

FCC Test Report

Product Name : GPS Lap Timer
Brand Name : Qstarz
Model No. : LT-8000GT
FCC ID : WDYQ1110501

Applicant : Qstarz International Co., Ltd.
Address : 6F-2, No. 160, Ming-Chuan E. Rd., Sec. 6., Taipei, Taiwan

Date of Receipt : Apr. 12, 2022
Issued Date : Sep. 01, 2022
Report No. : 2240314R-RFUSWL2V01-A
Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

The test report shall not be reproduced except in full without the written approval of DEKRA Testing and Certification Co., Ltd.



Product Name : GPS Lap Timer
Applicant : Qstarz International Co., Ltd.
Address : 6F-2, No. 160, Ming-Chuan E. Rd., Sec. 6., Taipei, Taiwan
Manufacturer : Qstarz International Co., Ltd.
Address : 6F-2, No. 160, Ming-Chuan E. Rd., Sec. 6., Taipei, Taiwan
Brand Name : Qstarz
Model No. : LT-8000GT
FCC ID : WDYQ1110501
EUT Voltage : DC 5V (host equipment)
DC 3.7V for lithium-ion battery
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10: 2013
Laboratory Name : DEKRA Testing and Certification Co., Ltd.
Hsin Chu Laboratory
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu
County 310, Taiwan, R.O.C.
Test Result : Complied

Documented By

:



(Hailey Peng / Senior Engineer)

Approved By

:



(Rueyyan Lin / Supervisor)

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Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Sep. 01, 2022

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1. General Information

1.1. EUT Description

Product Name	GPS Lap Timer	
Brand Name	Qstarz	
Model No.	LT-8000GT	
Frequency Range / Channel Number	IEEE 802.11b/g	2412 ~ 2462 MHz / 11 Channels
	IEEE 802.11n (20 MHz)	2412 ~ 2462 MHz / 11 Channels
Type of Modulation	IEEE 802.11b	DSSS
	IEEE 802.11g/n	OFDM
Data Rate	IEEE 802.11b	1, 2, 5.5, 11 Mbps
	IEEE 802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0 ~ MCS 7 and bandwidth defined in 802.11n

Accessories Information					
No.	Equipment Name	Brand Name	Model No.	Rating	Remark
1	Rechargeable Polymer Lithium-ion Battery	HELIX	623957-1500	DC 3.7V, 1500mAh, 750mA, 5.55Wh	Internal of EUT
No.	Equipment Name	Description			
2	USB Cable (Type C)	Non-Shielded, 1m			

The EUT has two editions for marketing:

Edition	Color of Packaging & Appearance
Special Edition	Blue
General Edition	Red

From the above, special edition of EUT was selected as representative model for the test and its data was recorded in this report.

Antenna Information				
Ant.	Brand Name	Model No.	Type	Gain (dBi)
0	Top Gain	CH2G4-6022-000D1-01	Chip	2.3

EUT Operational Condition	
Testing Voltage	AC 120V/60Hz

IEEE 802.11b/g & IEEE 802.11n (20 MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz	-	-

Note:

1. 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.
2. The above EUT information is declared by the manufacturer.

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

Test Mode	Mode 1: Transmit			
Test Items	Test Mode	Modulation	Channel	Result
AC Power Line Conducted Emission	Mode 1	11g	1	Pass
Maximum Conducted Output Power	Mode 1	11b	1/6/11	Pass
		11g	1/6/11	Pass
		11n (20 MHz)	1/6/11	Pass
Radiated Emission Below 1 GHz	Mode 1	11g	1	Pass
Radiated Emission Above 1 GHz	Mode 1	11b	1/6/11	Pass
		11g	1/6/11	Pass
		11n (20 MHz)	1/6/11	Pass
Antenna Port Conducted Emission	Mode 1	11b	1/6/11	Pass
		11g	1/6/11	Pass
		11n (20 MHz)	1/6/11	Pass
Radiated Emission Band Edge	Mode 1	11b	1/6/11	Pass
		11g	1/6/11	Pass
		11n (20 MHz)	1/6/11	Pass
Occupied Bandwidth & DTS Bandwidth	Mode 1	11b	1/6/11	Pass
		11g	1/6/11	Pass
		11n (20 MHz)	1/6/11	Pass
Maximum Power Spectral Density	Mode 1	11b	1/6/11	Pass
		11g	1/6/11	Pass
		11n (20 MHz)	1/6/11	Pass

Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The worst case of data rate for 802.11b is 1 Mbps, for 802.11g is 6 Mbps, for 802.11n (20 MHz) is MCS 0, Nss1.
3. For radiated emission below 1 GHz and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.
4. The EUT was performed at X axis, Y axis and Z axis position for radiated emission and band edge tests. The worst case was found at Z axis, so the measurement will follow this same test configuration.

1.3. Comments and Remarks

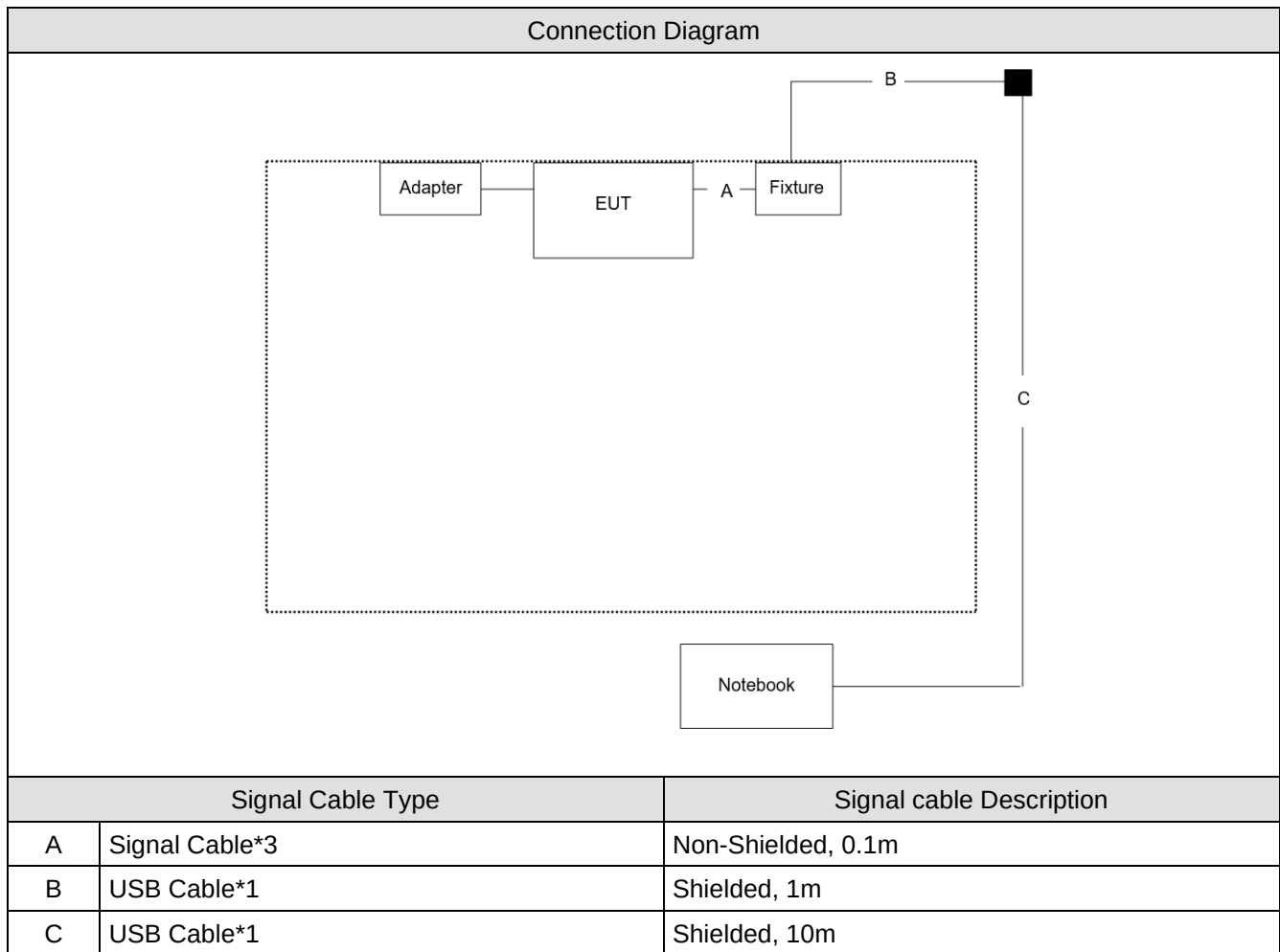
The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1.4. Tested System Details

The types for all equipment's, plus descriptions of all cables used in the tested system.

	Product	Manufacturer	Model No.	Serial No.
1	Fixture	Transystem	USB BRIDGE	N/A
2	Notebook	Lenovo	Lenovo Ideapad 320	PF0SXXY1
3	Adapter	Vivo	V1820B-US	312J19A09E0411A04

1.5. Configuration of Tested System



1.6. EUT Operation of during Test

1	Execute control command by software "Tera Term Version 4.75 (SVN# 5014)".
2	Configure the test mode, the test channel, and the data rate.
3	Press "Start TX" to start the continuous transmitting.
4	Verify that the EUT works properly.

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Actually	Tested by	Test Date	Test Site
Temperature (°C)	AC Power Line Conducted Emission	25.1	Getaz Yang	2022/08/15	HC-SR02
Humidity (%RH)		56			
Temperature (°C)	Maximum Conducted Output Power	22	Clemens Fang	2022/08/12	HC-SR12
Humidity (%RH)		66			
Temperature (°C)	Radiated Emission	23.5 ~ 24.2	Ling Chen	2022/08/01 ~ 2022/08/03	HC-CB02
Humidity (%RH)		55 ~ 58			
Temperature (°C)	Antenna Port Conducted Emission	22	Clemens Fang	2022/08/12	HC-SR12
Humidity (%RH)		66			
Temperature (°C)	Radiated Emission Band Edge	23.6	Ling Chen	2022/07/28	HC-CB02
Humidity (%RH)		58			
Temperature (°C)	Occupied Bandwidth & DTS Bandwidth	22	Clemens Fang	2022/08/12	HC-SR12
Humidity (%RH)		66			
Temperature (°C)	Maximum Power Spectral Density	22	Clemens Fang	2022/08/12	HC-SR12
Humidity (%RH)		66			

Note: Test site information refers to Laboratory Information.

USA : FCC Registration Number: TW3024

Canada : CAB identifier : TW3024

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.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
Phone number	1. +886-3-582-8001 2. +886-3-582-8001
Fax number	1. +886-3-582-8958 2. +886-3-582-8958
E mail address	info.tw@dekra.com
Website	http://www.dekra.com.tw
Note: Test site number for address 1 includes HC-SR02. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, SR10-H and HC-SR12.	

1.8. List of Test Equipment

HC-SR02

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2021/12/27	2022/12/26
EMI Test Receiver	R&S	ESR3	102608	2022/05/30	2023/05/29
LISN	R&S	ENV216	100092	2022/04/29	2023/04/28
Coaxial Cable(9m)	Harbour	RG-400	HC-SR02	2022/08/15	2023/08/14
DEKRA Testing System	DEKRA	Version 2.0	HC-SR02	N/A	N/A

HC-SR12

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2021/11/12	2022/11/11
Pulse Power Sensor	Anritsu	MA2411B	1531043	2021/11/12	2022/11/11
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2022/01/07	2023/01/06
Pulse Power Sensor	Anritsu	MA2411B	1531044	2021/11/12	2022/11/11
Signal and Spectrum Analyzer	R&S	FSVA40	101435	2022/05/30	2023/05/29

HC-CB02

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2021/10/22	2022/10/21
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2022/01/07	2023/01/06
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1272	2022/05/19	2023/05/18
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2022/05/06	2023/05/05
Horn Antenna	Schwarzbeck	BBHA 9170	203	2022/02/23	2023/02/22
Pre-Amplifier	EMCI	EMC01820I	980365	2022/04/15	2023/04/14
Pre-Amplifier	EMEC	EM01G18GA	060741	2022/05/06	2023/05/05
Pre-Amplifier	DEKRA	AP-400C	201801231	2021/12/24	2022/12/23
EMI Test Receiver	R&S	ESR7	102260	2021/12/22	2022/12/21
Magnetic Loop Antenna	Teseq	HLA 6121	44287	2021/09/06	2022/09/05
Coaxial Cable(13m)	Huber+Suhner	SF104	HC-CB02	2021/08/17	2022/08/16
Coaxial Cable(3m)	Suhner, Rosnol	SF102_Rosnol	HC-CB02_1	2021/08/17	2022/08/16
Radiated Software	AUDIX	e3 V9	HC-CB02_1	N/A	N/A

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

1.9. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test Item	Uncertainty
AC Power Line Conducted Emission	± 2.10 dB
Maximum Conducted Output Power	± 1.16 dB
Radiated Emission	± 3.25 dB below 1 GHz ± 3.32 dB above 1 GHz
Antenna Port Conducted Emission	± 1.60 dB
Radiated Emission Band Edge	± 3.32 dB above 1GHz
DTS Bandwidth	± 282.55 Hz
Occupied Bandwidth	± 282.55 Hz
Maximum Power Spectral Density	± 1.60 dB

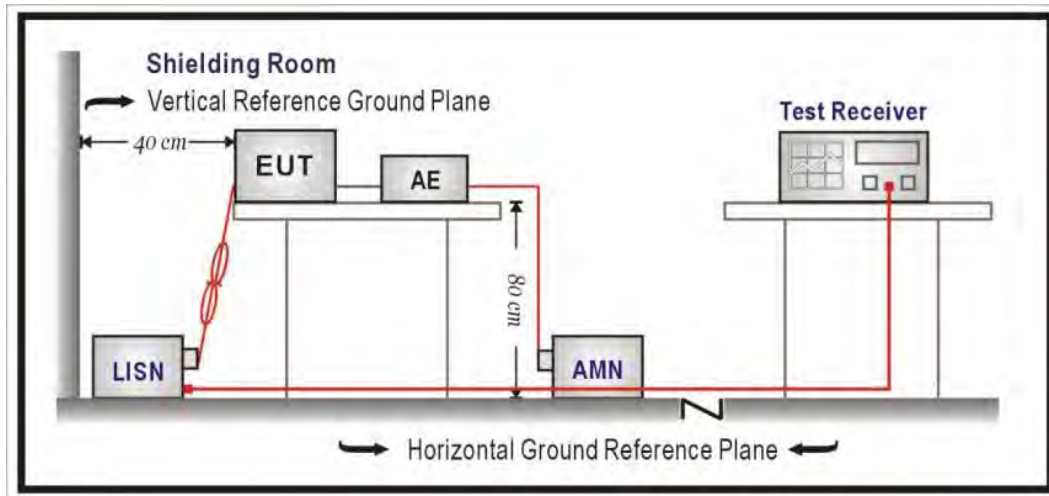
1.10. Duty Cycle

Modulation	On Times (ms)	On+Off Times (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11b	8.150	8.550	95.32	0.208	0.123
802.11g	1.360	1.460	93.15	0.308	0.735
802.11n (20 MHz)	1.270	1.390	91.37	0.392	0.787



2. AC Power Line Conducted Emission

2.1. Test Setup



2.2. Test Limit

Frequency (MHz)	QP (dBuV)	AV (dBuV)
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 /50 uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 ohm/50 uH coupling impedance with 50 ohm 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 C63.10: 2013 on conducted measurement.

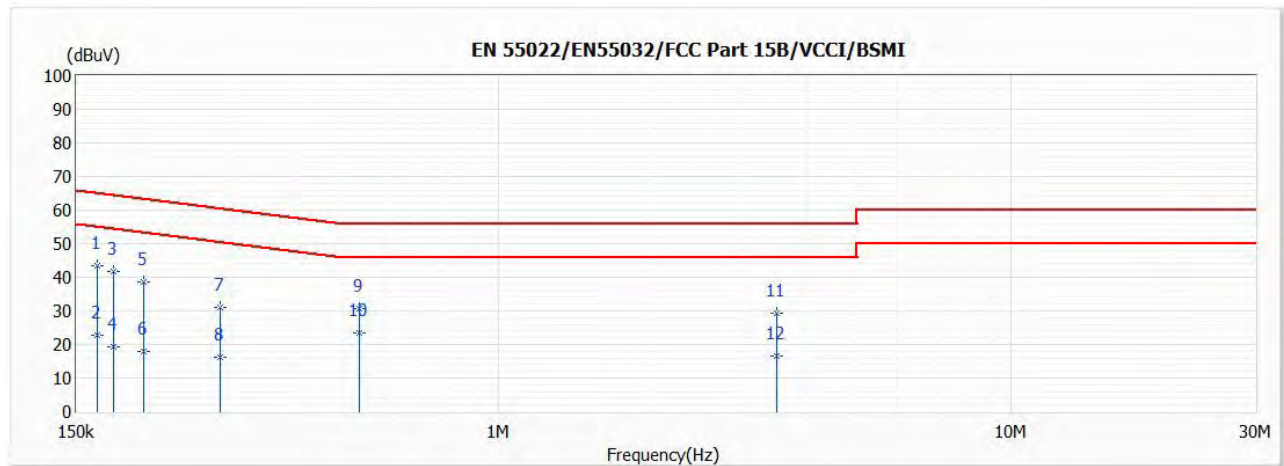
AC Power Line Conducted Emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

2.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

2.5. Test Result of AC Power Line Conducted Emission

Test Condition	802.11g / 2412 MHz	Phase	Line
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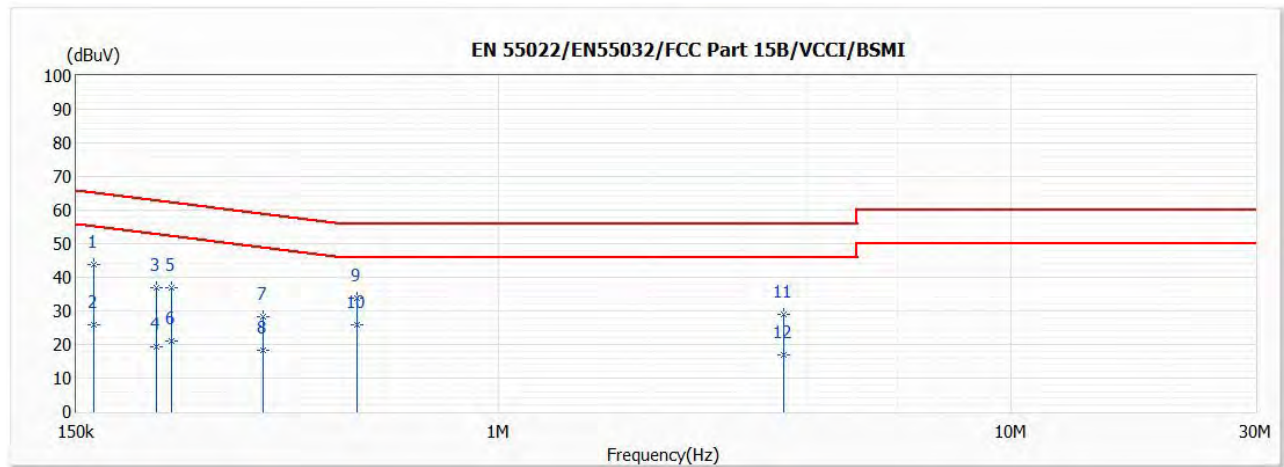


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.165	43.50	65.21	-21.71	33.88	9.62	QP
2	0.165	22.72	55.21	-32.49	13.10	9.62	AV
3	0.177	41.63	64.61	-22.98	32.02	9.61	QP
4	0.177	19.26	54.61	-35.35	9.65	9.61	AV
5	0.203	38.50	63.49	-24.99	28.89	9.61	QP
6	0.203	17.90	53.49	-35.59	8.29	9.61	AV
7	0.287	30.99	60.62	-29.63	21.37	9.62	QP
8	0.287	16.30	50.62	-34.32	6.68	9.62	AV
9	0.535	30.69	56.00	-25.31	21.04	9.65	QP
10	0.535	23.30	46.00	-22.70	13.65	9.65	AV
11	3.488	29.46	56.00	-26.54	19.65	9.81	QP
12	3.488	16.48	46.00	-29.52	6.67	9.81	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Test Condition	802.11g / 2412 MHz	Phase	Neutral
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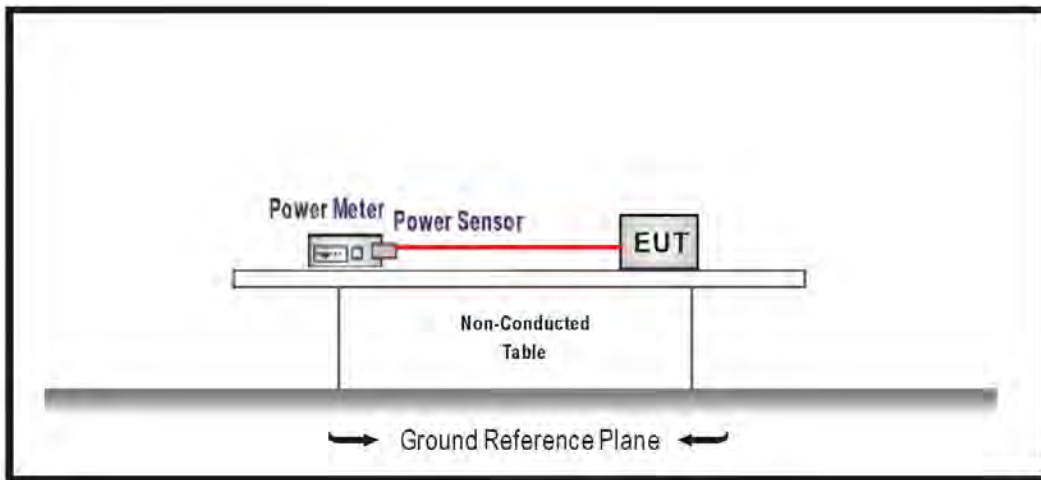
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.162	43.65	65.36	-21.71	34.03	9.62	QP
2	0.162	25.78	55.36	-29.58	16.16	9.62	AV
3	0.215	36.82	63.01	-26.19	27.20	9.62	QP
4	0.215	19.44	53.01	-33.57	9.82	9.62	AV
5	0.230	36.90	62.46	-25.56	27.28	9.62	QP
6	0.230	20.93	52.46	-31.53	11.31	9.62	AV
7	0.346	28.40	59.05	-30.65	18.77	9.63	QP
8	0.346	18.22	49.05	-30.83	8.59	9.63	AV
9	0.528	33.79	56.00	-22.21	24.15	9.64	QP
*10	0.528	25.95	46.00	-20.05	16.31	9.64	AV
11	3.601	28.87	56.00	-27.13	19.04	9.83	QP
12	3.601	17.01	46.00	-28.99	7.18	9.83	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

3. Maximum Conducted Output Power

3.1. Test Setup



3.2. Test Limit

The maximum conducted output power shall be less 30 dBm (1 Watt).

3.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements.

3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

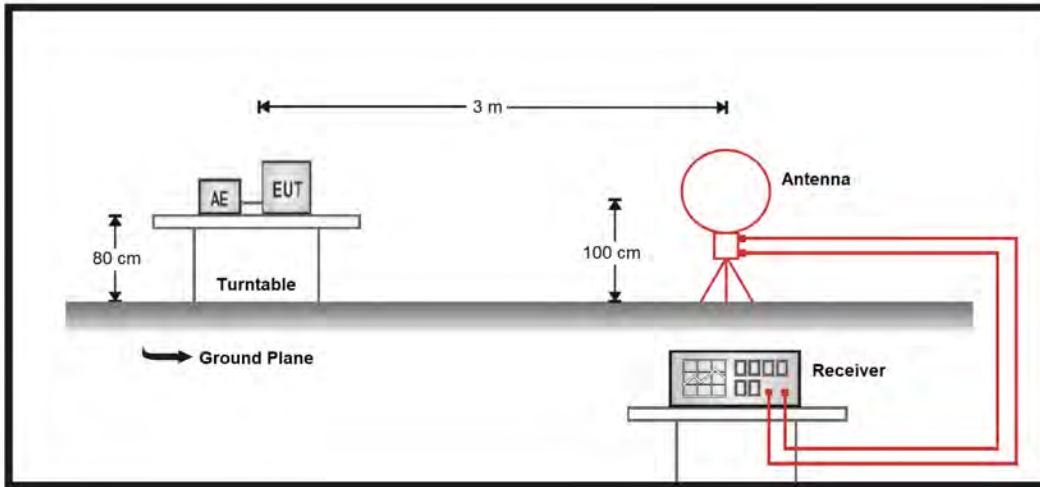
3.5. Test Result of Maximum Conducted Output Power

Modulation	Channel	Frequency (MHz)	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
802.11b	1	2412	17.210	≤ 30.00	Pass
	6	2437	17.340	≤ 30.00	Pass
	11	2462	16.820	≤ 30.00	Pass
802.11g	1	2412	14.940	≤ 30.00	Pass
	6	2437	17.340	≤ 30.00	Pass
	11	2462	13.480	≤ 30.00	Pass
802.11n (20 MHz)	1	2412	12.460	≤ 30.00	Pass
	6	2437	15.790	≤ 30.00	Pass
	11	2462	13.520	≤ 30.00	Pass

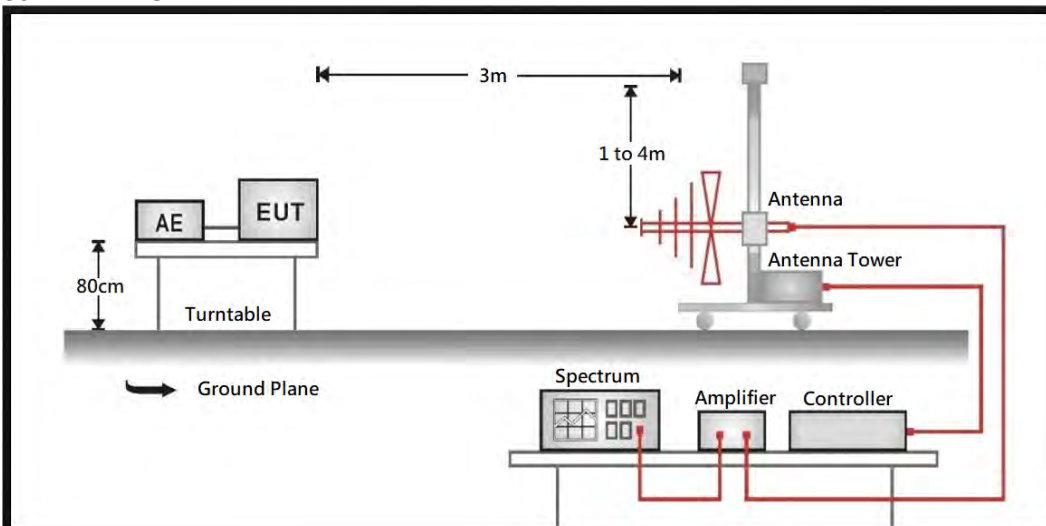
4. Radiated Emission

4.1. Test Setup

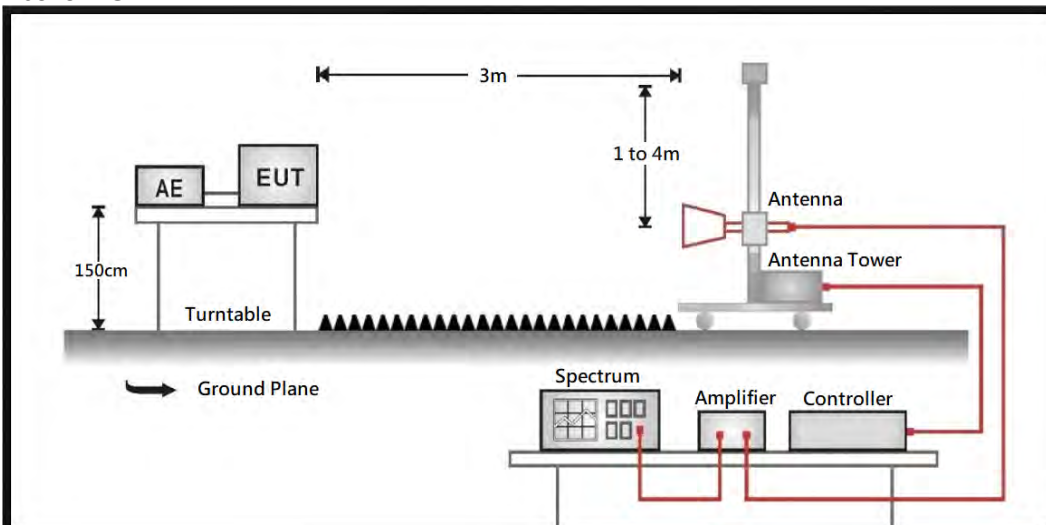
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



4.2. Test Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 30dB below the level of the fundamental or to the general radiated emission limit in paragraph 15.209, whichever is the lesser attenuation.

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the 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 KDB 558074 D01V05r02 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 from 9 kHz(include The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limit shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limit 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.

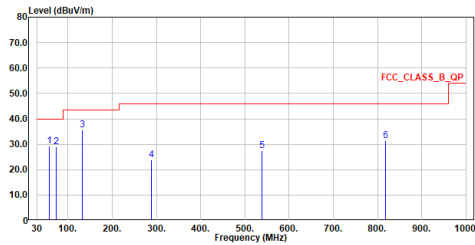
The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz.

4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

4.5. Test Result of Radiated Emissions (30 MHz ~ 1 GHz)

Site :HC-CB02
Condition :3m Horizontal
Mode :LF_TX_g_2412
Test by :Ling

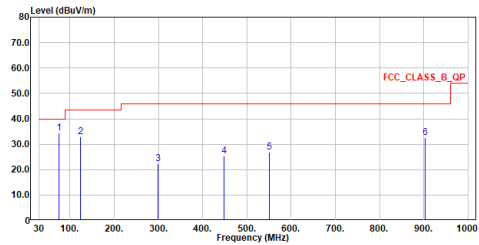


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	57.354	29.26	40.00	-10.74	31.79	-2.53	QP
2	73.747	28.97	40.00	-11.03	34.20	-5.23	QP
3	131.753	35.59	43.50	-7.91	39.23	-3.64	QP
4	289.087	23.98	46.00	-22.02	26.06	-2.08	QP
5	538.668	27.34	46.00	-18.66	23.11	4.23	QP
6	818.707	31.50	46.00	-14.50	22.23	9.27	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :LF_TX_g_2412
Test by :Ling



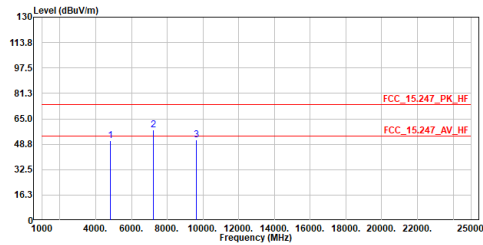
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	74.814	34.39	40.00	-5.61	39.75	-5.36	QP
2	123.314	32.91	43.50	-10.59	37.37	-4.46	QP
3	298.787	22.22	46.00	-23.78	24.06	-1.84	QP
4	447.973	25.32	46.00	-20.68	23.07	2.25	QP
5	551.084	26.90	46.00	-19.10	22.50	4.40	QP
6	903.388	32.69	46.00	-13.31	22.43	10.26	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

4.6. Test Result of Radiated Emissions (1 GHz ~ 10th Harmonic)

Site :HC-CB02
Condition :3m Horizontal
Mode :HF_TX_b_2412
Test by :Ling

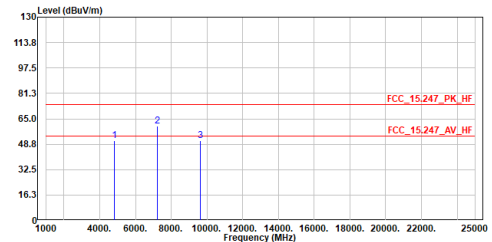


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4824.000	51.07	74.00	-22.93	64.82	-13.75	Peak
2	7236.000	57.94	74.00	-16.06	62.64	-4.70	Peak
3	9648.000	51.67	74.00	-22.33	53.96	-2.29	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :HF_TX_b_2412
Test by :Ling

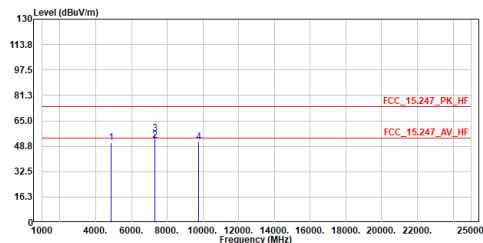


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4824.000	51.01	74.00	-22.99	64.76	-13.75	Peak
2	7236.000	60.51	74.00	-13.49	65.21	-4.70	Peak
3	9648.000	51.06	74.00	-22.94	53.35	-2.29	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Horizontal
Mode :HF_TX_b_2437
Test by :Ling

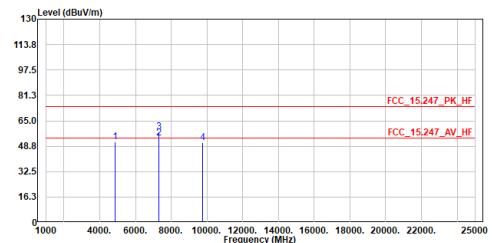


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4874.000	50.86	74.00	-23.14	64.41	-13.55	Peak
2	7311.000	52.65	54.00	-1.35	57.25	-4.60	Average
3	7311.000	57.03	74.00	-16.97	61.63	-4.60	Peak
4	9748.000	51.41	74.00	-22.59	53.46	-2.05	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :HF_TX_b_2437
Test by :Ling

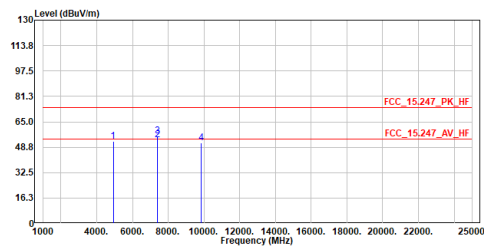


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4874.000	51.61	74.00	-22.39	65.16	-13.55	Peak
2	7311.000	53.81	54.00	-0.19	58.41	-4.60	Average
3	7311.000	57.96	74.00	-16.04	62.56	-4.60	Peak
4	9748.000	51.17	74.00	-22.83	53.22	-2.05	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Horizontal
Mode :HF_TX_b_2462
Test by :Ling

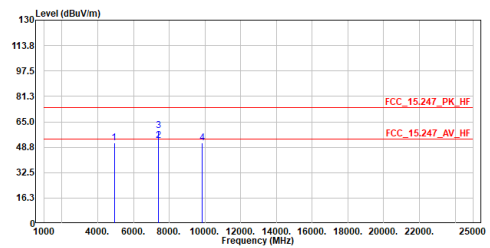


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4924.000	52.64	74.00	-21.36	66.00	-13.36	Peak
2	7386.000	53.33	54.00	-0.67	57.83	-4.50	Average
3	7386.000	56.05	74.00	-17.95	60.55	-4.50	Peak
4	9848.000	51.50	74.00	-22.50	53.31	-1.81	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :HF_TX_b_2462
Test by :Ling

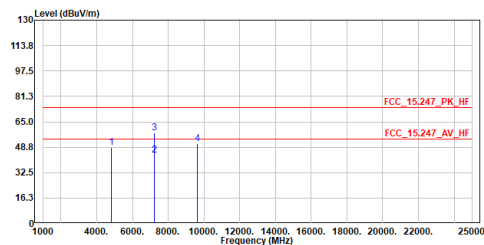


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4924.000	51.39	74.00	-22.61	64.75	-13.36	Peak
2	7386.000	52.82	54.00	-1.18	57.32	-4.50	Average
3	7386.000	59.21	74.00	-14.79	63.71	-4.50	Peak
4	9848.000	51.70	74.00	-22.30	53.51	-1.81	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Horizontal
Mode :HF_TX_g_2412
Test by :Ling

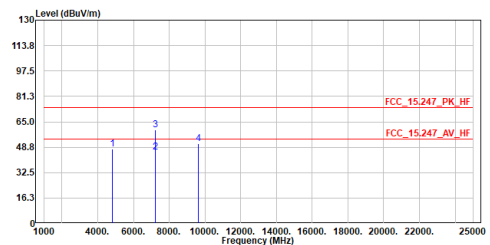


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4824.000	48.65	74.00	-25.35	62.40	-13.75	Peak
2	7236.000	43.89	54.00	-10.11	48.59	-4.70	Average
3	7236.000	58.07	74.00	-15.93	62.77	-4.70	Peak
4	9648.000	50.99	74.00	-23.01	53.28	-2.29	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :HF_TX_g_2412
Test by :Ling

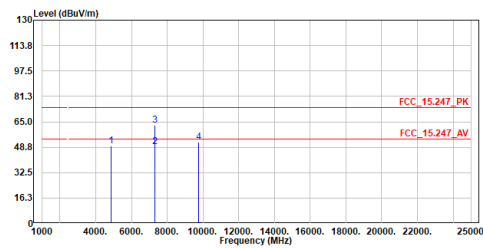


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4824.000	47.77	74.00	-26.23	61.52	-13.75	Peak
2	7236.000	45.86	54.00	-8.14	50.56	-4.70	Average
3	7236.000	59.77	74.00	-14.23	64.47	-4.70	Peak
4	9648.000	51.16	74.00	-22.84	53.45	-2.29	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

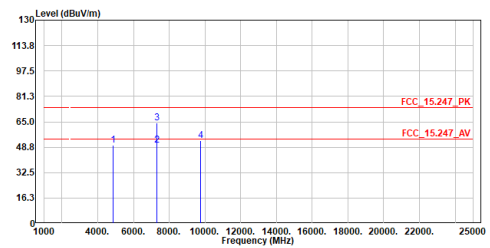
Site :HC-CB02
Condition :3m Horizontal
Mode :HF_TX_g_2437
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	4874.000	49.34	74.00	-24.66	62.89	-13.55	Peak
2	7311.000	49.09	54.00	-4.91	53.69	-4.60	Average
3	7311.000	62.83	74.00	-11.17	67.43	-4.60	Peak
4	9748.000	52.13	74.00	-21.87	54.18	-2.05	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

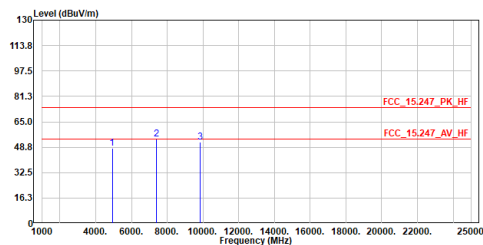
Site :HC-CB02
Condition :3m Vertical
Mode :HF_TX_g_2437
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	4874.000	50.24	74.00	-23.76	63.79	-13.55	Peak
2	7311.000	50.15	54.00	-3.85	54.75	-4.60	Average
3	7311.000	64.05	74.00	-9.95	68.65	-4.60	Peak
4	9748.000	52.76	74.00	-21.24	54.81	-2.05	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

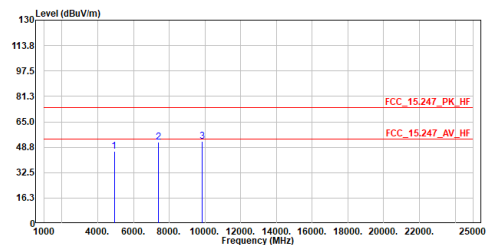
Site :HC-CB02
Condition :3m Horizontal
Mode :HF_TX_g_2462
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	4924.000	47.88	74.00	-26.12	61.24	-13.36	Peak
2	7386.000	53.79	74.00	-20.21	58.29	-4.50	Peak
3	9848.000	51.99	74.00	-22.01	53.80	-1.81	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

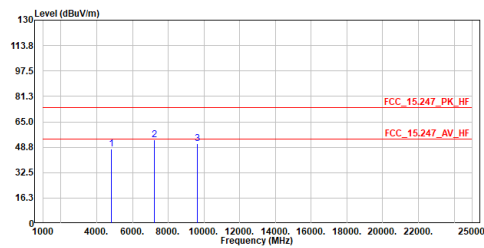
Site :HC-CB02
Condition :3m Vertical
Mode :HF_TX_g_2462
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	4924.000	45.88	74.00	-28.12	59.24	-13.36	Peak
2	7386.000	52.10	74.00	-21.90	56.60	-4.50	Peak
3	9848.000	52.44	74.00	-21.56	54.25	-1.81	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

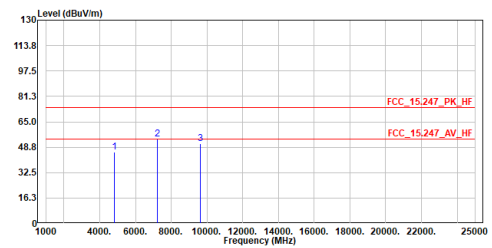
Site :HC-CB02
Condition :3m Horizontal
Mode :HF_TX_n20_2412
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4824.000	47.35	74.00	-26.65	61.10	-13.75	Peak
2	7236.000	53.69	74.00	-20.31	58.39	-4.70	Peak
3	9648.000	51.14	74.00	-22.86	53.43	-2.29	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

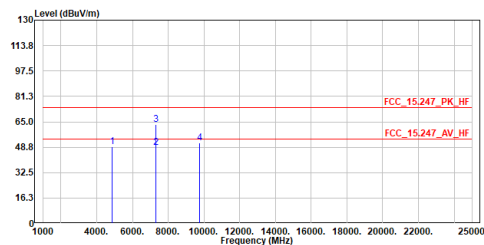
Site :HC-CB02
Condition :3m Vertical
Mode :HF_TX_n20_2412
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4824.000	45.80	74.00	-28.20	59.55	-13.75	Peak
2	7236.000	53.77	74.00	-20.23	58.47	-4.70	Peak
3	9648.000	51.20	74.00	-22.80	53.49	-2.29	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

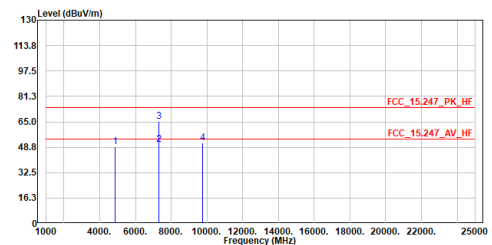
Site :HC-CB02
Condition :3m Horizontal
Mode :HF_TX_n20_2437
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4874.000	49.18	74.00	-24.82	62.73	-13.55	Peak
2	7311.000	48.62	54.00	-5.38	53.22	-4.60	Average
3	7311.000	63.17	74.00	-10.83	67.77	-4.60	Peak
4	9748.000	51.31	74.00	-22.69	53.36	-2.05	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

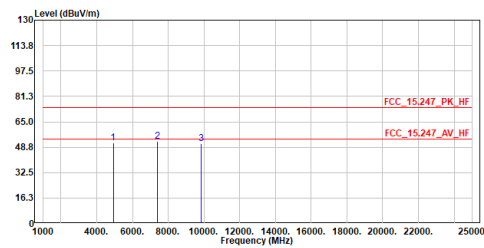
Site :HC-CB02
Condition :3m Vertical
Mode :HF_TX_n20_2437
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	4874.000	49.03	74.00	-24.97	62.58	-13.55	Peak
2	7311.000	50.59	54.00	-3.41	55.19	-4.60	Average
3	7311.000	65.03	74.00	-8.97	69.63	-4.60	Peak
4	9748.000	51.28	74.00	-22.72	53.33	-2.05	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Horizontal
Mode :HF_TX_n20_2462
Test by :Ling

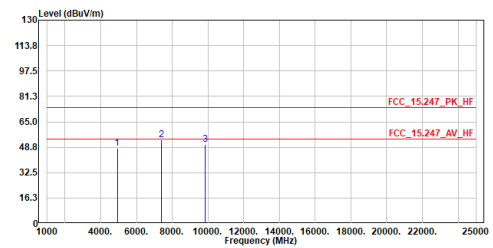


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	4924.000	51.31	74.00	-22.69	64.67	-13.36	Peak
2	7386.000	52.45	74.00	-21.55	56.95	-4.50	Peak
3	9848.000	51.08	74.00	-22.92	52.89	-1.81	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :HF_TX_n20_2462
Test by :Ling



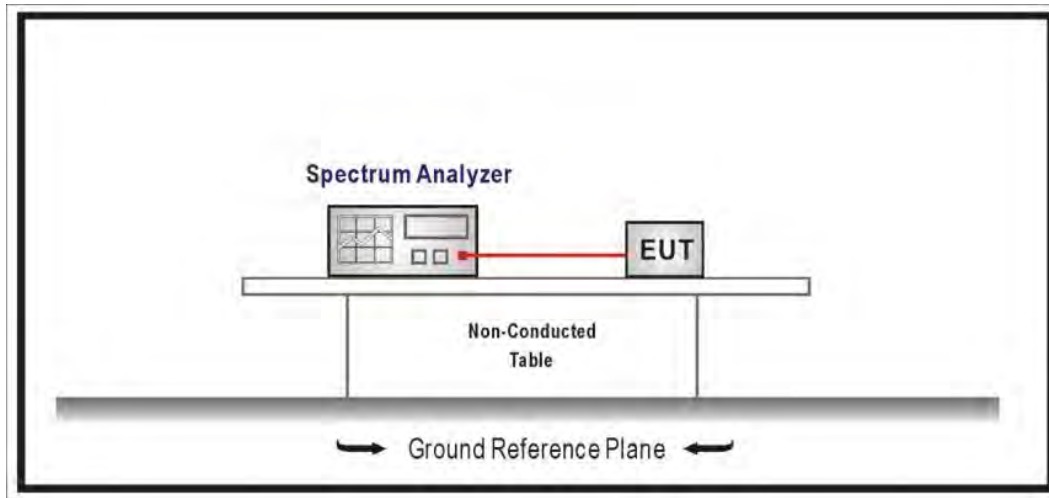
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	4924.000	47.95	74.00	-26.05	61.31	-13.36	Peak
2	7386.000	53.47	74.00	-20.53	57.97	-4.50	Peak
3	9848.000	50.39	74.00	-23.61	52.20	-1.81	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

5. Antenna Port Conducted Emission

5.1. Test Setup



5.2. Test Limit

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 limit. If the transmitter complies with the conducted power limit 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 limit 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 limit 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 KDB 558074 D01 V05r02 for compliance to FCC 47CFR 15.247 requirements.

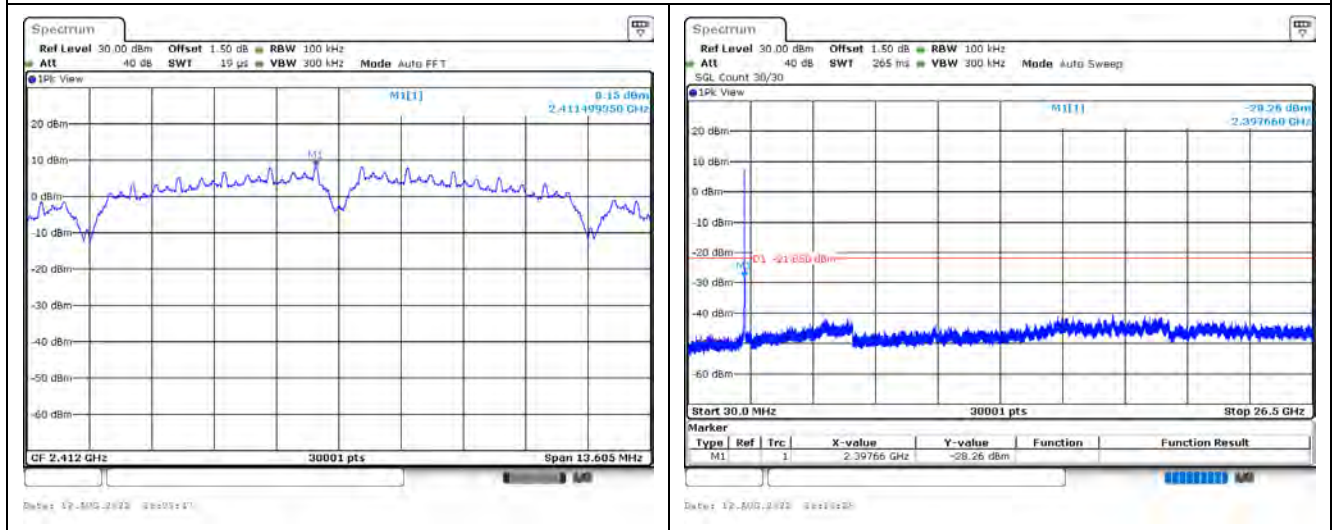
Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.4. Test Specification

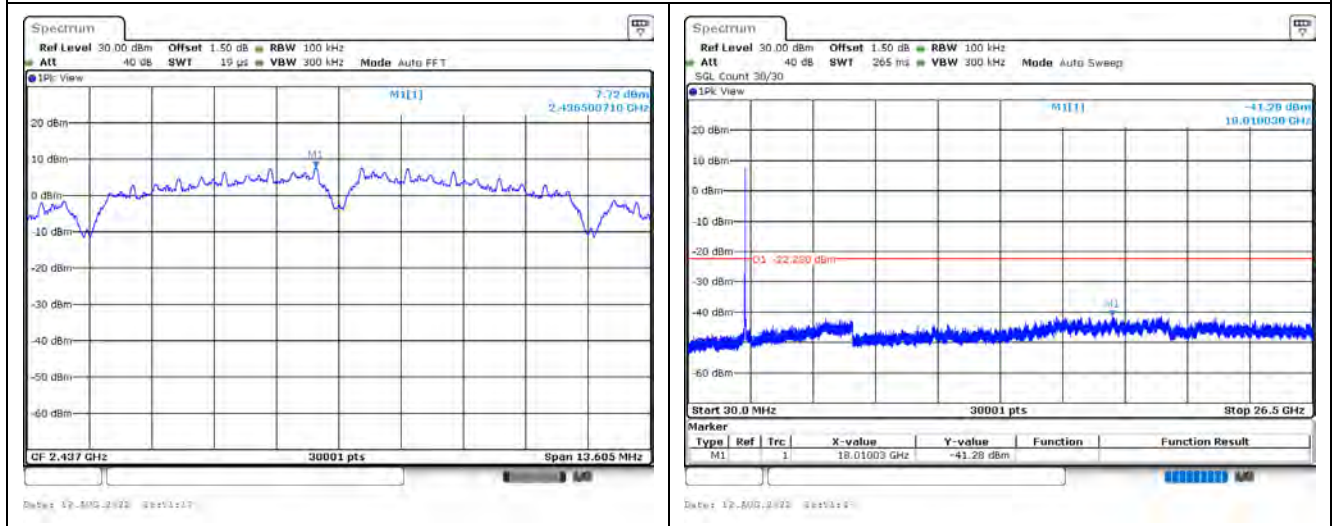
According to FCC Part 15 Subpart C Paragraph 15.247.

5.5. Test Result of Antenna Port Conducted Emission

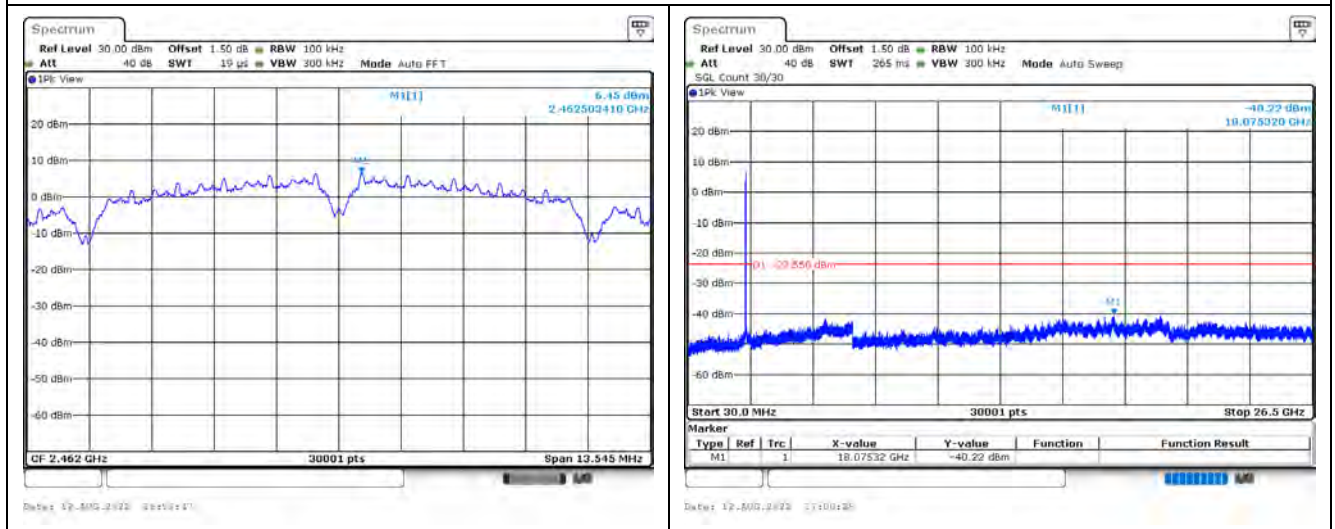
802.11b / 2412 MHz

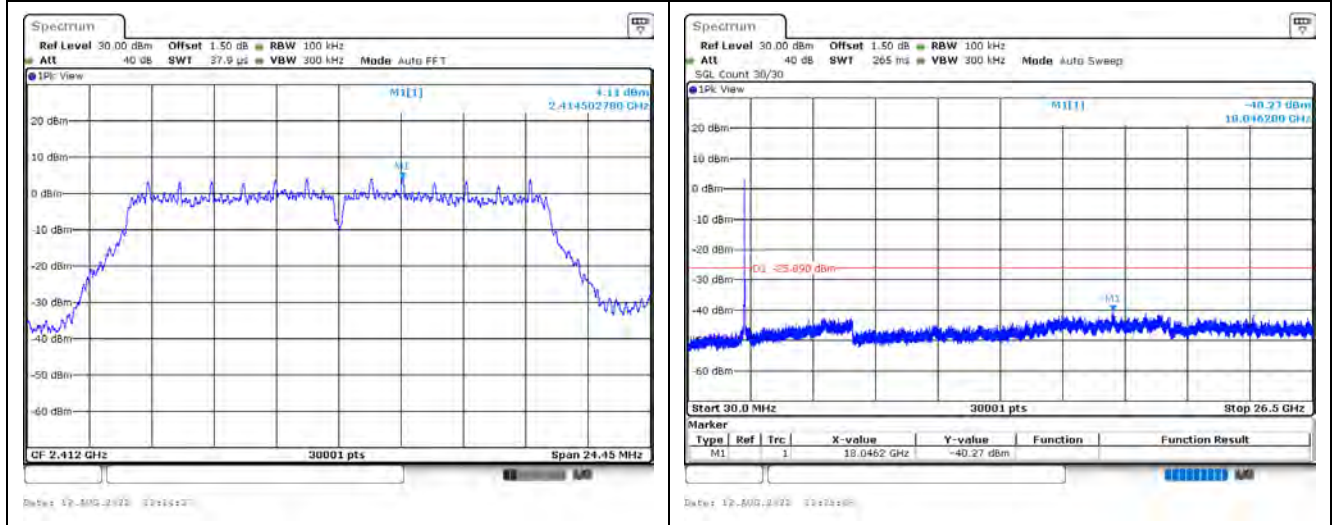
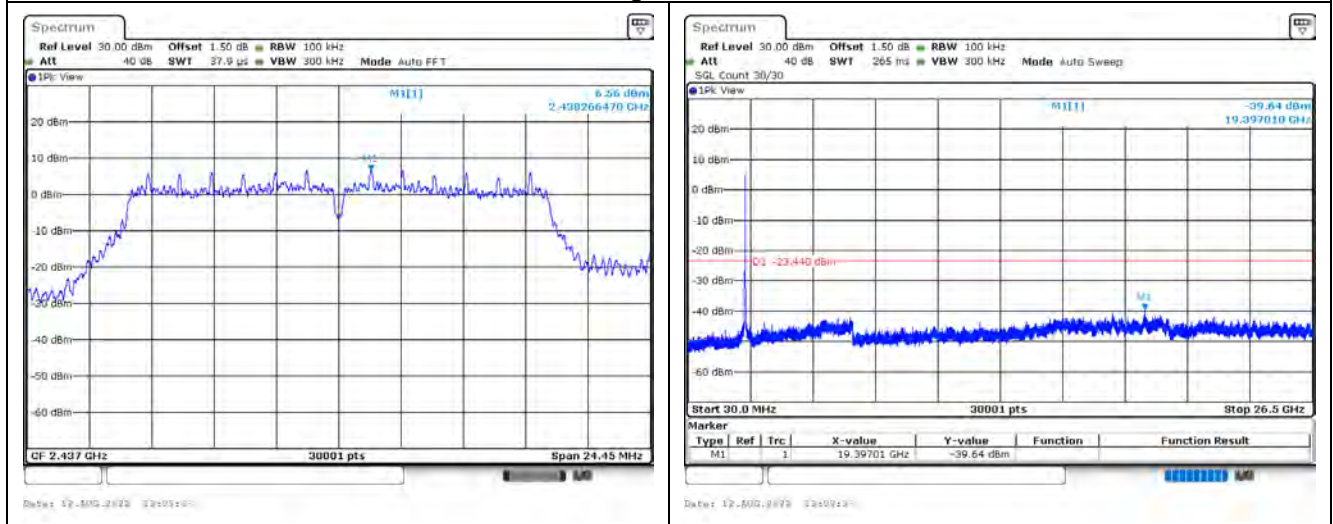
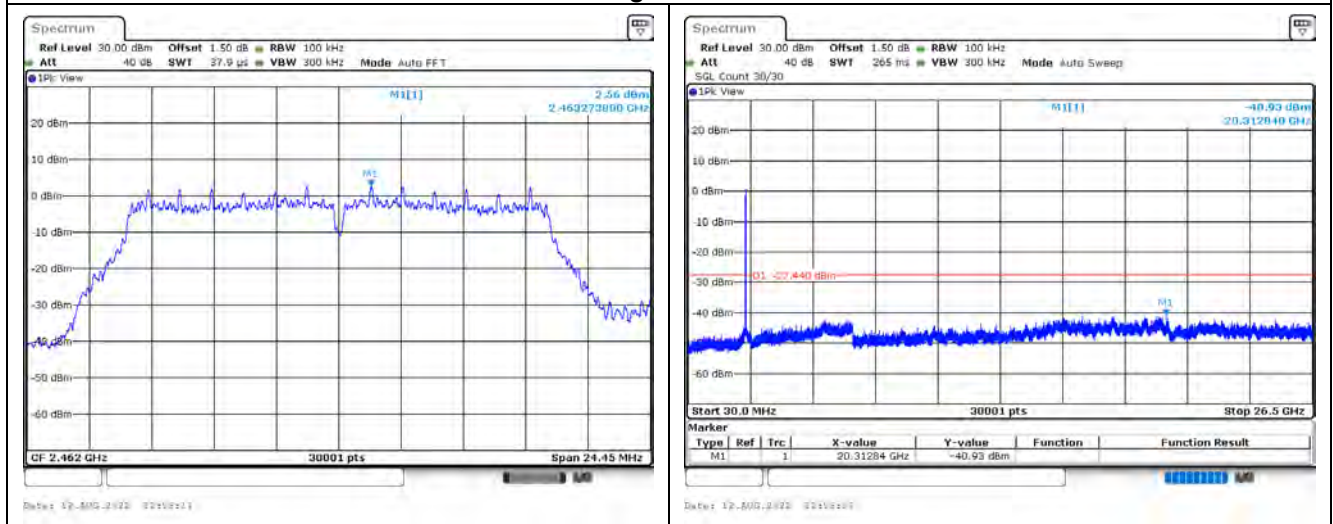


802.11b / 2437 MHz

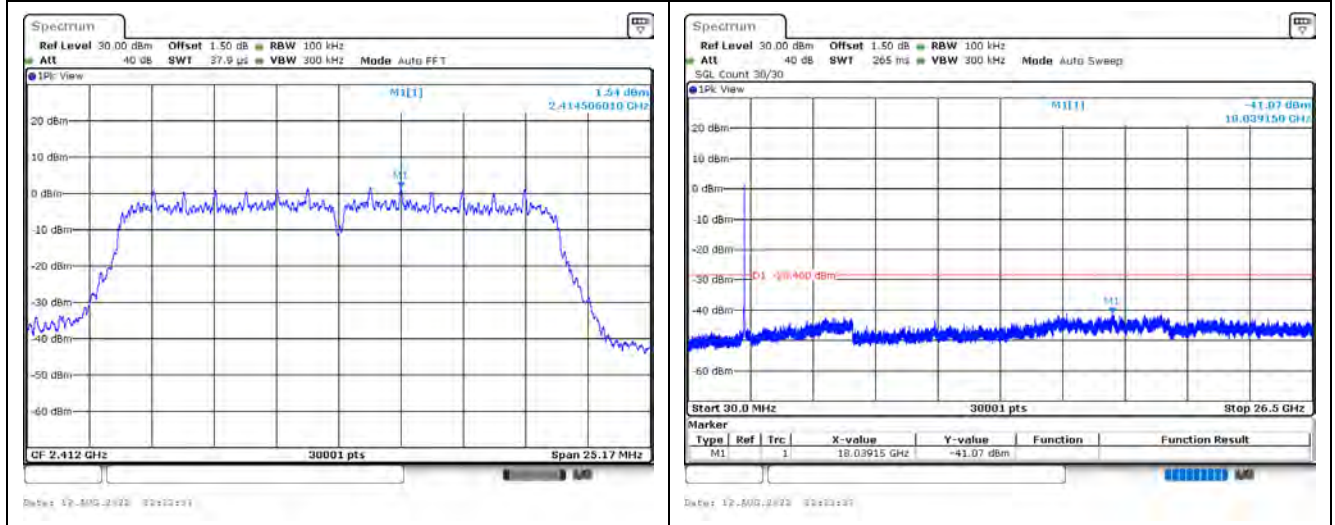


802.11b / 2462 MHz

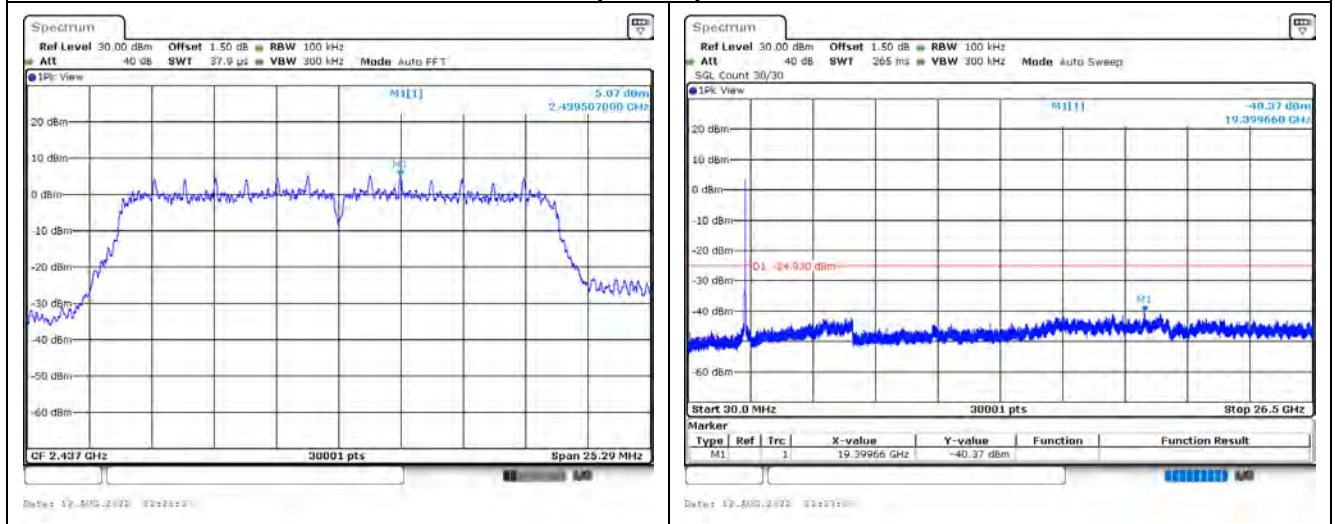


802.11g / 2412 MHz**802.11g / 2437 MHz****802.11g / 2462 MHz**

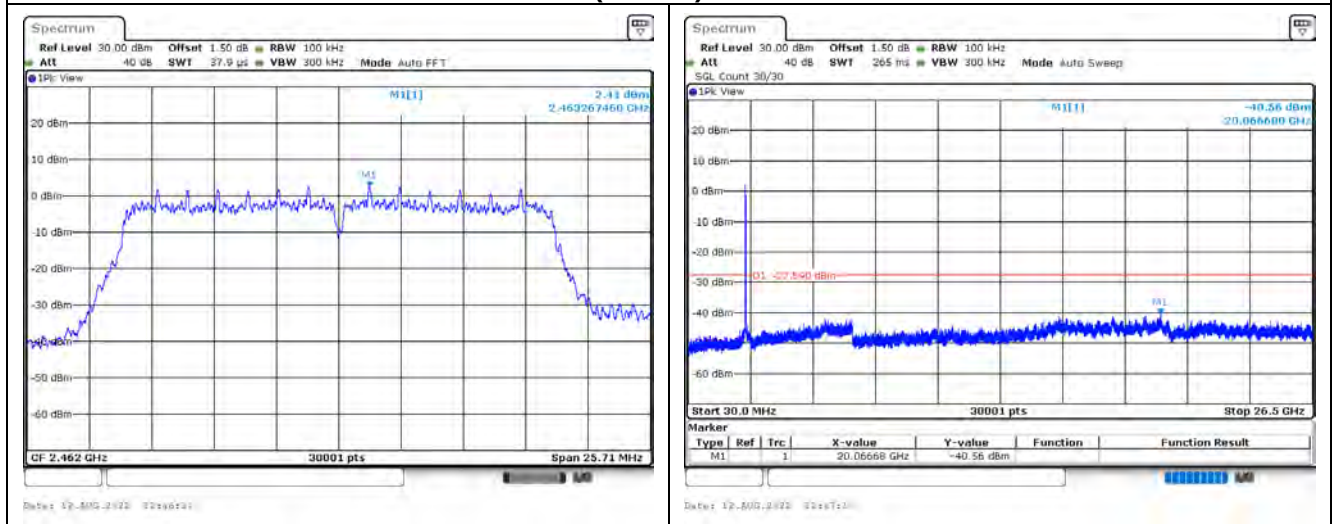
802.11n (20 MHz) / 2412 MHz

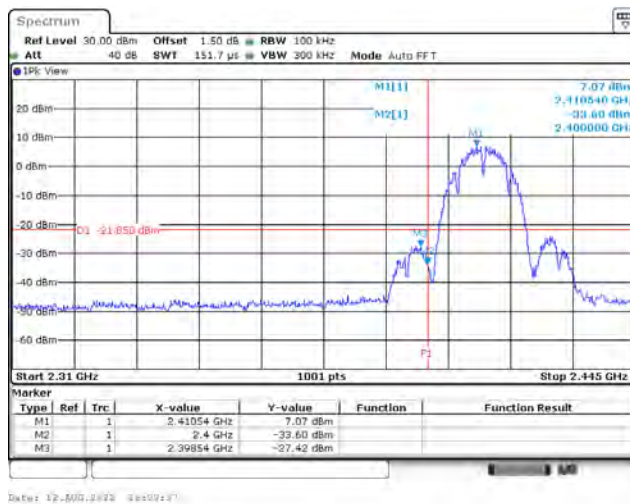
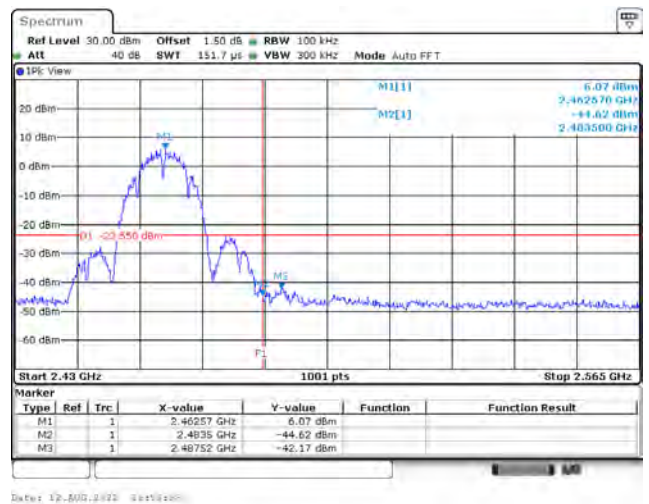
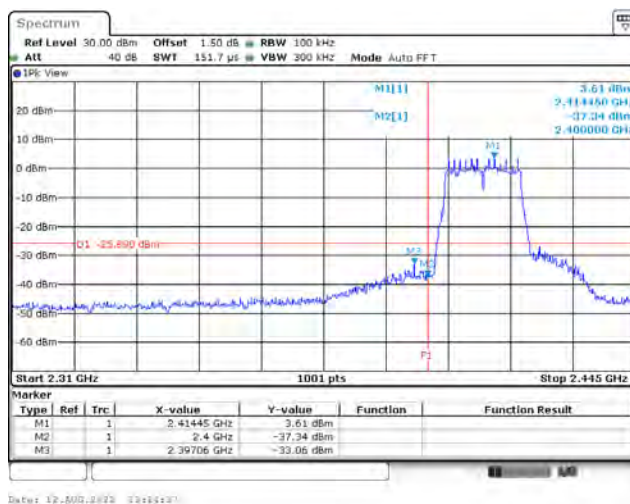
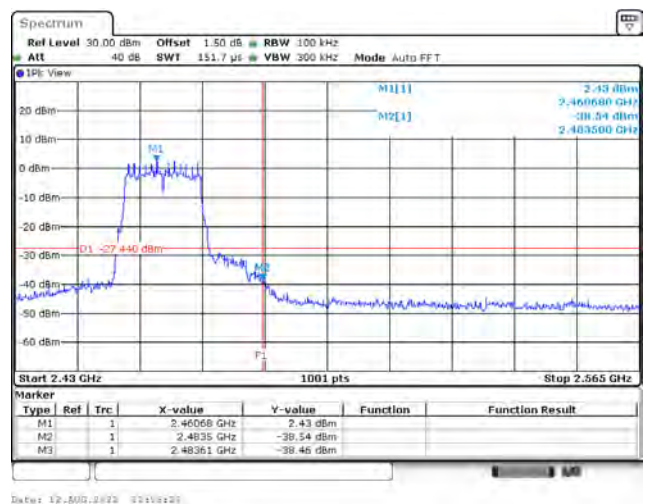
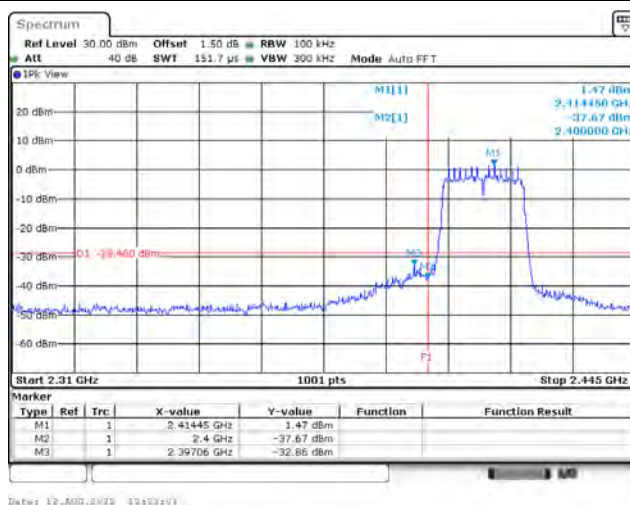
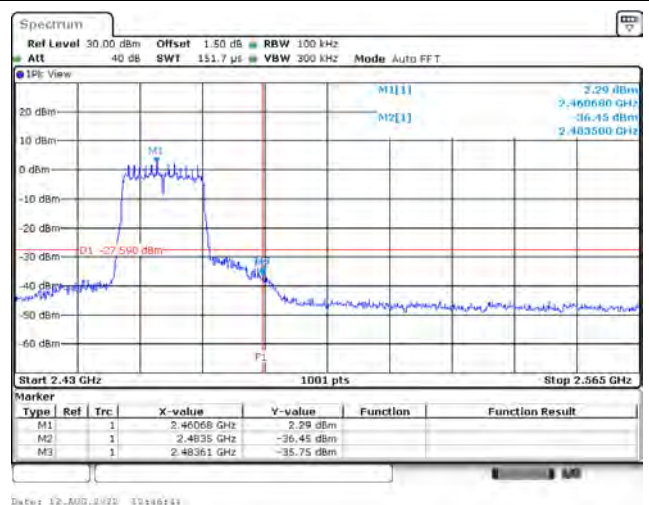


802.11n (20 MHz) / 2437 MHz



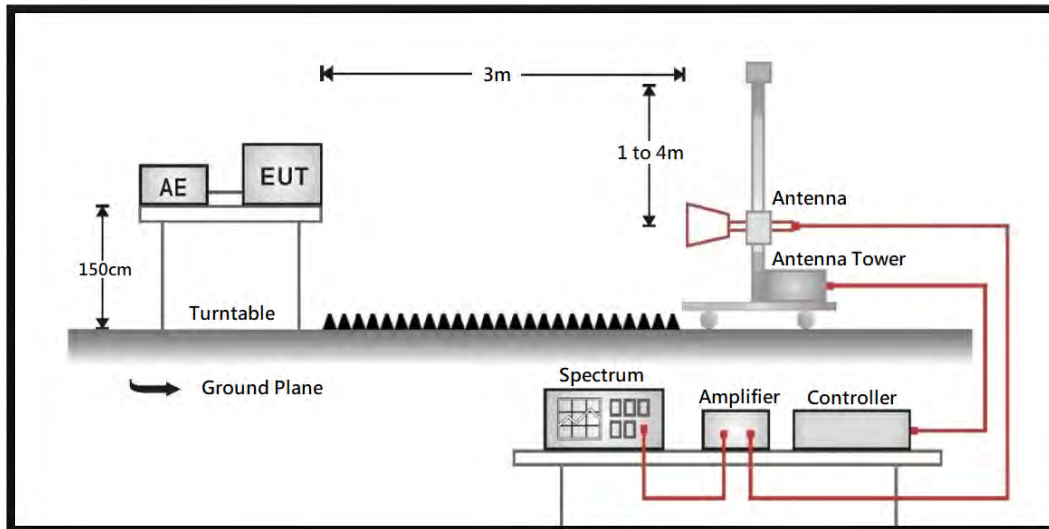
802.11n (20 MHz) / 2462 MHz



802.11b / 2412 MHz (Band Edge)**802.11b / 2462 MHz (Band Edge)****802.11g / 2412 MHz (Band Edge)****802.11g / 2462 MHz (Band Edge)****802.11n (20 MHz) / 2412 MHz (Band Edge)****802.11n (20 MHz) / 2462 MHz (Band Edge)**

6. Radiated Emission Band Edge

6.1. Test Setup



6.2. Test Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 30 dB below the level of the fundamental or to the general radiated emission limit in paragraph 15.209, whichever is the lesser attenuation.

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the 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

6.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to the FCC KDB 558074 D01 v05r02 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 antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

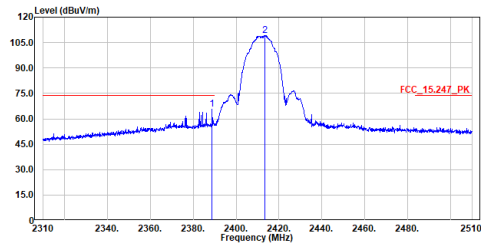
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

6.5. Test Result of Radiated Emission Band Edge

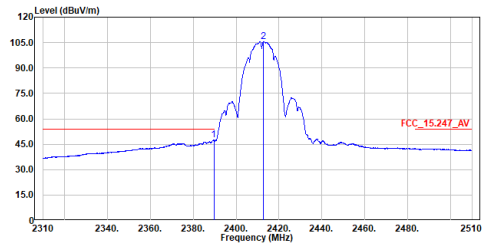
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_b_2412
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2388.800	65.78	74.00	-8.22	52.30	13.48	Peak
2	2413.500	109.19	-----	-----	95.56	13.63	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

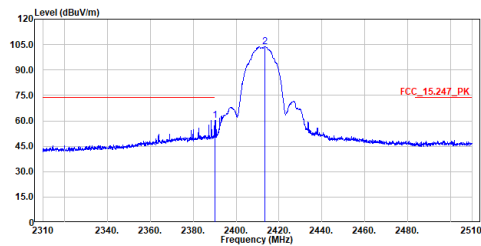
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_b_2412
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2389.600	47.43	54.00	-6.57	33.95	13.48	Average
2	2412.700	105.63	-----	-----	92.00	13.63	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

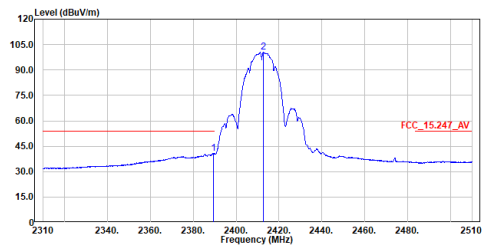
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_b_2412
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2390.000	60.43	74.00	-13.57	46.95	13.48	Peak
2	2413.400	103.90	-----	-----	90.27	13.63	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

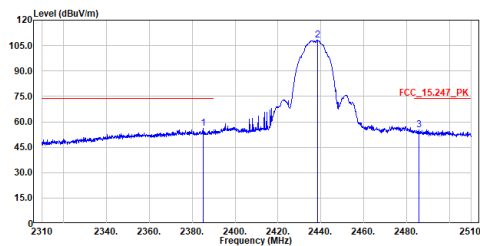
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_b_2412
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2389.500	40.97	54.00	-13.03	27.49	13.48	Average
2	2412.700	100.39	-----	-----	86.76	13.63	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

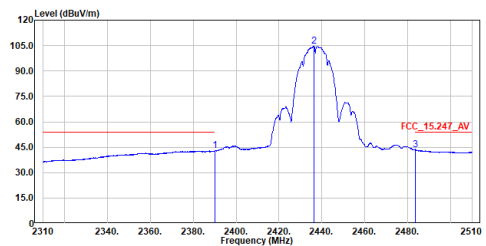
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_b_2437
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2385.000	56.07	74.00	-17.93	42.61	13.46	Peak
2	2438.300	108.17	-----	-----	94.39	13.78	Peak
3	2485.700	55.31	74.00	-18.69	41.23	14.08	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

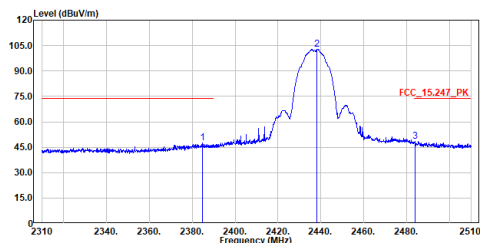
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_b_2437
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2390.000	42.81	54.00	-11.19	29.33	13.48	Average
2	2436.300	104.70	-----	-----	90.92	13.78	Average
3	2483.600	43.58	54.00	-10.42	29.51	14.07	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

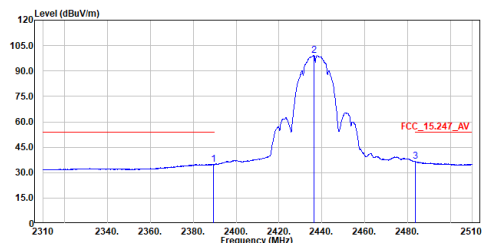
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_b_2437
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2384.700	47.38	74.00	-26.62	33.93	13.45	Peak
2	2438.100	102.70	-----	-----	88.92	13.78	Peak
3	2483.800	48.48	74.00	-25.52	34.41	14.07	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

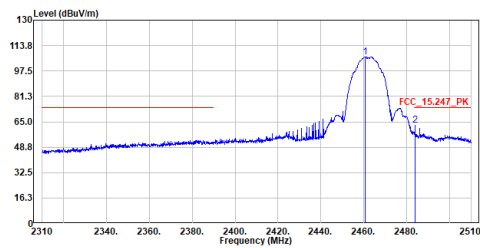
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_b_2437
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2389.300	34.98	54.00	-19.02	21.50	13.48	Average
2	2436.200	99.37	-----	-----	85.59	13.78	Average
3	2483.600	36.56	54.00	-17.44	22.49	14.07	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

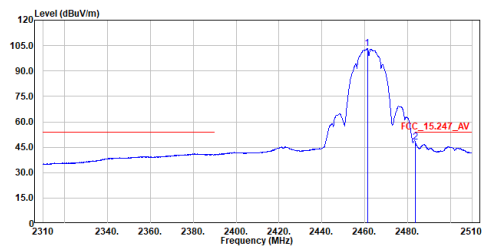
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_b_2462
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2461.200	106.64	-----	-----	92.72	13.92	Peak
2	2483.500	62.62	74.00	-11.38	48.55	14.07	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

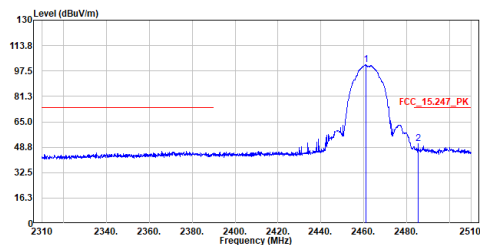
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_b_2462
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2461.200	103.23	-----	-----	89.31	13.92	Average
2	2483.500	48.21	54.00	-5.79	34.14	14.07	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

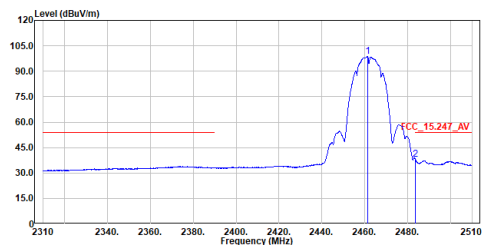
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_b_2462
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2461.000	101.38	-----	-----	87.46	13.92	Peak
2	2485.400	51.00	74.00	-23.00	36.92	14.08	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

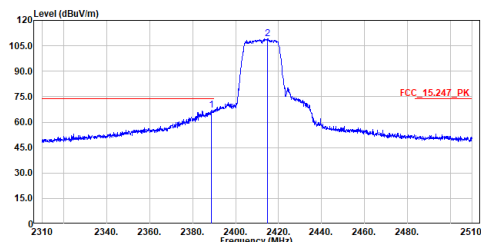
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_b_2462
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2461.300	98.84	-----	-----	84.91	13.93	Average
2	2483.600	37.91	54.00	-16.09	23.84	14.07	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

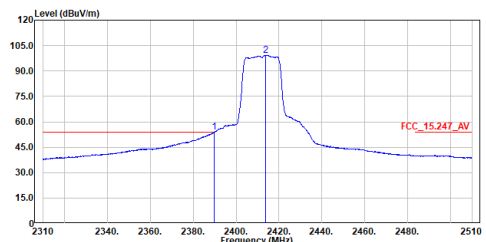
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_g_2412
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2388.600	67.12	74.00	-6.88	53.64	13.48	Peak
2	2415.000	109.08	-----	-----	95.43	13.65	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

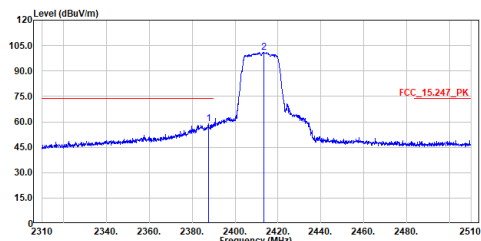
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_g_2412
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2389.900	53.95	54.00	-0.05	40.47	13.48	Average
2	2413.800	99.25	-----	-----	85.62	13.63	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

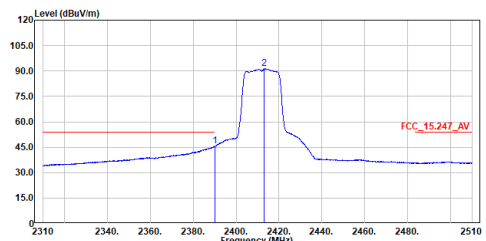
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_g_2412
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2387.500	58.71	74.00	-15.29	45.24	13.47	Peak
2	2413.400	101.02	-----	-----	87.39	13.63	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

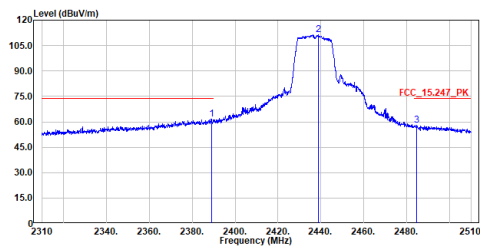
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_g_2412
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2390.000	45.56	54.00	-8.44	32.08	13.48	Average
2	2413.200	91.28	-----	-----	77.65	13.63	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

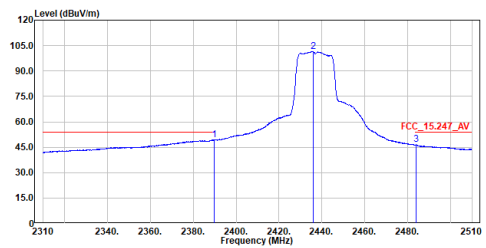
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_g_2437
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2389.200	61.71	74.00	-12.29	48.23	13.48	Peak
2	2438.900	111.21	-----	-----	97.42	13.79	Peak
3	2484.800	58.05	74.00	-15.95	43.98	14.07	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

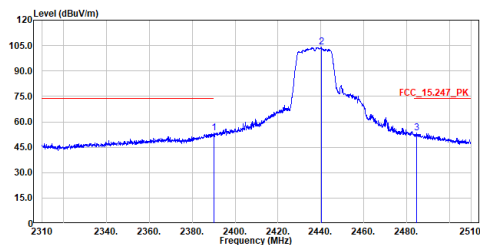
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_g_2437
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2389.800	49.33	54.00	-4.67	35.85	13.48	Average
2	2435.800	101.45	-----	-----	87.68	13.77	Average
3	2483.900	46.64	54.00	-7.36	32.57	14.07	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

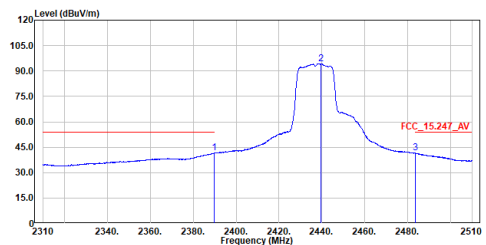
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_g_2437
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2390.000	53.42	74.00	-20.58	39.94	13.48	Peak
2	2440.100	103.99	-----	-----	90.20	13.79	Peak
3	2484.700	53.54	74.00	-20.46	39.47	14.07	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

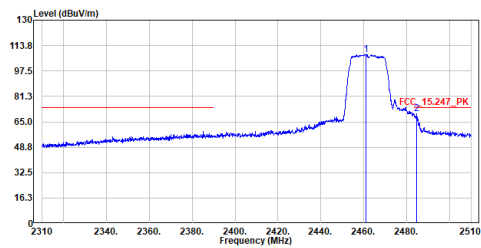
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_g_2437
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2389.800	41.58	54.00	-12.42	28.10	13.48	Average
2	2439.400	94.24	-----	-----	80.45	13.79	Average
3	2483.600	41.52	54.00	-12.48	27.45	14.07	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

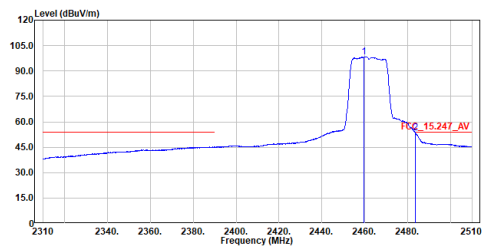
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_g_2462
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2461.100	108.11	65.00	-3.84	94.19	13.92	Peak
2	2484.800	70.16	74.00	-3.84	56.09	14.07	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

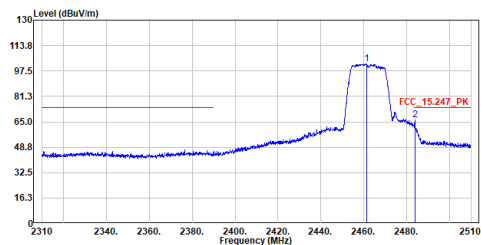
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_g_2462
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2459.600	98.30	60.00	-0.38	84.38	13.92	Average
2	2483.600	53.62	54.00	-0.38	39.55	14.07	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

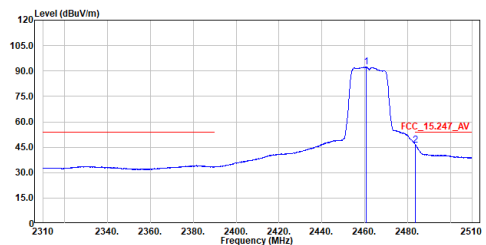
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_g_2462
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2461.300	102.14	65.00	-7.83	88.21	13.93	Peak
2	2483.800	66.17	74.00	-7.83	52.10	14.07	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

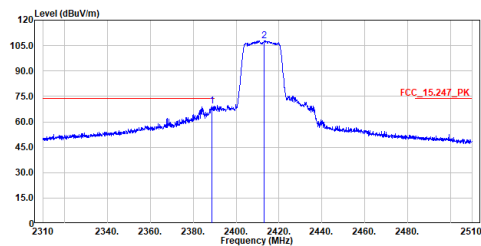
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_g_2462
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2460.800	92.33	60.00	-7.72	78.41	13.92	Average
2	2483.700	46.28	54.00	-7.72	32.21	14.07	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

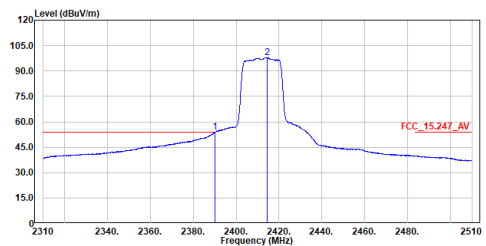
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_n20_2412
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2388.600	69.30	74.00	-4.70	55.82	13.48	Peak
2	2413.000	107.98	-----	-----	94.35	13.63	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

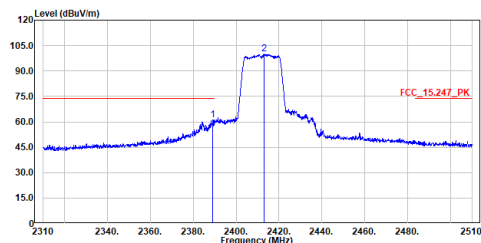
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_n20_2412
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2390.000	53.82	54.00	-0.18	40.34	13.48	Average
2	2414.400	98.03	-----	-----	84.39	13.64	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

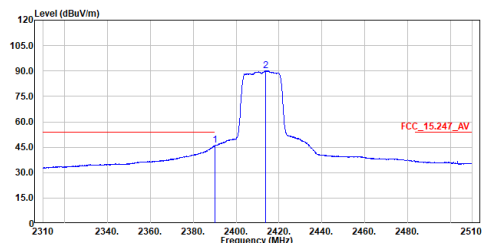
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_n20_2412
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2389.100	61.13	74.00	-12.87	47.65	13.48	Peak
2	2413.000	99.93	-----	-----	86.30	13.63	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

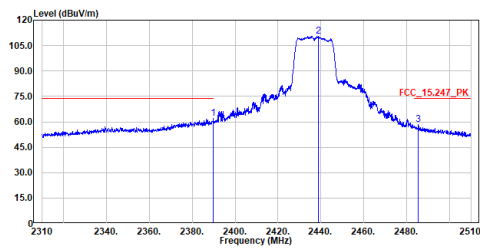
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_n20_2412
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2390.000	46.01	54.00	-7.99	32.53	13.48	Average
2	2413.600	90.00	-----	-----	76.37	13.63	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

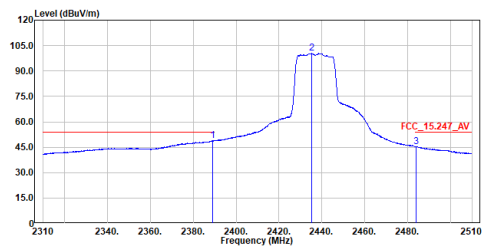
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_n20_2437
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2389.700	62.12	74.00	-11.88	48.64	13.48	Peak
2	2438.700	110.43	-----	-----	96.64	13.79	Peak
3	2485.300	58.25	74.00	-15.75	44.17	14.08	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

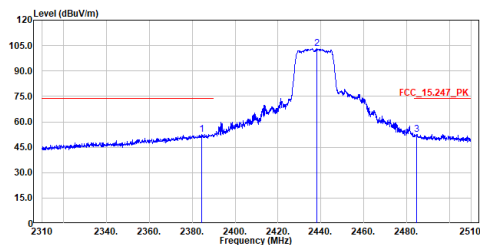
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_n20_2437
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2389.200	49.05	54.00	-4.95	35.57	13.48	Average
2	2435.200	100.43	-----	-----	86.66	13.77	Average
3	2484.100	45.37	54.00	-8.63	31.30	14.07	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

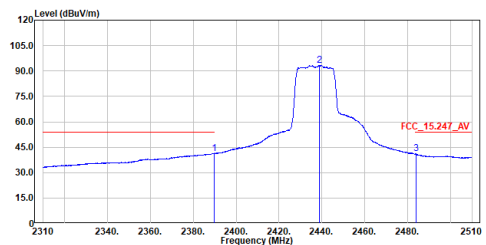
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_n20_2437
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2384.300	52.66	74.00	-21.34	39.21	13.45	Peak
2	2438.100	103.32	-----	-----	89.54	13.78	Peak
3	2484.500	52.72	74.00	-21.28	38.65	14.07	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

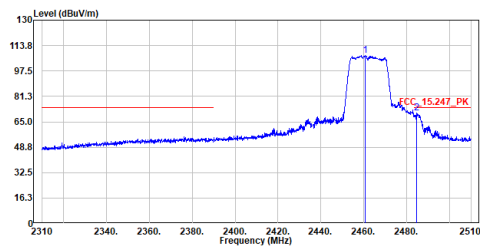
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_n20_2437
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	2389.900	41.42	54.00	-12.58	27.94	13.48	Average
2	2438.900	93.35	-----	-----	79.56	13.79	Average
3	2484.000	41.04	54.00	-12.96	26.97	14.07	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

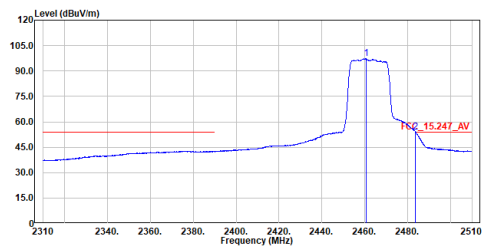
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_n20_2462
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2460.700	107.37	65.00	-3.16	93.45	13.92	Peak
2	2484.800	70.84	74.00	-3.16	56.77	14.07	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

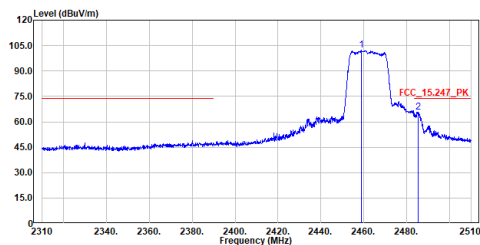
Site :HC-CB02
Condition :3m Horizontal
Mode :BE_TX_n20_2462
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2460.500	97.20	60.00	-0.09	83.28	13.92	Average
2	2483.700	53.91	54.00	-0.09	39.84	14.07	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

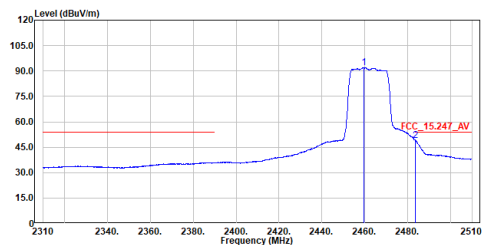
Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_n20_2462
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2458.800	102.12	75.00	-8.18	88.20	13.92	Peak
2	2485.300	65.82	74.00	-8.18	51.74	14.08	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :BE_TX_n20_2462
Test by :Ling

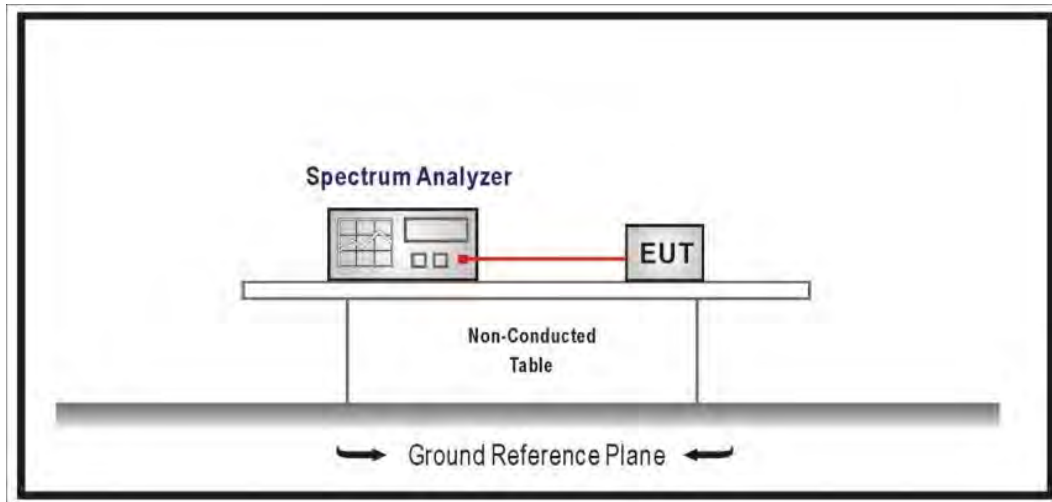


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	2459.500	92.08	60.00	-4.95	78.16	13.92	Average
2	2483.600	49.05	54.00	-4.95	34.98	14.07	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

7. Occupied Bandwidth & DTS Bandwidth

7.1. Test Setup



7.2. Test Limit

The 6 dB bandwidth: ≥ 0.50 MHz.

Occupied Bandwidth: NA

7.3. Test Procedures

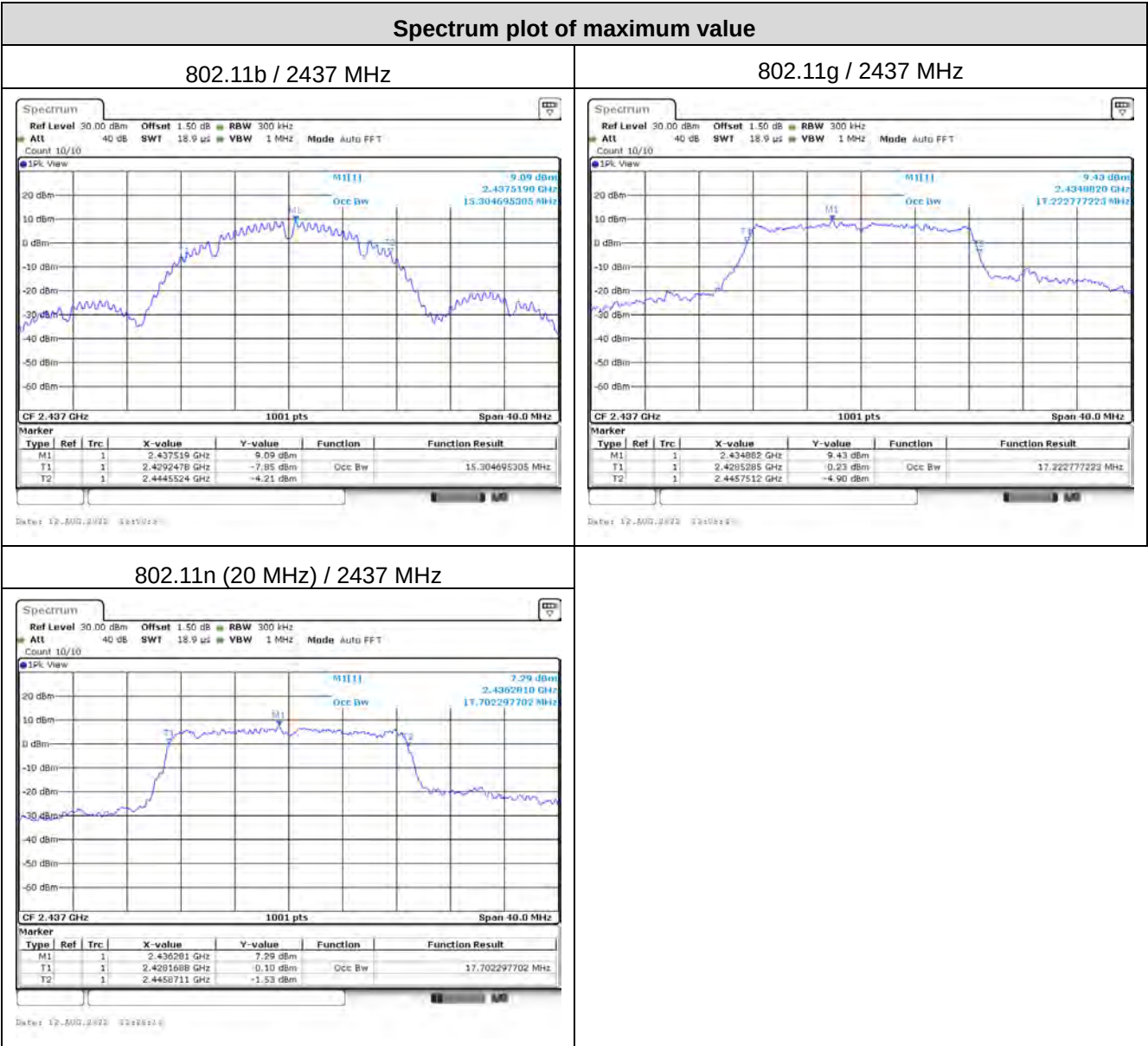
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074 D01 V05r02 for compliance to FCC 47CFR 15.247 requirements.

7.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

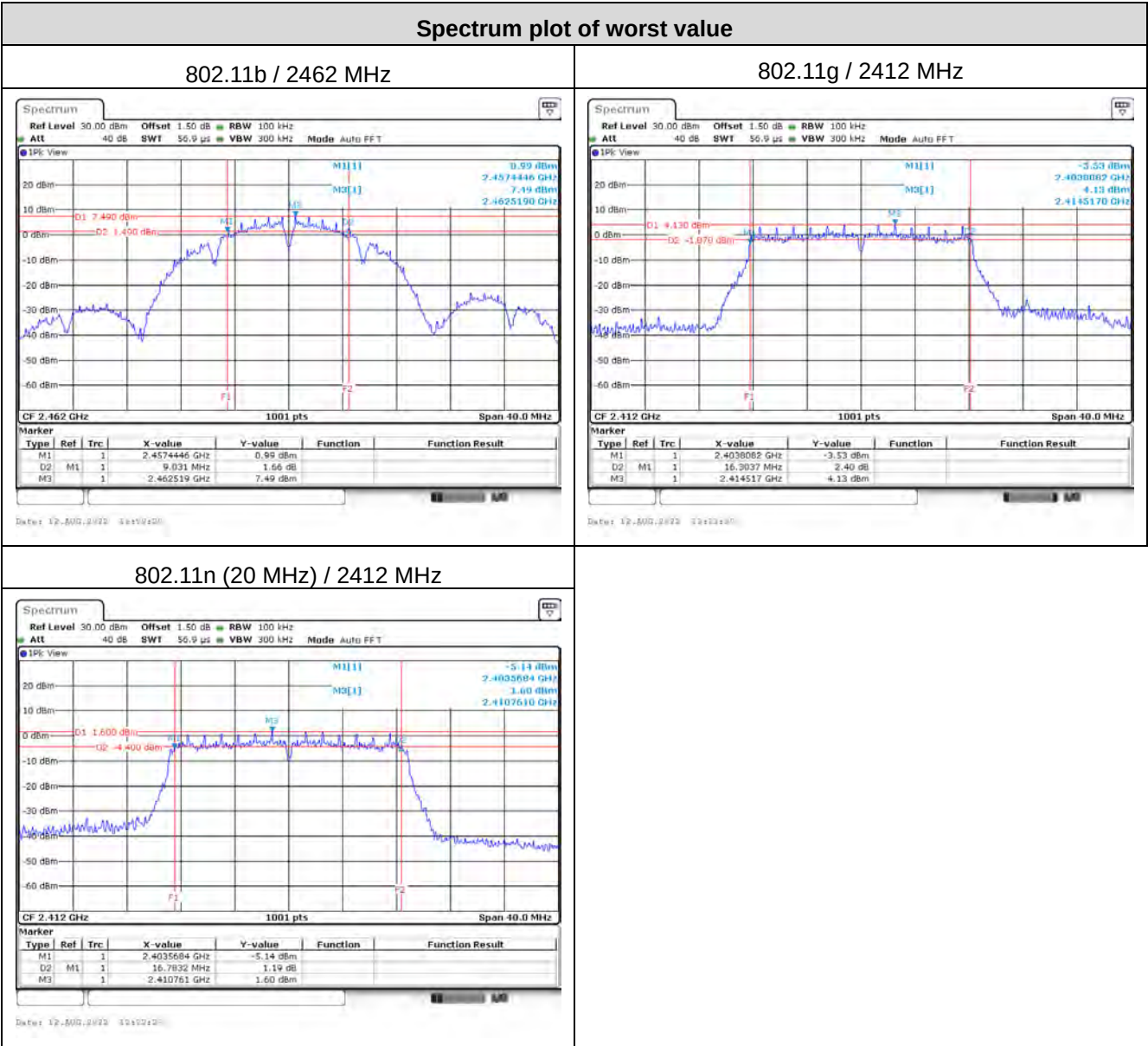
7.5. Test Result of Occupied Bandwidth

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (MHz)
802.11b	1	2412	15.144	-
	6	2437	15.304	-
	11	2462	15.224	-
802.11g	1	2412	16.823	-
	6	2437	17.222	-
	11	2462	16.863	-
802.11n (20 MHz)	1	2412	17.542	-
	6	2437	17.702	-
	11	2462	17.582	-



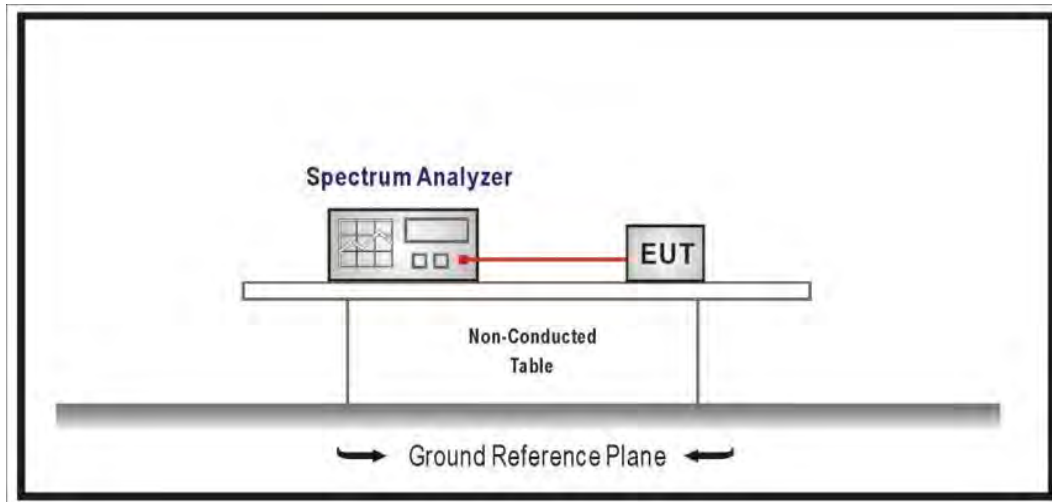
7.6. Test Result of DTS Bandwidth

Modulation	Channel	Frequency (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	Result
802.11b	1	2412	9.070	≥ 0.50	Pass
	6	2437	9.070	≥ 0.50	Pass
	11	2462	9.031	≥ 0.50	Pass
802.11g	1	2412	16.303	≥ 0.50	Pass
	6	2437	16.303	≥ 0.50	Pass
	11	2462	16.303	≥ 0.50	Pass
802.11n (20 MHz)	1	2412	16.783	≥ 0.50	Pass
	6	2437	16.863	≥ 0.50	Pass
	11	2462	17.142	≥ 0.50	Pass



8. Maximum Power Spectral Density

8.1. Test Setup



8.2. Test Limit

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8 dBm in any 3 kHz 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 KDB 558074 D01 V05r02 for compliance to FCC 47CFR 15.247 requirements.

8.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

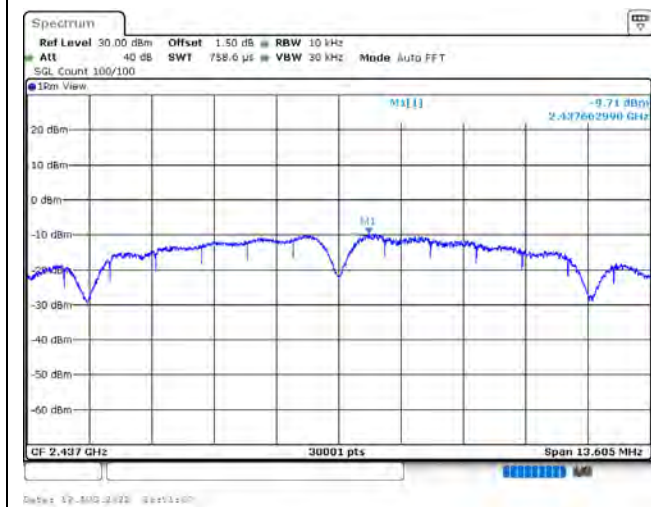
8.5. Test Result of Maximum Power Spectral Density

Modulation	Channel	Frequency (MHz)	Power Spectral Density (dBm / 3kHz)		Limit (dBm / 3kHz)	Result
			Ant. 0	Total		
802.11b	1	2412	-9.860	-9.652	≤ 8.00	Pass
	6	2437	-9.710	-9.502	≤ 8.00	Pass
	11	2462	-10.850	-10.642	≤ 8.00	Pass
802.11g	1	2412	-13.600	-13.131	≤ 8.00	Pass
	6	2437	-11.920	-11.451	≤ 8.00	Pass
	11	2462	-16.590	-16.121	≤ 8.00	Pass
802.11n (20 MHz)	1	2412	-16.910	-16.518	≤ 8.00	Pass
	6	2437	-13.480	-13.088	≤ 8.00	Pass
	11	2462	-16.070	-15.678	≤ 8.00	Pass

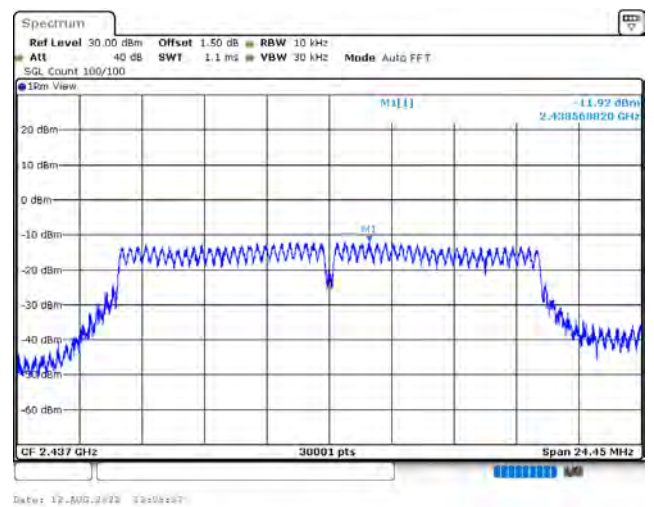
Note: Total power spectral density = power spectral density + duty factor, and the duty factor refer to section 1.10.

Spectrum plot of worst value

802.11b / 2437 MHz



802.11g / 2437 MHz



802.11n (20 MHz) / 2437 MHz

