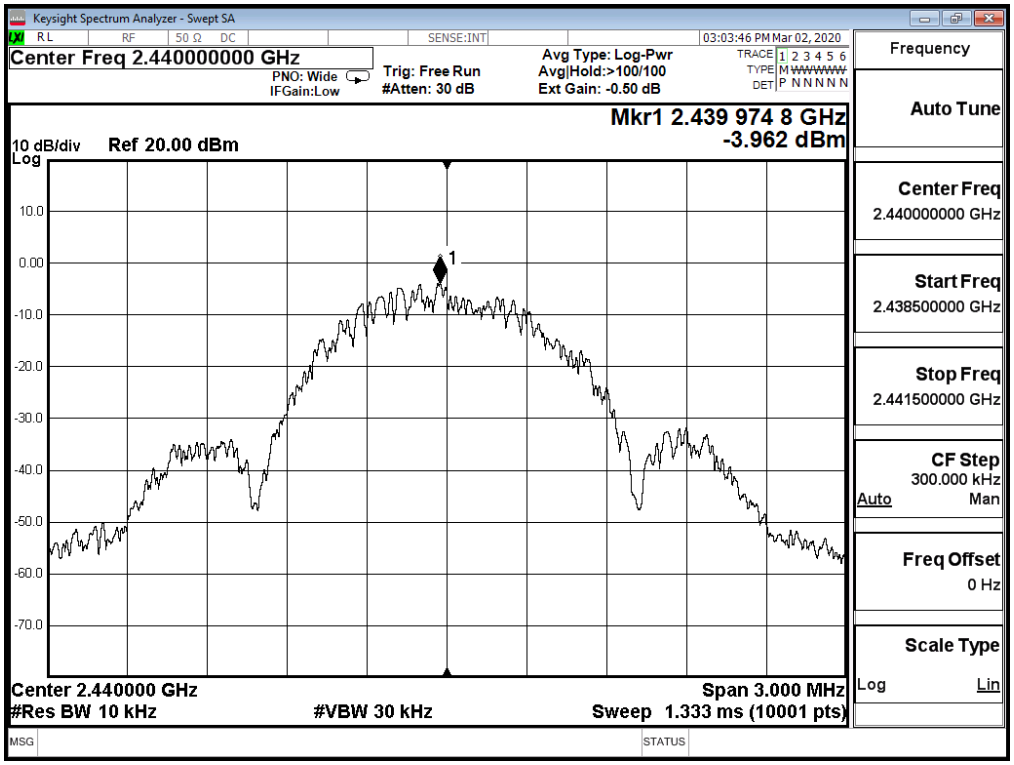
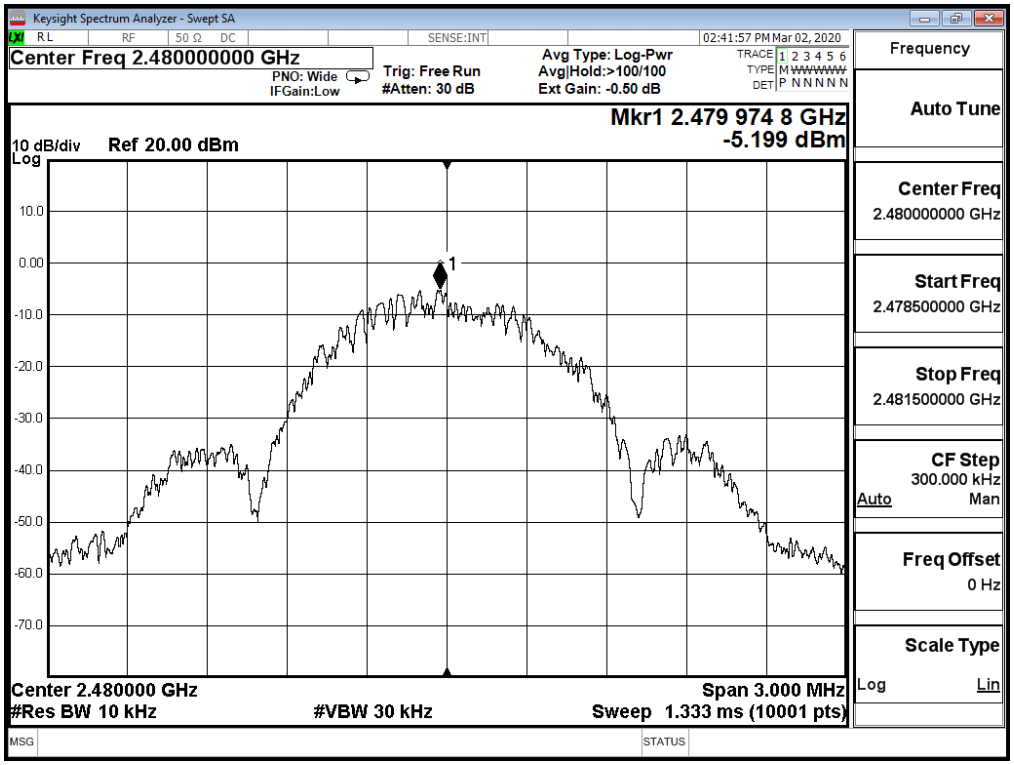
Product	Android Based UI		
Test Item	Power Density		
Test Mode	Mode 1: Transmit Mode		
Date of Test	2020/03/02	Test Site	SR12-H
Test Temperature	22.0℃	Test Humidity	55.0%

Channel No.	Frequency (MHz)	Measure Vaule (dBm/3KHz)	Limit (dBm/3KHz)
00	2402	-6.306	≦8
19	2440	-3.962	≦8
39	2480	-5.199	≦8

Channel 00



Channel 19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