

Test Report No:
22B1055R-RFUIWL2V01-A

TEST REPORT

FCC / ISED Rules&Regulations

Product Name	T-Band
Brand Name	Talitrix
Model No.	TBQC4100OV1
PMN	T-Band
FCC ID	2AOHHTBAND
IC	23465-TBAND
Applicant's Name / Address	Thundercomm Technology Co., Ltd No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122
Manufacturer's Name / Address	Thundercomm Technology Co., Ltd No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart C Section 15.247 RSS-247 Issue 2 (Feb. 2017) RSS-Gen Issue 5 (Feb. 2021) ANSI C63.10-2013
Verdict Summary	IN COMPLIANCE
Documented By	<i>Amelia Wu</i> Amelia Wu / Project Specialist
Approved By	<i>Rueyyan Lin</i> Rueyyan Lin / Supervisor
Date of Receipt	Nov. 30, 2022
Date of Issue	Jun. 19, 2023
Report Version	V1.0

INDEX

	page
Competences and Guarantees.....	4
General Conditions	4
Revision History	5
1. General Information.....	6
1.1. EUT Description	6
1.2. Test Mode	7
1.3. Comments and Remarks	8
1.4. Tested System Details	9
1.5. Configuration of Tested System	9
1.6. EUT Operation of during Test.....	10
1.7. Test Facility.....	11
1.8. List of Test Equipment	12
1.9. Measurement Uncertainty	13
1.10. Duty Cycle	14
2. AC Power Line Conducted Emission	15
2.1. Test Setup	15
2.2. Test Limit	15
2.3. Test Procedure	15
2.4. Test Specification	15
2.5. Test Result of AC Power Line Conducted Emission	16
3. Maximum Conducted Output Power	20
3.1. Test Setup	20
3.2. Test Limit	20
3.3. Test Procedures	20
3.4. Test Specification	20
3.5. Test Result of Maximum Conducted Output Power	21
4. Radiated Emission	22
4.1. Test Setup	22
4.2. Test Limit	23
4.3. Test Procedure	24
4.4. Test Specification	24
4.5. Test Result of Radiated Emissions (30 MHz ~ 1 GHz)	25
4.6. Test Result of Radiated Emissions (1 GHz ~ 10 th Harmonic)	27
5. Antenna Port Conducted Emission	33
5.1. Test Setup	33
5.2. Test Limit	33

5.3.	Test Procedure	34
5.4.	Test Specification	34
5.5.	Test Result of Antenna Port Conducted Emission	35
6.	Radiated Emission Band Edge	41
6.1.	Test Setup	41
6.2.	Test Limit	42
6.3.	Test Procedure	43
6.4.	Test Specification	43
6.5.	Test Result of Radiated Emission Band Edge	44
7.	Occupied Bandwidth & DTS Bandwidth	56
7.1.	Test Setup	56
7.2.	Test Limit	56
7.3.	Test Procedures	56
7.4.	Test Specification	56
7.5.	Test Result of Occupied Bandwidth	57
7.6.	Test Result of DTS Bandwidth	59
8.	Maximum Power Spectral Density	61
8.1.	Test Setup	61
8.2.	Test Limit	61
8.3.	Test Procedures	61
8.4.	Test Specification	61
8.5.	Test Result of Maximum Power Spectral Density	62
Appendix A.....		64
☐	Test Result of Radiated Emissions Co-location	64
Appendix B		65
☐	Test Setup Photograph.....	65

Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. 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.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Jun. 19, 2023

1. General Information

1.1. EUT Description

Product Name	T-Band	
Brand Name	Talitrix	
Model No.	TBQC4100OV1	
PMN	T-Band	
EUT Voltage	DC 5V (host equipment) DC 3.85V for battery	
Frequency Range / Channel Number	IEEE 802.11b/g	2412 ~ 2462 MHz / 11 Channels
	IEEE 802.11n (20 MHz)	2412 ~ 2462 MHz / 11 Channels
	IEEE 802.11n (40 MHz)	2422 ~ 2452 MHz / 7 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

Antenna Information				
Ant.	Brand Name	Model No.	Type	Antenna Gain (dBi)
0	WTT	ANT-1	PIFA	-0.08

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	-	-

IEEE 802.11n (40 MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 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 – power by host equipment Mode 2: Transmit – power by charging
-----------	--

Test Items	Test Mode	Modulation	Channel	Antenna	Result
AC Power Line Conducted Emission	Mode 1, Mode 2	11n (40 MHz)	9	0	Pass
Maximum Conducted Output Power	Mode 1	11b	1/6/11	0	Pass
		11g	1/6/11	0	Pass
		11n (20 MHz)	1/6/11	0	Pass
		11n (40 MHz)	3/6/9	0	Pass
Radiated Emission Below 1 GHz	Mode 1, Mode 2	11n (40 MHz)	9	0	Pass
Radiated Emission Above 1 GHz	Mode 1	11b	1/6/11	0	Pass
		11g	1/6/11	0	Pass
		11n (20 MHz)	1/6/11	0	Pass
		11n (40 MHz)	3/6/9	0	Pass
Antenna Port Conducted Emission	Mode 1	11b	1/6/11	0	Pass
		11g	1/6/11	0	Pass
		11n (20 MHz)	1/6/11	0	Pass
		11n (40 MHz)	3/6/9	0	Pass
Radiated Emission Band Edge	Mode 1	11b	1/6/11	0	Pass
		11g	1/6/11	0	Pass
		11n (20 MHz)	1/6/11	0	Pass
		11n (40 MHz)	3/6/9	0	Pass
Occupied Bandwidth & DTS Bandwidth	Mode 1	11b	1/6/11	0	Pass
		11g	1/6/11	0	Pass
		11n (20 MHz)	1/6/11	0	Pass
		11n (40 MHz)	3/6/9	0	Pass
Maximum Power Spectral Density	Mode 1	11b	1/6/11	0	Pass
		11g	1/6/11	0	Pass
		11n (20 MHz)	1/6/11	0	Pass
		11n (40 MHz)	3/6/9	0	Pass

Note:

- Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- The worst case of data rate for 802.11b is 1 Mbps, for 802.11g is 6 Mbps, for 802.11n (20 MHz)/802.11n (40 MHz) are 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.
5. The EUT could be applied with WWAN LTE Cat-M1 and WiFi 2.4 GHz function, Radiated Emission Co-location (Please refer to Appendix A) test is added for simultaneously transmit between WWAN LTE Cat-M1 and WiFi 2.4 GHz function.
6. The EUT contains one WWAN module (brand name: Quectel, model: EM9191, FCC ID: XMR201912BG77).

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, plus descriptions of all cables used in the tested system.

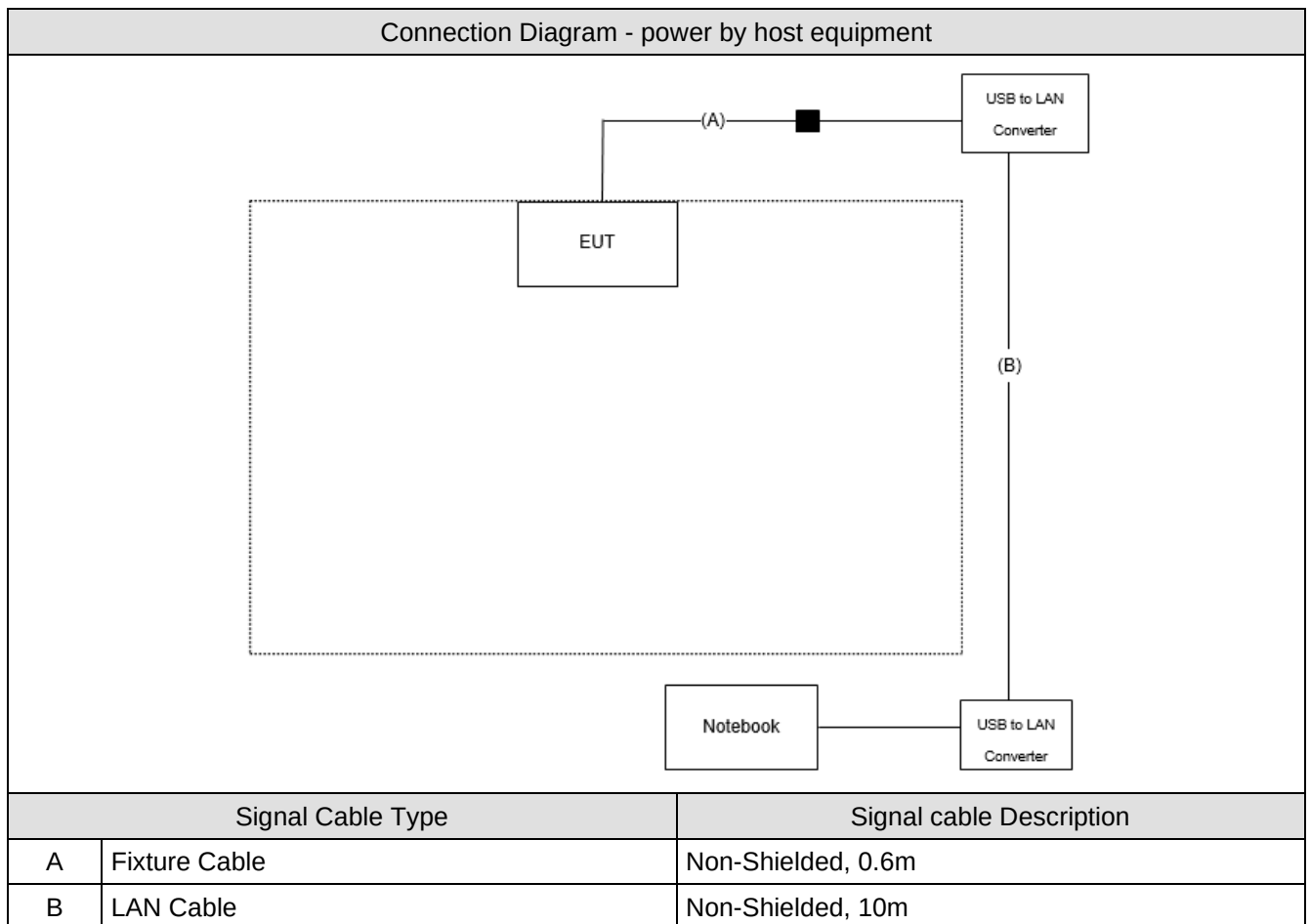
<power by host equipment>

	Product	Manufacturer	Model No.	Serial No.
1	Notebook	Lenove	80XL	PF0SXXY1
2	USB to LAN Converter	DEKRA	A29	N/A

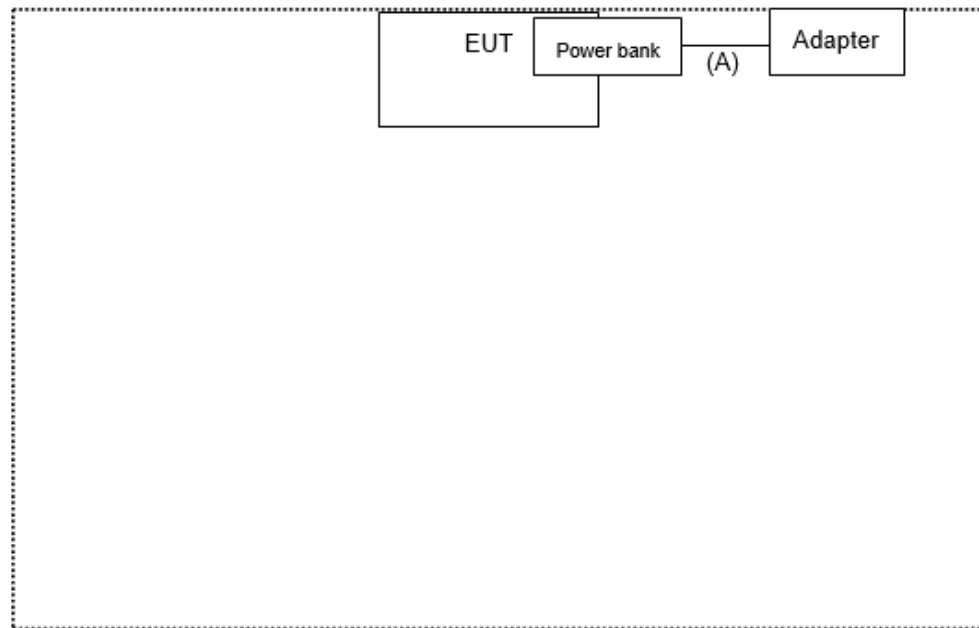
<power by charging>

	Product	Manufacturer	Model No.	Serial No.
1	Power bank	Shenzhen Cholipower Technology Co.,LTD	CLP802	N/A
2	Adapter	DONGGUAN SHELL ELECTRONIC LIMITED	S-TR-153B	N/A

1.5. Configuration of Tested System



Connection Diagram - power by charging



Signal Cable Type		Signal cable Description
A	USB Cable	Shielded, 1.5m

1.6. EUT Operation of during Test

1	Execute control command by software "QRCT v4.0.00204.0".
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	23	Ling Chen	2023/04/10	HC-SR02
Humidity (%RH)		59			
Temperature (°C)	Maximum Conducted Output Power	20	Clemens Fang	2022/12/20	HC-SR12
Humidity (%RH)		67			
Temperature (°C)	Radiated Emission	22.8 ~ 24.4	Ling Chen	2023/03/28 2023/04/06	HC-CB02
Humidity (%RH)		61 ~ 62			
Temperature (°C)	Antenna Port Conducted Emission	20	Clemens Fang	2022/12/20	HC-SR12
Humidity (%RH)		67			
Temperature (°C)	Radiated Emission Band Edge	21.6	Ling Chen	2023/03/27	HC-CB02
Humidity (%RH)		61			
Temperature (°C)	Occupied Bandwidth & DTS Bandwidth	20	Clemens Fang	2022/12/20	HC-SR12
Humidity (%RH)		67			
Temperature (°C)	Maximum Power Spectral Density	20	Clemens Fang	2022/12/20	HC-SR12
Humidity (%RH)		67			

Note: Test site information refers to Laboratory Information.

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, HC-SR10 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	2022/12/19	2023/12/18
EMI Test Receiver	R&S	ESR3	102608	2022/09/28	2023/09/27
Two-Line V-Network	R&S	ENV216	100096	2022/05/17	2023/05/16
Coaxial Cable(9 m)	Harbour	RG-400	HC-SR02	2022/08/15	2023/08/14
EMI Testing System	AUDIX	e3 210616 dekra V9	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	2022/11/02	2023/11/01
Pulse Power Sensor	Anritsu	MA2411B	1531043	2022/11/02	2023/11/01
Pulse Power Sensor	Anritsu	MA2411B	1531044	2022/11/02	2023/11/01
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 and Spectrum Analyzer	R&S	FSVA40	101435	2022/05/30	2023/05/29
Signal Analyzer	R&S	FSVA40	101455	2022/09/29	2023/09/28
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2022/12/13	2023/12/12
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
Double Ridged Horn Antenna	RF SPIN	DRH18-E	211211A18EN	2022/11/15	2023/11/14
Horn Antenna	Schwarzbeck	BBHA 9170	203	2023/02/13	2024/02/12
Pre-Amplifier	EMCI	EMC01820I	980365	2023/04/07	2024/04/06
Pre-Amplifier	EMEC	EM01G18GA	060741	2022/05/06	2023/05/05
Pre-Amplifier	DEKRA	AP-400C	201801231	2022/09/27	2023/09/26
EMI Test Receiver	R&S	ESR7	102260	2022/12/01	2023/11/30
Magnetic Loop Antenna	Teseq	HLA 6121	44287	2022/10/21	2023/10/20
Coaxial Cable(13m)	Suhner	SF104	HC-CB02	2022/08/15	2023/08/14
Coaxial Cable(3m)	Suhner,Rosnol	SF102_UP026 4	HC-CB02_1	2022/08/14	2023/08/13
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

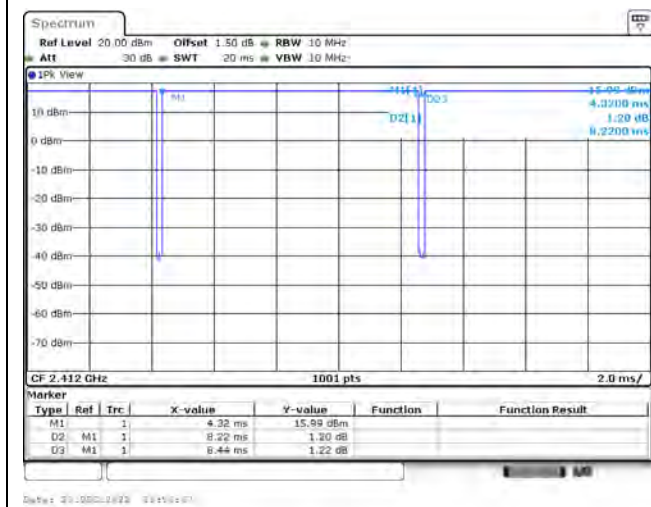
Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test Item	Uncertainty
AC Power Line Conducted Emission	± 2.34 dB
Maximum Conducted Output Power	± 1.16 dB
Radiated Emission	± 3.52 dB below 1 GHz ± 3.56 dB above 1 GHz
Antenna Port Conducted Emission	± 2.47 dB
Radiated Emission Band Edge	± 3.56 dB
DTS Bandwidth	± 282.55 Hz
Occupied Bandwidth	± 282.55 Hz
Maximum Power Spectral Density	± 2.47 dB

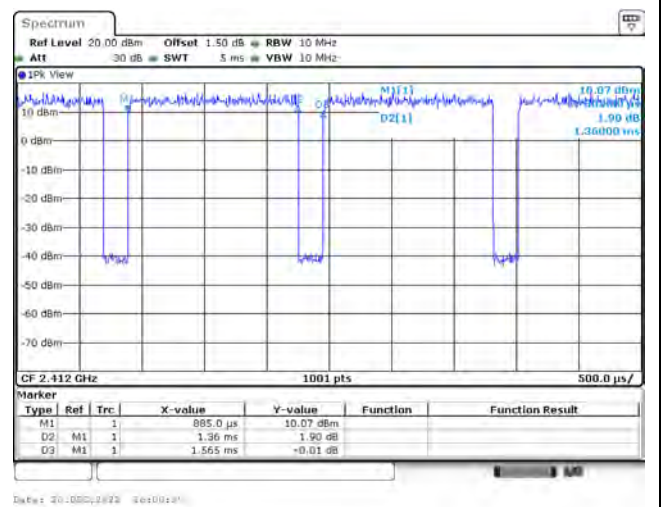
1.10. Duty Cycle

Modulation	On Times (ms)	On+Off Times (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11b	8.220	8.440	97.39	0.115	0.122
802.11g	1.360	1.565	86.90	0.610	0.735
802.11n (20 MHz)	1.270	1.475	86.10	0.650	0.787
802.11n (40 MHz)	0.630	0.835	75.45	1.223	1.587

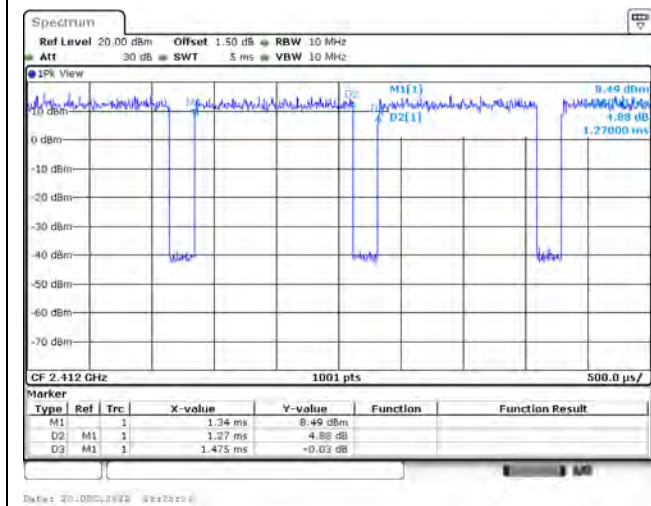
802.11b



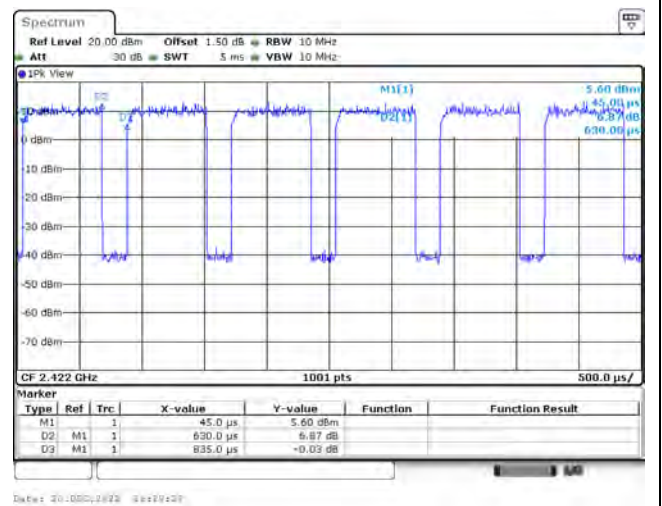
802.11g



802.11n (20 MHz)

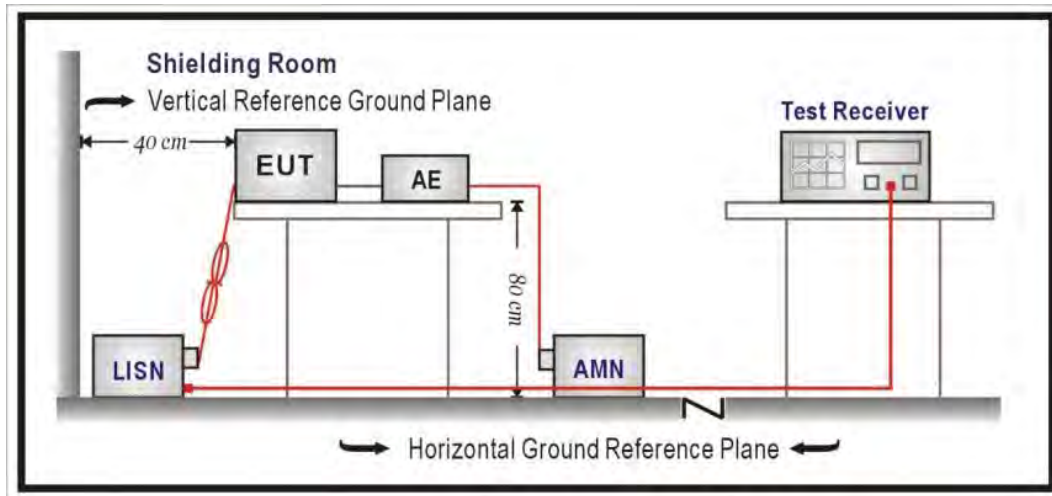


802.11n (40 MHz)



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.

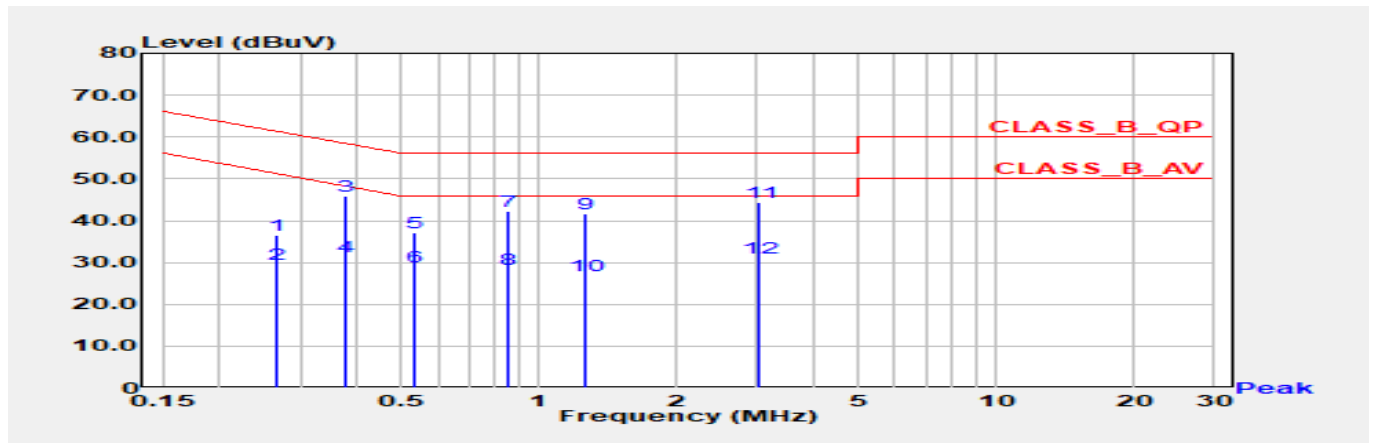
AC Power Line Conducted Emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

2.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247 / IC RSS-Gen Issue 5.

2.5. Test Result of AC Power Line Conducted Emission

Test Mode	Mode 1: Transmit – power by host equipment	Phase	Line
Test Condition	802.11n (40 MHz) / 2452 MHz		

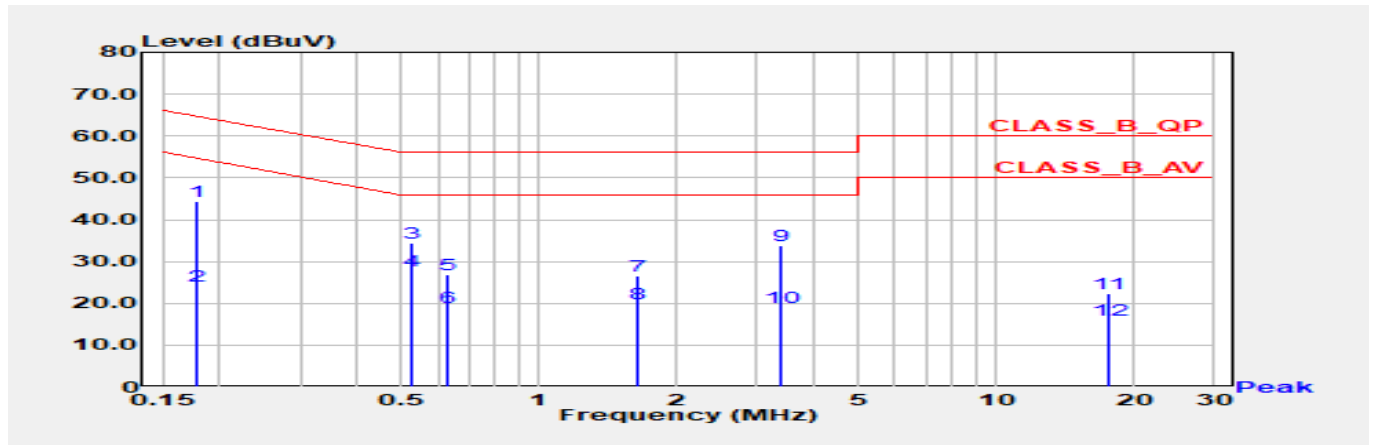


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.267	36.52	61.21	-24.70	26.89	9.62	QP
2	0.267	29.62	51.21	-21.59	19.99	9.62	AV
3	0.375	46.01	58.39	-12.38	36.37	9.64	QP
4	0.375	31.47	48.39	-16.92	21.83	9.64	AV
5	0.532	37.02	56.00	-18.98	27.36	9.65	QP
6	0.532	28.90	46.00	-17.10	19.24	9.65	AV
7	0.852	42.41	56.00	-13.59	32.73	9.69	QP
8	0.852	28.35	46.00	-17.65	18.66	9.69	AV
9	1.266	41.52	56.00	-14.48	31.81	9.71	QP
10	1.266	26.99	46.00	-19.01	17.28	9.71	AV
*11	3.032	44.46	56.00	-11.54	34.66	9.80	QP
12	3.032	31.22	46.00	-14.78	21.42	9.80	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 1: Transmit – power by host equipment	Phase	Neutral
Test Condition	802.11n (40 MHz) / 2452 MHz		

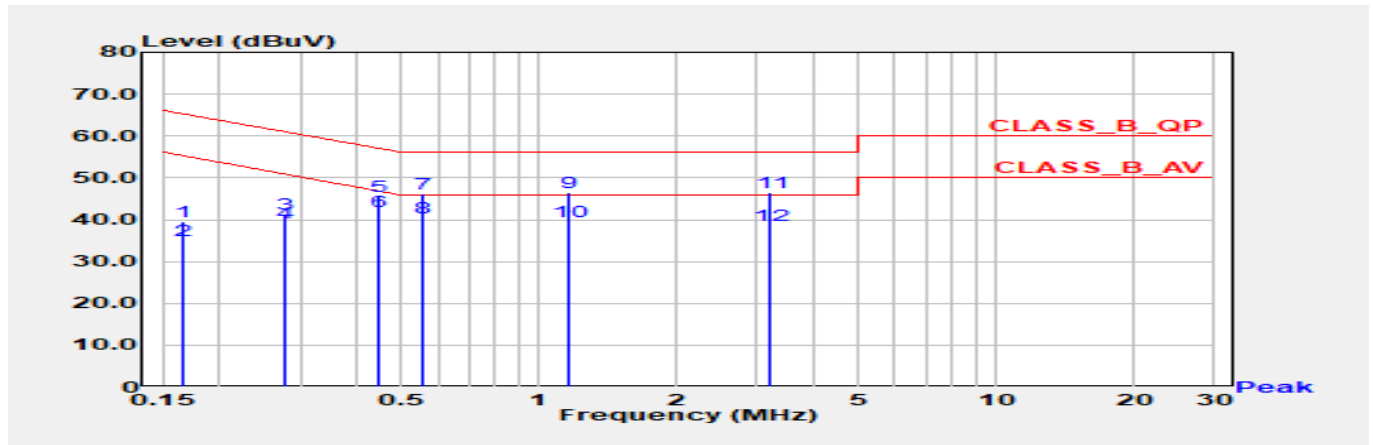


No	Frequency (MHz)	Emission Level (dBUV)	Limit (dBUV)	Margin (dB)	Reading Level (dBUV)	Correct Factor (dB)	Detector Type
1	0.177	44.51	64.63	-20.12	34.89	9.62	QP
2	0.177	24.01	54.63	-30.61	14.39	9.62	AV
3	0.526	34.31	56.00	-21.69	24.67	9.65	QP
*4	0.526	27.89	46.00	-18.11	18.24	9.65	AV
5	0.631	26.98	56.00	-29.02	17.32	9.66	QP
6	0.631	19.08	46.00	-26.92	9.43	9.66	AV
7	1.633	26.62	56.00	-29.38	16.88	9.73	QP
8	1.633	20.00	46.00	-26.00	10.27	9.73	AV
9	3.361	33.79	56.00	-22.21	23.97	9.82	QP
10	3.361	19.08	46.00	-26.92	9.26	9.82	AV
11	17.556	22.48	60.00	-37.52	12.04	10.44	QP
12	17.556	16.09	50.00	-33.91	5.65	10.44	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 2: Transmit – power by charging	Phase	Line
Test Condition	802.11n (40 MHz) / 2452 MHz		

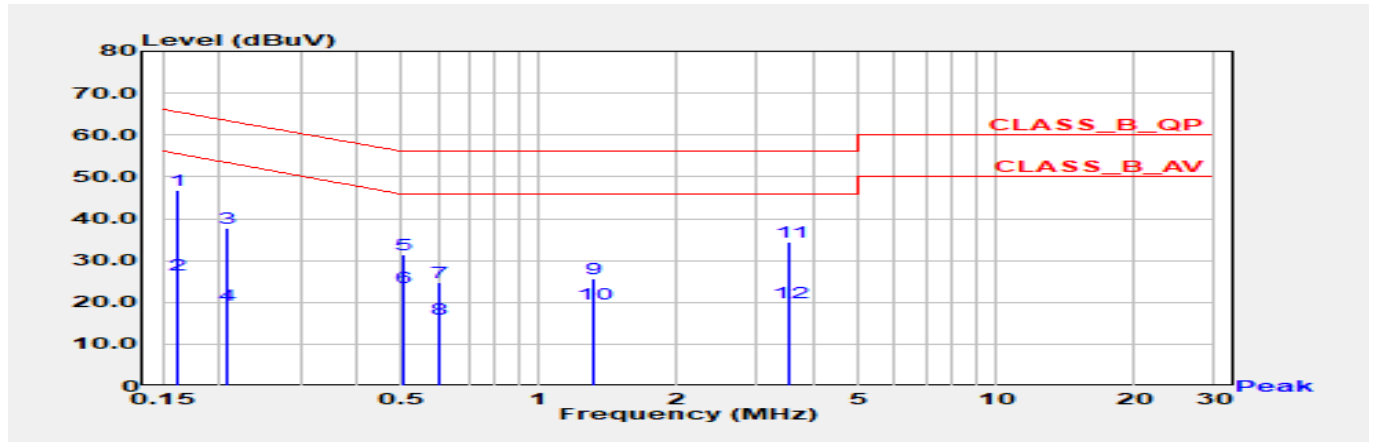


No	Frequency (MHz)	Emission Level (dBUV)	Limit (dBUV)	Margin (dB)	Reading Level (dBUV)	Correct Factor (dB)	Detector Type
1	0.166	39.42	65.17	-25.76	29.80	9.62	QP
2	0.166	35.15	55.17	-20.02	25.54	9.62	AV
3	0.276	41.43	60.94	-19.51	31.80	9.62	QP
4	0.276	39.15	50.94	-11.79	29.52	9.62	AV
5	0.442	45.44	57.01	-11.57	35.80	9.65	QP
*6	0.442	42.09	47.01	-4.92	32.45	9.65	AV
7	0.553	46.32	56.00	-9.68	36.67	9.66	QP
8	0.553	40.43	46.00	-5.57	30.77	9.66	AV
9	1.160	46.57	56.00	-9.43	36.86	9.71	QP
10	1.160	39.48	46.00	-6.52	29.77	9.71	AV
11	3.203	46.58	56.00	-9.42	36.77	9.81	QP
12	3.203	38.51	46.00	-7.49	28.71	9.81	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 2: Transmit – power by charging	Phase	Neutral
Test Condition	802.11n (40 MHz) / 2452 MHz		



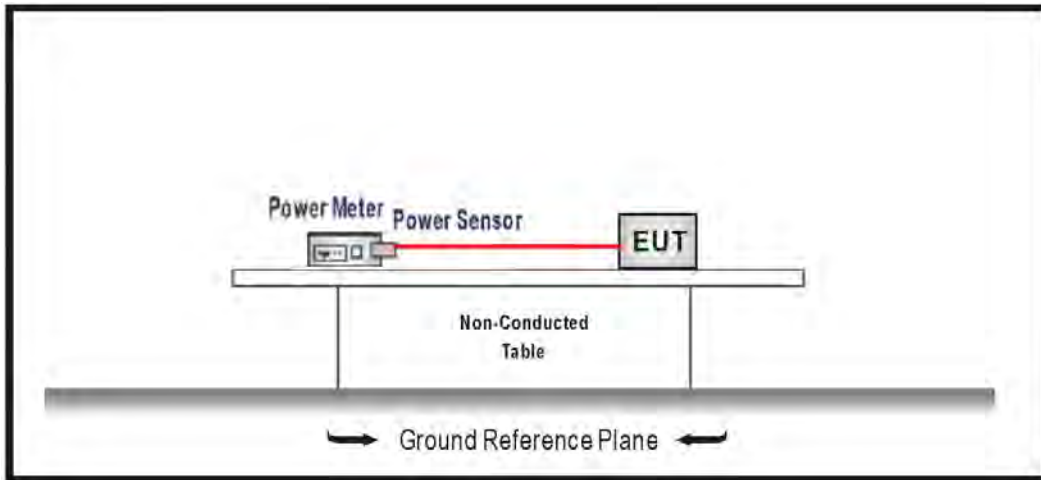
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.161	46.77	65.40	-18.62	37.16	9.62	QP
2	0.161	26.55	55.40	-28.85	16.93	9.62	AV
3	0.206	37.76	63.36	-25.60	28.14	9.61	QP
4	0.206	19.46	53.36	-33.90	9.84	9.61	AV
5	0.505	31.28	56.00	-24.72	21.63	9.64	QP
6	0.505	23.65	46.00	-22.35	14.01	9.64	AV
7	0.607	24.80	56.00	-31.20	15.14	9.66	QP
8	0.607	16.09	46.00	-29.91	6.44	9.66	AV
9	1.318	25.73	56.00	-30.27	16.02	9.72	QP
10	1.318	19.55	46.00	-26.45	9.84	9.72	AV
11	3.534	34.30	56.00	-21.70	24.47	9.83	QP
12	3.534	19.85	46.00	-26.15	10.02	9.83	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

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 / RSS-247 issue 2 requirements.

3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247 / IC RSS-247 Issue 2.

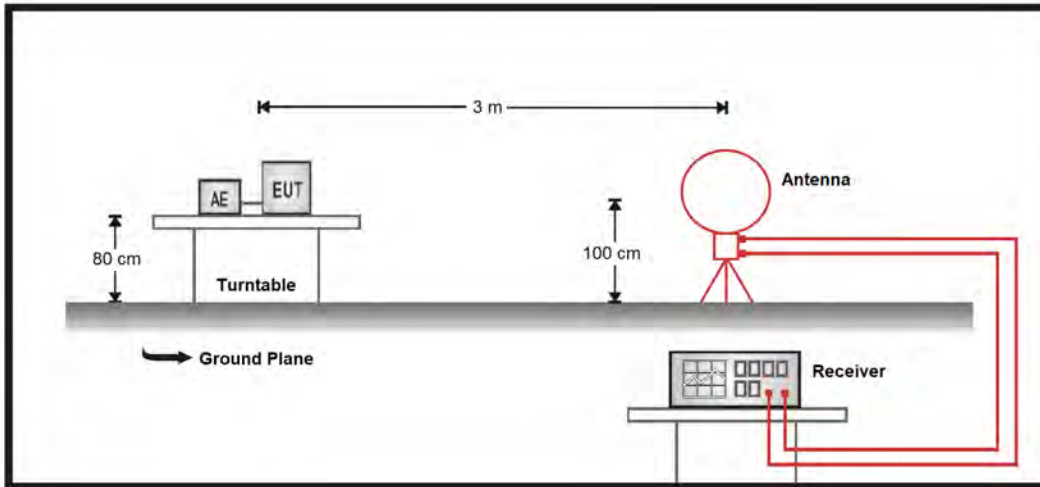
3.5. Test Result of Maximum Conducted Output Power

Modulation	Channel	Frequency (MHz)	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
802.11b	1	2412	14.89	≤ 30.00	Pass
	6	2437	14.88	≤ 30.00	Pass
	11	2462	14.93	≤ 30.00	Pass
802.11g	1	2412	9.82	≤ 30.00	Pass
	6	2437	9.97	≤ 30.00	Pass
	11	2462	9.94	≤ 30.00	Pass
802.11n (20 MHz)	1	2412	7.96	≤ 30.00	Pass
	6	2437	7.87	≤ 30.00	Pass
	11	2462	7.79	≤ 30.00	Pass
802.11n (40 MHz)	3	2422	7.69	≤ 30.00	Pass
	6	2437	7.79	≤ 30.00	Pass
	9	2452	7.73	≤ 30.00	Pass

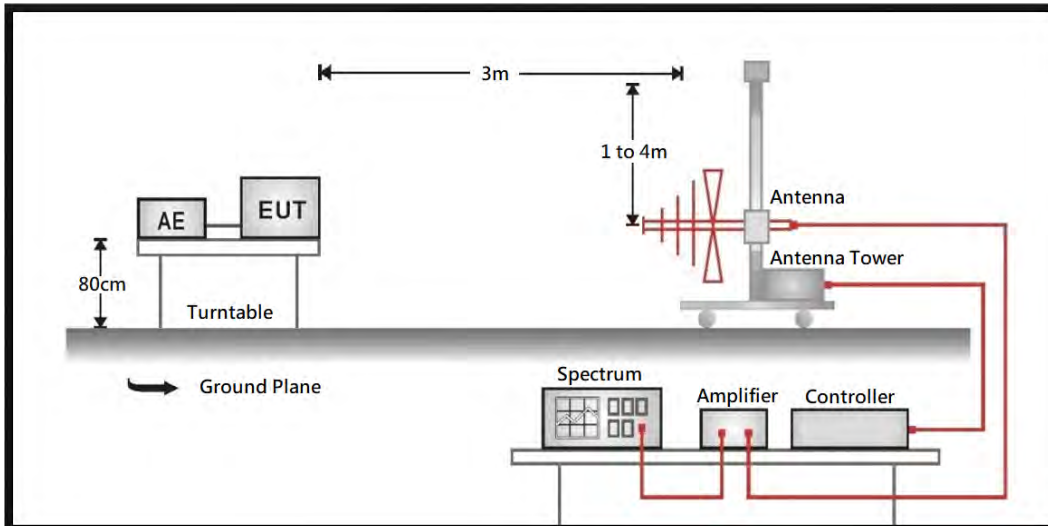
4. Radiated Emission

4.1. Test Setup

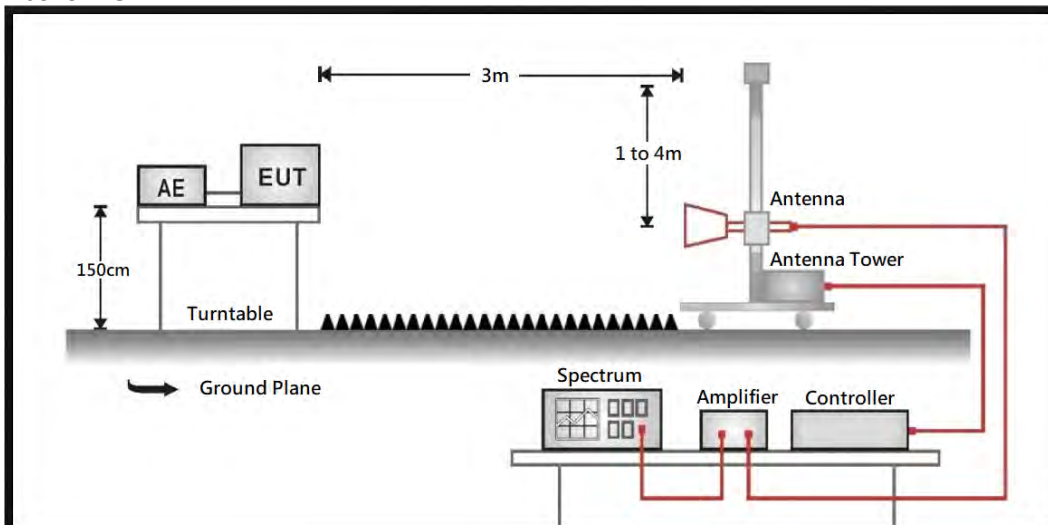
9 kHz ~ 30 MHz



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 / RSS-Gen Issue 5 Section 8.9, 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

For FCC:

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.

For ISSED:

The EUT and its simulators are placed on a turn table which is 0.8(under 1 GHz) or 1.5(above 1 GHz) 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.

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.

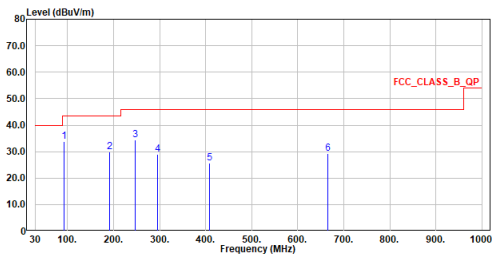
4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247 / IC RSS-247 Issue 2.

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

Mode 1: Transmit – power by host equipment

Site :HC-CB02
Condition :3m Horizontal
Mode :LF_n40_TX_2452MHz
Test by :Ling

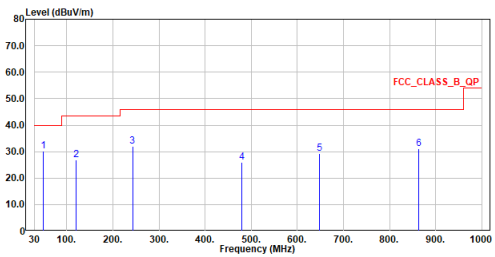


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	92.468	33.00	43.50	-9.70	42.02	-8.22	QP
2	190.535	29.99	43.50	-13.51	35.21	-5.22	QP
3	246.310	34.33	46.00	-11.67	38.09	-3.76	QP
4	295.683	29.08	46.00	-16.92	30.98	-1.90	QP
5	408.009	25.70	46.00	-20.30	24.67	1.03	QP
6	665.835	29.38	46.00	-16.62	22.48	6.90	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_n40_TX_2452MHz
Test by :Ling



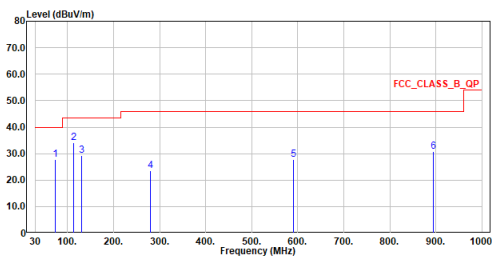
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	48.139	30.11	40.00	-9.89	32.04	-1.93	QP
2	119.919	26.98	43.50	-16.52	31.71	-4.73	QP
3	242.430	32.06	46.00	-13.94	35.96	-3.90	QP
4	480.080	26.09	46.00	-19.91	23.13	2.96	QP
5	647.987	29.30	46.00	-16.70	22.57	6.73	QP
6	863.618	31.21	46.00	-14.79	21.37	9.84	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.

Mode 2: Transmit – power by charging

Site :HC-CB02
Condition :3m Horizontal
Mode :LF_n40_TX_2452MHz
Test by :Ling

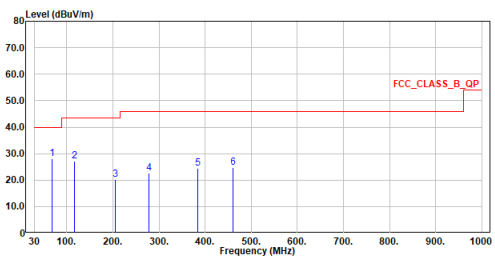


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	72.389	27.67	40.00	-12.33	32.37	-4.70	QP
2	113.517	34.11	43.50	-9.39	39.45	-5.34	QP
3	130.735	29.30	43.50	-14.20	33.14	-3.84	QP
4	279.436	23.41	46.00	-22.59	25.75	-2.34	QP
5	590.030	27.71	46.00	-18.29	22.43	5.28	QP
6	894.901	30.85	46.00	-15.15	21.17	9.68	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_n40_TX_2452MHz
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	68.655	28.10	40.00	-11.90	31.90	-3.80	QP
2	116.476	27.21	43.50	-16.29	32.35	-5.14	QP
3	204.988	20.23	43.50	-23.27	26.33	-6.10	QP
4	277.884	22.76	46.00	-23.24	25.21	-2.45	QP
5	384.002	24.46	46.00	-21.54	24.23	0.23	QP
6	460.826	24.76	46.00	-21.24	22.31	2.45	QP

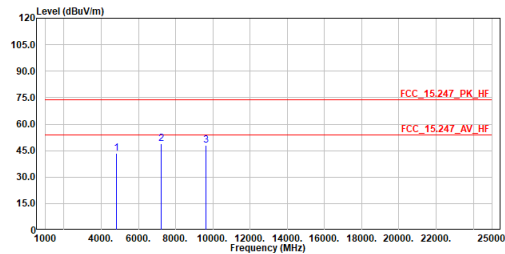
Note:

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)

Mode 1: Transmit – power by host equipment

Site :HC-CB02
Condition :3m Horizontal
Mode :b_TX_2412MHz
Test by :Ling

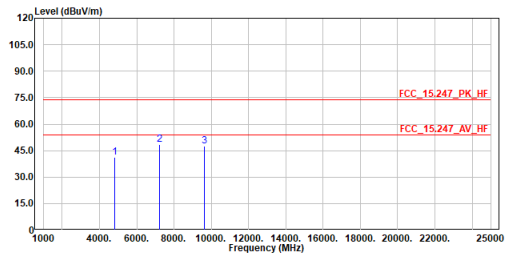


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4824.000	43.69	74.00	-30.31	56.35	-12.66	Peak
2	7236.000	48.96	74.00	-25.04	54.79	-5.83	Peak
3	9648.000	47.87	74.00	-26.13	51.08	-3.21	Peak

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 :b_TX_2412MHz
Test by :Ling

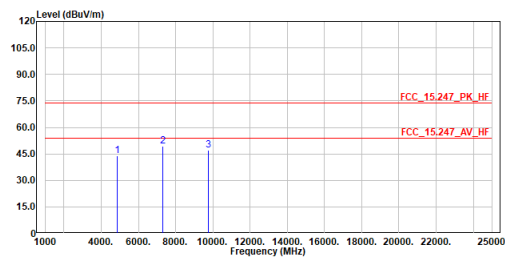


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4824.000	41.39	74.00	-32.61	54.05	-12.66	Peak
2	7236.000	48.32	74.00	-25.68	54.15	-5.83	Peak
3	9648.000	47.37	74.00	-26.63	50.58	-3.21	Peak

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 :b_TX_2437MHz
Test by :Ling

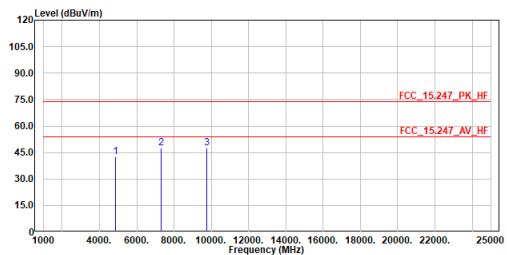


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4874.000	43.85	74.00	-30.15	56.28	-12.43	Peak
2	7311.000	49.15	74.00	-24.85	54.90	-5.75	Peak
3	9748.000	47.11	74.00	-26.89	50.11	-3.00	Peak

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 :b_TX_2437MHz
Test by :Ling

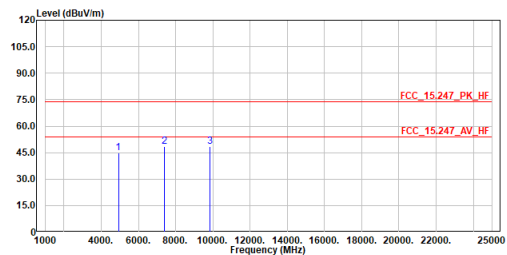


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4874.000	42.68	74.00	-31.32	55.11	-12.43	Peak
2	7311.000	47.70	74.00	-26.30	53.45	-5.75	Peak
3	9748.000	47.67	74.00	-26.33	50.67	-3.00	Peak

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 :b_TX_2462MHz
Test by :Ling

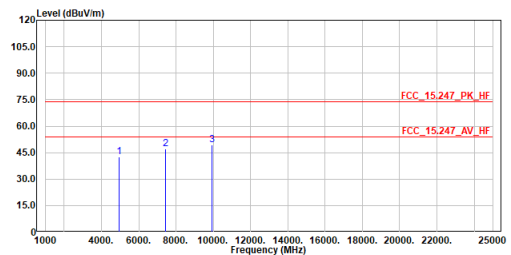


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4924.000	44.90	74.00	-29.10	57.10	-12.20	Peak
2	7385.000	48.33	74.00	-25.67	54.00	-5.67	Peak
3	9848.000	48.40	74.00	-25.60	51.18	-2.78	Peak

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 :b_TX_2480MHz
Test by :Ling

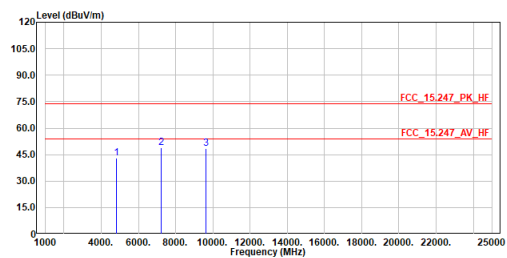


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4960.000	42.72	74.00	-31.28	54.75	-12.03	Peak
2	7440.000	47.26	74.00	-26.74	52.89	-5.63	Peak
3	9920.000	49.21	74.00	-24.79	51.83	-2.62	Peak

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 :g_TX_2412MHz
Test by :Ling

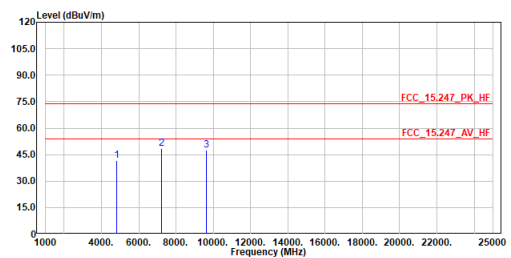


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4824.000	43.07	74.00	-30.93	55.73	-12.66	Peak
2	7236.000	48.75	74.00	-25.25	54.58	-5.83	Peak
3	9648.000	48.24	74.00	-25.76	51.45	-3.21	Peak

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 :g_TX_2412MHz
Test by :Ling

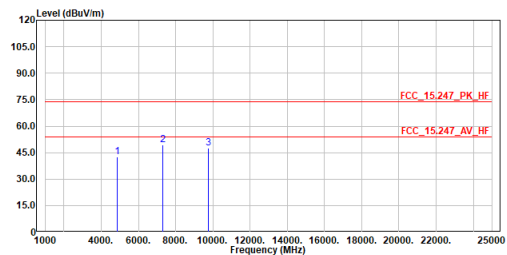


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4824.000	41.50	74.00	-32.50	54.16	-12.66	Peak
2	7236.000	48.48	74.00	-25.52	54.31	-5.83	Peak
3	9648.000	47.62	74.00	-26.38	50.83	-3.21	Peak

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 :g_TX_2437MHz
Test by :Ling

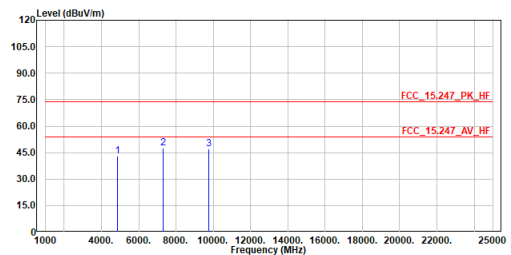


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4874.000	42.47	74.00	-31.53	54.90	-12.43	Peak
2	7311.000	49.21	74.00	-24.79	54.96	-5.75	Peak
3	9748.000	47.51	74.00	-26.49	50.51	-3.00	Peak

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 :g_TX_2437MHz
Test by :Ling

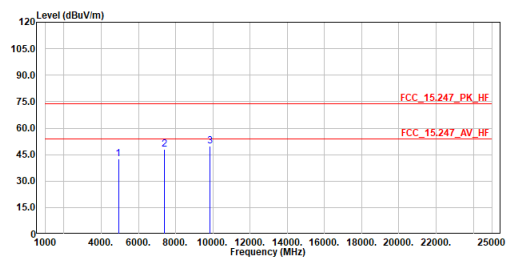


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4874.000	42.99	74.00	-31.01	55.42	-12.43	Peak
2	7311.000	47.61	74.00	-26.39	53.36	-5.75	Peak
3	9748.000	47.18	74.00	-26.82	50.18	-3.00	Peak

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 :g_TX_2462MHz
Test by :Ling

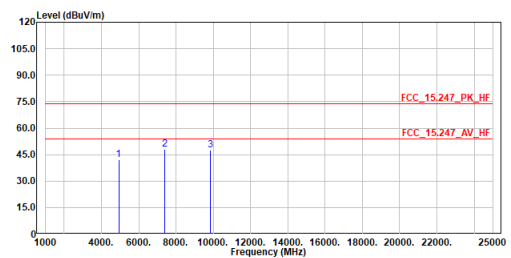


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4924.000	42.76	74.00	-31.24	54.96	-12.20	Peak
2	7386.000	48.06	74.00	-25.94	53.73	-5.67	Peak
3	9848.000	49.95	74.00	-24.05	52.73	-2.78	Peak

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 :g_TX_2462MHz
Test by :Ling

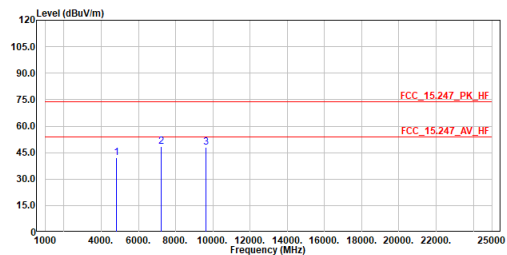


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4924.000	42.14	74.00	-31.86	54.34	-12.20	Peak
2	7386.000	48.14	74.00	-25.86	53.81	-5.67	Peak
3	9848.000	47.63	74.00	-26.37	50.41	-2.78	Peak

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 :n20_TX_2412MHz
Test by :Ling

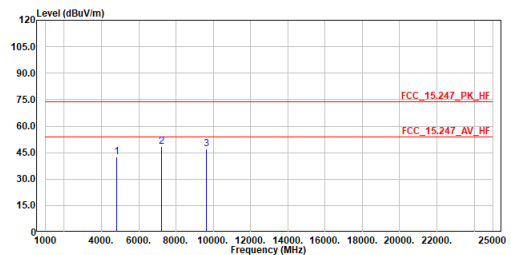


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4824.000	42.00	74.00	-32.00	54.66	-12.66	Peak
2	7236.000	48.68	74.00	-25.32	54.51	-5.83	Peak
3	9648.000	47.78	74.00	-26.22	50.99	-3.21	Peak

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 :n20_TX_2412MHz
Test by :Ling

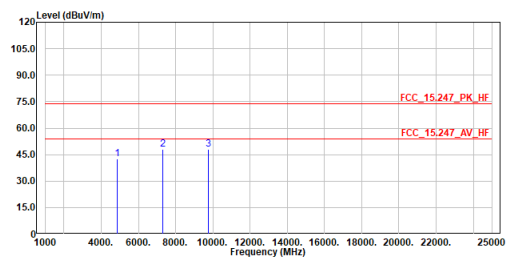


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4824.000	42.77	74.00	-31.23	55.43	-12.66	Peak
2	7236.000	48.29	74.00	-25.71	54.12	-5.83	Peak
3	9648.000	47.30	74.00	-26.70	50.51	-3.21	Peak

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 :n20_TX_2437MHz
Test by :Ling

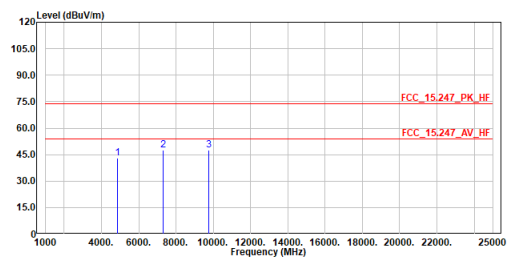


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4874.000	42.40	74.00	-31.60	54.83	-12.43	Peak
2	7311.000	47.81	74.00	-26.19	53.56	-5.75	Peak
3	9748.000	48.06	74.00	-25.94	51.06	-3.00	Peak

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 :n20_TX_2437MHz
Test by :Ling

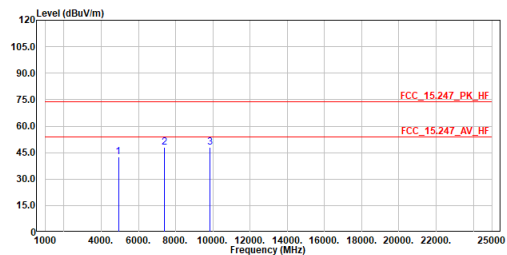


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4874.000	42.83	74.00	-31.17	55.26	-12.43	Peak
2	7311.000	47.63	74.00	-26.37	53.38	-5.75	Peak
3	9748.000	47.48	74.00	-26.52	50.48	-3.00	Peak

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 :n20_TX_2462MHz
Test by :Ling

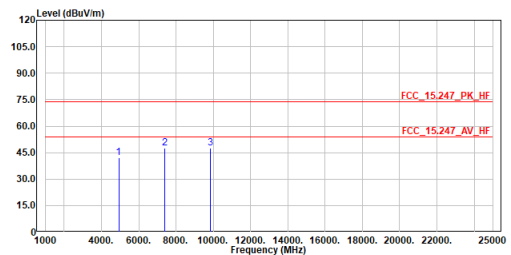


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4924.000	42.53	74.00	-31.47	54.73	-12.20	Peak
2	7386.000	47.86	74.00	-26.14	53.53	-5.67	Peak
3	9848.000	47.88	74.00	-26.12	50.66	-2.78	Peak

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 :n20_TX_2462MHz
Test by :Ling

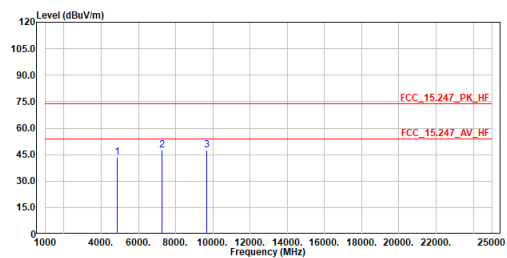


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4924.000	41.92	74.00	-32.08	54.12	-12.20	Peak
2	7386.000	47.44	74.00	-26.56	53.11	-5.67	Peak
3	9848.000	47.70	74.00	-26.30	50.48	-2.78	Peak

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 :n40_TX_2422MHz
Test by :Ling

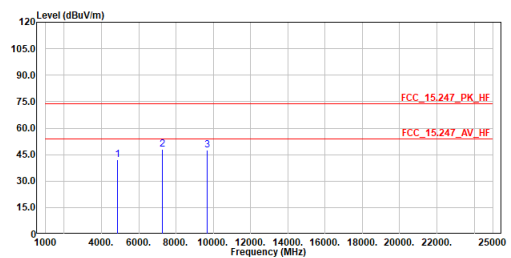


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4844.000	43.25	74.00	-30.75	55.83	-12.58	Peak
2	7266.000	47.50	74.00	-26.50	53.30	-5.80	Peak
3	9688.000	47.34	74.00	-26.66	50.47	-3.13	Peak

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 :n40_TX_2422MHz
Test by :Ling

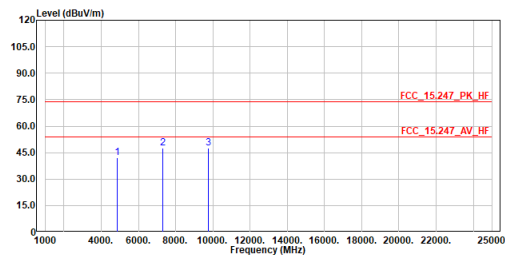


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4844.000	42.03	74.00	-31.97	54.61	-12.58	Peak
2	7266.000	48.10	74.00	-25.90	53.90	-5.80	Peak
3	9688.000	47.41	74.00	-26.59	50.54	-3.13	Peak

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 :n40_TX_2437MHz
Test by :Ling

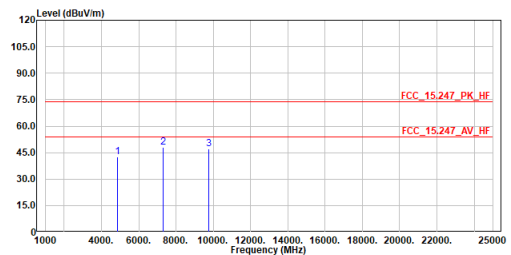


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4874.000	42.31	74.00	-31.69	54.74	-12.43	Peak
2	7311.000	47.59	74.00	-26.41	53.34	-5.75	Peak
3	9748.000	47.39	74.00	-26.61	50.39	-3.00	Peak

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 :n40_TX_2437MHz
Test by :Ling

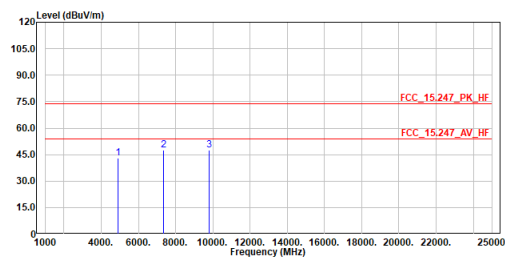


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4874.000	42.46	74.00	-31.54	54.89	-12.43	Peak
2	7311.000	47.83	74.00	-26.17	53.58	-5.75	Peak
3	9748.000	47.28	74.00	-26.72	50.28	-3.00	Peak

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 :n40_TX_2452MHz
Test by :Ling

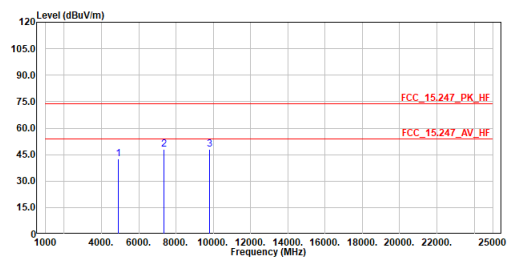


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4904.000	42.80	74.00	-31.20	55.09	-12.29	Peak
2	7356.000	47.59	74.00	-26.41	53.30	-5.71	Peak
3	9808.000	47.56	74.00	-26.44	50.42	-2.86	Peak

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 :n40_TX_2452MHz
Test by :Ling



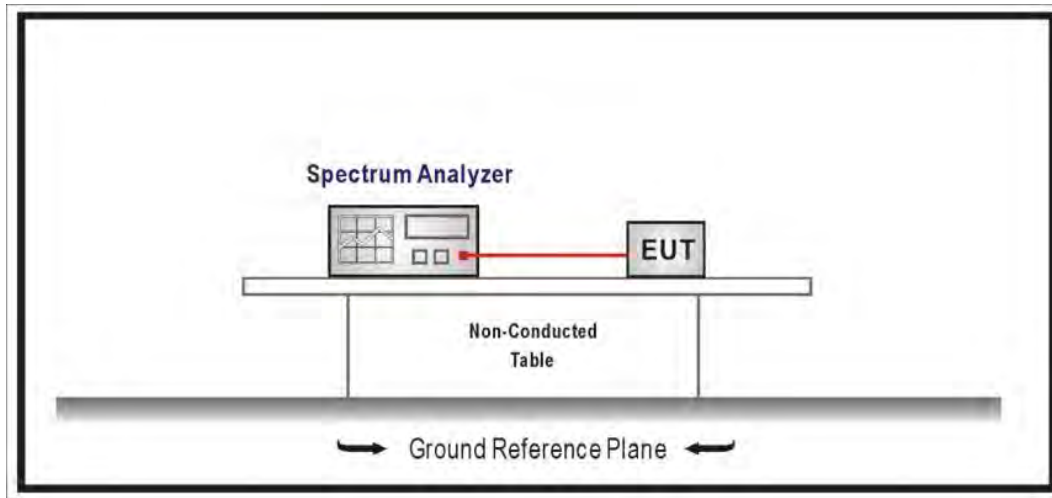
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	4904.000	42.45	74.00	-31.55	54.74	-12.29	Peak
2	7356.000	47.89	74.00	-26.11	53.60	-5.71	Peak
3	9808.000	47.81	74.00	-26.19	50.67	-2.86	Peak

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

For FCC:

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)).

For ISSED:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced 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 measurement, provided the transmitter demonstrates compliance with the peak conducted power limit.

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 / RSS-247 Issue 2 requirements.

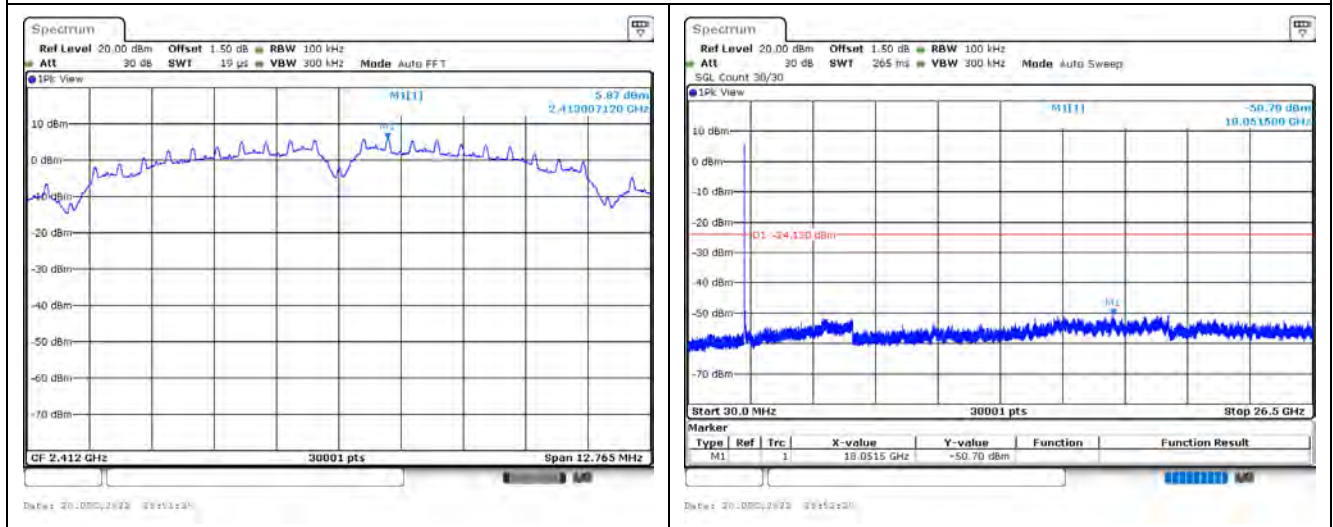
Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.4. Test Specification

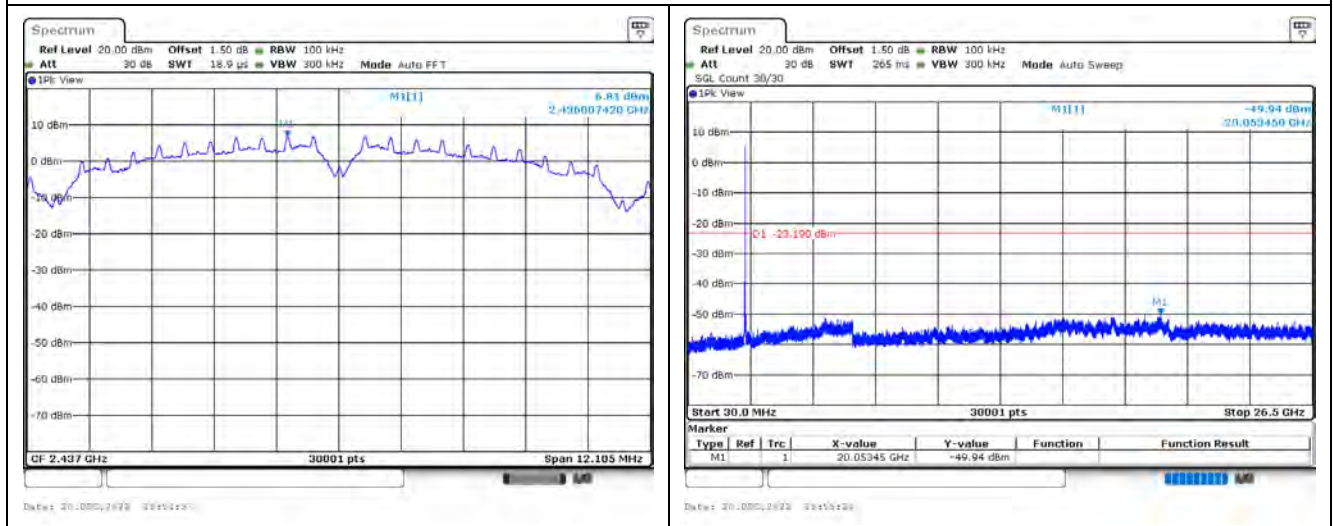
According to FCC Part 15 Subpart C Paragraph 15.247 / IC RSS-247 Issue 2.

5.5. Test Result of Antenna Port Conducted Emission

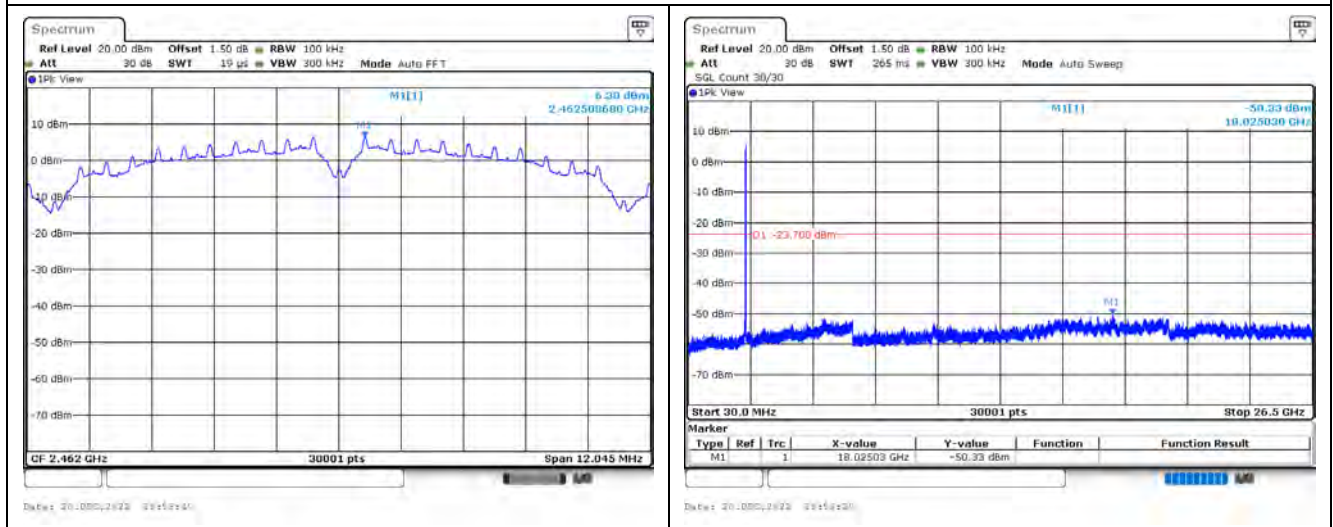
802.11b / 2412 MHz



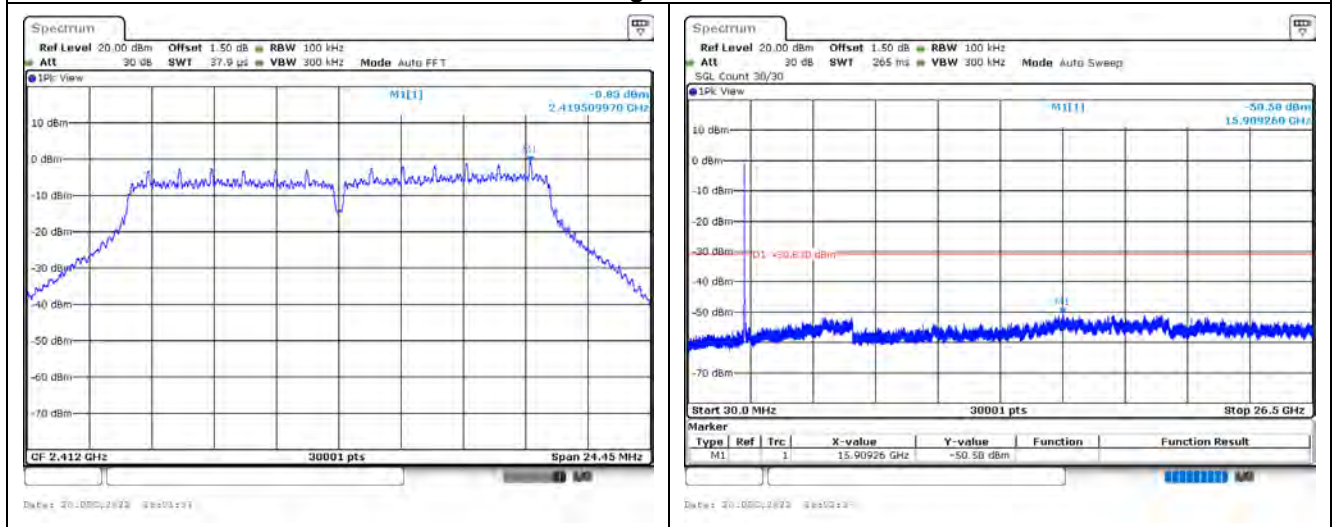
802.11b / 2437 MHz



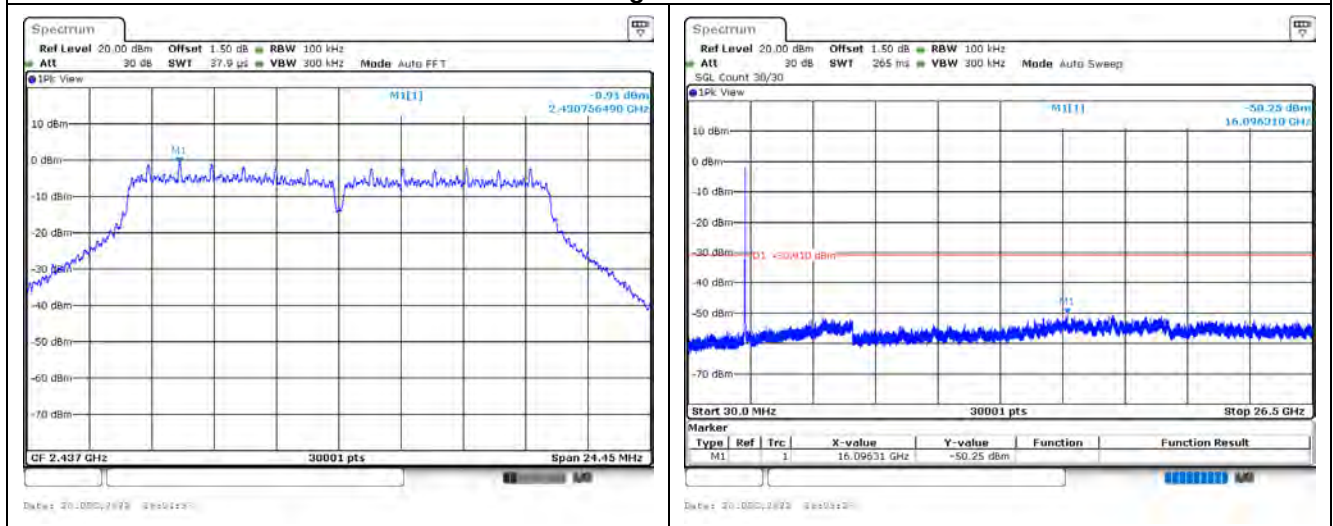
802.11b / 2462 MHz



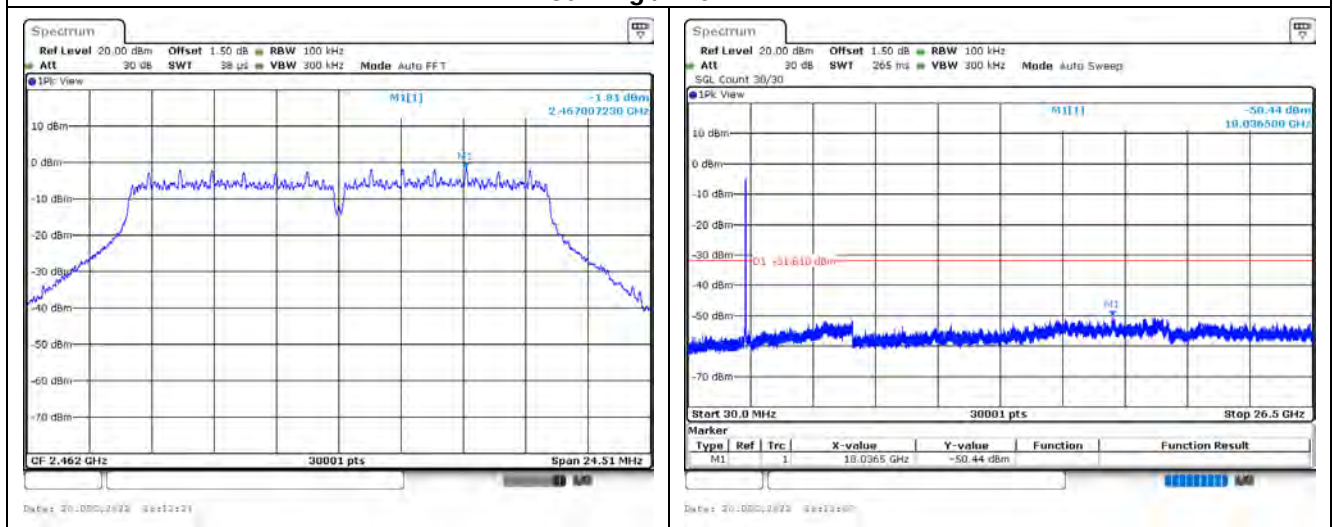
802.11g / 2412 MHz



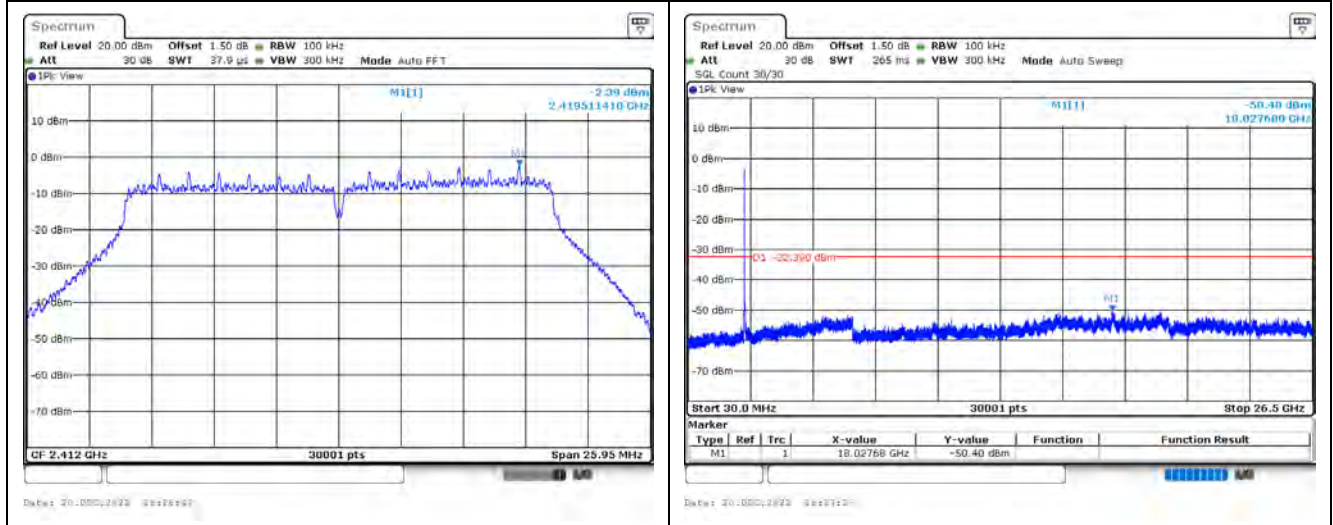
802.11g / 2437 MHz



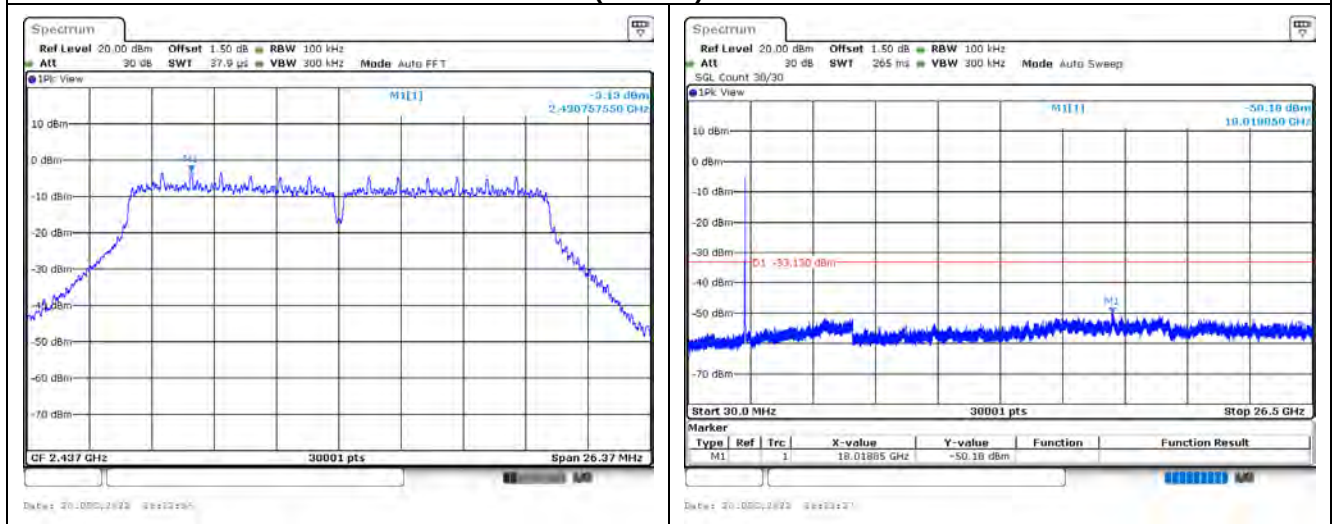
802.11g / 2462 MHz



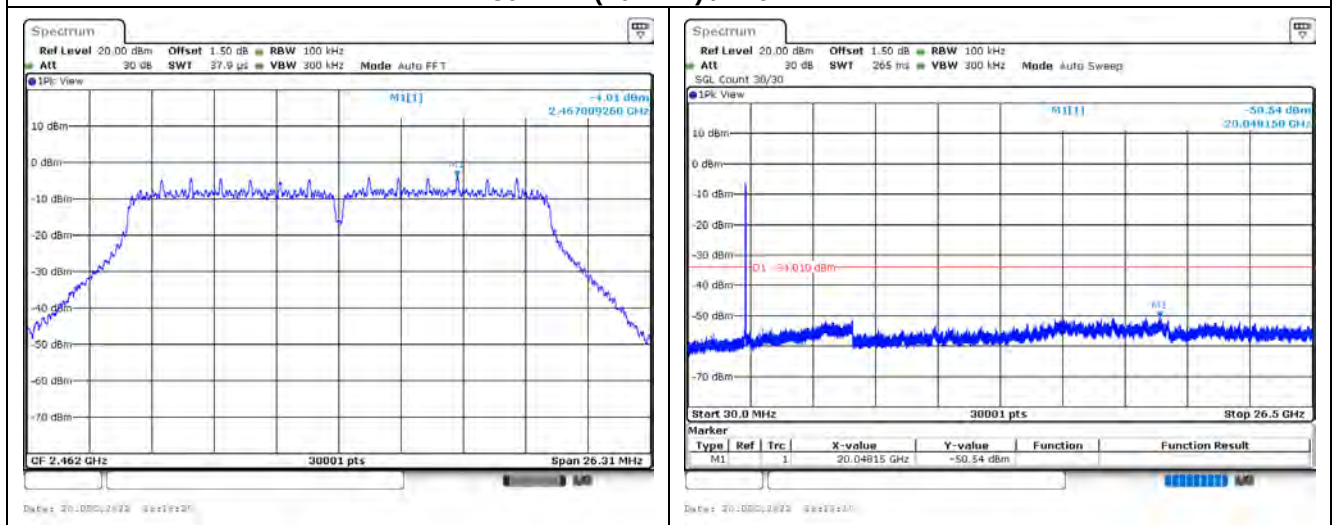
802.11n (20 MHz) / 2412 MHz



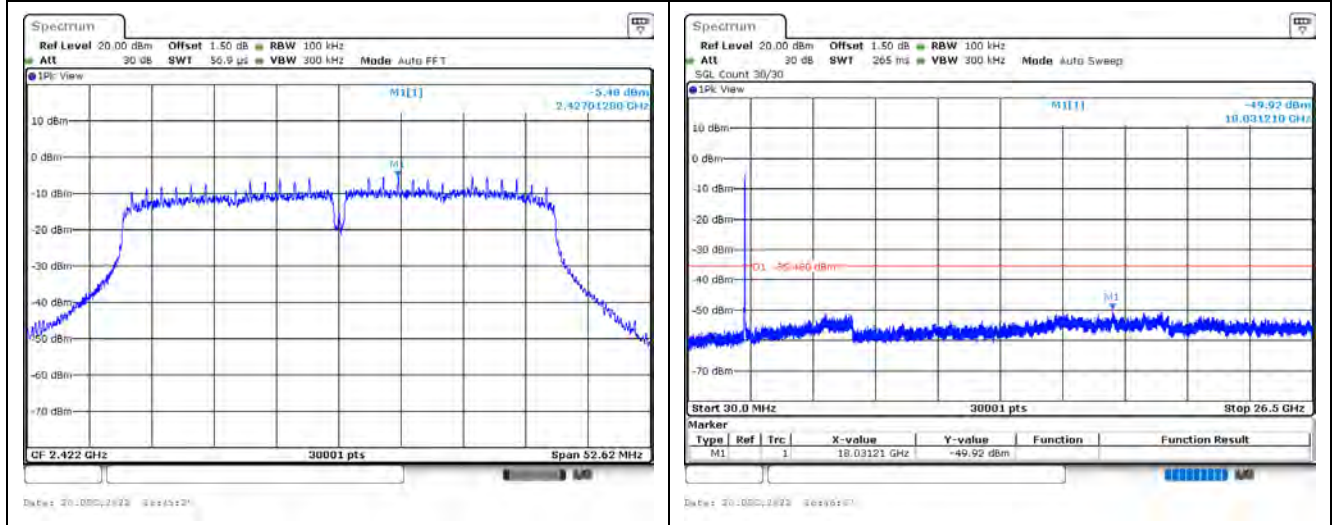
802.11n (20 MHz) / 2437 MHz



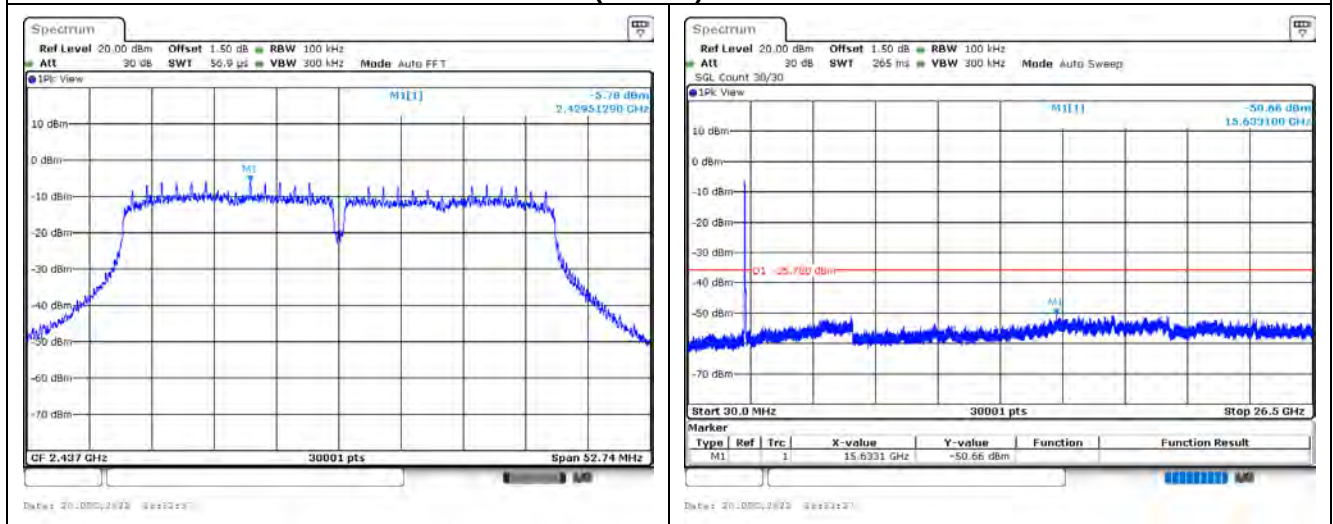
802.11n (20 MHz) / 2462 MHz



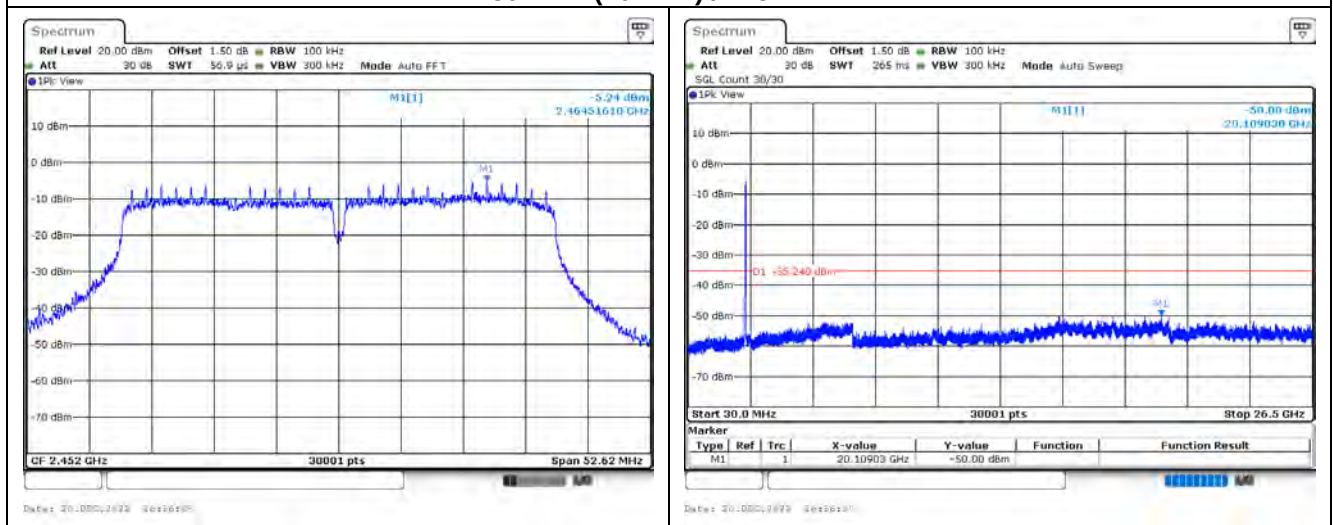
802.11n (40 MHz) / 2422 MHz

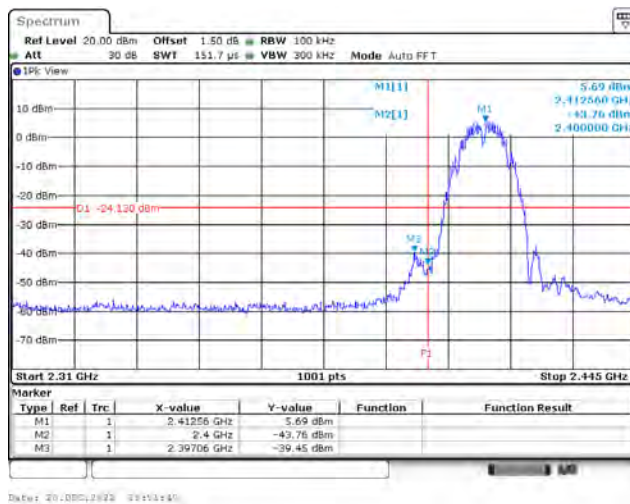
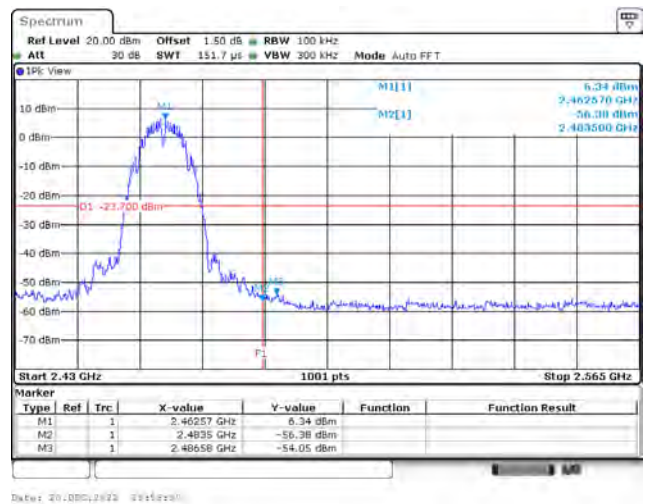
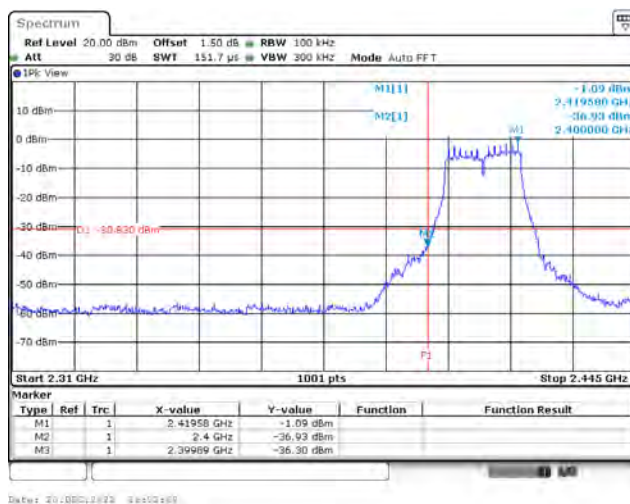
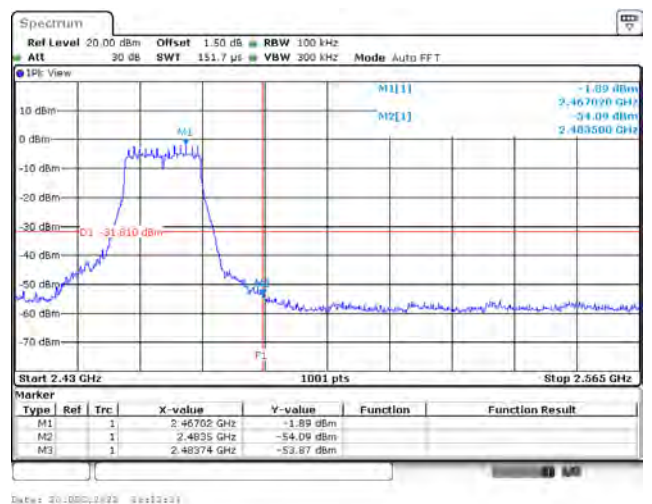
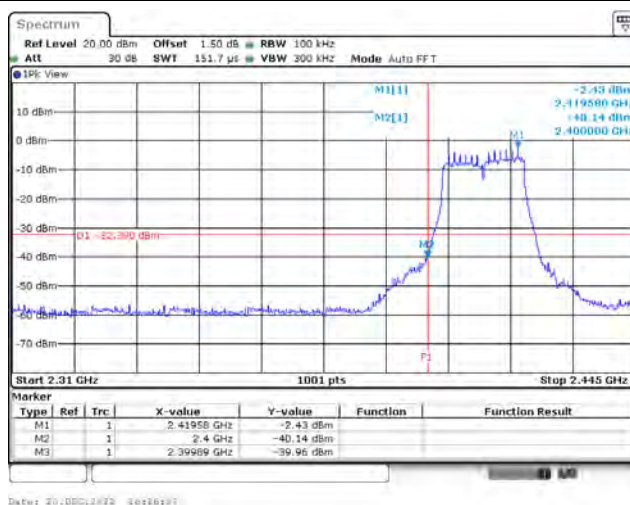
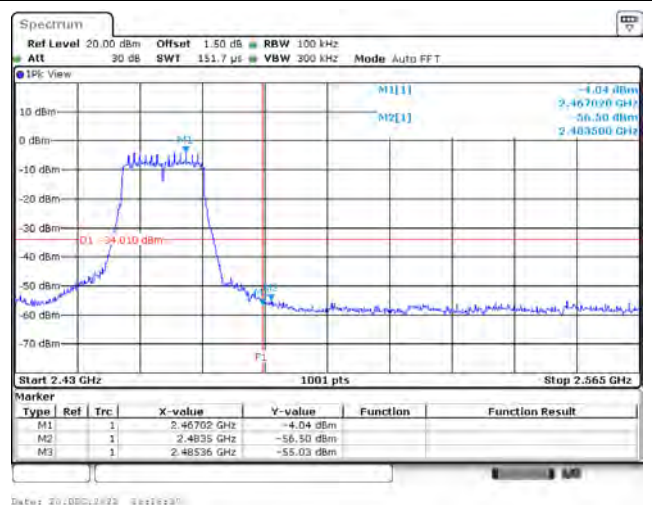


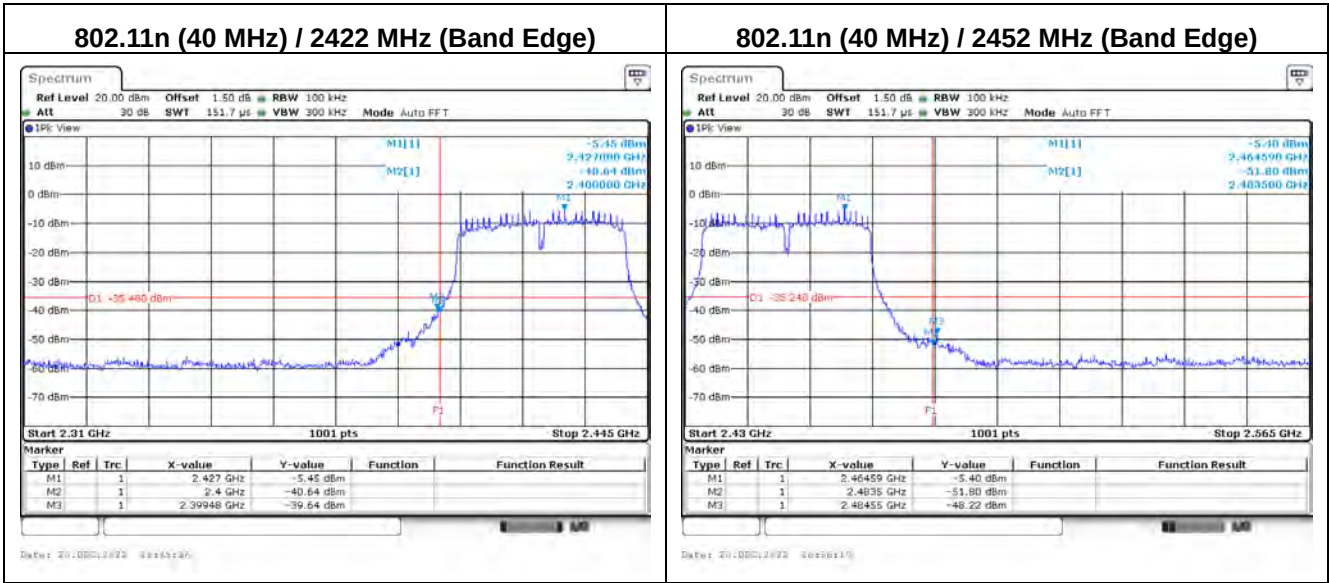
802.11n (40 MHz) / 2437 MHz



802.11n (40 MHz) / 2452 MHz

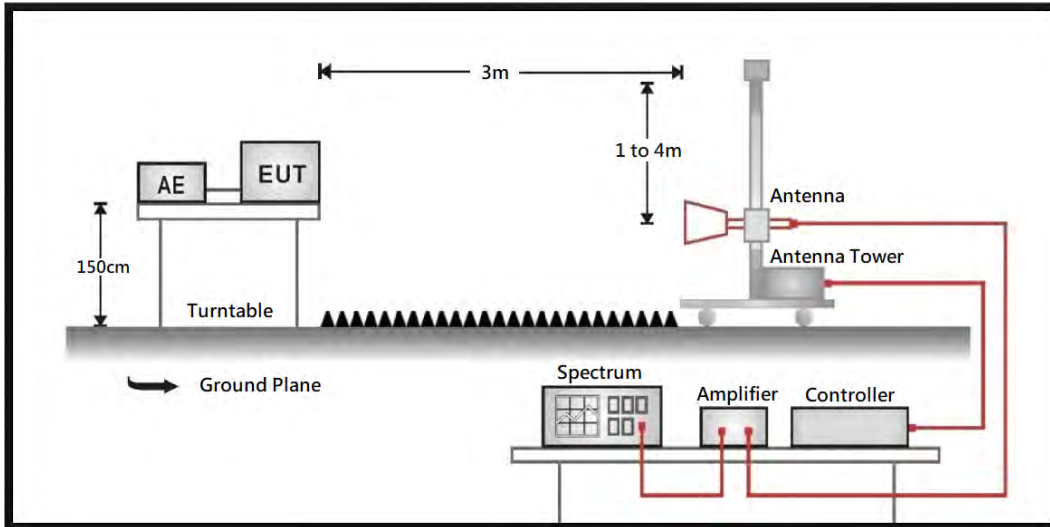


802.11b / 2412 MHz (Band Edge)**802.11b / 2462 MHz (Band Edge)****802.11g / 2412 MHz (Band Edge)****802.11g / 2462 MHz (Band Edge)****802.11n (20 MHz) / 2412 MHz (Band Edge)****802.11n (20 MHz) / 2462 MHz (Band Edge)**



6. Radiated Emission Band Edge

6.1. Test Setup



6.2. Test Limit

For FCC:

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

For ISSED:

In any 100 kHz bandwidth outside the operating frequency bands, between 30 MHz and 5 times the carrier frequency, the unwanted emission spectral density shall be either at least 20 dB below the inband spectral density, or shall not exceed the levels specified in RSS-Gen Issue 5 Section 8.9, whichever is the less stringent. Note. For frequency hopping systems, the inband density S_i shall be measured with the hopping sequence stopped at lowest channel and highest channel in turn, as with the hopping running normally. The 20 dB shall be with reference to the lowest of the three S_i values.

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

For FCC:

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.

For ISCED:

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.

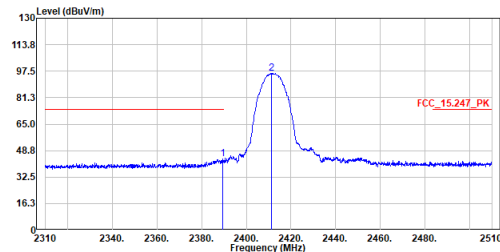
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247 / IC RSS-247 Issue 2.

6.5. Test Result of Radiated Emission Band Edge

Site :HC-CB02
Condition :3m Horizontal
Mode :b_TX_2412MHz
Test by :Ling

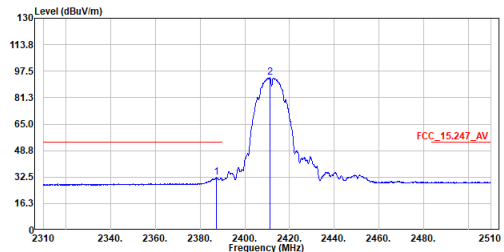


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.400	43.75	74.00	-30.25	30.81	12.94	Peak
2	2411.200	96.20	-----	-----	83.15	13.05	Peak

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 :b_TX_2412MHz
Test by :Ling

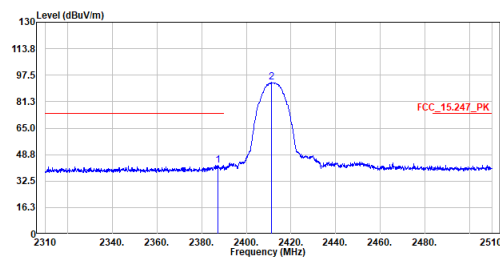


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2387.400	32.38	54.00	-21.62	19.45	12.93	Average
2	2411.300	93.69	-----	-----	80.64	13.05	Average

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 :b_TX_2412MHz
Test by :Ling

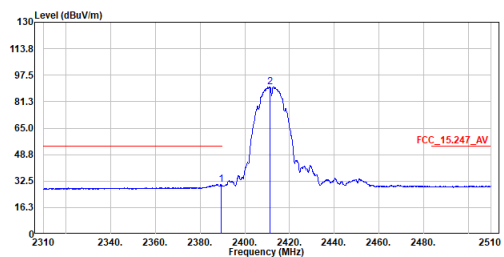


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2387.400	42.13	74.00	-31.87	29.20	12.93	Peak
2	2411.200	93.05	-----	-----	80.00	13.05	Peak

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.

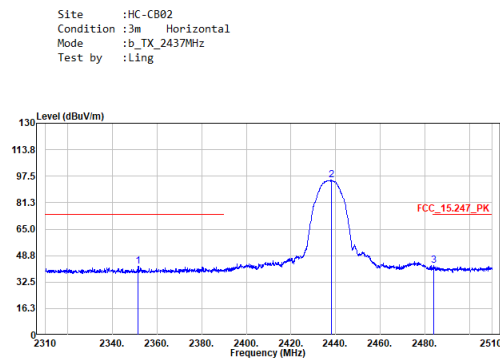
Site :HC-CB02
Condition :3m Vertical
Mode :b_TX_2412MHz
Test by :Ling



No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.300	30.52	54.00	-23.48	17.58	12.94	Average
2	2411.300	90.50	-----	-----	77.45	13.05	Average

Note:

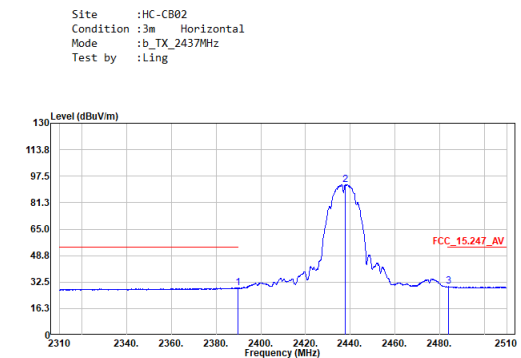
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.



No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2351.600	42.22	74.00	-31.78	29.48	12.74	Peak
2	2438.000	95.09	-----	-----	81.89	13.20	Peak
3	2484.100	42.60	74.00	-31.40	29.17	13.43	Peak

Note:

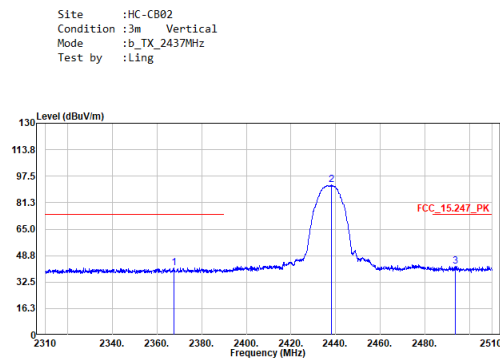
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.



No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.800	29.00	54.00	-25.00	16.06	12.94	Average
2	2437.800	92.47	-----	-----	79.27	13.20	Average
3	2483.900	29.79	54.00	-24.21	16.36	13.43	Average

Note:

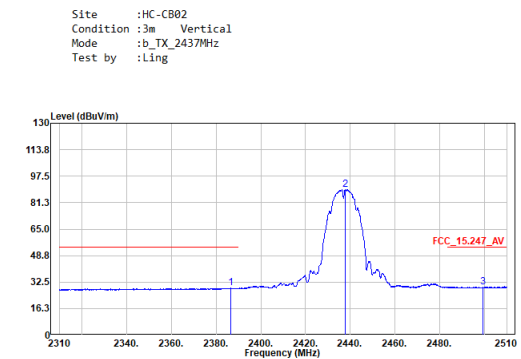
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.



No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2367.500	41.20	74.00	-32.80	28.37	12.83	Peak
2	2438.000	92.00	-----	-----	78.80	13.20	Peak
3	2493.500	42.26	74.00	-31.74	28.78	13.48	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.

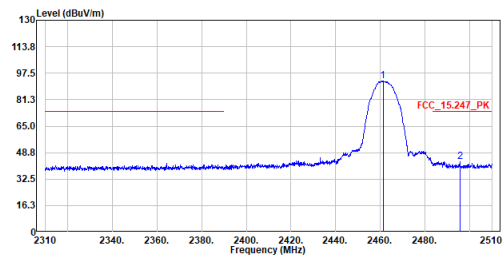


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2386.700	28.85	54.00	-25.15	15.92	12.93	Average
2	2437.800	89.37	-----	-----	76.17	13.20	Average
3	2499.400	29.54	54.00	-24.46	16.03	13.51	Average

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 :b_TX_2462MHz
Test by :Ling

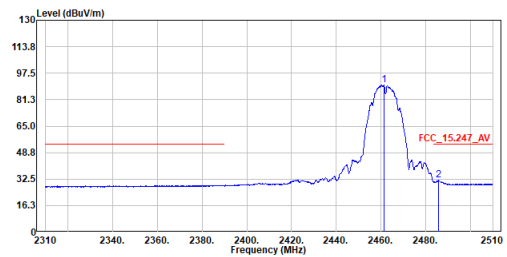


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2461.200	92.77	-----	-----	79.46	13.31	Peak
2	2495.600	43.19	74.00	-30.81	29.71	13.48	Peak

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 :b_TX_2462MHz
Test by :Ling

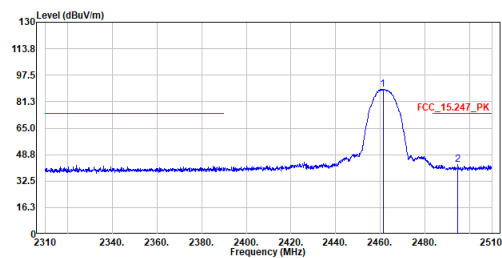


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2461.300	90.17	-----	-----	76.86	13.31	Average
2	2485.800	31.78	54.00	-22.22	18.35	13.43	Average

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 :b_TX_2462MHz
Test by :Ling

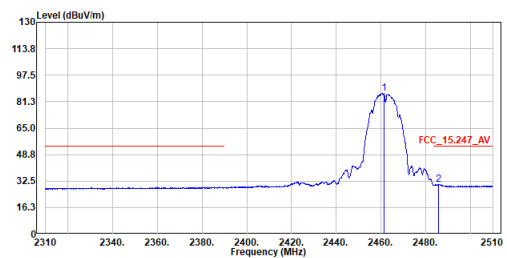


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2461.200	89.00	-----	-----	75.69	13.31	Peak
2	2494.800	42.68	74.00	-31.32	29.20	13.48	Peak

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 :b_TX_2462MHz
Test by :Ling

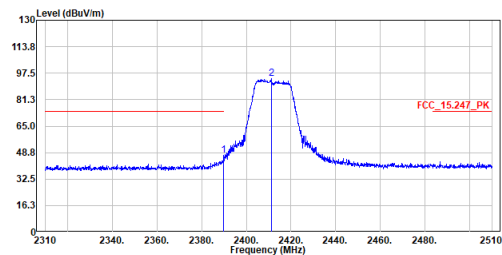


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2461.300	86.32	-----	-----	73.01	13.31	Average
2	2485.800	30.58	54.00	-23.42	17.15	13.43	Average

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 :g_TX_2412MHz
Test by :Ling

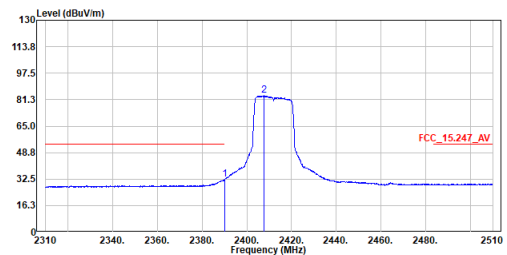


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.700	47.17	74.00	-26.83	34.23	12.94	Peak
2	2411.100	94.04	-----	-----	80.99	13.05	Peak

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 :g_TX_2412MHz
Test by :Ling

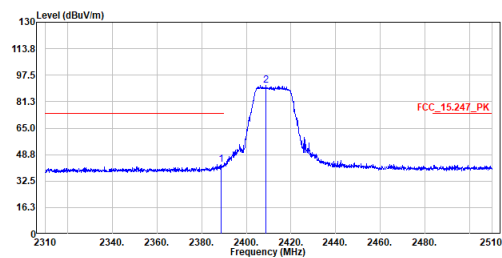


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	32.20	54.00	-21.80	19.26	12.94	Average
2	2407.600	83.73	-----	-----	70.69	13.04	Average

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 :g_TX_2412MHz
Test by :Ling

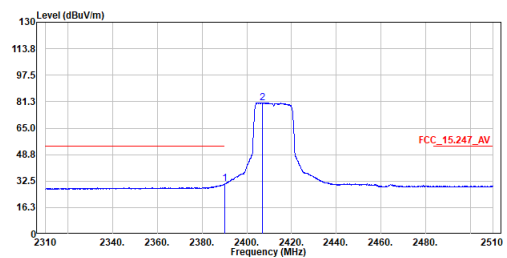


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2388.800	42.72	74.00	-31.28	29.78	12.94	Peak
2	2408.700	91.32	-----	-----	78.27	13.05	Peak

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.

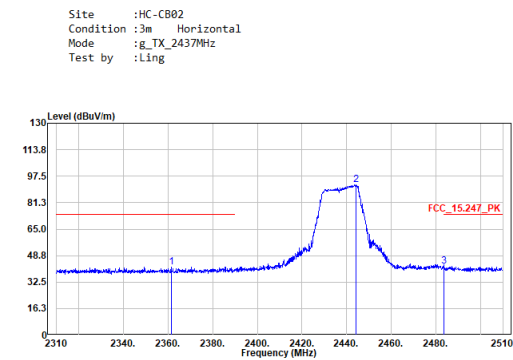
Site :HC-CB02
Condition :3m Vertical
Mode :g_TX_2412MHz
Test by :Ling



No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	30.69	54.00	-23.31	17.75	12.94	Average
2	2406.800	80.69	-----	-----	67.66	13.03	Average

Note:

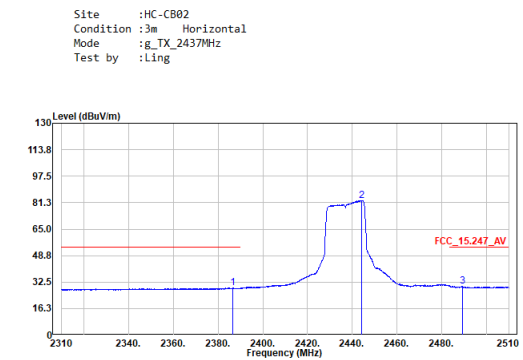
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2361.400	41.76	74.00	-32.24	28.97	12.79	Peak
2	2444.200	92.35	-----	-----	79.12	13.23	Peak
3	2483.700	41.99	74.00	-32.01	28.56	13.43	Peak

Note:

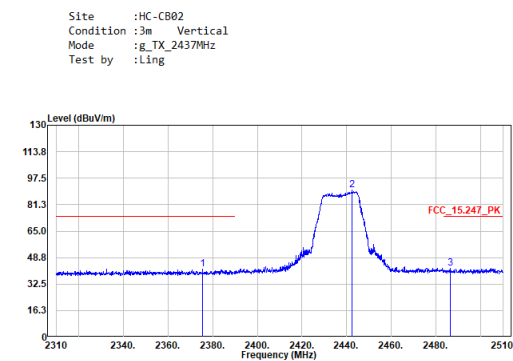
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2386.600	28.93	54.00	-25.07	16.00	12.93	Average
2	2444.300	82.50	-----	-----	69.27	13.23	Average
3	2489.200	30.05	54.00	-23.95	16.59	13.46	Average

Note:

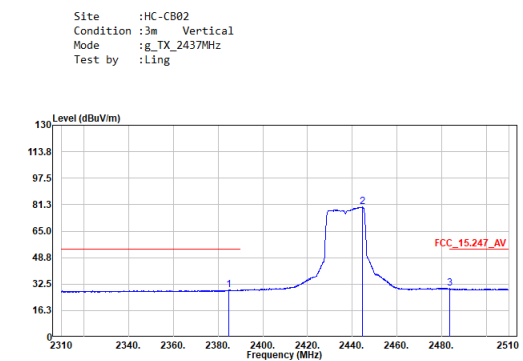
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2375.500	41.67	74.00	-32.33	28.80	12.87	Peak
2	2442.400	90.10	-----	-----	76.89	13.21	Peak
3	2486.600	41.99	74.00	-32.01	28.55	13.44	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.

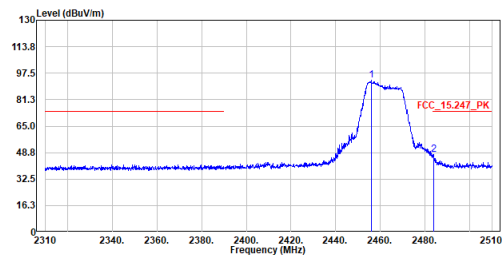


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2384.600	28.79	54.00	-25.21	15.87	12.92	Average
2	2444.600	79.94	-----	-----	66.71	13.23	Average
3	2483.700	29.72	54.00	-24.28	16.29	13.43	Average

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 :g_TX_2462MHz
Test by :Ling

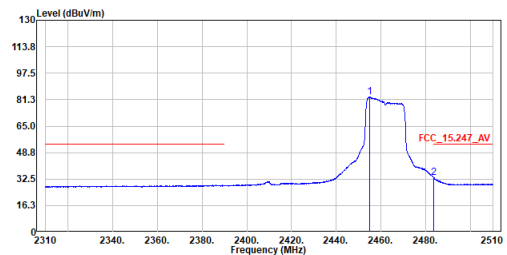


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2456.000	93.08	-----	-----	79.80	13.28	Peak
2	2484.100	47.67	74.00	-26.33	34.24	13.43	Peak

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 :g_TX_2462MHz
Test by :Ling

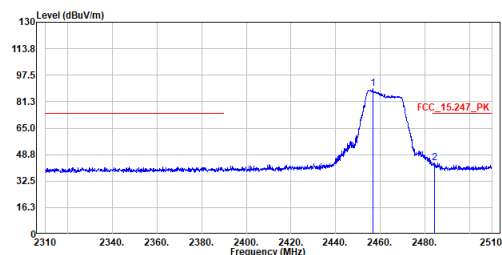


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2454.800	82.82	-----	-----	69.54	13.28	Average
2	2483.600	33.16	54.00	-20.84	19.73	13.43	Average

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 :g_TX_2462MHz
Test by :Ling

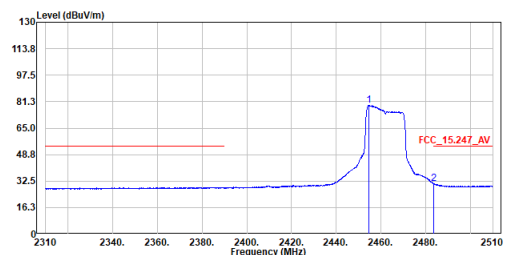


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2456.000	89.15	-----	-----	75.87	13.28	Peak
2	2484.200	43.84	74.00	-30.16	30.41	13.43	Peak

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 :g_TX_2462MHz
Test by :Ling

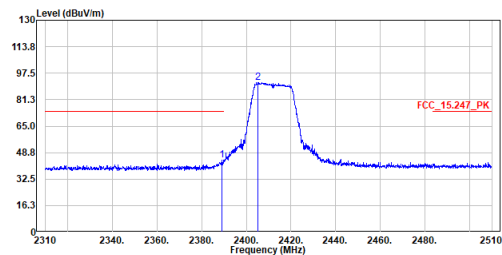


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2454.600	78.95	-----	-----	65.67	13.28	Average
2	2483.600	30.94	54.00	-23.06	17.51	13.43	Average

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 :n20_TX_2412MHz
Test by :Ling

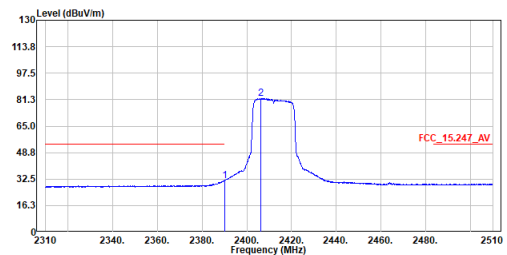


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.200	43.98	74.00	-30.02	31.04	12.94	Peak
2	2405.300	91.88	-----	-----	78.86	13.02	Peak

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 :n20_TX_2412MHz
Test by :Ling

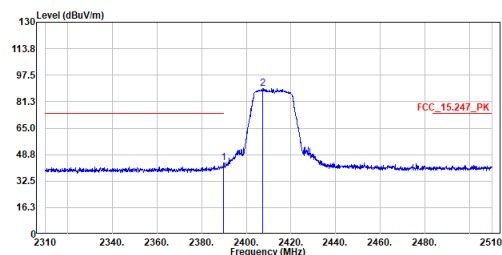


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	31.56	54.00	-22.44	18.62	12.94	Average
2	2406.300	82.00	-----	-----	68.98	13.02	Average

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 :n20_TX_2412MHz
Test by :Ling

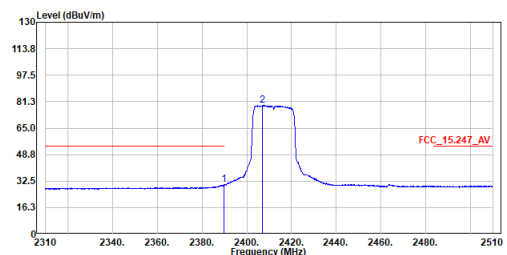


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.800	43.58	74.00	-30.42	30.64	12.94	Peak
2	2407.200	89.47	-----	-----	76.44	13.03	Peak

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 :n20_TX_2412MHz
Test by :Ling

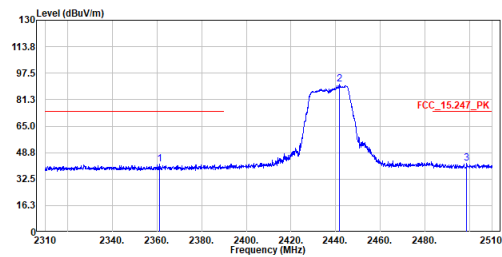


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.900	30.18	54.00	-23.82	17.24	12.94	Average
2	2407.100	79.05	-----	-----	66.02	13.03	Average

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 :n20_TX_2437MHz
Test by :Ling

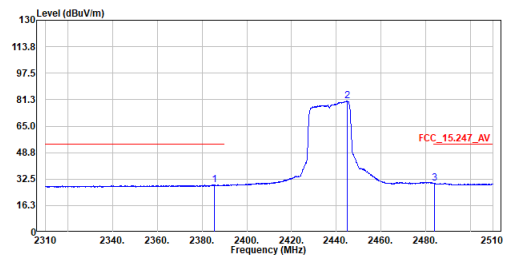


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2361.000	41.45	74.00	-32.55	28.66	12.79	Peak
2	2441.600	90.61	-----	-----	77.41	13.20	Peak
3	2498.600	42.27	74.00	-31.73	28.76	13.51	Peak

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 :n20_TX_2437MHz
Test by :Ling

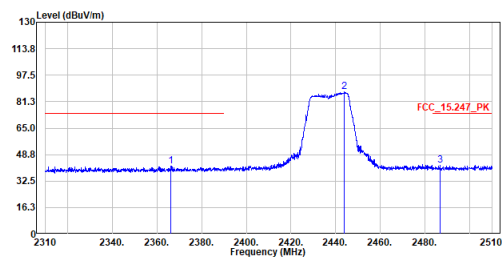


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2385.400	28.91	54.00	-25.09	15.99	12.92	Average
2	2444.800	80.24	-----	-----	67.01	13.23	Average
3	2483.800	30.14	54.00	-23.86	16.71	13.43	Average

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 :n20_TX_2437MHz
Test by :Ling

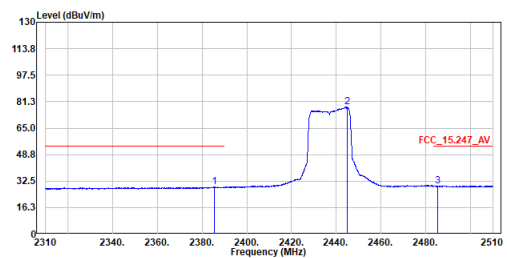


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2366.300	41.74	74.00	-32.26	28.92	12.82	Peak
2	2443.900	87.41	-----	-----	74.19	13.22	Peak
3	2486.800	42.05	74.00	-31.95	28.61	13.44	Peak

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 :n20_TX_2437MHz
Test by :Ling

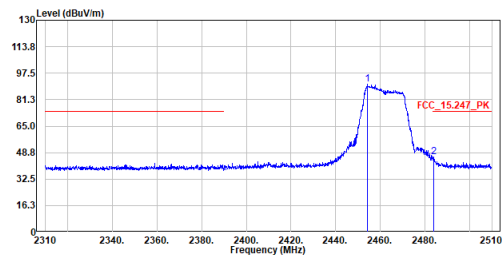


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2385.600	28.96	54.00	-25.04	16.04	12.92	Average
2	2444.800	77.96	-----	-----	64.73	13.23	Average
3	2485.500	29.65	54.00	-24.35	16.22	13.43	Average

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 :n20_TX_2462MHz
Test by :Ling

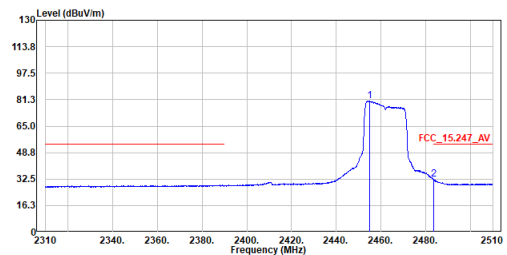


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2454.200	90.58	-----	77.30	13.28	Peak	
2	2484.000	46.13	74.00	-27.87	32.70	13.43	Peak

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 :n20_TX_2462MHz
Test by :Ling

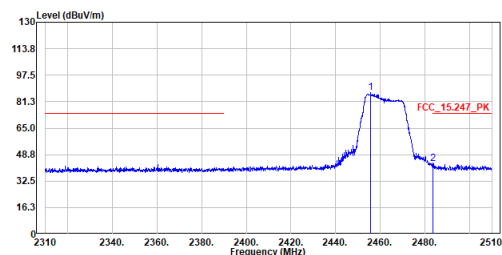


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2454.800	80.28	-----	67.00	13.28	Average	
2	2483.600	32.21	54.00	-21.79	18.78	13.43	Average

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 :n20_TX_2462MHz
Test by :Ling

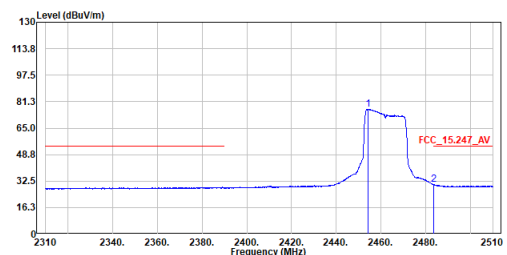


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2455.600	86.90	-----	73.62	13.28	Peak	
2	2483.600	43.25	74.00	-30.75	29.82	13.43	Peak

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 :n20_TX_2462MHz
Test by :Ling

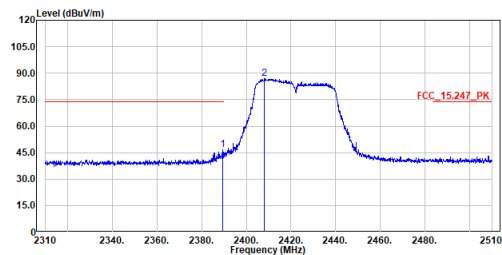


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2454.300	76.64	-----	63.36	13.28	Average	
2	2483.600	30.31	54.00	-23.69	16.88	13.43	Average

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 :n40_TX_2422MHz
Test by :Ling

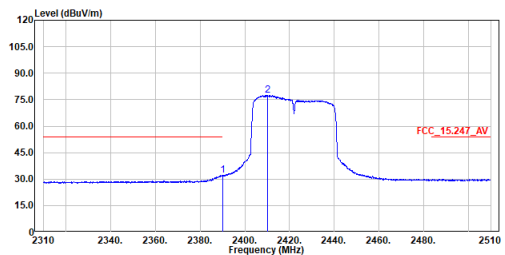


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.400	46.47	74.00	-27.53	33.53	12.94	Peak
2	2408.200	86.93	-----	-----	73.89	13.04	Peak

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 :n40_TX_2422MHz
Test by :Ling

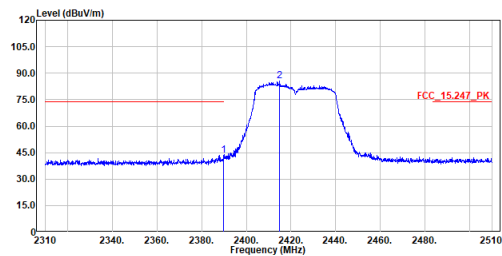


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2390.000	32.15	54.00	-21.85	19.21	12.94	Average
2	2410.300	77.51	-----	-----	64.46	13.05	Average

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 :n40_TX_2422MHz
Test by :Ling

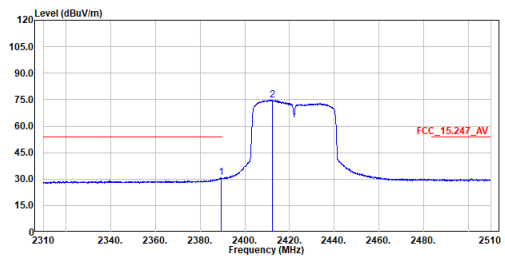


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.700	43.52	74.00	-30.48	30.58	12.94	Peak
2	2415.000	85.61	-----	-----	72.53	13.08	Peak

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 :n40_TX_2422MHz
Test by :Ling

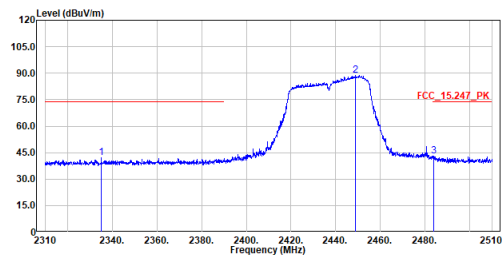


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.400	30.72	54.00	-23.28	17.78	12.94	Average
2	2412.200	74.91	-----	-----	61.86	13.05	Average

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 :n40_TX_2437MHz
Test by :Ling

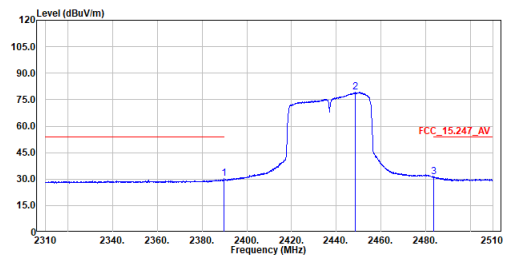


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2335.000	42.01	74.00	-31.99	29.35	12.66	Peak
2	2447.700	88.76	-----	-----	75.51	13.25	Peak
3	2483.800	43.19	74.00	-30.81	29.76	13.43	Peak

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 :n40_TX_2437MHz
Test by :Ling

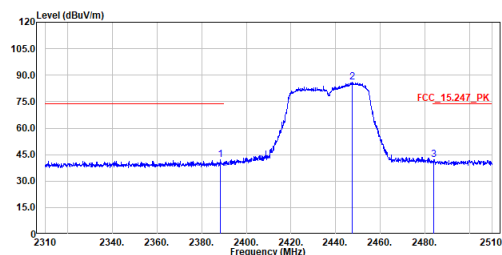


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.900	30.33	54.00	-23.67	17.39	12.94	Average
2	2448.400	79.24	-----	-----	65.99	13.25	Average
3	2483.700	31.43	54.00	-22.57	18.00	13.43	Average

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 :n40_TX_2437MHz
Test by :Ling

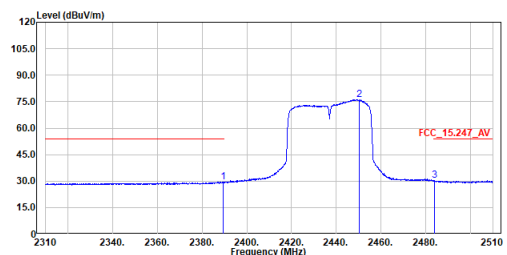


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2388.500	42.04	74.00	-31.96	29.10	12.94	Peak
2	2447.300	86.21	-----	-----	72.97	13.24	Peak
3	2483.800	42.06	74.00	-31.94	28.63	13.43	Peak

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 :n40_TX_2437MHz
Test by :Ling

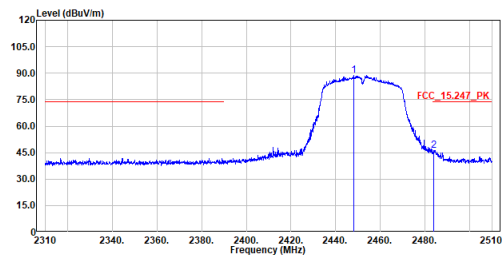


No.	Frequency MHz	Level dBuV/m	Limit dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2389.300	29.45	54.00	-24.55	16.51	12.94	Average
2	2450.300	76.08	-----	-----	62.83	13.25	Average
3	2484.000	30.18	54.00	-23.82	16.75	13.43	Average

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 :n40_TX_2452MHz
Test by :Ling

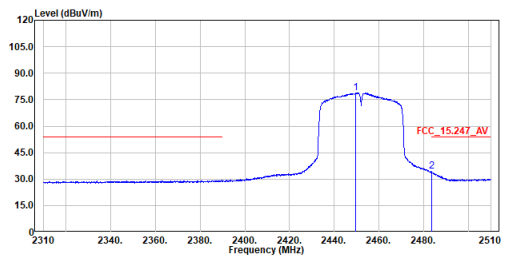


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2448.000	88.56	-----	-----	75.31	13.25	Peak
2	2484.000	46.22	74.00	-27.78	32.79	13.43	Peak

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 :n40_TX_2452MHz
Test by :Ling

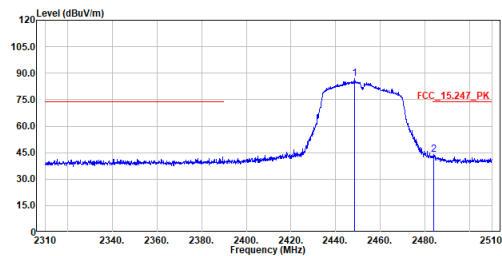


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2449.600	78.67	-----	-----	65.42	13.25	Average
2	2483.500	34.29	54.00	-19.71	20.86	13.43	Peak

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 :n40_TX_2452MHz
Test by :Ling

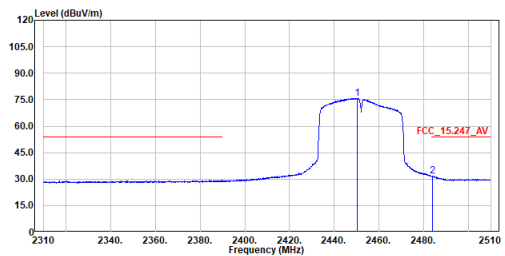


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2448.000	86.80	-----	-----	73.55	13.25	Peak
2	2483.900	43.93	74.00	-30.07	30.50	13.43	Peak

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 :n40_TX_2452MHz
Test by :Ling



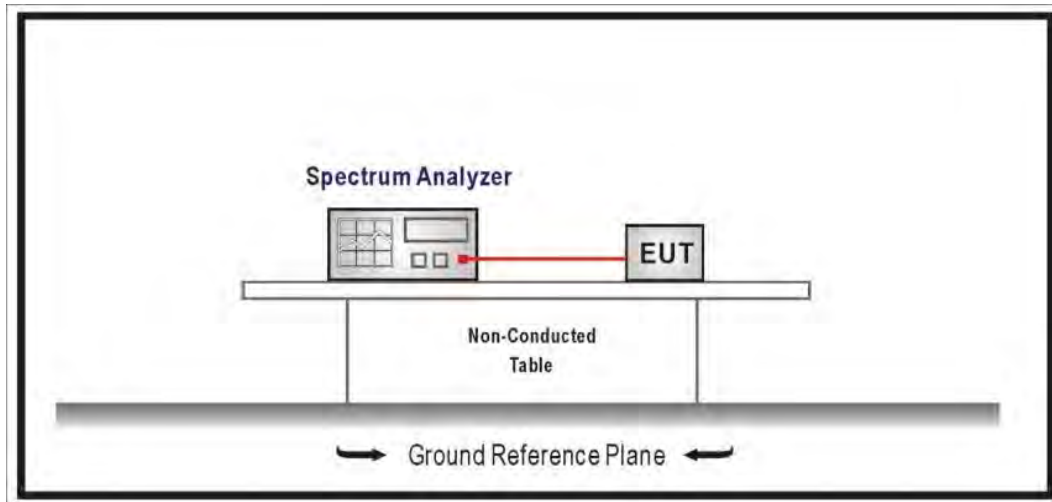
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	2450.200	75.82	-----	-----	62.57	13.25	Average
2	2483.800	31.73	54.00	-22.27	18.30	13.43	Average

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 47 CFR 15.247 / RSS-247 Issue 2 requirements.

7.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247 / IC RSS-247 Issue 2.

7.5. Test Result of Occupied Bandwidth

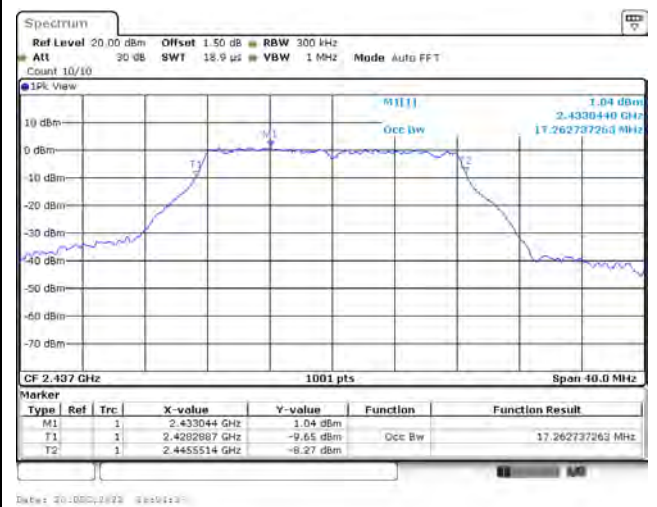
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (MHz)
802.11b	1	2412	12.987	-
	6	2437	12.867	-
	11	2462	12.747	-
802.11g	1	2412	17.062	-
	6	2437	17.262	-
	11	2462	16.983	-
802.11n (20 MHz)	1	2412	18.221	-
	6	2437	18.101	-
	11	2462	17.902	-
802.11n (40 MHz)	3	2422	36.203	-
	6	2437	36.443	-
	9	2452	36.443	-

Spectrum plot of maximum value

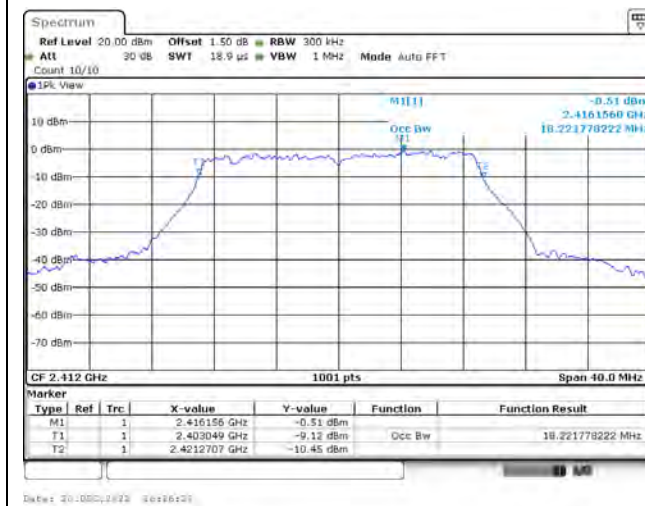
802.11b / 2412 MHz



802.11g / 2437 MHz



802.11n (20 MHz) / 2412 MHz



802.11n (40 MHz) / 2437 MHz

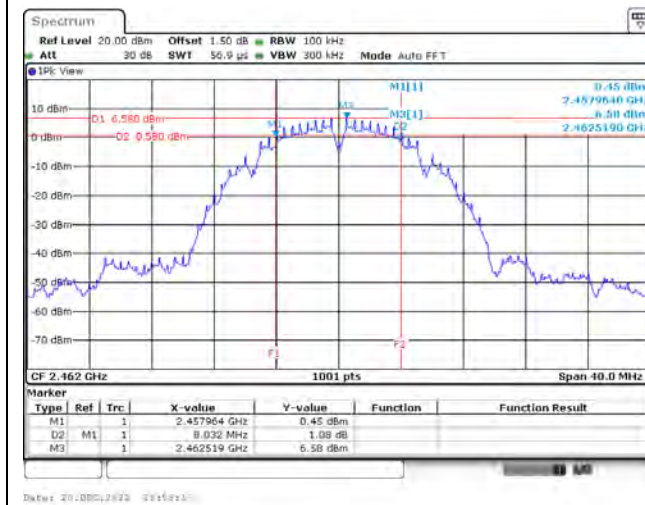


7.6. Test Result of DTS Bandwidth

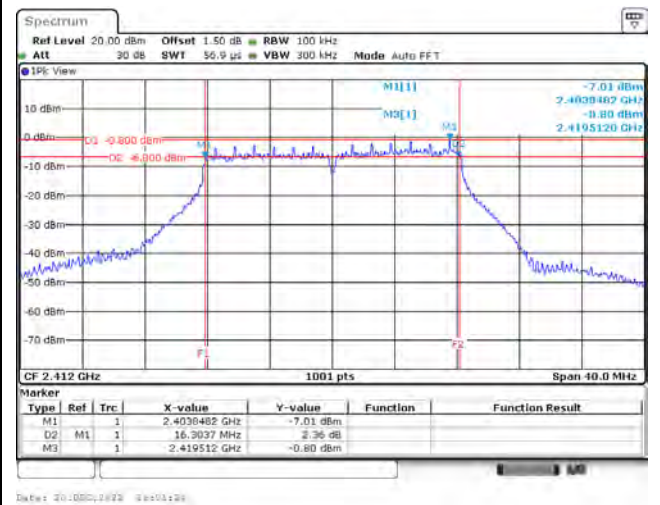
Modulation	Channel	Frequency (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	Result
802.11b	1	2412	8.511	≥ 0.50	Pass
	6	2437	8.071	≥ 0.50	Pass
	11	2462	8.032	≥ 0.50	Pass
802.11g	1	2412	16.303	≥ 0.50	Pass
	6	2437	16.303	≥ 0.50	Pass
	11	2462	16.343	≥ 0.50	Pass
802.11n (20 MHz)	1	2412	17.302	≥ 0.50	Pass
	6	2437	17.582	≥ 0.50	Pass
	11	2462	17.542	≥ 0.50	Pass
802.11n (40 MHz)	3	2422	35.084	≥ 0.50	Pass
	6	2437	35.164	≥ 0.50	Pass
	9	2452	35.084	≥ 0.50	Pass

Spectrum plot of worst value

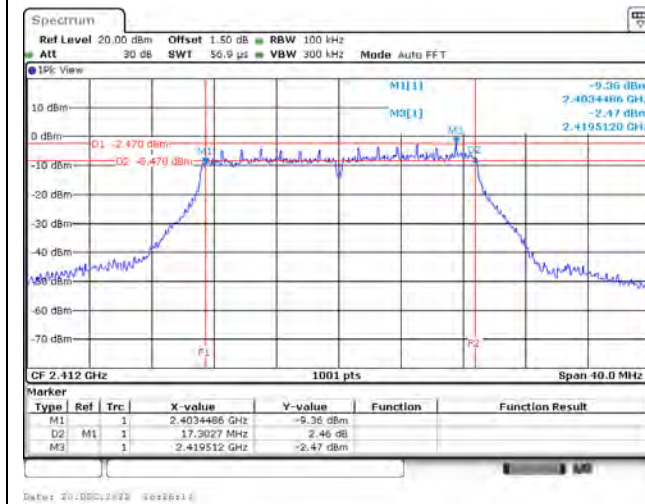
802.11b / 2462 MHz



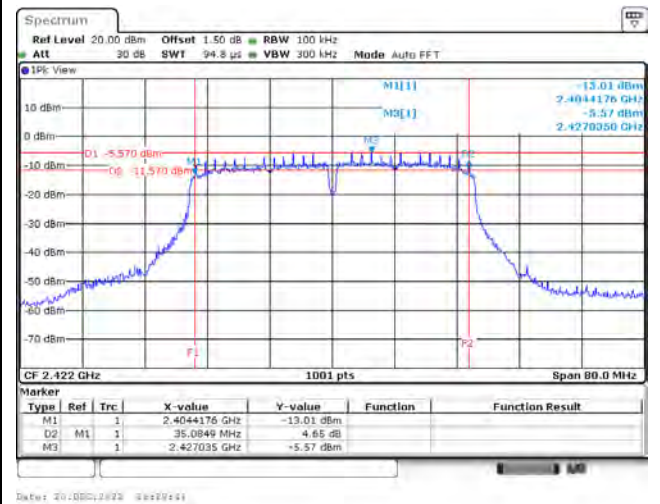
802.11g / 2412 MHz



802.11n (20 MHz) / 2412 MHz

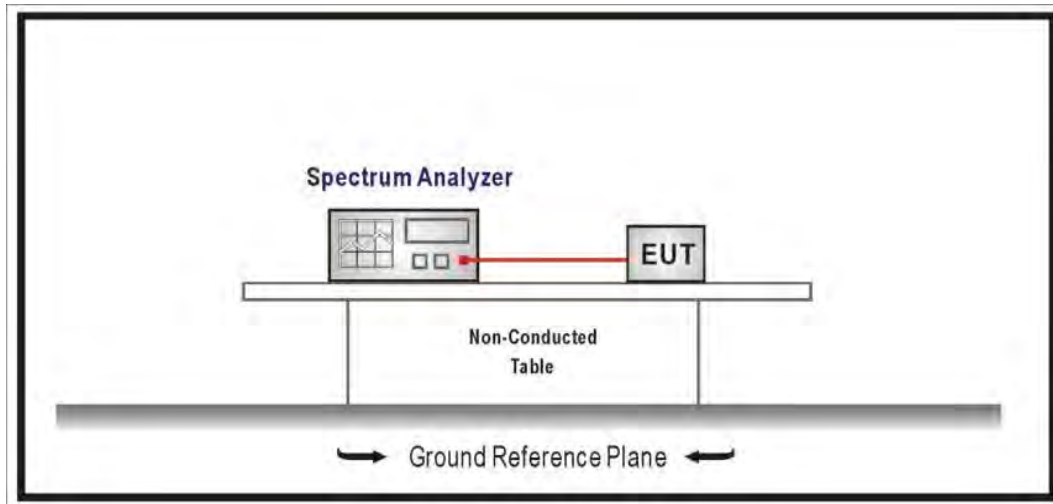


802.11n (40 MHz) / 2422 MHz



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 / RSS-247 Issue 2 requirements.

8.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247 / IC RSS-247 Issue 2.

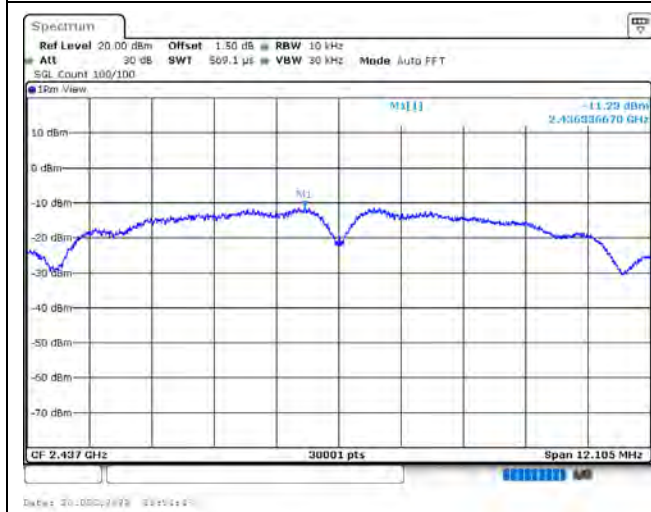
8.5. Test Result of Maximum Power Spectral Density

Modulation	Channel	Frequency (MHz)	Power Spectral Density (dBm / 3kHz)		Limit (dBm / 3kHz)	Result
			Ant. 0	Total		
802.11b	1	2412	-12.080	-11.965	≤ 8.00	Pass
	6	2437	-11.230	-11.115	≤ 8.00	Pass
	11	2462	-11.940	-11.825	≤ 8.00	Pass
802.11g	1	2412	-18.710	-18.100	≤ 8.00	Pass
	6	2437	-19.530	-18.920	≤ 8.00	Pass
	11	2462	-20.180	-19.570	≤ 8.00	Pass
802.11n (20 MHz)	1	2412	-20.930	-20.280	≤ 8.00	Pass
	6	2437	-21.660	-21.010	≤ 8.00	Pass
	11	2462	-22.310	-21.660	≤ 8.00	Pass
802.11n (40 MHz)	3	2422	-23.470	-22.247	≤ 8.00	Pass
	6	2437	-24.360	-23.137	≤ 8.00	Pass
	9	2452	-23.490	-22.267	≤ 8.00	Pass

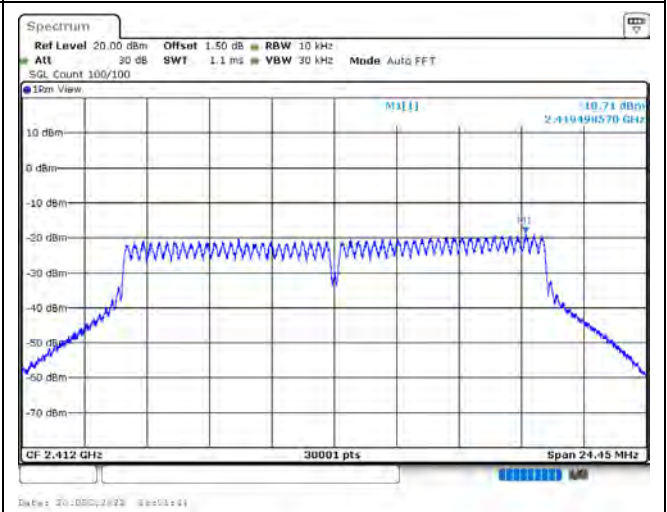
Note: Total power spectral density = power spectral density + duty factor, and the duty factor refer to section 1.10.

Spectrum plot of worst value

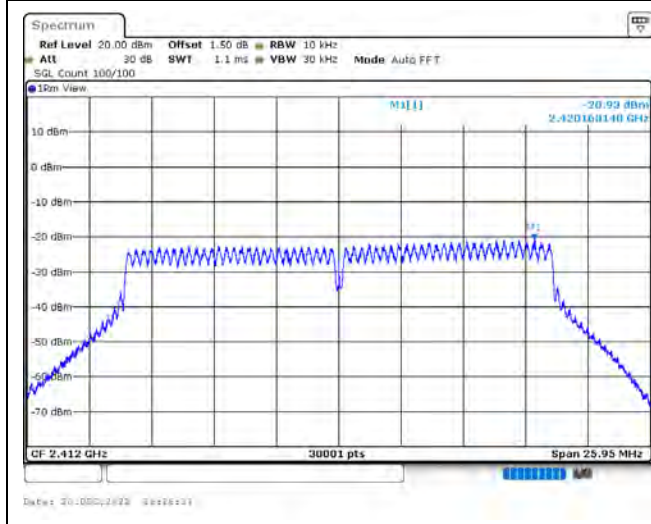
802.11b / 2437 MHz



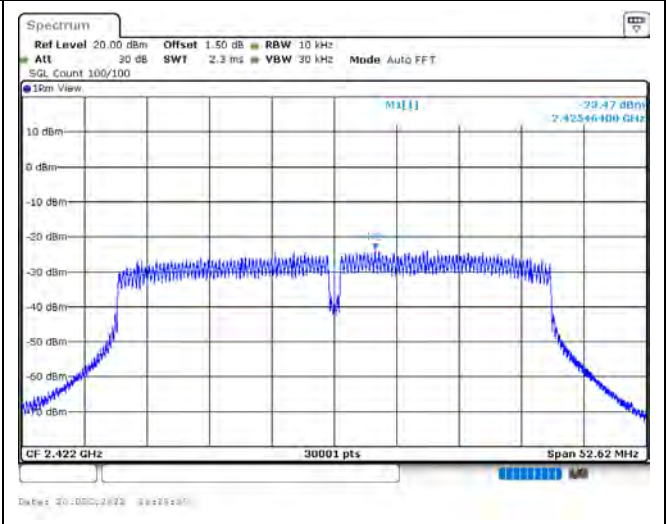
802.11g / 2412 MHz



802.11n (20 MHz) / 2412 MHz



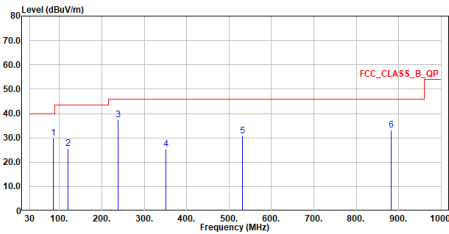
802.11n (40 MHz) / 2422 MHz



Appendix A

➤ Test Result of Radiated Emissions Co-location WWAN LTE Cat-M1 + WiFi 2.4GHz function 30 MHz ~ 1 GHz:

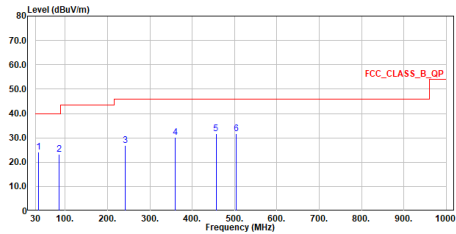
Site :HC-CB02
Condition :3m Horizontal
Mode :LF_Cat-M1+WiFi 2.4G
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	84.514	29.86	40.00	-10.14	37.41	-7.55	Peak
2	119.968	25.57	43.50	-17.93	30.29	-4.72	Peak
3	237.823	37.36	46.00	-8.64	41.51	-4.15	Peak
4	351.070	25.41	46.00	-20.59	25.96	-0.55	Peak
5	531.393	30.93	46.00	-15.07	26.85	4.08	Peak
6	881.709	33.21	46.00	-12.79	23.35	9.86	Peak

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_Cat-M1+WiFi 2.4G
Test by :Ling

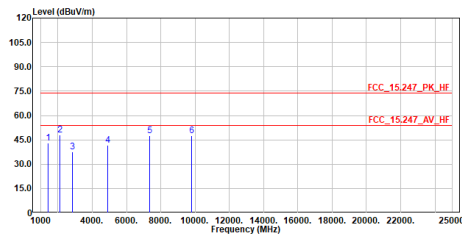


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	36.839	24.02	40.00	-15.98	26.54	-2.52	Peak
2	85.387	23.16	40.00	-16.84	30.85	-7.69	Peak
3	242.091	26.98	46.00	-19.02	30.90	-3.92	Peak
4	359.994	30.21	46.00	-15.79	30.54	-0.33	Peak
5	456.024	31.67	46.00	-14.33	29.08	2.59	Peak
6	503.991	31.77	46.00	-14.23	28.36	3.41	Peak

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.

Above 1 GHz:

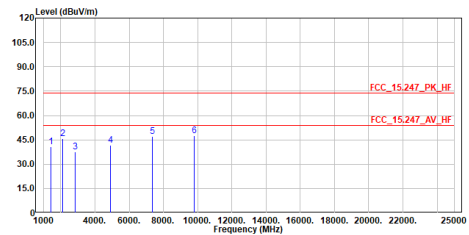
Site :HC-CB02
Condition :3m Horizontal
Mode :Cat-M1+WiFi 2.4G
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	1415.000	43.12	74.00	-30.88	69.34	-26.22	Peak
2	2122.500	47.96	74.00	-26.04	71.03	-23.07	Peak
3	2830.000	37.77	74.00	-36.23	57.83	-20.06	Peak
4	4904.000	41.75	74.00	-32.25	54.04	-12.29	Peak
5	7356.000	47.45	74.00	-26.55	53.16	-5.71	Peak
6	9808.000	47.61	74.00	-26.39	50.47	-2.86	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 :Cat-M1+WiFi 2.4G
Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	1415.000	40.74	74.00	-33.26	66.96	-26.22	Peak
2	2122.500	45.69	74.00	-28.31	68.76	-23.07	Peak
3	2830.000	37.81	74.00	-36.19	57.87	-20.06	Peak
4	4904.000	41.44	74.00	-32.56	53.73	-12.29	Peak
5	7356.000	47.22	74.00	-26.78	52.93	-5.71	Peak
6	9808.000	47.60	74.00	-26.40	50.46	-2.86	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.