FCC/ISED Test Report

Product Name	：	PRO SPD/CAD Sensor
Trade Name	：	LEZYNE
Model No.	：	PRO SPEED, PRO CADENCE
FCC ID.	：	2AD4S-PROSV104
IC ID.	：	20084-PROSV104

Applicant	：	Lezyne USA, Incorporated (FCC) LEZYNE USA, INC. (ISED)
Address	：	645 Tank Farm Road Unit F, San Luis Obispo, California, 93401, United States (FCC) 645 Tank Farm Road, Unit F, San Luis Obispo, CA 93401 United States Of America (ISED)

Date of Receipt	：	Nov. 06, 2019
Issued Date	：	Jan. 13, 2020
Report No.	：	19B0085R-RFUSP01V00
Report Version	：	V1.0

Testing Laboratory
3024

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Test Report Certification

Issued Date : Jan. 13, 2020
Report No. : 19B0085R-RFUSP01V00

Product Name	:	PRO SPEED, PRO CADENCE
Applicant/ Manufacturer	:	Lezyne USA, Incorporated (FCC) LEZYNE USA, INC. (ISED)
Applicant/ Manufacturer Address	:	645 Tank Farm Road Unit F, San Luis Obispo, California, 93401, United States (FCC) 645 Tank Farm Road, Unit F, San Luis Obispo, CA 93401 United States Of America (ISED)
Trade Name	:	LEZYNE
Model No.	:	PRO SPEED, PRO CADENCE
FCC ID.	:	2AD4S-PROSV104
IC ID.	:	20084-PROSV104
EUT Voltage	:	DC 3V
Testing Voltage	:	DC 3V (Power by Battery)
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2018 RSS-GEN Issue 5 (Mar. 2019) / RSS-247 Issue 2 (Feb. 2017) 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 : Lyla Yang

(Lyla Yang / Engineering Adm. Specialist)

Tested By : Scott Chang

(Scott Chang / Engineer)

Approved By : Louis Hsu

(Louis Hsu / Deputy Manager)

Revision History

Report No.	Version	Description	Issued Date
19B0085R-RFUSP01V00	V1.0	Initial issue of report	Jan. 13, 2020

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1. General Information

1.1. EUT Description

Product Name	PRO SPD/CAD Sensor
Trade Name	LEZYNE
Model No.	PRO SPEED, PRO CADENCE
Frequency Range/Channel Number	2402~2480MHz / 40 Channels
Type of Modulation	GFSK
Hardware Version Identification Number (HVIN)	V14S.1
Software Version Identification Number (SVIN)	V05

Antenna Information	
Antenna Type	PCB Antenna
Antenna Gain	-2.4 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 a PRO SPD/CAD Sensor supports BT5.0 (1Mbps only) transmitting and receiving function.
2. The difference of each model is shown as below:

Model No.	Description
PRO SPEED	Wheel speed measurement.
PRO CADENCE	Cadence measurement.

   The HW, Component and exterior shape are all the same.
3. 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.
4. 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 output power	GFSK	00/19/39	Complies
Radiated Emission	GFSK	00/19/39	Complies
RF antenna conducted test	GFSK	00/19/39	Complies
Radiated Emission 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.

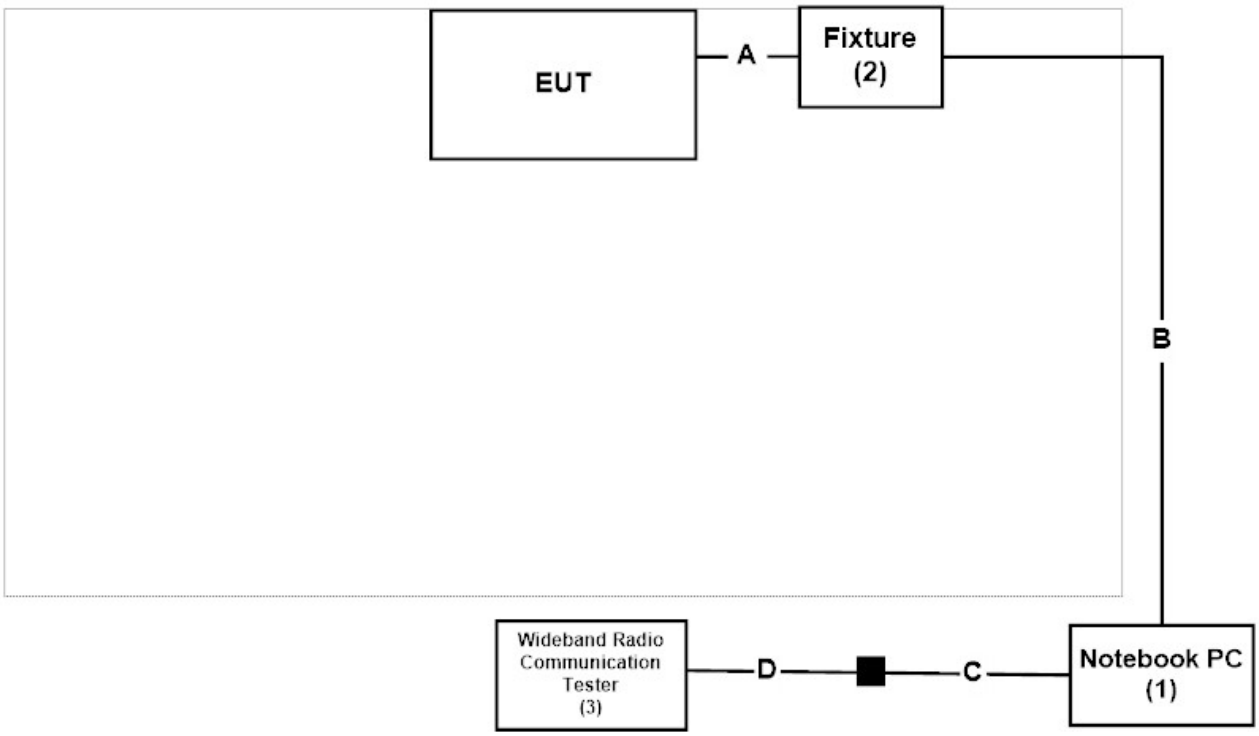
1.3. Tested System Details

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
1	Notebook	Lenovo	80T7	PF0MEEB0	DoC	Shielded, 1.8m, one ferrite core bonded.
2	Fixture	PU-YANG	0800A	K2812	DoC	--
3	Wideband Radio Communication Tester	R&S	CMW500	150246	DoC	Non-Shielded, 1.8m.

1.4. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	Signal Cable	Non-Shielded, 0.1m
B	USB Cable	Shielded, 6m
C	RS 232 Cable	Shielded, 1.5m
D	RS 232 Cable	Shielded, 1.5m

1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the “ComTransfer” on the laptop.
3	Configure the test mode, the test channel, and the data rate.
4	Press “Start TX” or “Start RX” to start the continuous transmitting or receiving.
5	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required	Test Site
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	--
Humidity (%RH)		20 - 75	
Temperature (°C)	FCC PART 15 C 15.247 Maximum peak conducted output power	15 - 35	3
Humidity (%RH)		20 - 75	
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	2
Humidity (%RH)		20 - 75	
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	3
Humidity (%RH)		20 - 75	
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission Band Edge	15 - 35	2
Humidity (%RH)		20 - 75	
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth & DTS Bandwidth	15 - 35	3
Humidity (%RH)		20 - 75	
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	3
Humidity (%RH)		20 - 75	

Note: Test site information refers to Laboratory Information.

Laboratory Information

USA	**:**	**FCC Registration Number: TW3024**
Canada	**:**	**IC Registration Number: 22397-1 / 22397-2 / 22397-3**

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
E mail address	info.tw@dekra.com
Website	http://www.dekra.com.tw

1.7. List of Test Equipment

Maximum peak conducted output power / SR10-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	2019/03/15	2020/03/14
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	2019/01/16	2020/01/15
Pre-Amplifier	DEKRA	AP-025C	201801236	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 / SR10-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	2019/03/15	2020/03/14
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	2019/01/16	2020/01/15
Pre-Amplifier	DEKRA	AP-025C	201801236	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 / SR10-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 / SR10-H

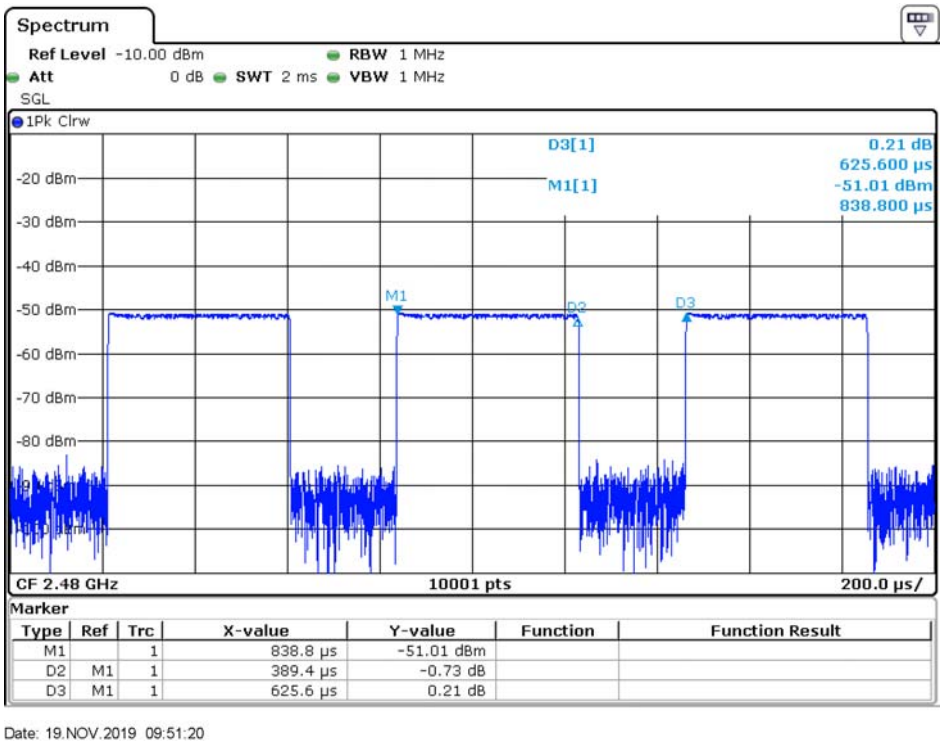
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S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

Frequency	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
2480	0.389	0.626	62.14%	4.132495	2.57

2480MHz

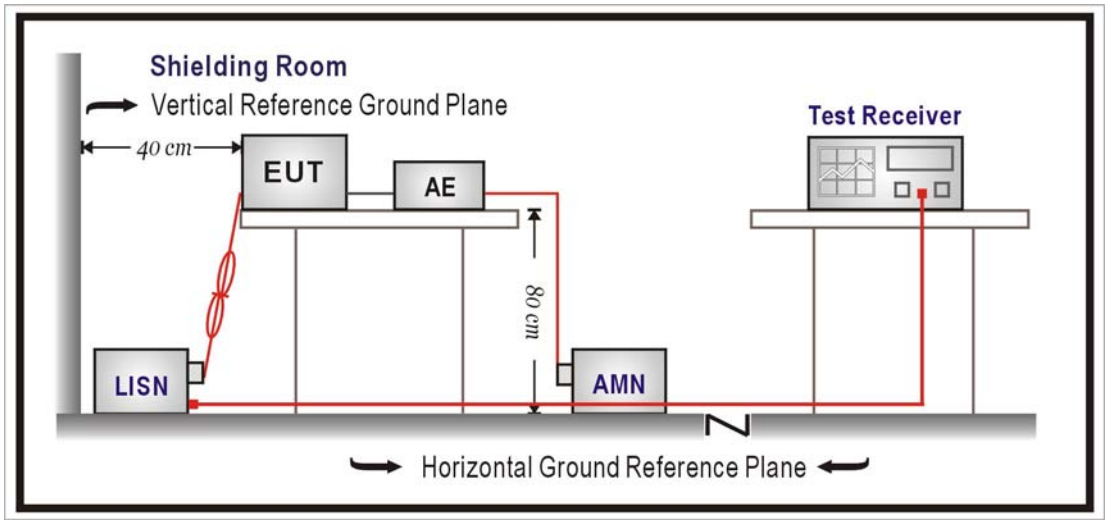


1.9. Uncertainty

Test item	Uncertainty
Conducted Emission	± 2.26 dB
Maximum peak conducted output power	± 1.27 dB
Radiated Emission	30MHz～1GHz as ± 3.43 dB 1GHz～26.5GHz as ± 3.65 dB
RF antenna conducted test	± 1.27 dB
Radiated Emission Radiated Emission Band Edge	± 3.9 dB
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

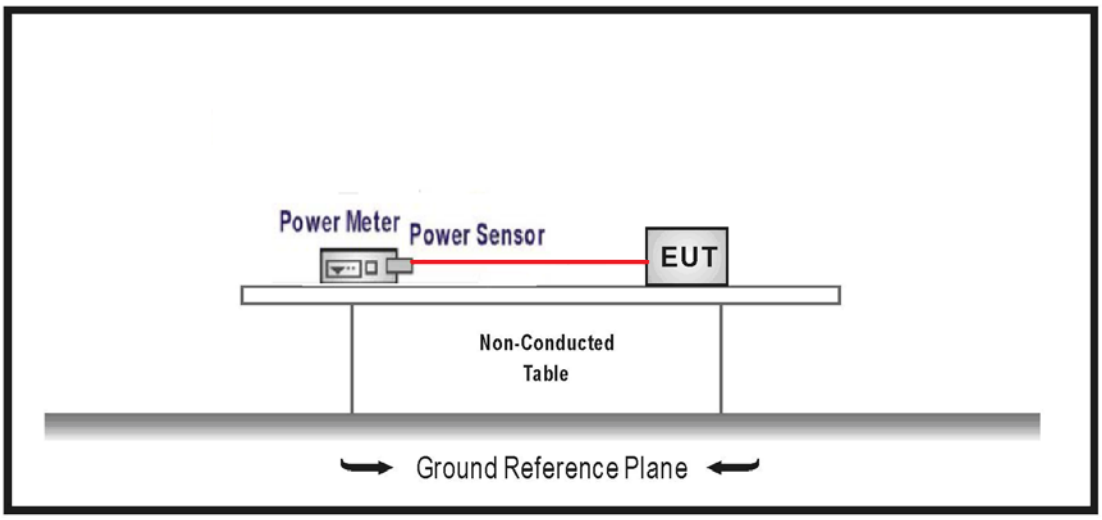
According to FCC Part 15 Subpart C Paragraph 15.207 and ISED RSS-247.

2.5. Test Result

Owing to the DC operation of EUT (Powered by Battery), 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 V05 r02 for compliance to FCC 47CFR 15.247 requirements.

3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247 and ISED RSS-247.

3.5. Test Result

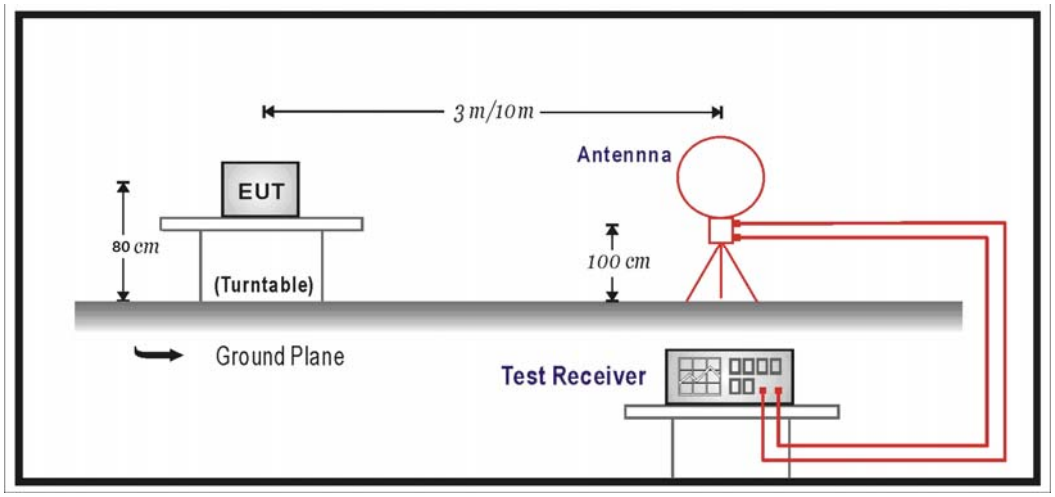
Product	PRO SPD/CAD Sensor		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit Mode Mode		
Date of Test	2019/11/30	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	57.0%RH

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
00	2402	-1.150	≦30
19	2440	-0.860	≦30
39	2480	-0.580	≦30

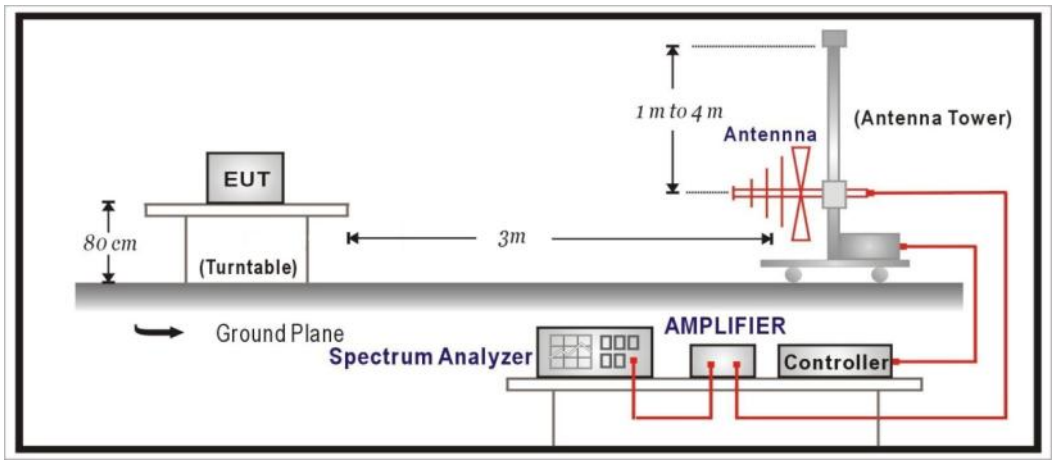
4. Radiated Emission

4.1. Test Setup

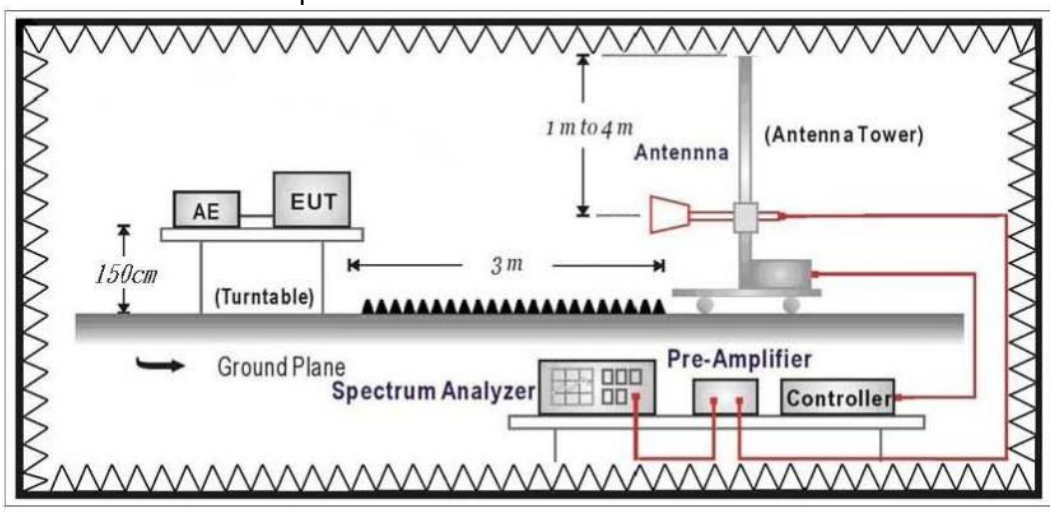
Under 30MHz Test Setup:



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 V05 r02 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.

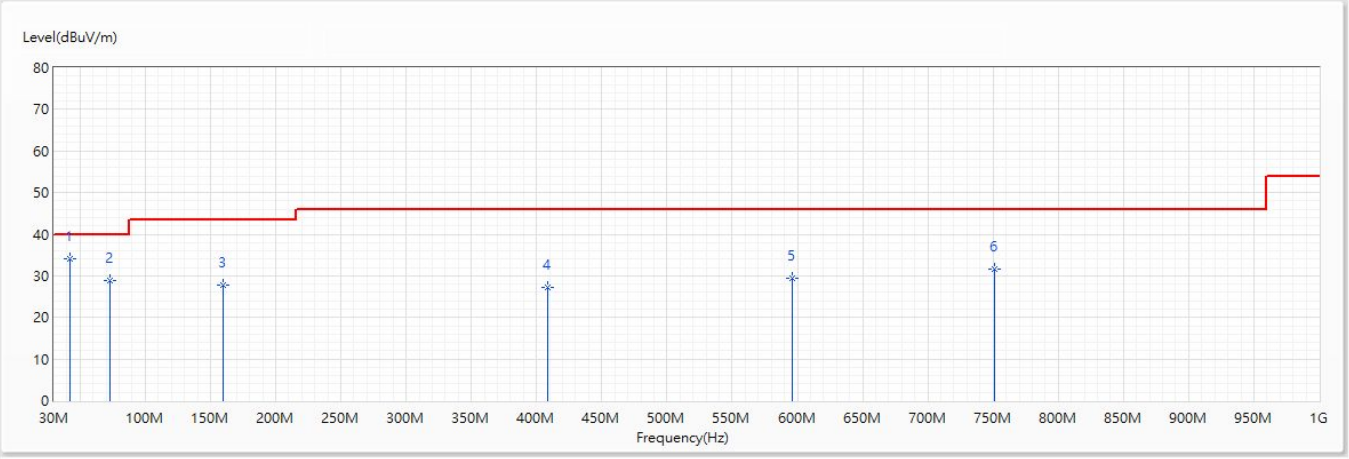
4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247 and ISED RSS-247.

4.5. Test Result

30MHz-1GHz Spurious

Site :	CB2-H	Engineer :	Scott
Model No :	PRO SPEED, PRO CADENCE	Test Date :	2019/11/30
Test Voltage :	DC 3V (Power by Battery)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2440MHz		
Environmental Condition:	Temperature (℃) : 22.0 ; Relative Humidity (%RH) : 54.0		

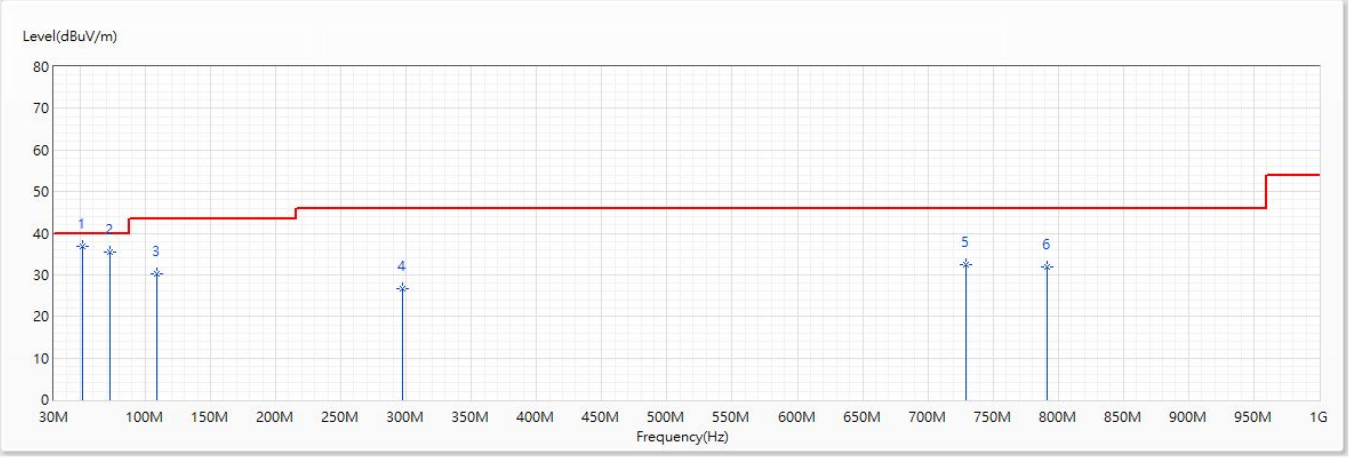


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	41.883	33.99	40.00	-6.01	28.17	5.82	QP
2	72.68	28.87	40.00	-11.13	32.78	-3.91	QP
3	159.738	27.87	43.50	-15.63	27.95	-0.08	QP
4	408.906	27.11	46.00	-18.89	21.75	5.36	QP
5	596.48	29.47	46.00	-16.53	21.77	7.70	QP
6	750.71	31.67	46.00	-14.33	22.63	9.04	QP

Note:

1. All Reading Levels is Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB2-H	Engineer :	Scott
Model No :	PRO SPEED, PRO CADENCE	Test Date :	2019/11/30
Test Voltage :	DC 3V (Power by Battery)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2440MHz		
Environmental Condition:	Temperature (℃) : 22.0 ; Relative Humidity (%RH) : 54.0		



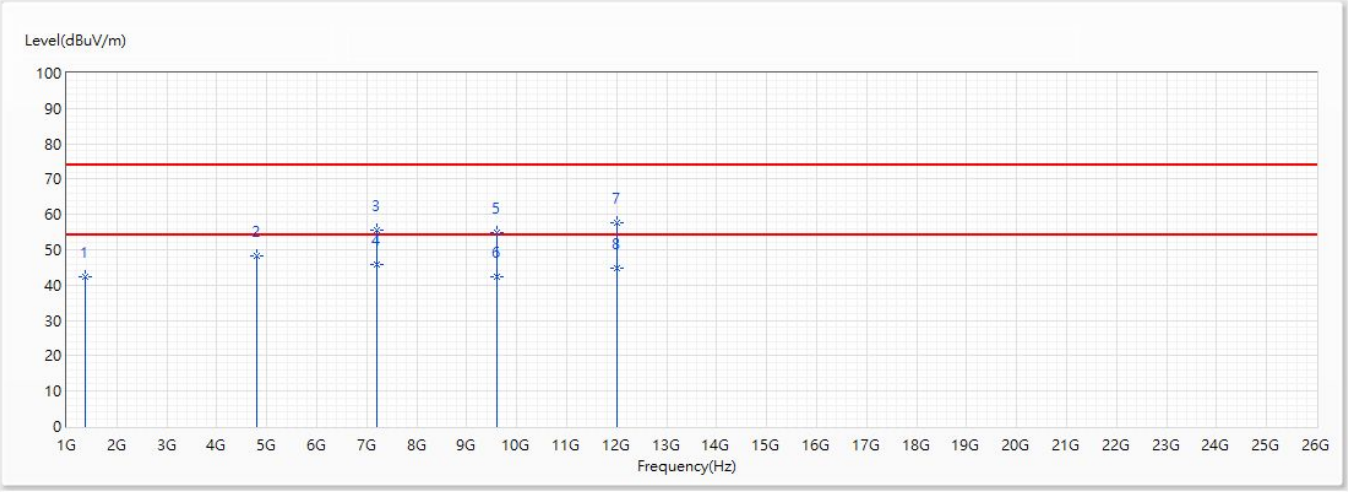
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	51.946	36.78	40.00	-3.22	38.32	-1.54	QP
2	72.923	35.56	40.00	-4.44	39.45	-3.89	QP
3	108.449	30.22	43.50	-13.28	29.41	0.81	QP
4	297.114	26.75	46.00	-19.25	24.46	2.29	QP
5	729.128	32.40	46.00	-13.60	23.58	8.82	QP
6	791.45	31.96	46.00	-14.04	22.52	9.44	QP

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Harmonic & Spurious:

Site :	CB2-H	Engineer :	Scott
Model No :	PRO SPEED, PRO CADENCE	Test Date :	2019/11/28
Test Voltage :	DC 3V (Power by Battery)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2402MHz		
Environmental Condition:	Temperature (℃) : 22.0 ; Relative Humidity (%RH) : 54.0		

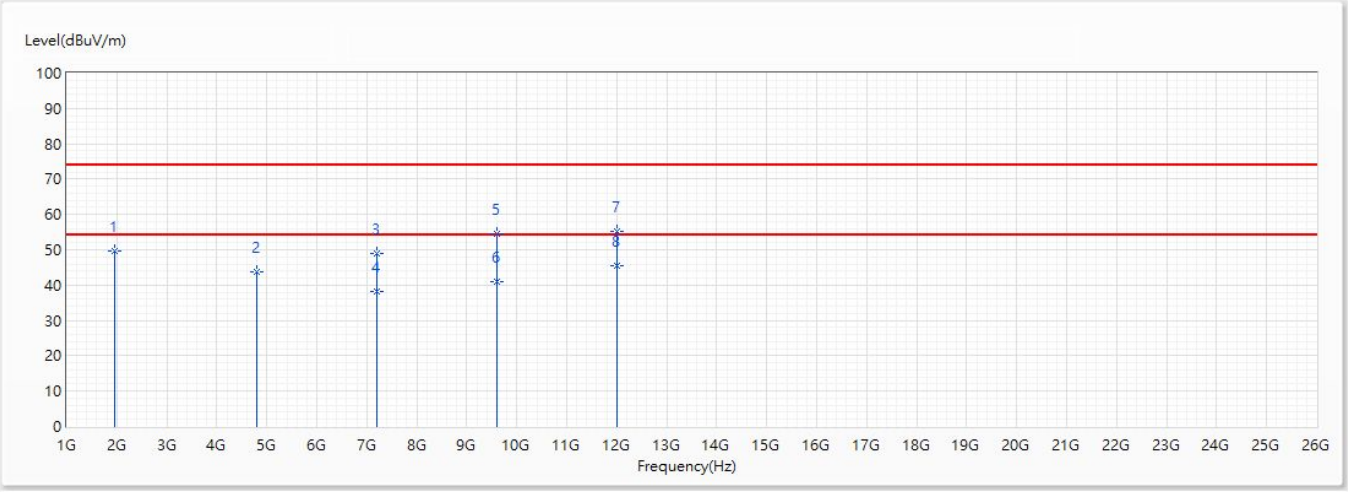


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	1359	42.23	74.00	-31.77	65.30	-23.07	PK
2	4804	48.15	74.00	-25.85	56.62	-8.47	PK
3	7206	55.58	74.00	-18.42	55.39	0.19	PK
* 4	7206	45.66	54.00	-8.34	45.47	0.19	AV
5	9608	54.88	74.00	-19.12	50.14	4.74	PK
6	9608	42.19	54.00	-11.81	37.45	4.74	AV
7	12010	57.79	74.00	-16.21	48.66	9.13	PK
8	12010	44.92	54.00	-9.08	35.79	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 emission level.
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 too low.

Site :	CB2-H	Engineer :	Scott
Model No :	PRO SPEED, PRO CADENCE	Test Date :	2019/11/28
Test Voltage :	DC 3V (Power by Battery)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2402MHz		
Environmental Condition:	Temperature (℃) : 22.0 ; Relative Humidity (%RH) : 54.0		

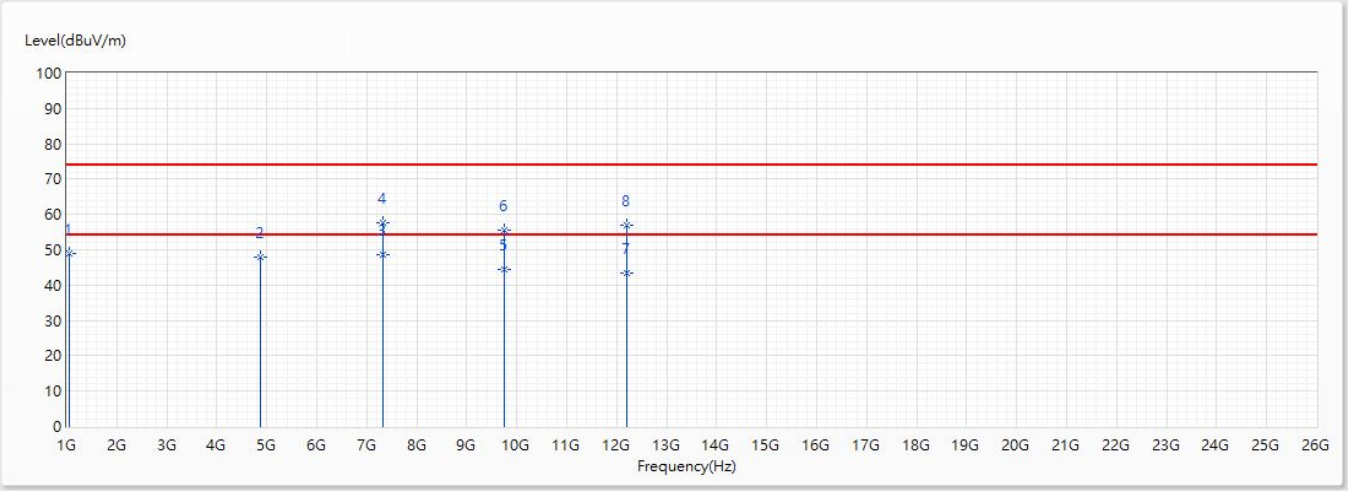


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	1950	49.76	74.00	-24.24	69.89	-20.13	PK
2	4804	43.66	74.00	-30.34	52.13	-8.47	PK
3	7206	48.88	74.00	-25.12	48.69	0.19	PK
4	7206	38.08	54.00	-15.92	37.89	0.19	AV
5	9608	54.61	74.00	-19.39	49.87	4.74	PK
6	9608	40.87	54.00	-13.13	36.13	4.74	AV
7	12010	55.22	74.00	-18.78	46.09	9.13	PK
* 8	12010	45.56	54.00	-8.44	36.43	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 emission level.
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 too low.

Site :	CB2-H	Engineer :	Scott
Model No :	PRO SPEED, PRO CADENCE	Test Date :	2019/11/28
Test Voltage :	DC 3V (Power by Battery)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2440MHz		
Environmental Condition:	Temperature (℃) : 22.0 ; Relative Humidity (%RH) : 54.0		

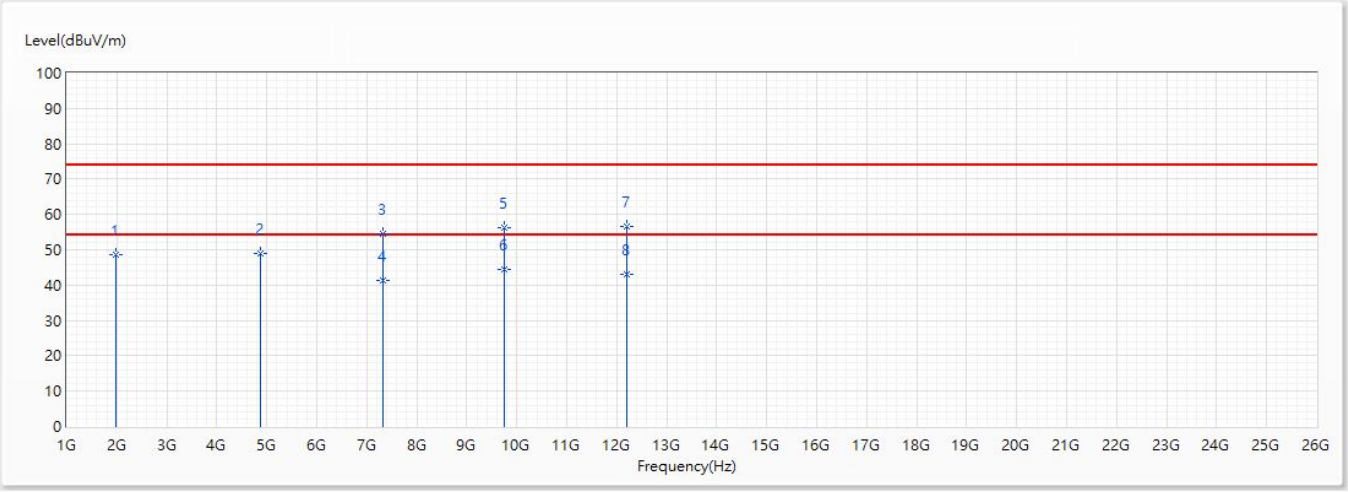


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	1056	48.88	74.00	-25.12	73.70	-24.82	PK
2	4880	47.89	74.00	-26.11	56.12	-8.23	PK
* 3	7320	48.59	54.00	-5.41	48.17	0.42	AV
4	7320	57.56	74.00	-16.44	57.14	0.42	PK
5	9760	44.58	54.00	-9.42	39.70	4.88	AV
6	9760	55.72	74.00	-18.28	50.84	4.88	PK
7	12200	43.38	54.00	-10.62	34.79	8.59	AV
8	12200	56.91	74.00	-17.09	48.32	8.59	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
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 too low.

Site :	CB2-H	Engineer :	Scott
Model No :	PRO SPEED, PRO CADENCE	Test Date :	2019/11/28
Test Voltage :	DC 3V (Power by Battery)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2440MHz		
Environmental Condition:	Temperature (℃) : 22.0 ; Relative Humidity (%RH) : 54.0		

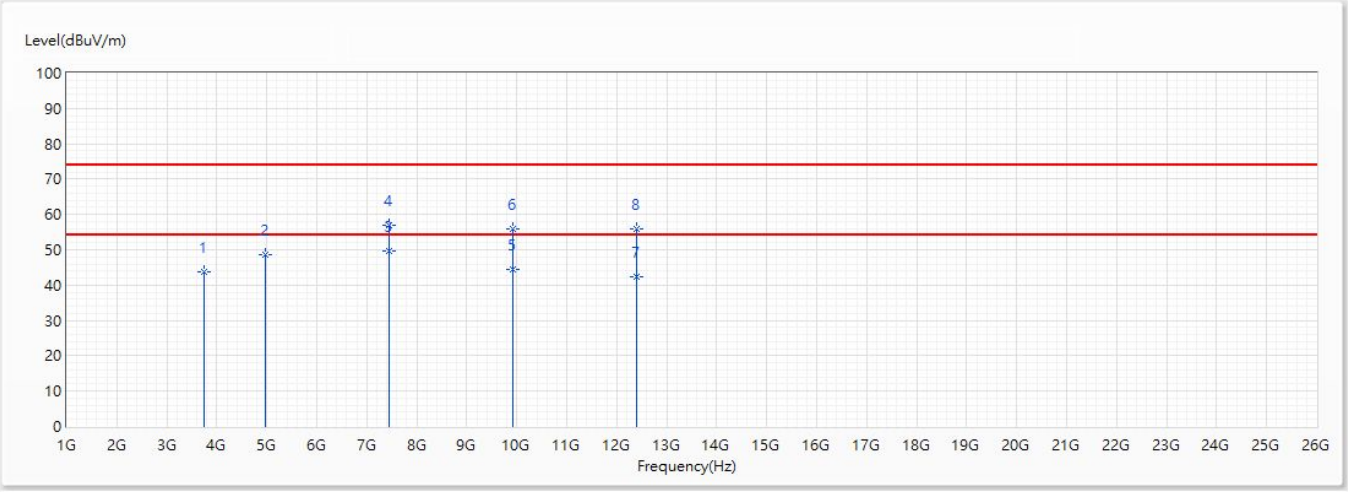


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	1975	48.66	74.00	-25.34	68.67	-20.01	PK
2	4880	49.09	74.00	-24.91	57.32	-8.23	PK
3	7320	54.55	74.00	-19.45	54.13	0.42	PK
4	7320	41.33	54.00	-12.67	40.91	0.42	AV
5	9760	56.19	74.00	-17.81	51.31	4.88	PK
* 6	9760	44.58	54.00	-9.42	39.70	4.88	AV
7	12200	56.63	74.00	-17.37	48.04	8.59	PK
8	12200	42.93	54.00	-11.07	34.34	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 emission level.
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 too low.

Site :	CB2-H	Engineer :	Scott
Model No :	PRO SPEED, PRO CADENCE	Test Date :	2019/11/28
Test Voltage :	DC 3V (Power by Battery)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2480MHz		
Environmental Condition:	Temperature (℃) : 22.0 ; Relative Humidity (%RH) : 54.0		

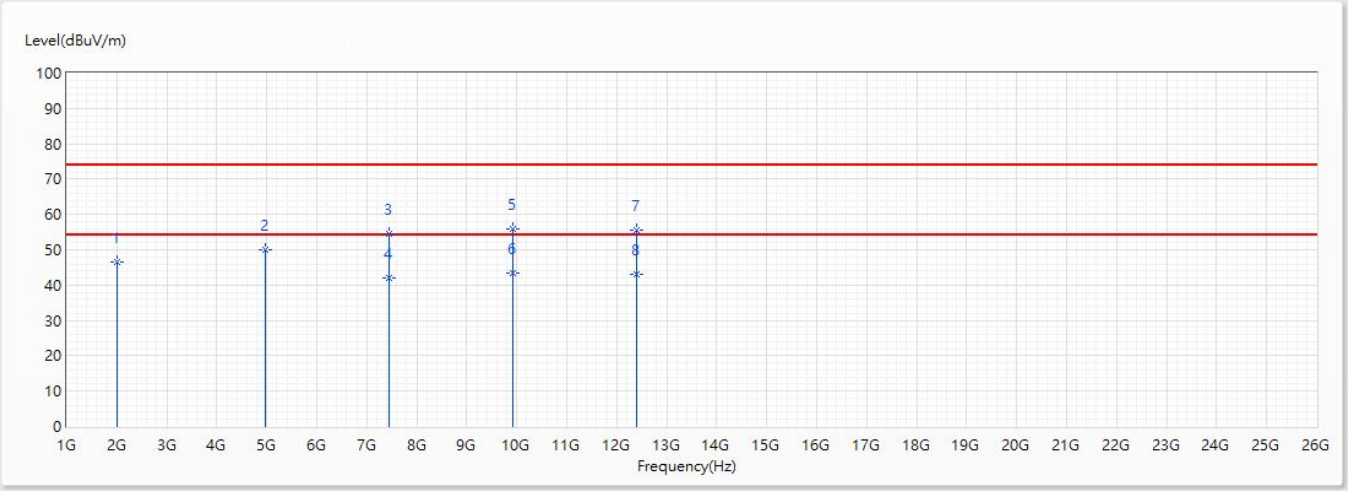


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3753	43.69	74.00	-30.31	56.55	-12.86	PK
2	4960	48.70	74.00	-25.30	56.66	-7.96	PK
* 3	7440	49.74	54.00	-4.26	49.07	0.67	AV
4	7440	57.10	74.00	-16.90	56.43	0.67	PK
5	9920	44.45	54.00	-9.55	39.41	5.04	AV
6	9920	55.81	74.00	-18.19	50.77	5.04	PK
7	12400	42.36	54.00	-11.64	34.33	8.03	AV
8	12400	55.75	74.00	-18.25	47.72	8.03	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
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 too low.

Site :	CB2-H	Engineer :	Scott
Model No :	PRO SPEED, PRO CADENCE	Test Date :	2019/11/28
Test Voltage :	DC 3V (Power by Battery)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2480MHz		
Environmental Condition:	Temperature (℃) : 22.0 ; Relative Humidity (%RH) : 54.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2010	46.48	74.00	-27.52	66.31	-19.83	PK
2	4960	50.10	74.00	-23.90	58.06	-7.96	PK
3	7440	54.58	74.00	-19.42	53.91	0.67	PK
4	7440	42.11	54.00	-11.89	41.44	0.67	AV
5	9920	55.75	74.00	-18.25	50.71	5.04	PK
* 6	9920	43.49	54.00	-10.51	38.45	5.04	AV
7	12400	55.64	74.00	-18.36	47.61	8.03	PK
8	12400	42.91	54.00	-11.09	34.88	8.03	AV

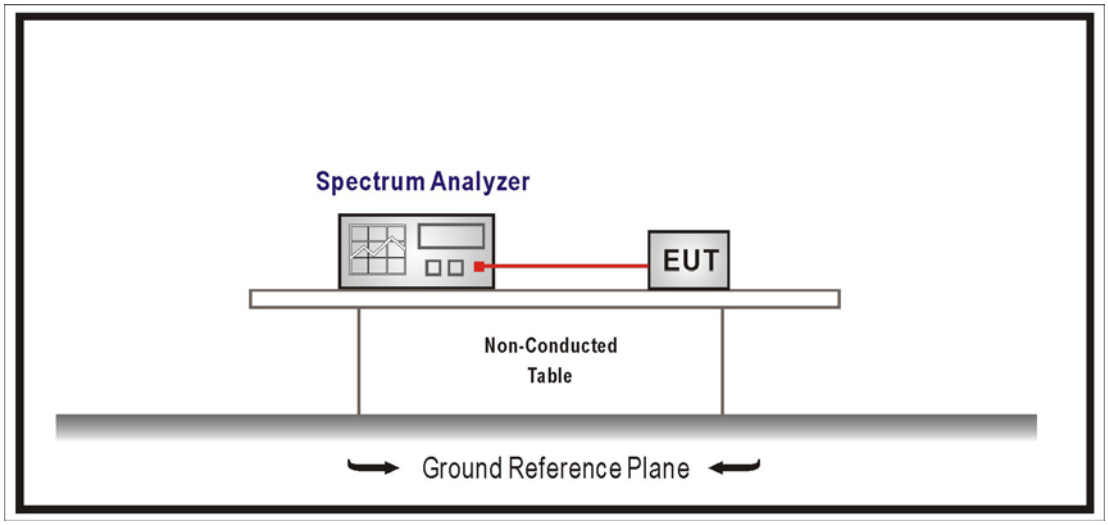
Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
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 too low.

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 V05 r02 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

5.4. Test Specification

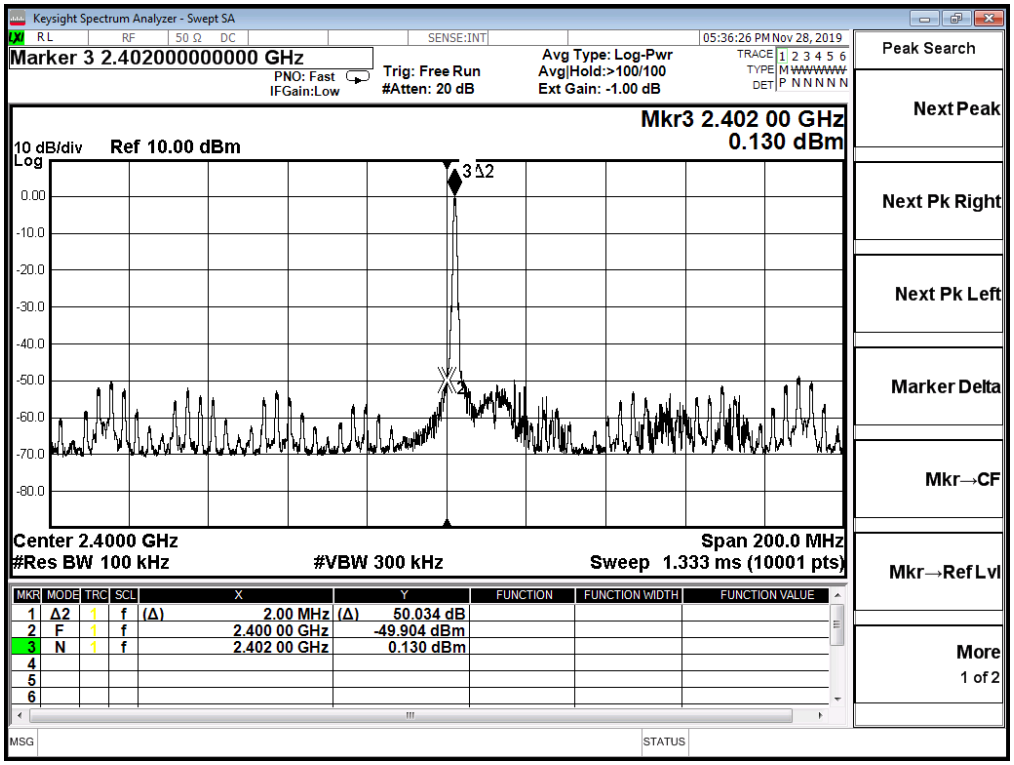
According to FCC Part 15 Subpart C Paragraph 15.247 and ISED RSS-247.

5.5. Test Result

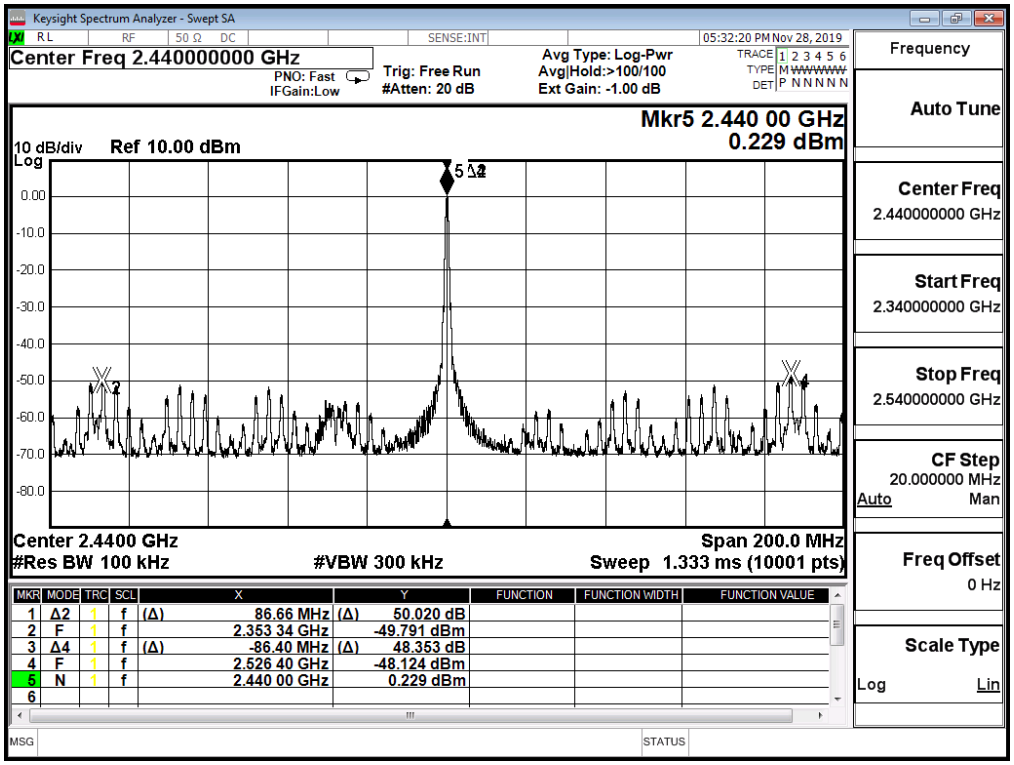
Product	PRO SPD/CAD Sensor		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode Mode		
Date of Test	2019/11/28	Test Site	SR12-H
Temperature (°C)	23.0°C	Humidity (%RH)	60.0%

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)
00	2402	49.904	≧20
19	2440	48.124	≧20
39	2480	53.403	≧20

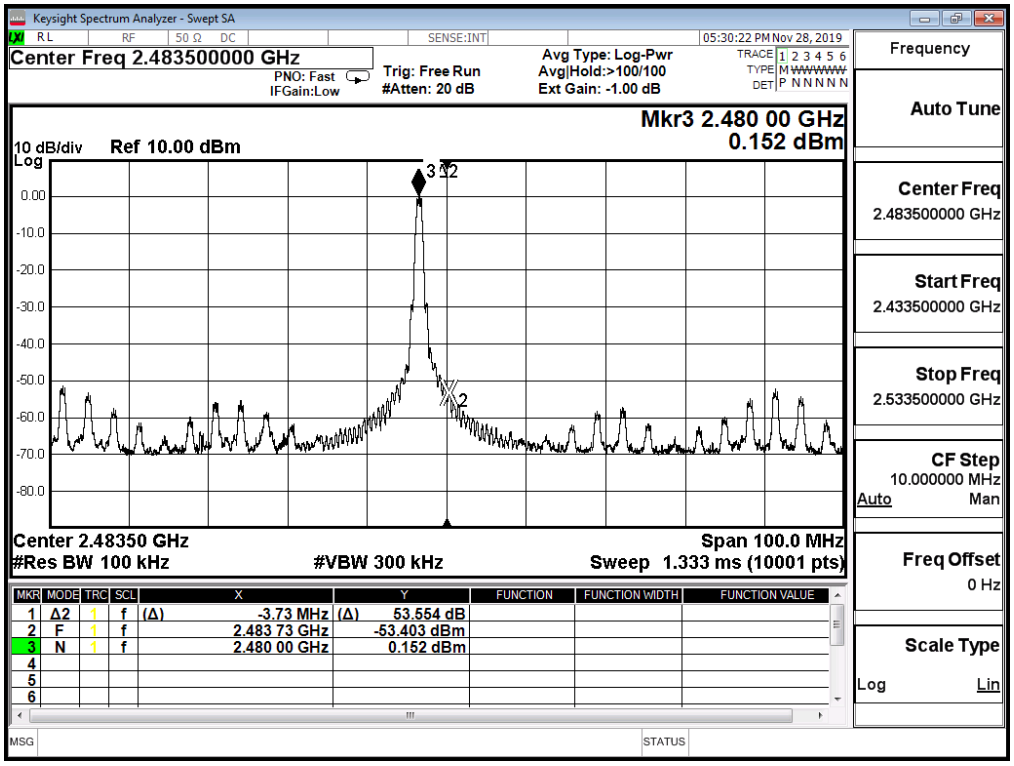
Channel 00



Channel 19

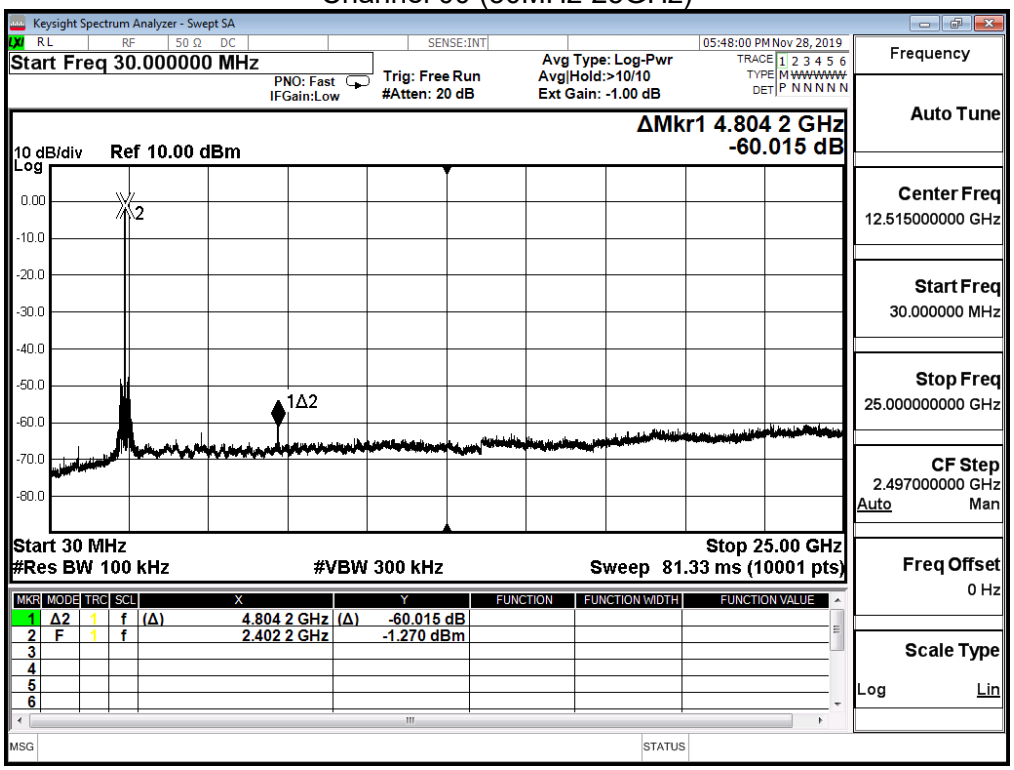


Channel 39

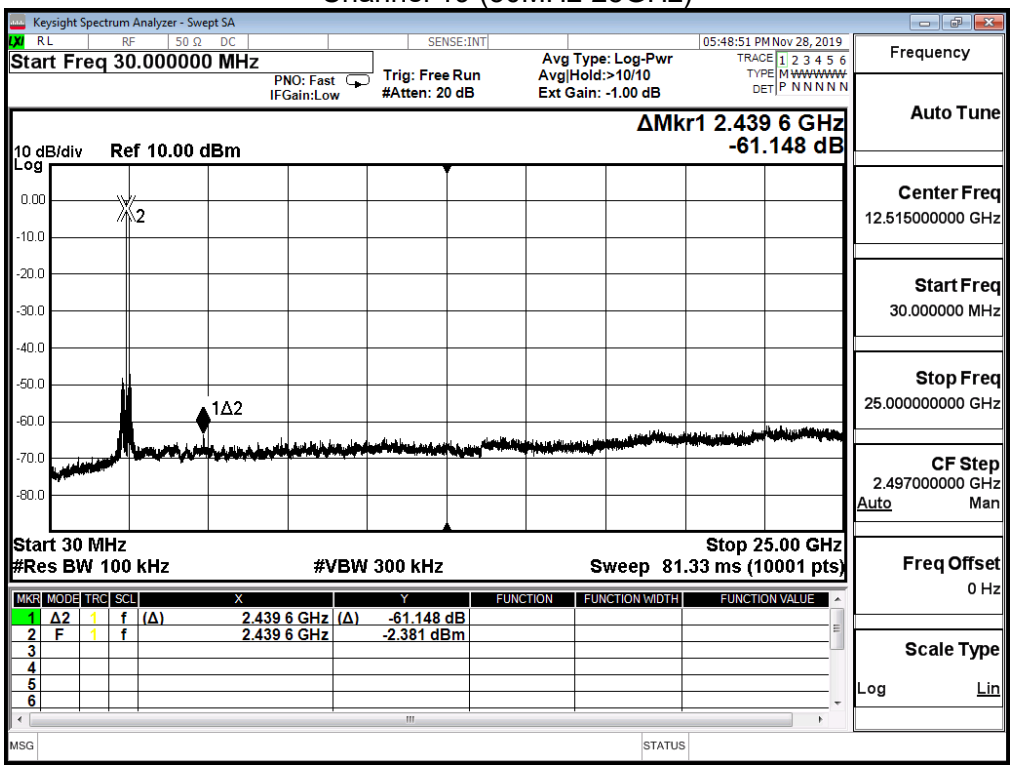


Product	PRO SPD/CAD Sensor		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode Mode		
Date of Test	2019/11/28	Test Site	SR12-H
Temperature (°C)	23.0°C	Humidity (%RH)	60.0%

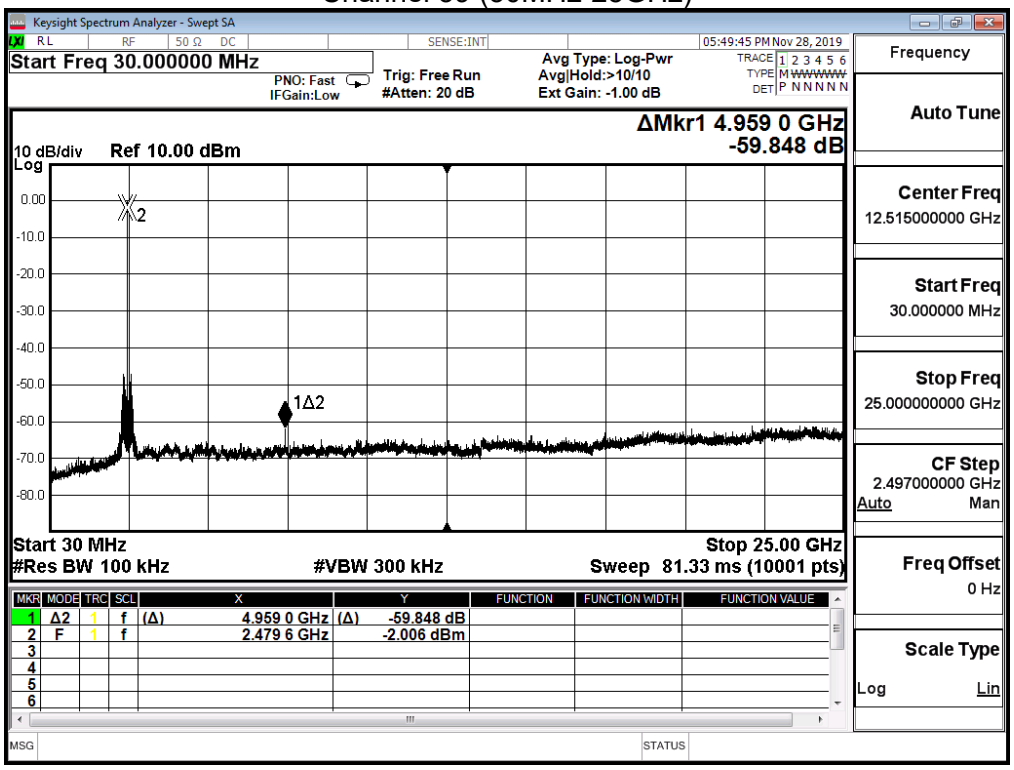
Channel 00 (30MHz-25GHz)



Channel 19 (30MHz-25GHz)



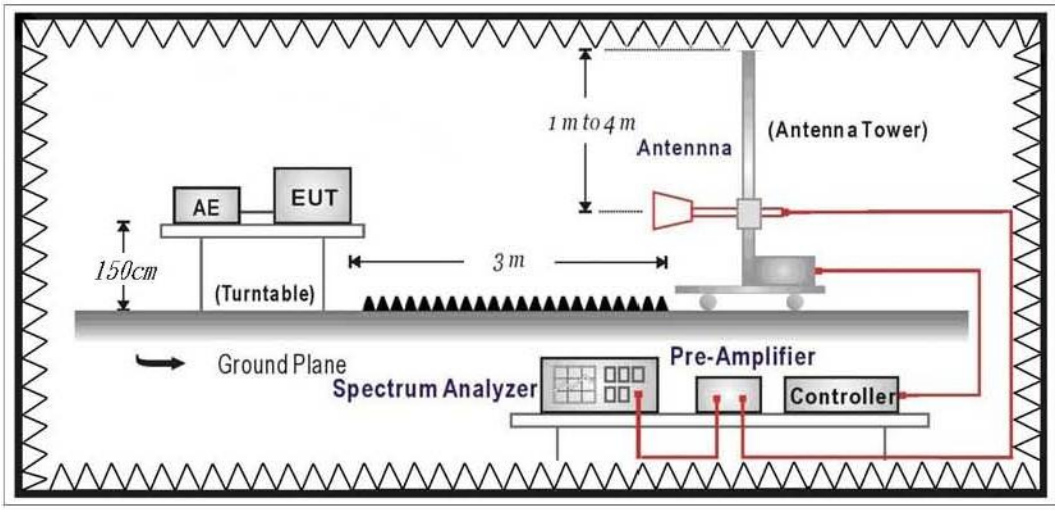
Channel 39 (30MHz-25GHz)



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 V05 r02 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 1.5 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.

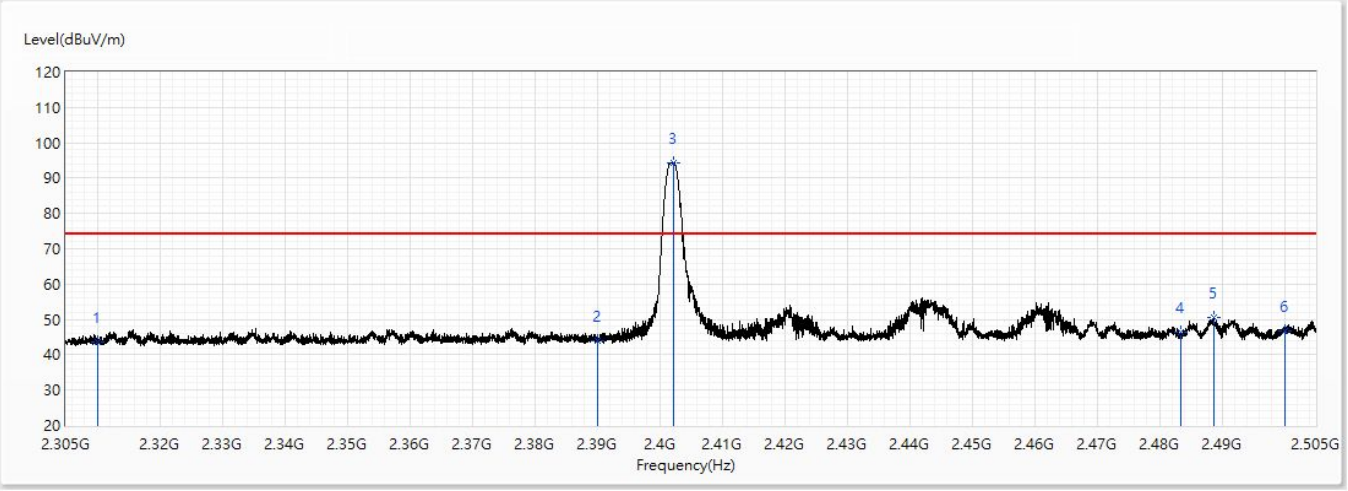
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247 and ISED RSS-247.

6.5. Test Result

Site :	CB2-H	Engineer :	Scott
Model No :	PRO SPEED, PRO CADENCE	Test Date :	2019/11/28
Test Voltage :	DC 3V (Power by Battery)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2402MHz		
Environmental Condition:	Temperature (℃) : 22.0 ; Relative Humidity (%RH) : 54.0		

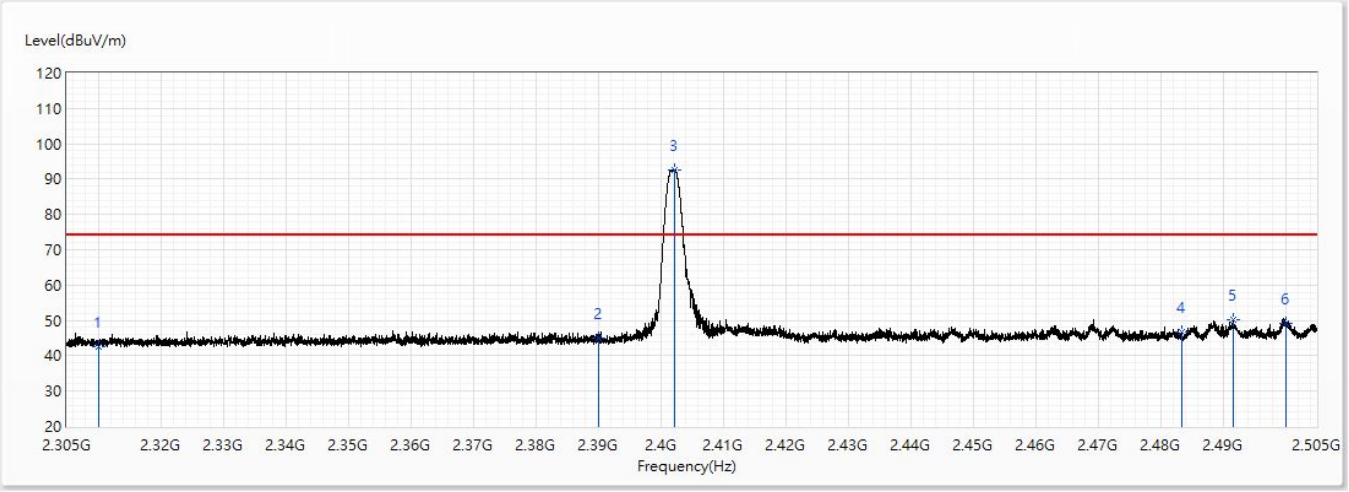


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	43.50	74.00	-30.50	27.93	15.57	PK
2	2390	43.95	74.00	-30.05	27.79	16.16	PK
! 3	2402.25	94.33	74.00	20.33	78.08	16.25	PK
4	2483.5	46.26	74.00	-27.74	29.40	16.86	PK
5	2488.65	50.63	74.00	-23.37	33.73	16.90	PK
6	2500	46.68	74.00	-27.32	29.70	16.98	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
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. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	PRO SPEED, PRO CADENCE	Test Date :	2019/11/28
Test Voltage :	DC 3V (Power by Battery)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2402MHz		
Environmental Condition:	Temperature (℃) : 22.0 ; Relative Humidity (%RH) : 54.0		

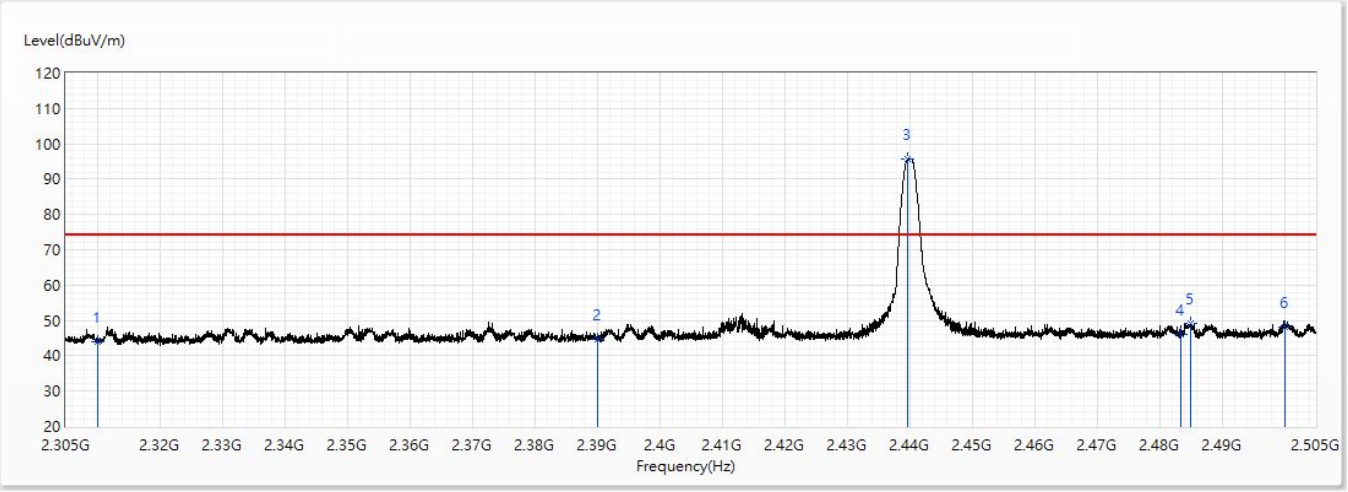


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	42.73	74.00	-31.27	27.16	15.57	PK
2	2390	44.92	74.00	-29.08	28.76	16.16	PK
! 3	2402.25	92.50	74.00	18.50	76.25	16.25	PK
4	2483.5	46.69	74.00	-27.31	29.83	16.86	PK
5	2491.575	50.24	74.00	-23.76	33.33	16.91	PK
6	2500	49.08	74.00	-24.92	32.10	16.98	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
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. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	PRO SPEED, PRO CADENCE	Test Date :	2019/11/28
Test Voltage :	DC 3V (Power by Battery)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2440MHz		
Environmental Condition:	Temperature (℃) : 22.0 ; Relative Humidity (%RH) : 54.0		

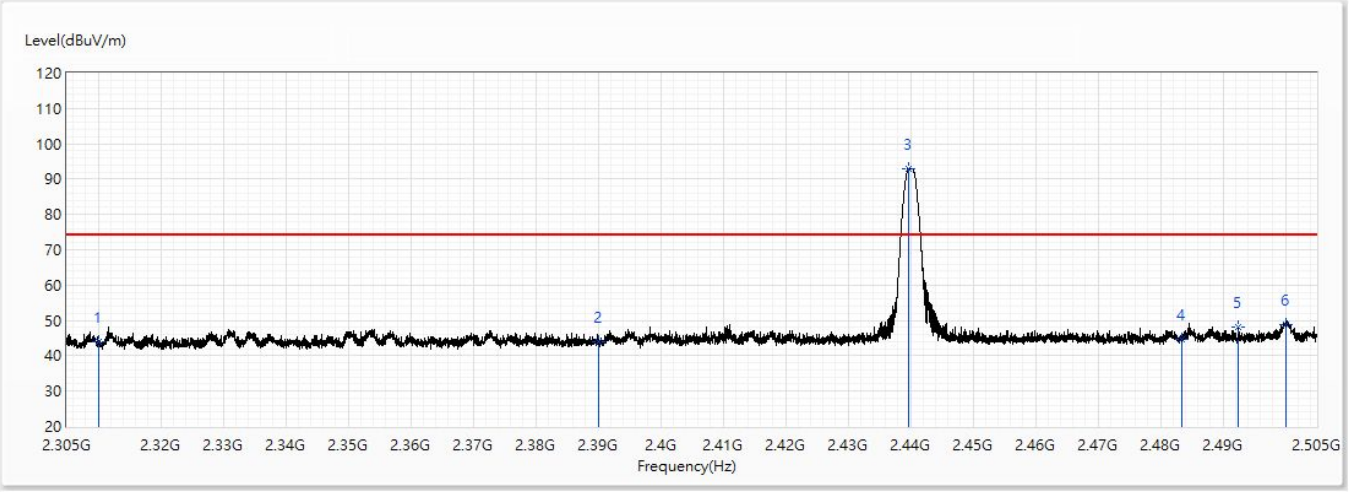


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	43.83	74.00	-30.17	28.26	15.57	PK
2	2390	44.67	74.00	-29.33	28.51	16.16	PK
! 3	2439.75	95.64	74.00	21.64	79.11	16.53	PK
4	2483.5	45.98	74.00	-28.02	29.12	16.86	PK
5	2485.025	49.11	74.00	-24.89	32.24	16.87	PK
6	2500	48.20	74.00	-25.80	31.22	16.98	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
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. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	PRO SPEED, PRO CADENCE	Test Date :	2019/11/28
Test Voltage :	DC 3V (Power by Battery)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2440MHz		
Environmental Condition:	Temperature (℃) : 22.0 ; Relative Humidity (%RH) : 54.0		

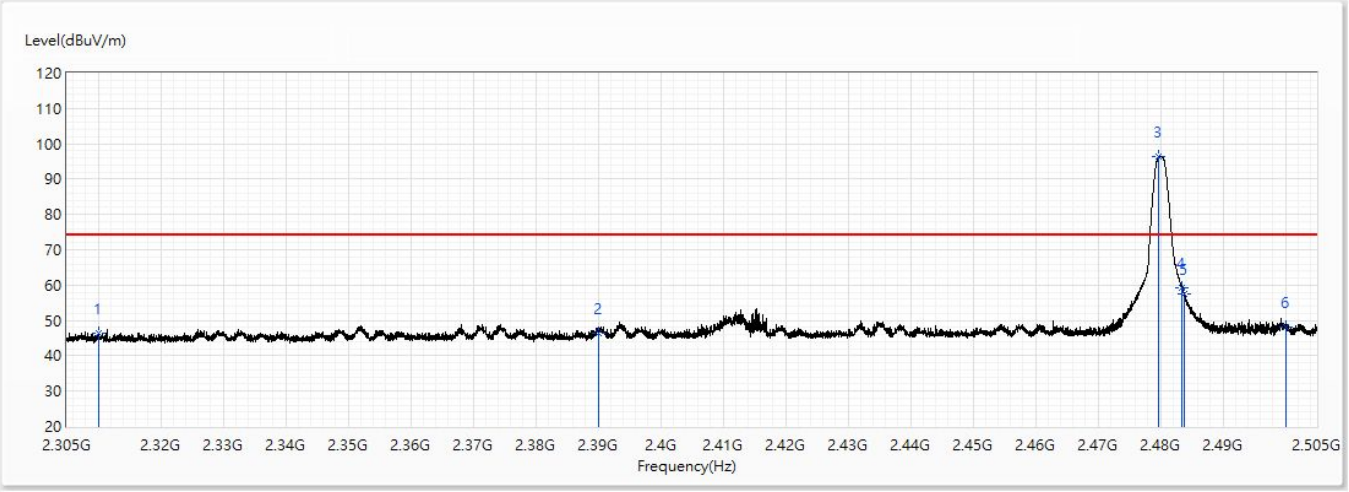


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	44.01	74.00	-29.99	28.44	15.57	PK
2	2390	44.13	74.00	-29.87	27.97	16.16	PK
! 3	2439.775	92.97	74.00	18.97	76.44	16.53	PK
4	2483.5	44.60	74.00	-29.40	27.74	16.86	PK
5	2492.525	48.27	74.00	-25.73	31.35	16.92	PK
6	2500	48.90	74.00	-25.10	31.92	16.98	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
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. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	PRO SPEED, PRO CADENCE	Test Date :	2019/11/28
Test Voltage :	DC 3V (Power by Battery)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2480MHz		
Environmental Condition:	Temperature (℃) : 22.0 ; Relative Humidity (%RH) : 54.0		

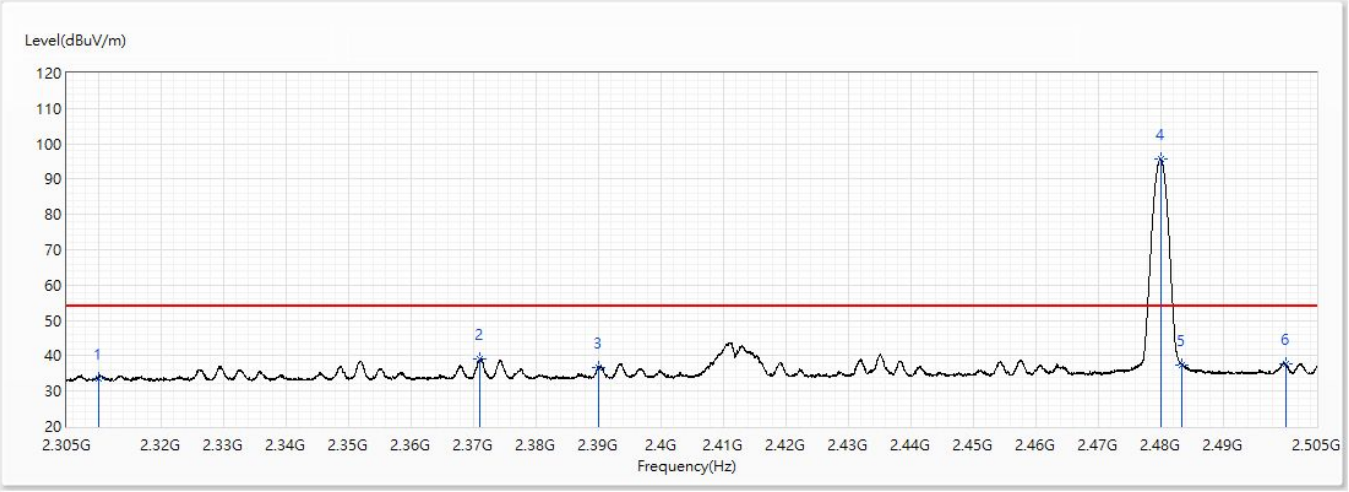


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	46.40	74.00	-27.60	30.83	15.57	PK
2	2390	46.55	74.00	-27.45	30.39	16.16	PK
! 3	2479.775	96.40	74.00	22.40	79.57	16.83	PK
4	2483.5	59.14	74.00	-14.86	42.28	16.86	PK
5	2483.75	57.65	74.00	-16.35	40.79	16.86	PK
6	2500	48.25	74.00	-25.75	31.27	16.98	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
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. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	PRO SPEED, PRO CADENCE	Test Date :	2019/11/28
Test Voltage :	DC 3V (Power by Battery)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2480MHz		
Environmental Condition:	Temperature (℃) : 22.0 ; Relative Humidity (%RH) : 54.0		

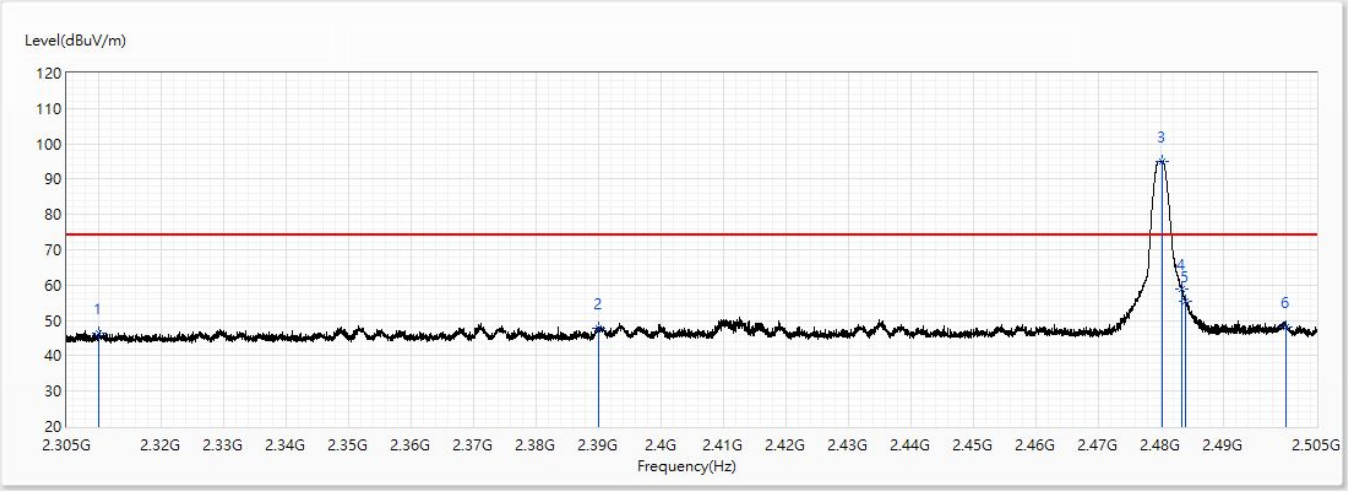


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	33.67	54.00	-20.33	18.10	15.57	AV
2	2371.1	39.03	54.00	-14.97	23.00	16.03	AV
3	2390	36.51	54.00	-17.49	20.35	16.16	AV
! 4	2480	95.58	54.00	41.58	78.75	16.83	AV
5	2483.5	37.37	54.00	-16.63	20.51	16.86	AV
6	2500	37.77	54.00	-16.23	20.79	16.98	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
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. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	PRO SPEED, PRO CADENCE	Test Date :	2019/11/28
Test Voltage :	DC 3V (Power by Battery)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2480MHz		
Environmental Condition:	Temperature (℃) : 22.0 ; Relative Humidity (%RH) : 54.0		

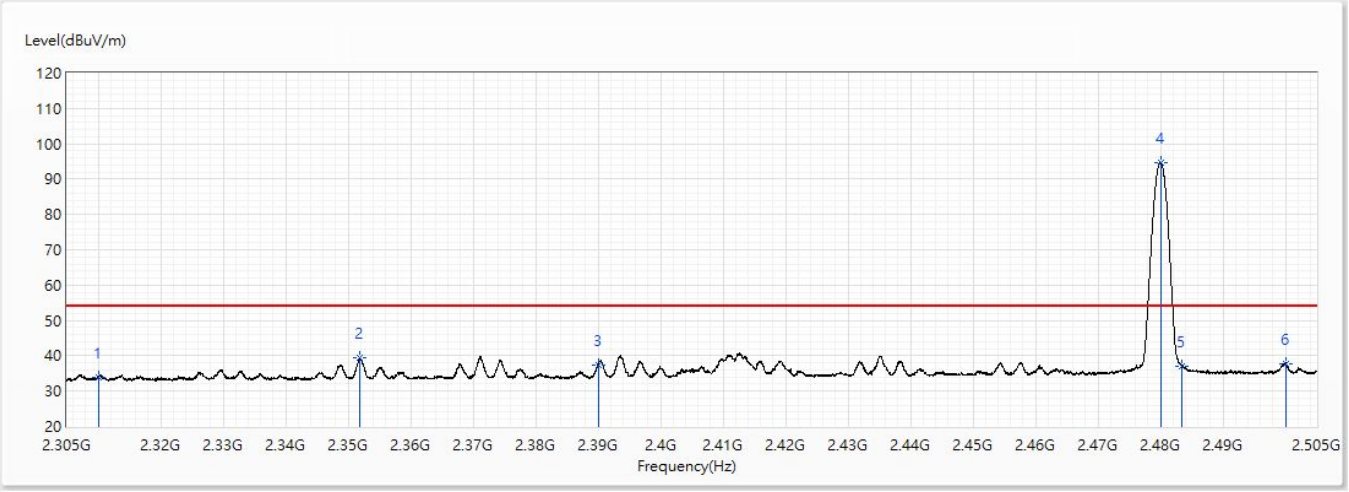


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	46.37	74.00	-27.63	30.80	15.57	PK
2	2390	47.73	74.00	-26.27	31.57	16.16	PK
! 3	2480.275	95.15	74.00	21.15	78.32	16.83	PK
4	2483.5	58.82	74.00	-15.18	41.96	16.86	PK
5	2484.1	55.43	74.00	-18.57	38.57	16.86	PK
6	2500	48.09	74.00	-25.91	31.11	16.98	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
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. If the readings given are average, peak measurement should also be supplied.
5. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	PRO SPEED, PRO CADENCE	Test Date :	2019/11/28
Test Voltage :	DC 3V (Power by Battery)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit Mode		
Note :	802.15.1_BLE_2480MHz		
Environmental Condition:	Temperature (℃) : 22.0 ; Relative Humidity (%RH) : 54.0		



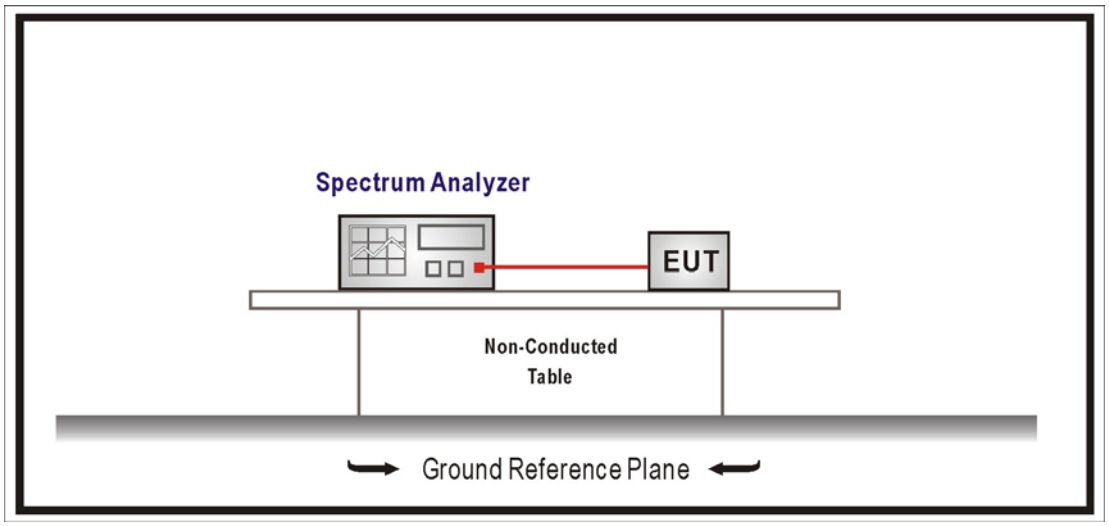
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	33.92	54.00	-20.08	18.35	15.57	AV
2	2351.825	39.30	54.00	-14.70	23.42	15.88	AV
3	2390	37.50	54.00	-16.50	21.34	16.16	AV
! 4	2480	94.70	54.00	40.70	77.87	16.83	AV
5	2483.5	36.92	54.00	-17.08	20.06	16.86	AV
6	2500	37.71	54.00	-16.29	20.73	16.98	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
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. If the readings given are average, peak measurement should also be supplied.
5. 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 V05 r02 for compliance to FCC 47CFR 15.247 requirements.

7.4. Test Specification

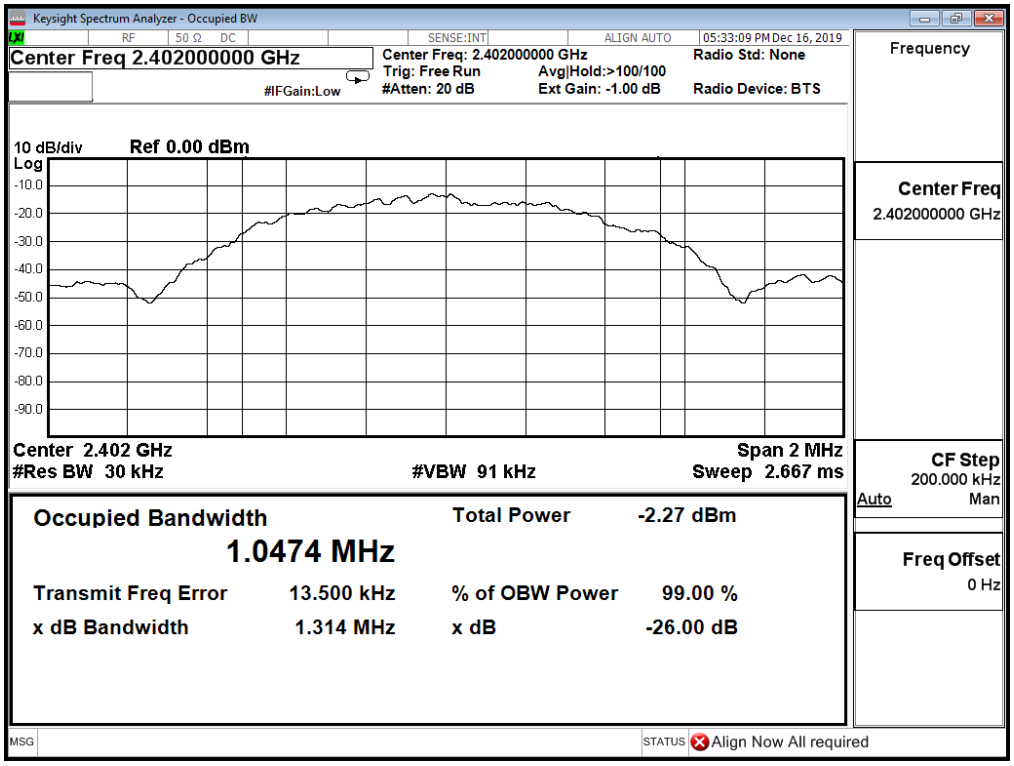
According to FCC Part 15 Subpart C Paragraph 15.247 and ISED RSS-247.

7.5. Test Result

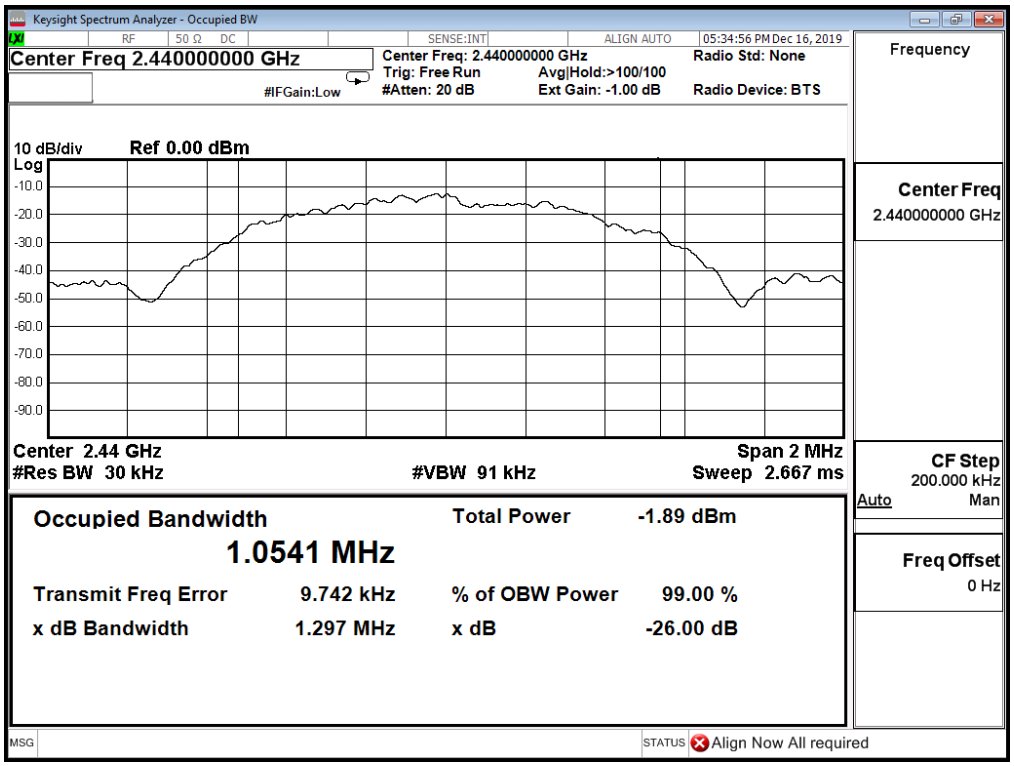
Product	PRO SPD/CAD Sensor		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode Mode		
Date of Test	2019/12/16	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	60.0%

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	1.047	--
19	2440	1.054	--
39	2480	1.052	--

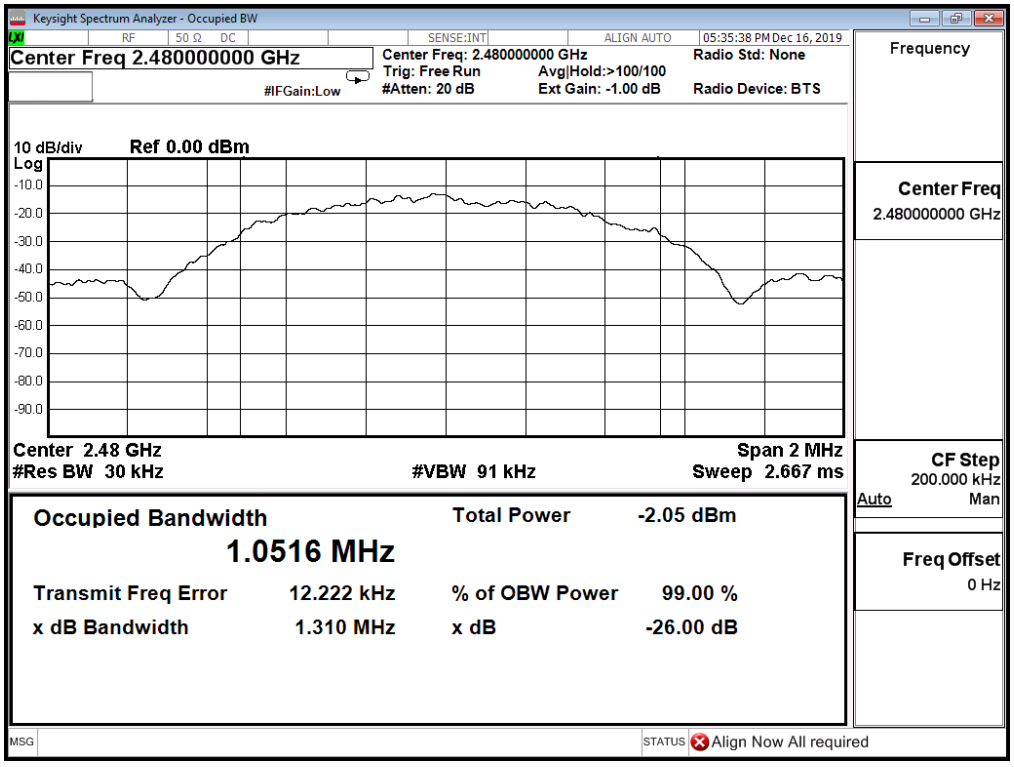
Channel 00



Channel 19



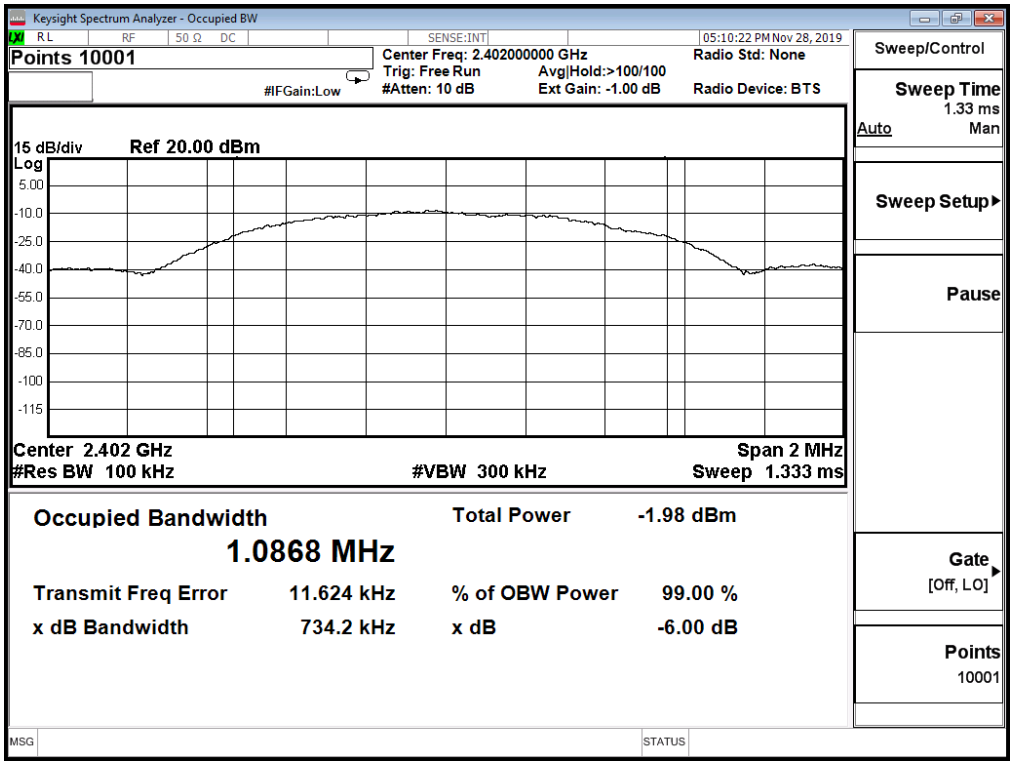
Channel 39



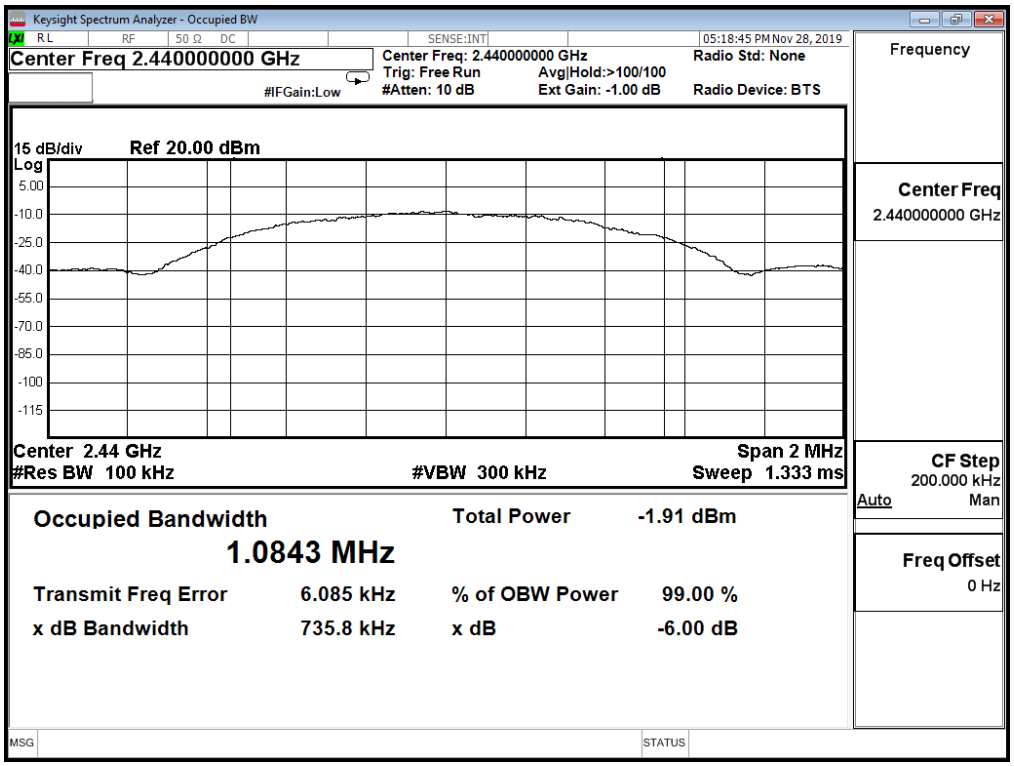
Product	PRO SPD/CAD Sensor		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit Mode Mode		
Date of Test	2019/11/28	Test Site	SR12-H
Temperature (°C)	23.0°C	Humidity (%RH)	60.0%

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	0.734	≧0.5
19	2440	0.736	≧0.5
39	2480	0.688	≧0.5

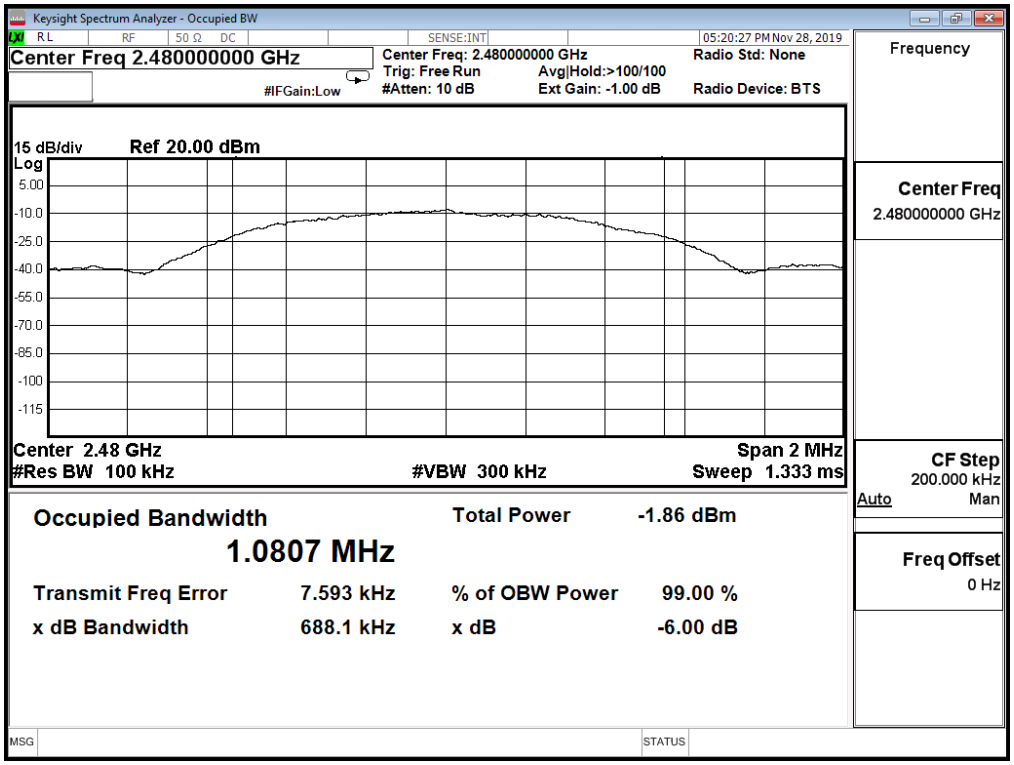
Channel 00



Channel 19

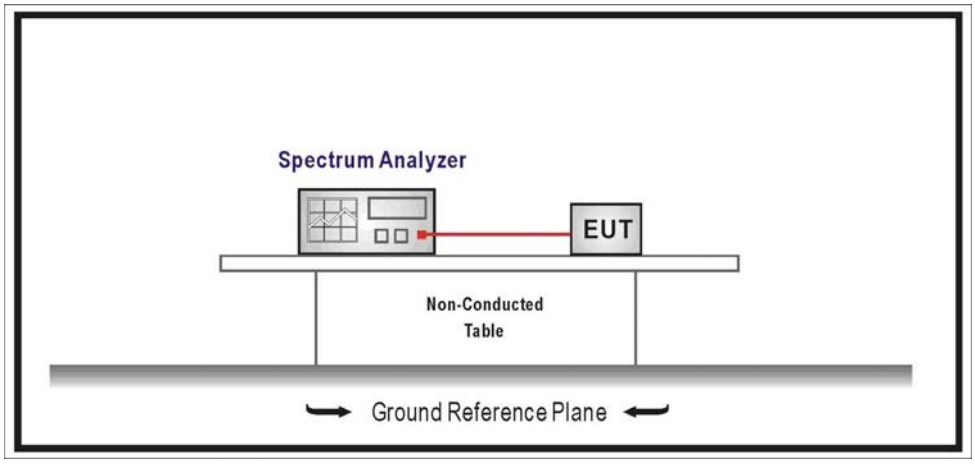


Channel 39



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 V05 r02 for compliance to FCC 47CFR 15.247 requirements.

8.4. Test Specification

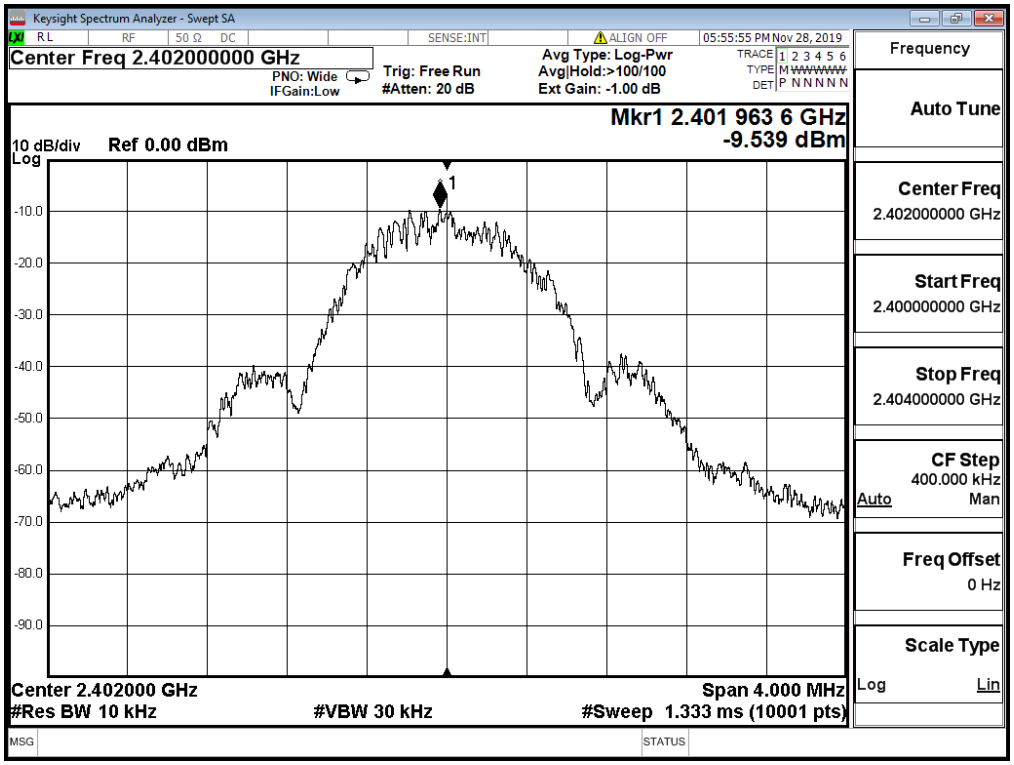
According to FCC Part 15 Subpart C Paragraph 15.247 and ISED RSS-247.

8.5. Test Result

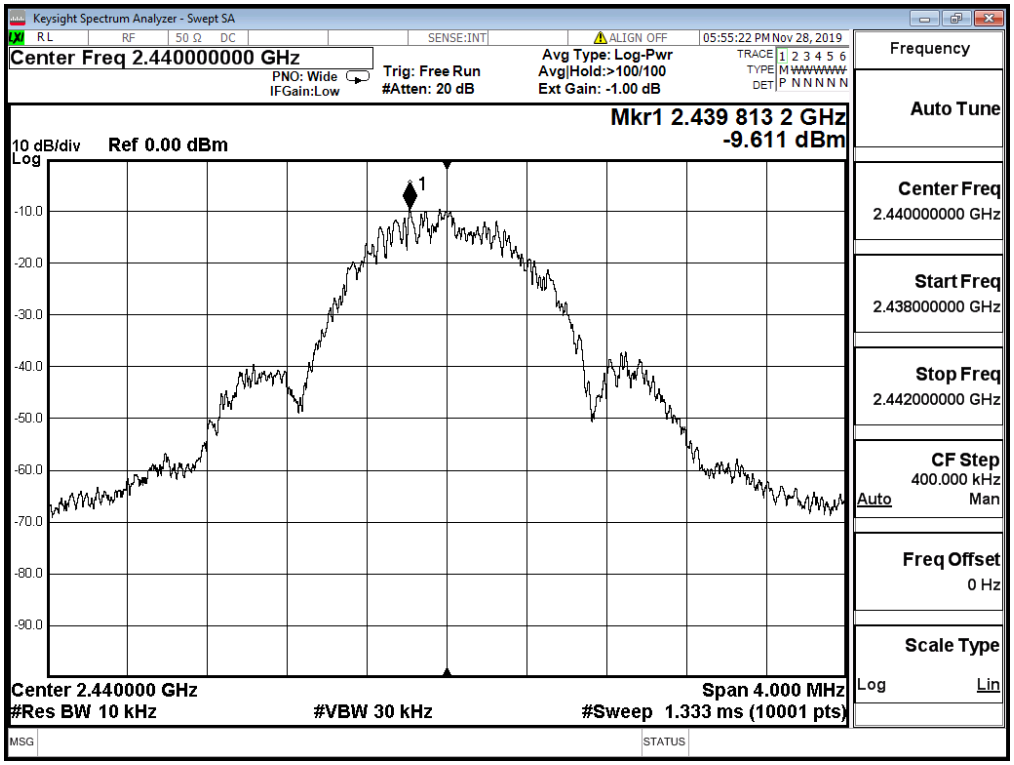
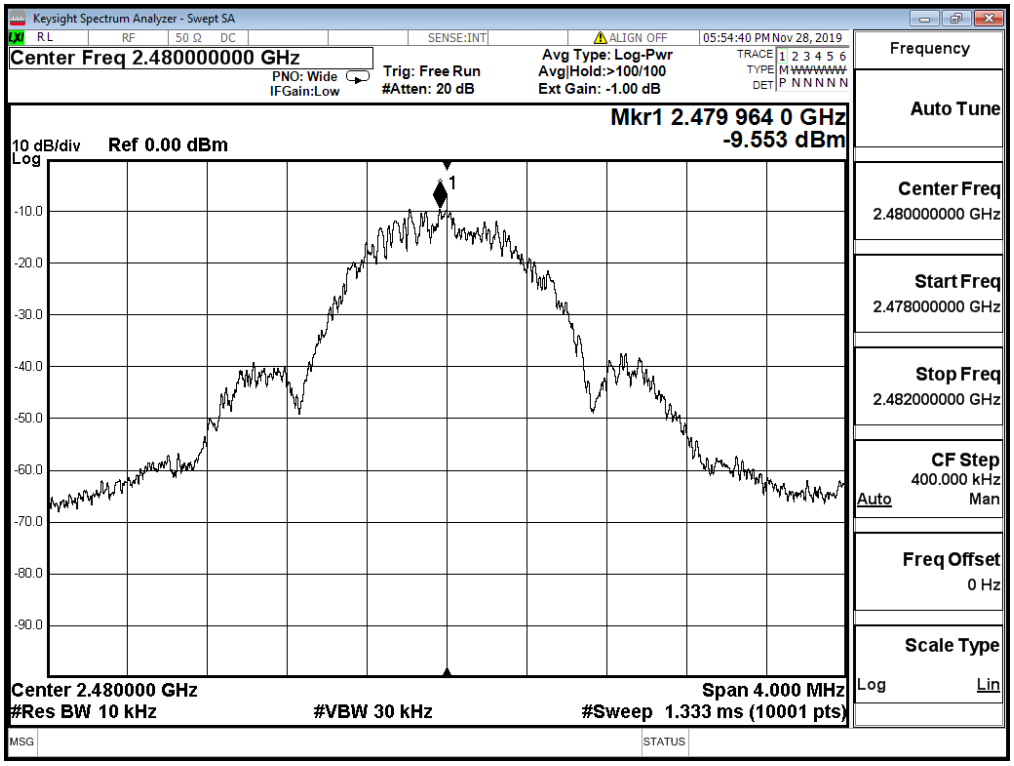
Product	PRO SPD/CAD Sensor		
Test Item	Power Density		
Test Mode	Mode 1: Transmit Mode Mode		
Date of Test	2019/11/28	Test Site	SR12-H
Temperature (°C)	23.0°C	Humidity (%RH)	60.0%

Channel No.	Frequency (MHz)	Measure Vaule (dBm/RBW)	Limit (dBm/3kHz)
00	2402	-9.539	≦8
19	2440	-9.611	≦8
39	2480	-9.553	≦8

Channel 00



Channel 19



Channel 39