FCC RADIO TEST REPORT

FCC ID	:	2AEM4-17731221
Equipment	:	Wireless Router
Brand Name	:	eero
Model Name	:	ME10001
Applicant	:	eero LLC 660 3rd St Fl 4, San Francisco, California, 94107, United States
Manufacturer	:	eero LLC 660 3rd St Fl 4, San Francisco, California, 94107, United States
Standard	:	FCC Part 15 Subpart C §15.247

The product was received on Aug. 23, 2024 and testing was performed from Aug. 28, 2024 to Nov. 08, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FR480504C	01	Initial issue of report	Nov. 21, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.247(b)(3) 15.247(b)(4)	Output Power	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	Pass	2.10 dB under the limit at 2483.56 MHz
3.6	15.207	AC Conducted Emission	Pass	17.09 dB under the limit at 0.16 MHz
3.7	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Avis Chuang

Report Producer: Michelle Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth-LE, IEEE 802.15.4, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax/be, Wi-Fi 5GHz 802.11a/n/ac/ax/be and Wi-Fi 6GHz 802.11ax/be. **Antenna Type** WLAN: **<For WLAN (2.4GHz) and WLAN (5GHz)>:** **<Ant. 1>:** Dipole Antenna **<Ant. 3>:** Dipole Antenna **<<For WLAN (6GHz)>:** **<Ant. 2>:** Dipole Antenna **<Ant. 4>:** Dipole Antenna Bluetooth-LE: Dipole Antenna IEEE 802.15.4: Dipole Antenna

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	4.57

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, CO07-HY, 03CH15-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01
- ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	11	2405	19	2445
	12	2410	20	2450
	13	2415	21	2455
	14	2420	22	2460
	15	2425	23	2465
	16	2430	24	2470
	17	2435	25	2475
	18	2440	26	2480

2.2 Test Mode

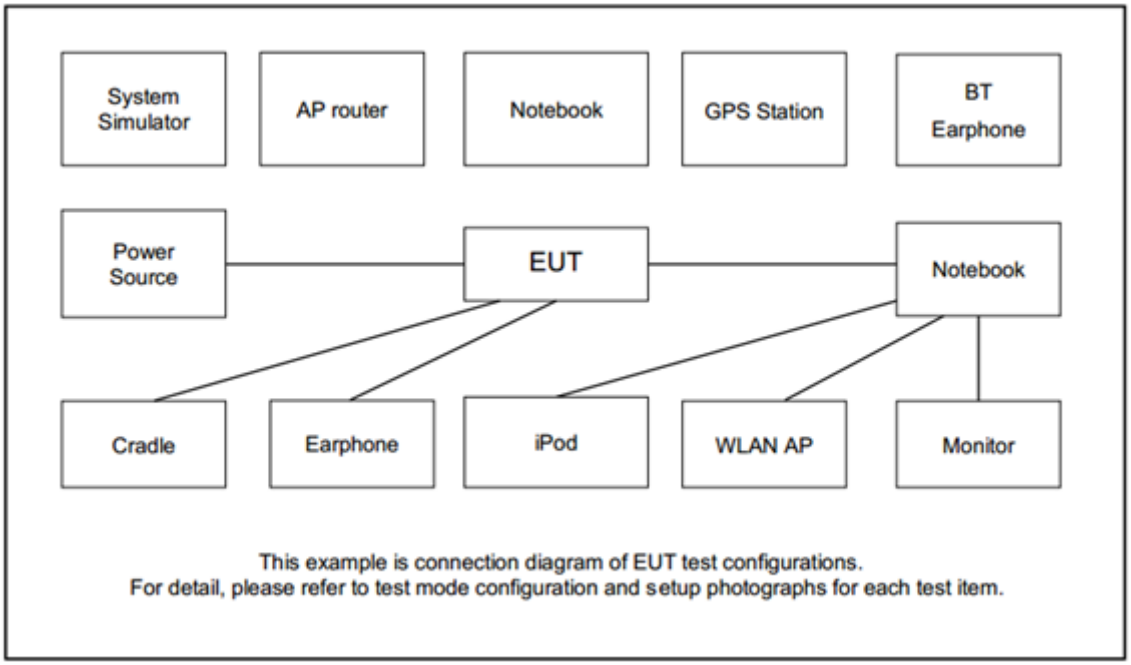
a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

b. AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Summary table of Test Cases	
Test Item	**Data Rate / Modulation**
Conducted Test Cases	**Bluetooth – LE / GFSK**
	Mode 1: IEEE 802.15.4 Tx CH11_2405 MHz Mode 2: IEEE 802.15.4 Tx CH18_2440 MHz Mode 3: IEEE 802.15.4 Tx CH25_2475 MHz Mode 4: IEEE 802.15.4 Tx CH26_2480 MHz
Radiated Test Cases	Mode 1: IEEE 802.15.4 Tx CH11_2405 MHz Mode 2: IEEE 802.15.4 Tx CH18_2440 MHz Mode 3: IEEE 802.15.4 Tx CH25_2475 MHz Mode 4: IEEE 802.15.4 Tx CH26_2480 MHz
AC Conducted Emission	Mode 1 :Bluetooth Tx - LE 1Mbps + LAN Link + AC Adapter (Luxshare_45W_Type A plug) (C310011) Mode 2 :IEEE 802.15.4 Tx + LAN Link + AC Adapter (Luxshare_45W_Type A plug) (C310011) Mode 3 :11be Tx (EHT20) + LAN Link + AC Adapter (Luxshare_45W_Type A plug) (C310011)
Remark: 1. The worst case of Conducted Emission is mode 3; only the test data of it was reported. 2. For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.	

2.3 Connection Diagram of Test System



2.4 Support Unit used in Test Configuration and System

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	Latitude 3420	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “RadioControlConsole.exe (v4.0.0.0)” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

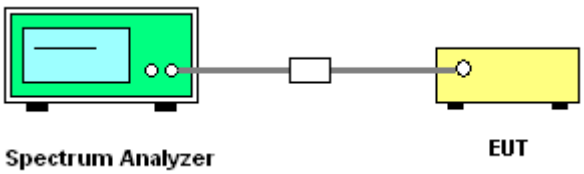
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna of directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

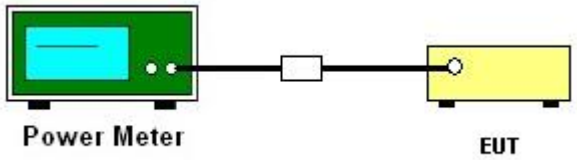
3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT is connected to the power meter by RF cable and attenuator.
3. The path loss is compensated to the results for each measurement.
4. Set the maximum power setting and enable the EUT to transmit continuously.
5. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

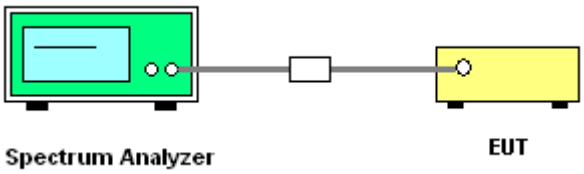
3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth (VBW) = 10 kHz. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6 dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100 kHz is a reference level and is used as 20 dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 30 dB down from the highest emission level within the authorized band.

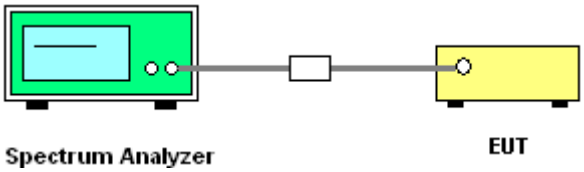
3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedure

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW = 300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges Plots

Please refer to Appendix A.

3.4.6 Test Result of Conducted Spurious Emission Plots

Please refer to Appendix A.

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".
8. Use the following spectrum analyzer settings:

   For average measurement:

   The procedure for method trace averaging is as follows:

   a) RBW = 1 MHz.
   b) VBW ≥ [3 × RBW].
   c) Detector = RMS (power averaging), if [span / (# of points in sweep)] ≤ RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
   d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging.
   e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / *D*, where *D* is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

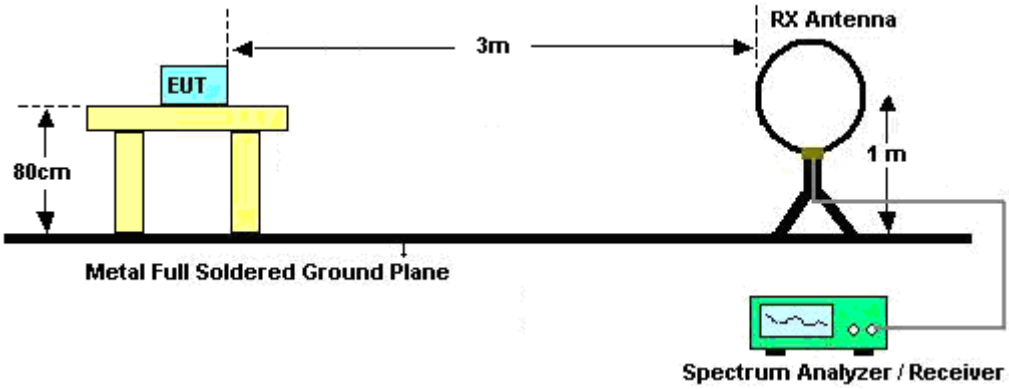
g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

   i. If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / *D*)], where *D* is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

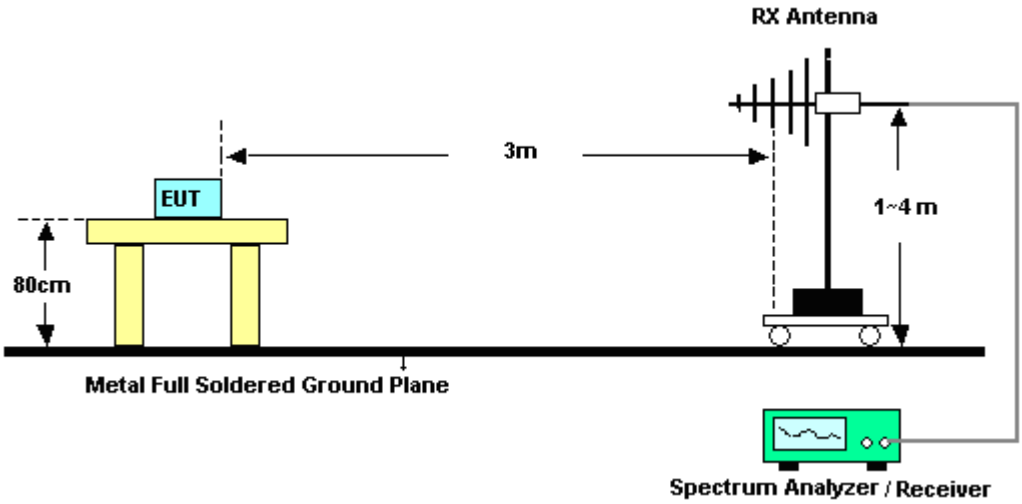
   ii. If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

3.5.4 Test Setup

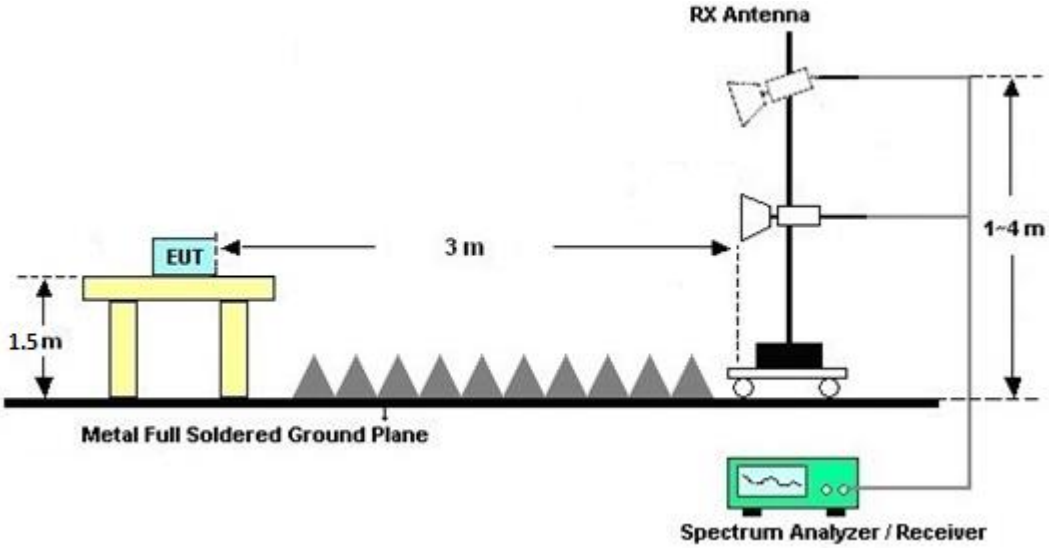
For radiated test below 30MHz



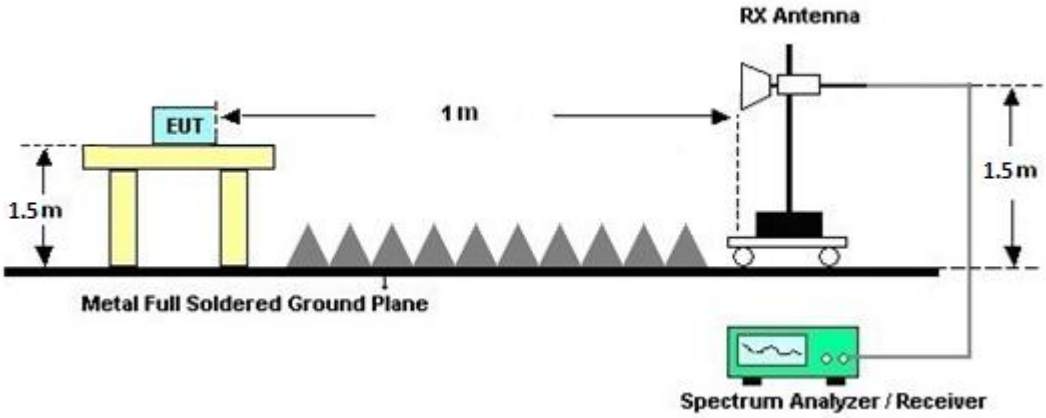
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30 MHz ~ 10th Harmonic)

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

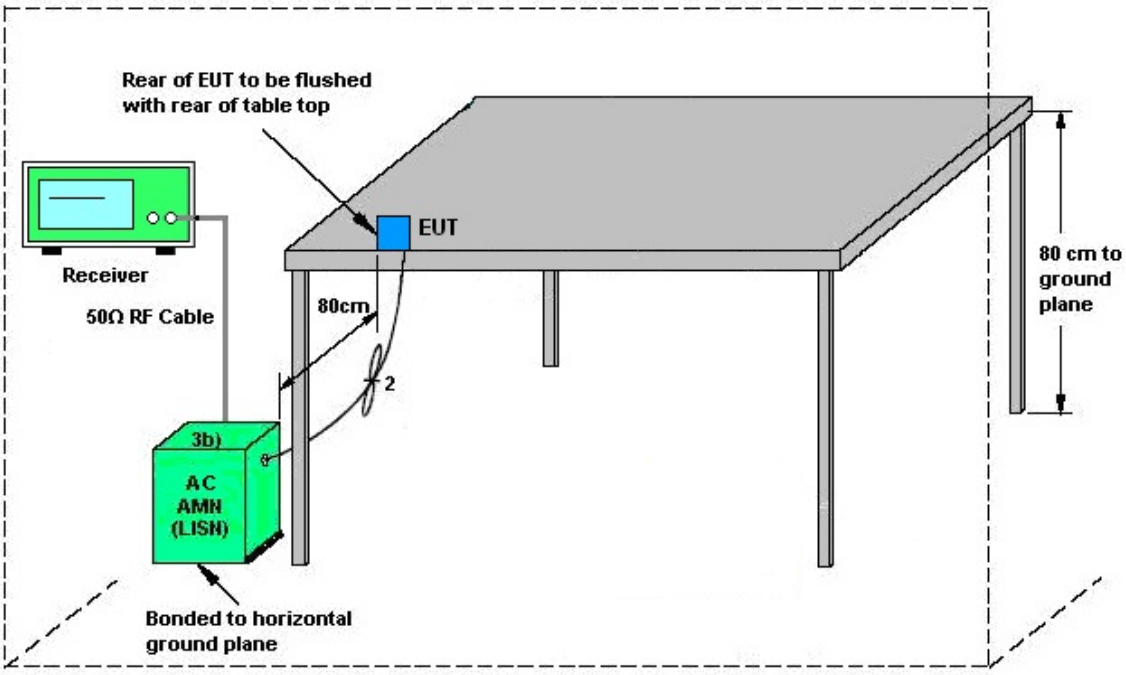
3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.6.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.7.2 Antenna Anti-Replacement Construction

Unique (non-standard) antenna connector.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Oct. 29, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Oct. 29, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 23, 2024	Oct. 29, 2024	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Oct. 29, 2024	Mar. 13, 2025	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Oct. 29, 2024	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Oct. 29, 2024	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Oct. 29, 2024	Sep. 22, 2025	Conduction (CO07-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Sep. 30, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Nov. 08, 2024	Oct. 31, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO10 (NO:248)	10MHz~6GHz	Jan. 10, 2024	Sep. 30, 2024~ Nov. 08, 2024	Jan. 09, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2024	Sep. 30, 2024~ Nov. 08, 2024	Aug. 22, 2025	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Sep. 30, 2024~ Nov. 08, 2024	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240821	N/A	Conducted Other Test Item	N/A	Sep. 30, 2024~ Nov. 08, 2024	N/A	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 23, 2024	Aug. 28, 2024~ Oct. 30, 2024	Feb. 22, 2025	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	41912 & 05	30MHz~1GHz	Feb. 04, 2024	Aug. 28, 2024~ Oct. 30, 2024	Feb. 03, 2025	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 20, 2024	Aug. 28, 2024~ Oct. 30, 2024	Jun. 19, 2025	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	00993	18GHz~40GHz	Nov. 24, 2023	Aug. 28, 2024~ Oct. 30, 2024	Nov. 23, 2024	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 25, 2023	Aug. 28, 2024~ Oct. 30, 2024	Dec. 24, 2024	Radiation (03CH15-HY)
Preamplifier	EMEC	EM01G18G	060837	1GHz~18GHz	Feb. 15, 2024	Aug. 28, 2024~ Oct. 30, 2024	Feb. 14, 2025	Radiation (03CH15-HY)
Preamplifier	EM Electronics	EM01G18G	060802	1GHz~18GHz	Feb. 29, 2024	Aug. 28, 2024~ Oct. 30, 2024	Feb. 28, 2025	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 27, 2024	Aug. 28, 2024~ Oct. 30, 2024	May 26, 2025	Radiation (03CH15-HY)
Spectrum Analyzer	Keysight	N9010B	MY60241058	10Hz~44GHz	Jul. 11, 2024	Aug. 28, 2024~ Oct. 30, 2024	Jul. 10, 2025	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Aug. 28, 2024~ Oct. 30, 2024	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Aug. 28, 2024~ Oct. 30, 2024	N/A	Radiation (03CH15-HY)
Software	Audix	E3_V9_230621	RK-002394	N/A	N/A	Aug. 28, 2024~ Oct. 30, 2024	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY582185/4,519228/2,803950/2	N/A	Jun. 11, 2024	Aug. 28, 2024~ Oct. 30, 2024	Jun. 10, 2025	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804012/2	18-40G	Jan. 02, 2024	Aug. 28, 2024~ Oct. 30, 2024	Jan. 01, 2025	Radiation (03CH15-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN6	3GHz High Pass Filter	Jun. 05, 2024	Aug. 28, 2024~ Oct. 30, 2024	Jun. 04, 2025	Radiation (03CH15-HY)
Hygrometer	TECPEL	DTM-302	SN4	N/A	Aug. 29, 2024	Aug. 28, 2024~ Oct. 30, 2024	Aug. 28, 2025	Radiation (03CH15-HY)

5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.44 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.30 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.50 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.50 dB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.40 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Sylvia Li	Temperature:	21~25	°C
Test Date:	2024/9/30~2024/11/08	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
802.15.4	250K	1	11	2405	2.210	1.544	0.50	Pass
802.15.4	250K	1	18	2440	2.215	1.569	0.50	Pass
802.15.4	250K	1	25	2475	2.214	1.558	0.50	Pass
802.15.4	250K	1	26	2480	2.207	1.545	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
802.15.4	250K	1	11	2405	18.10	30.00	4.57	22.67	36.00	Pass
802.15.4	250K	1	18	2440	17.90	30.00	4.57	22.47	36.00	Pass
802.15.4	250K	1	25	2475	18.00	30.00	4.57	22.57	36.00	Pass
802.15.4	250K	1	26	2480	8.70	30.00	4.57	13.27	36.00	Pass

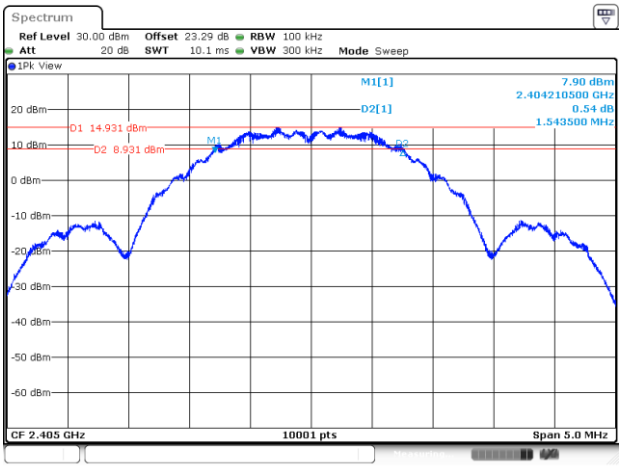
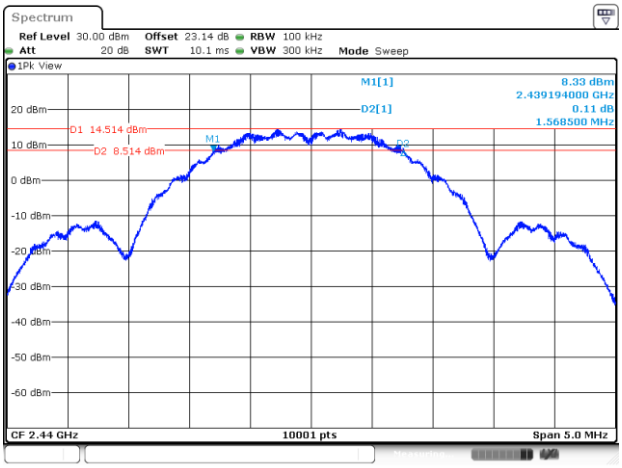
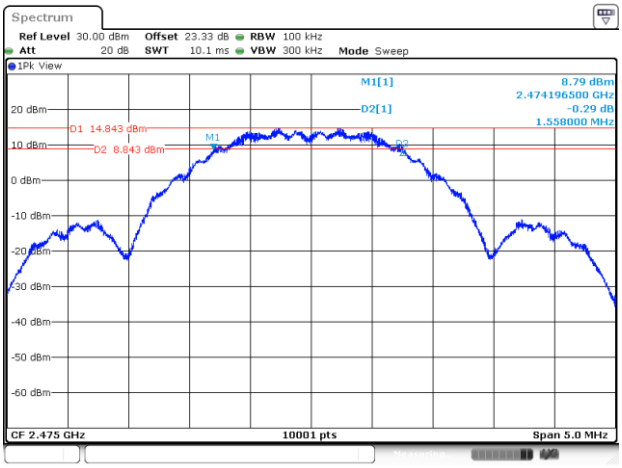
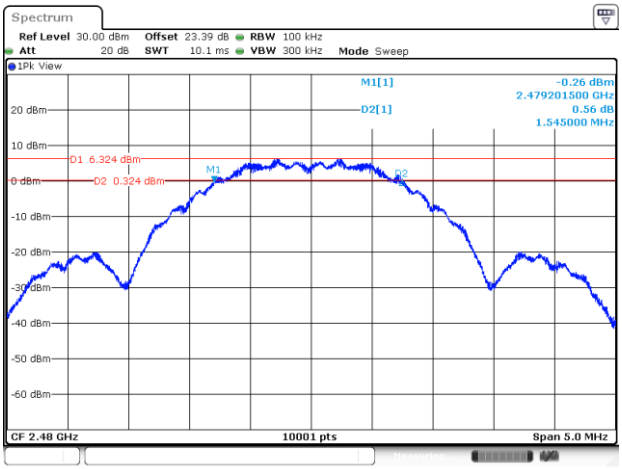
TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
802.15.4	250K	1	11	2405	14.96	3.38	4.57	8.00	Pass
802.15.4	250K	1	18	2440	14.54	3.58	4.57	8.00	Pass
802.15.4	250K	1	25	2475	14.93	3.02	4.57	8.00	Pass
802.15.4	250K	1	26	2480	6.39	-5.52	4.57	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

6dB Bandwidth

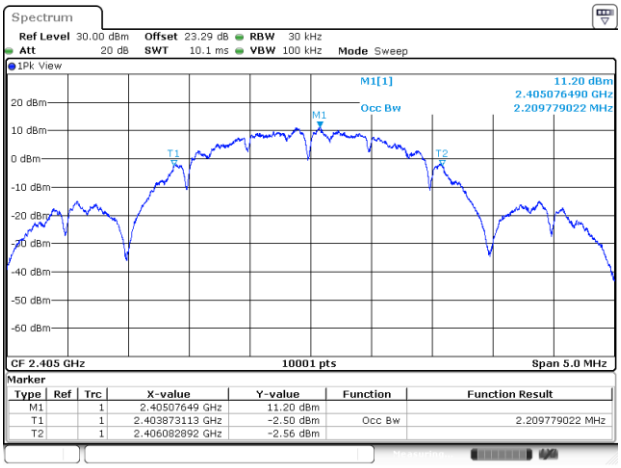
<802.15.4>

6 dB Bandwidth Plot on Channel 11	6 dB Bandwidth Plot on Channel 18
	
6 dB Bandwidth Plot on Channel 25	**6 dB Bandwidth Plot on Channel 26**
	

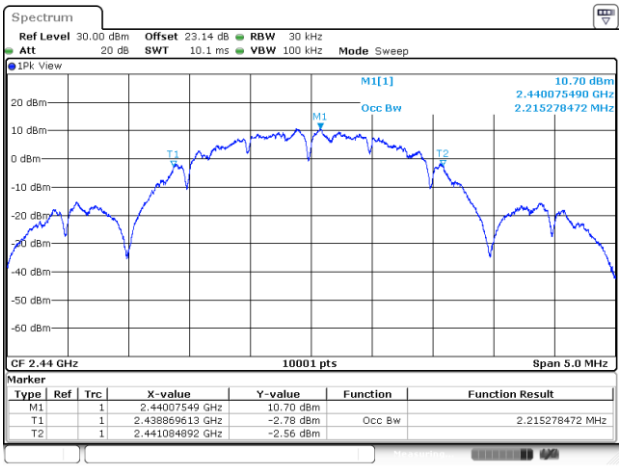
99% Occupied Bandwidth

<802.15.4>

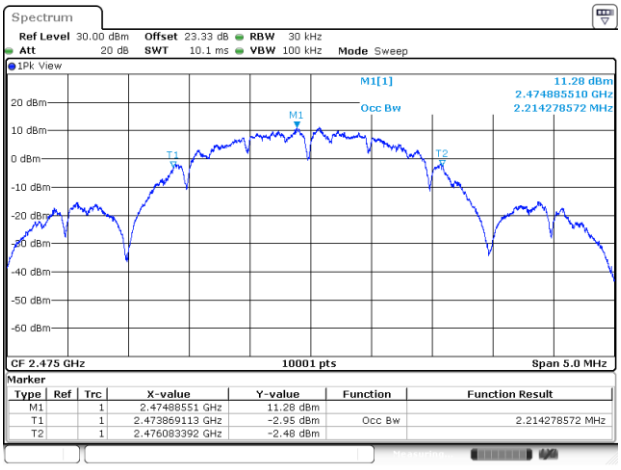
99% Occupied Bandwidth Plot on Channel 11



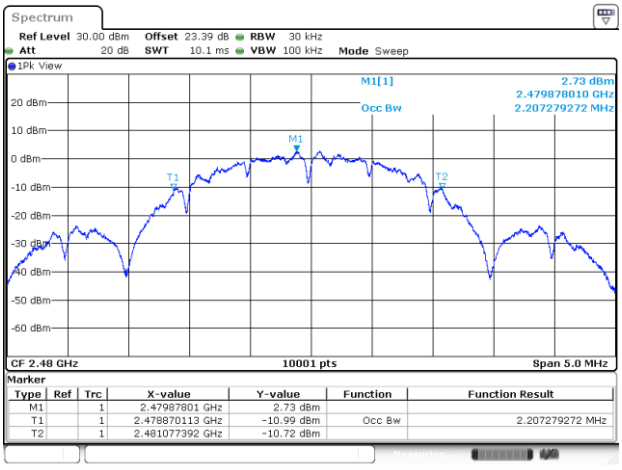
99% Occupied Bandwidth Plot on Channel 18



99% Occupied Bandwidth Plot on Channel 25

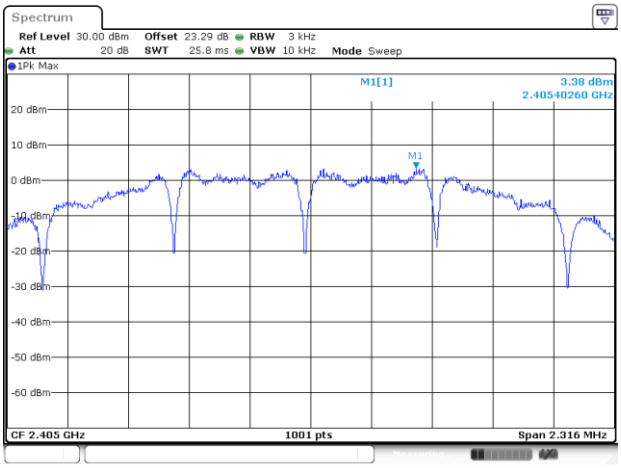
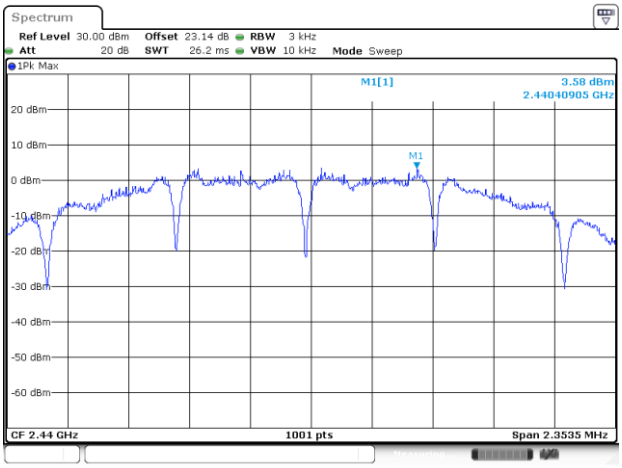
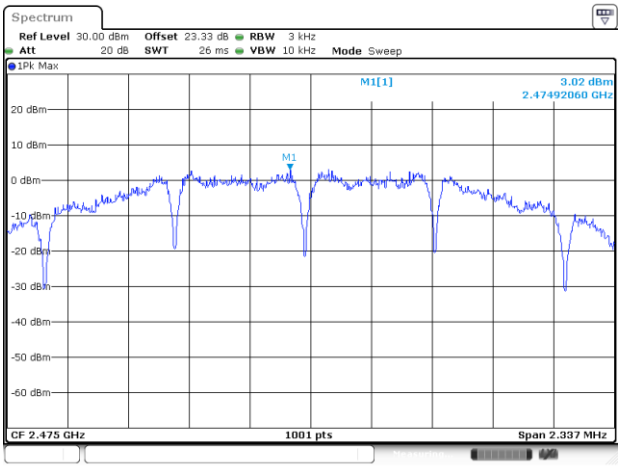
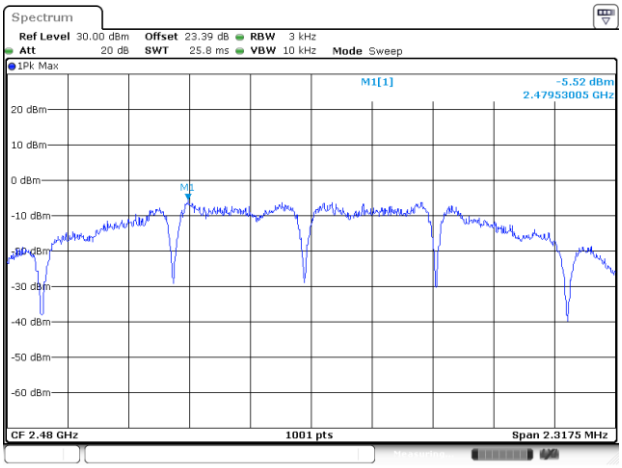


99% Occupied Bandwidth Plot on Channel 26



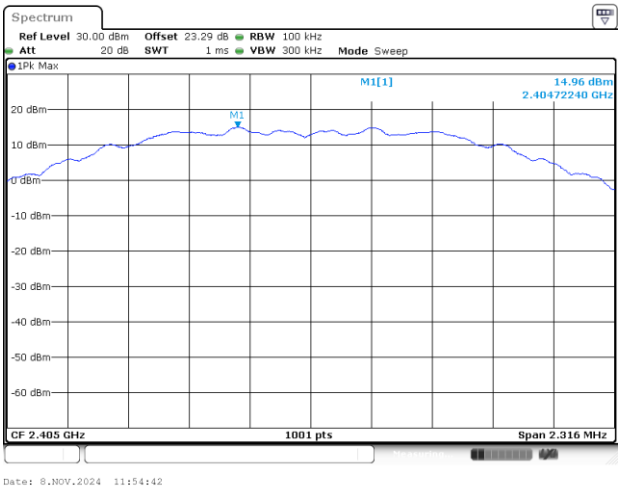
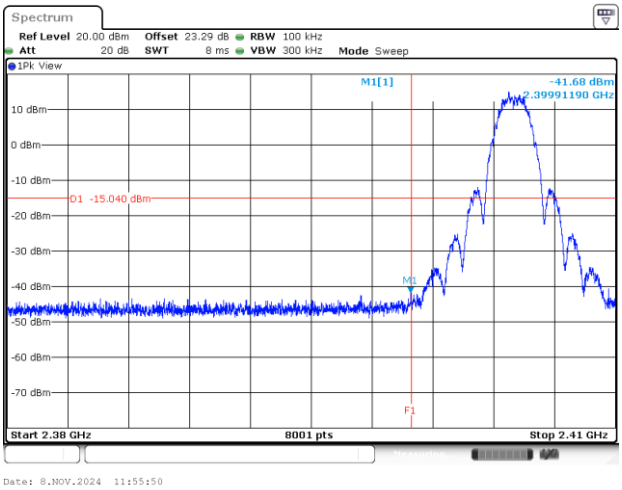
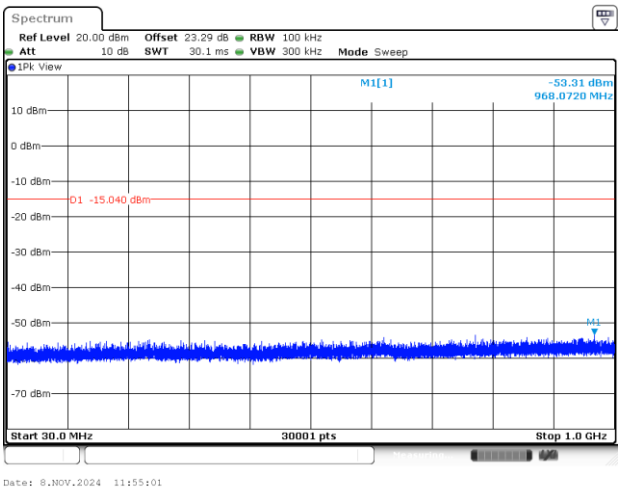
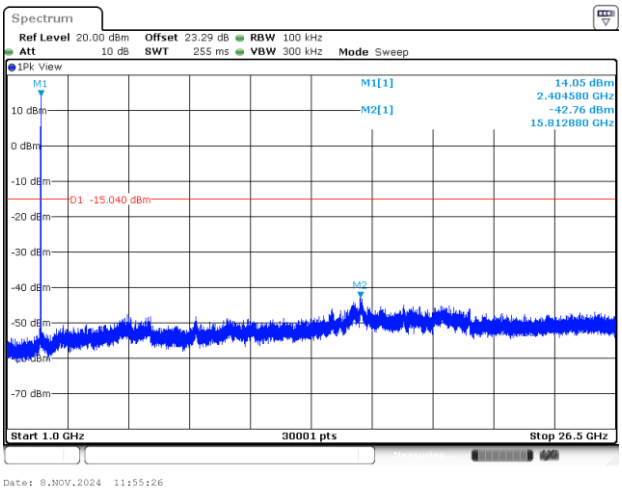
Power Spectral Density (dBm/3kHz)

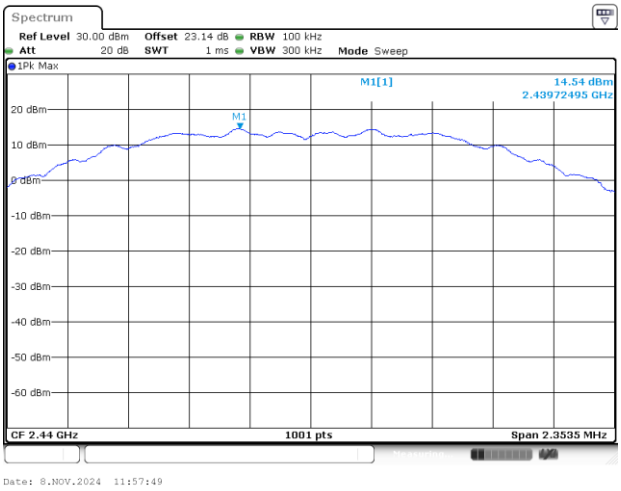
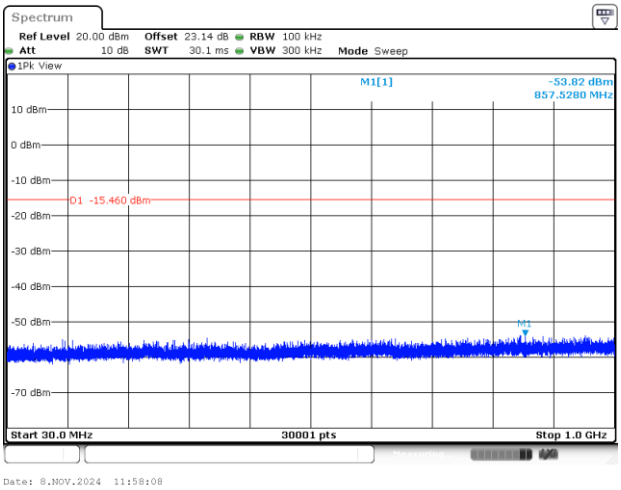
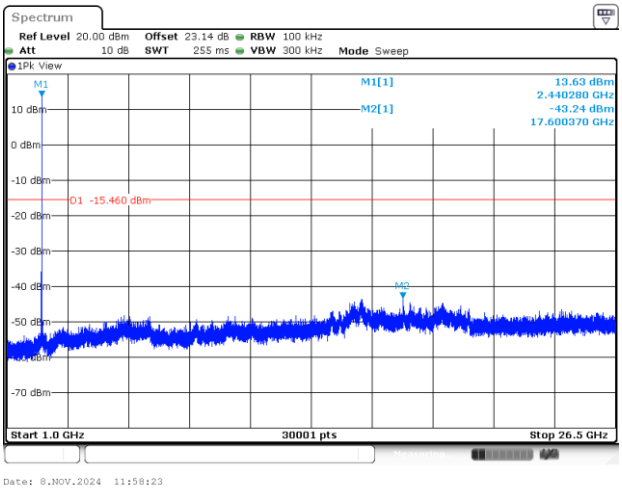
<802.15.4>

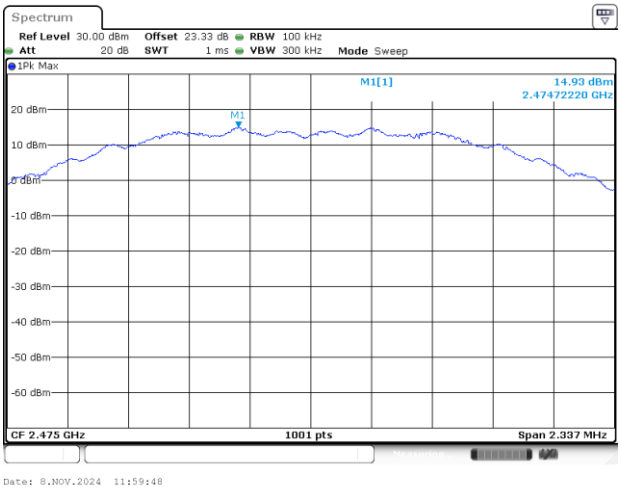
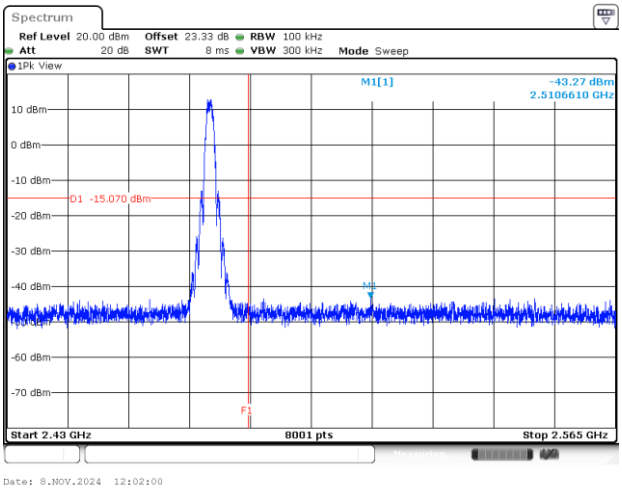
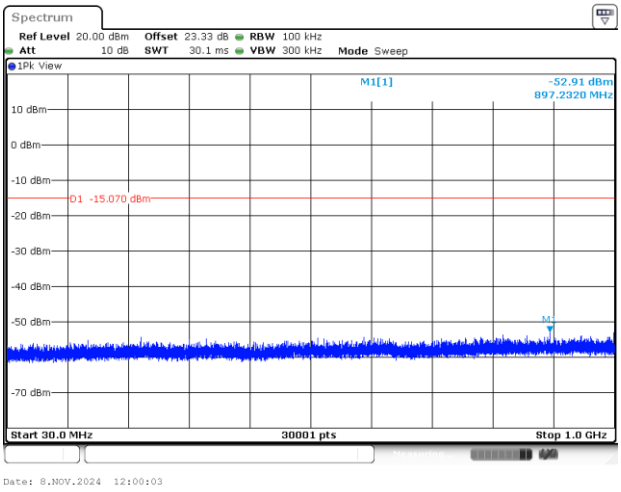
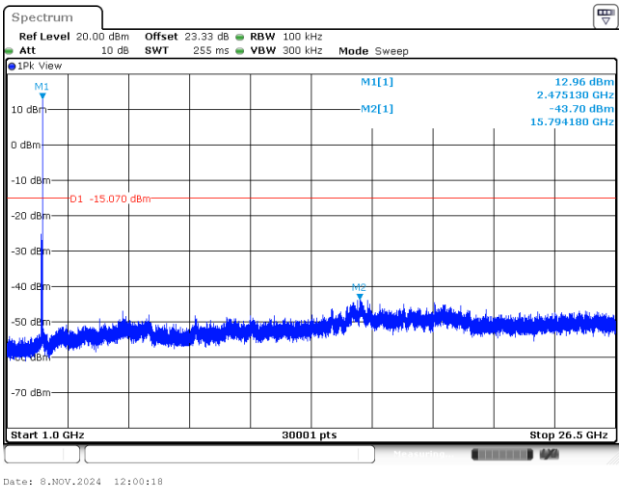
Power Density (dBm/3kHz) Plot Channel 11	Power Density (dBm/3kHz) Plot Channel 18
	
Power Density (dBm/3kHz) Plot Channel 25	**Power Density (dBm/3kHz) Plot Channel 26**
	

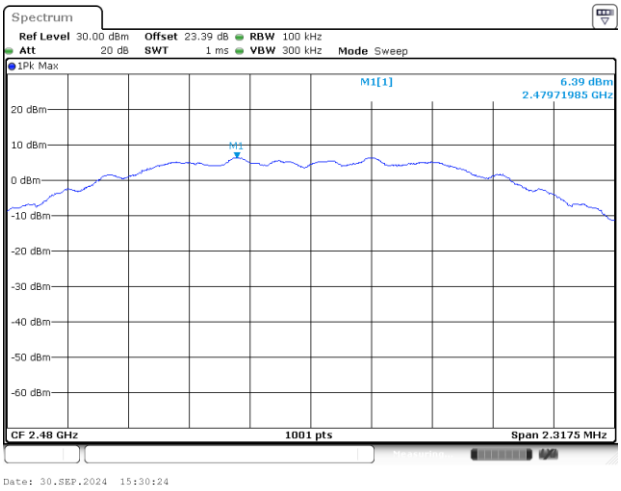
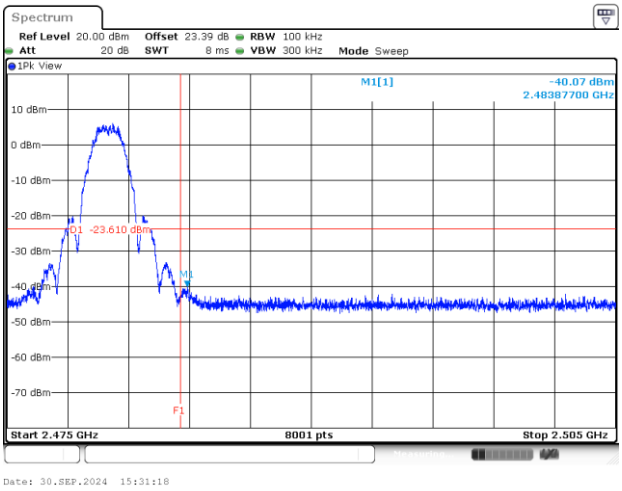
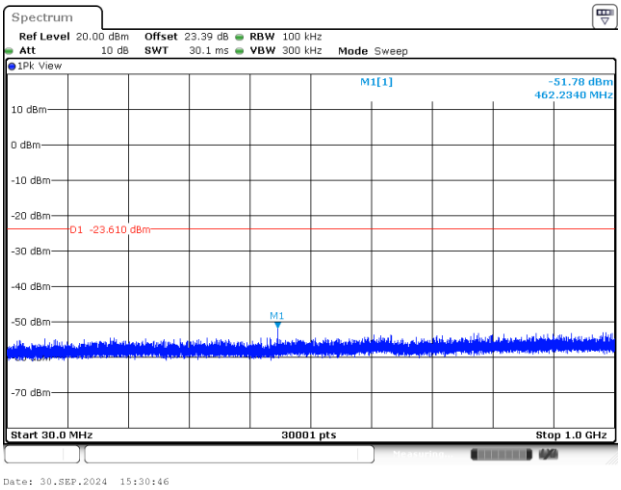
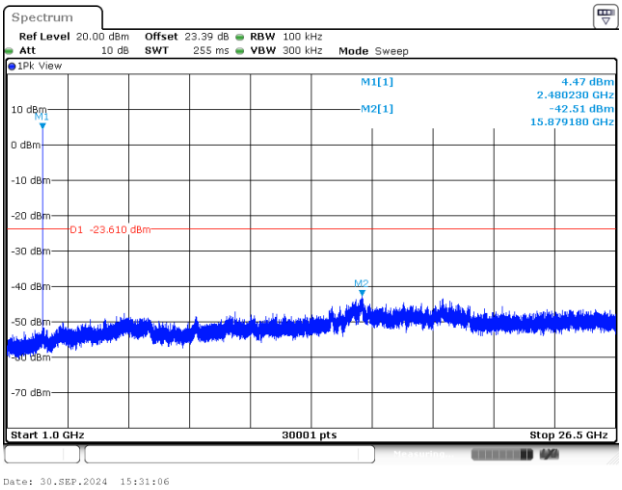
Band Edge and Conducted Spurious Emission

<802.15.4>

Channel 11	
100kHz PSD reference Level Plot	**Low Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

Channel 18	
100kHz PSD reference Level Plot	**Low Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

Channel 25	
100kHz PSD reference Level Plot	**Low Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

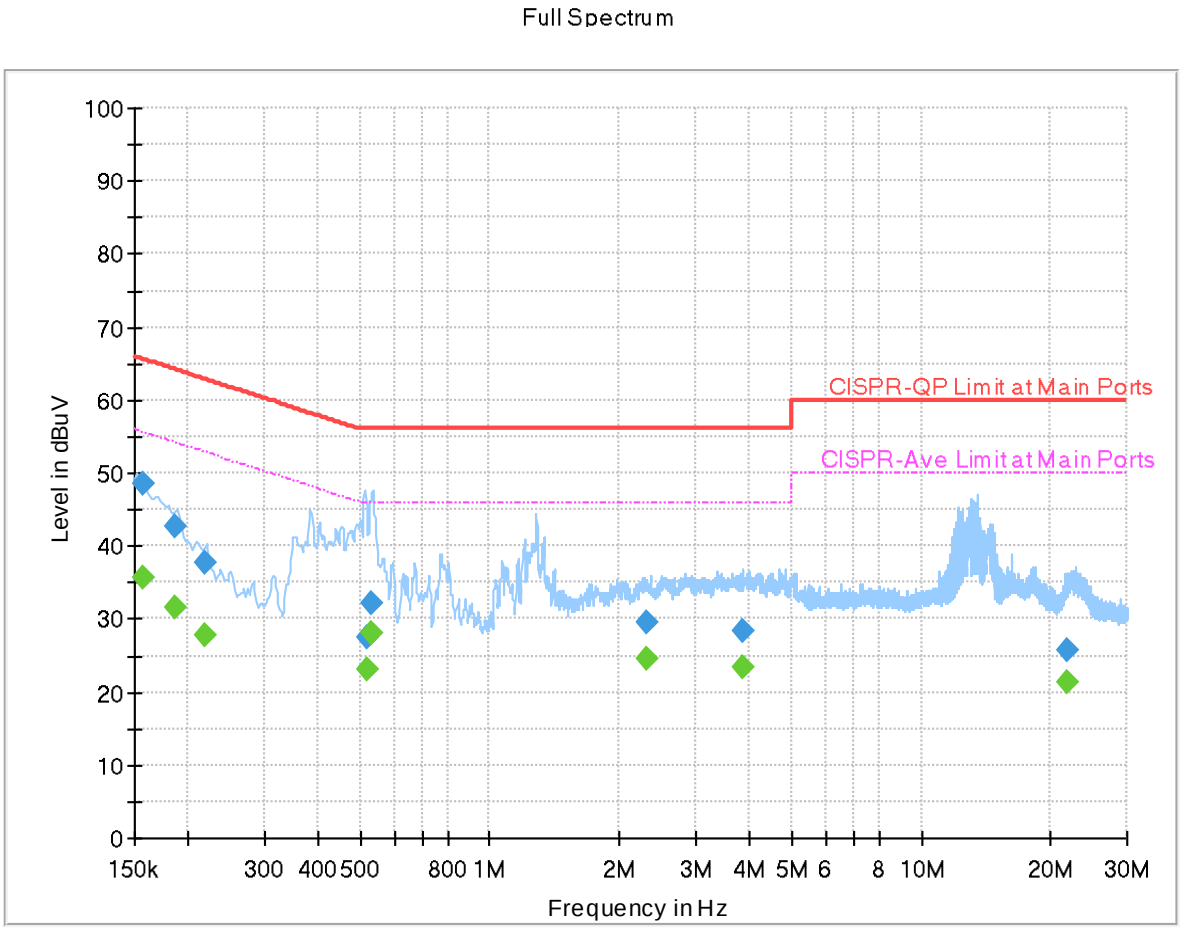
Channel 26	
100kHz PSD reference Level Plot	**Low Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	**Temperature :**	21.2~24.7℃
		Relative Humidity :	45.7~51.3%

EUT Information

Report NO :	480504
Test Mode :	Mode 3
Test Voltage :	120Vac/60Hz
Phase :	Line

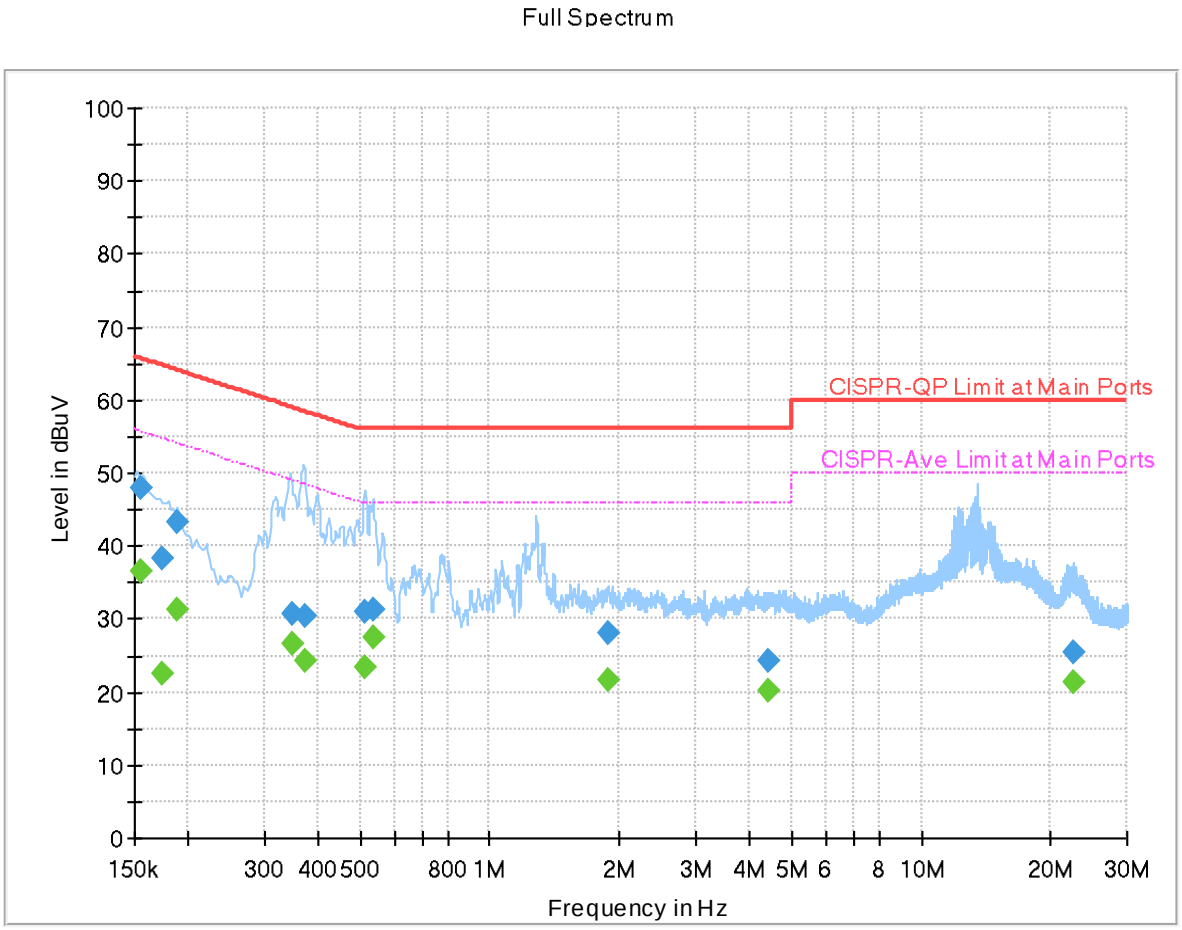


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.156390	---	35.55	55.65	20.10	L1	FLO	19.9
0.156390	48.56	---	65.65	17.09	L1	FLO	19.9
0.186630	---	31.72	54.19	22.47	L1	FLO	19.9
0.186630	42.55	---	64.19	21.64	L1	FLO	19.9
0.219120	---	27.67	52.85	25.18	L1	FLO	19.9
0.219120	37.67	---	62.85	25.18	L1	FLO	19.9
0.516750	---	23.14	46.00	22.86	L1	FLO	19.9
0.516750	27.53	---	56.00	28.47	L1	FLO	19.9
0.532770	---	28.10	46.00	17.90	L1	FLO	19.9
0.532770	32.19	---	56.00	23.81	L1	FLO	19.9
2.322600	---	24.46	46.00	21.54	L1	FLO	20.0
2.322600	29.64	---	56.00	26.36	L1	FLO	20.0
3.869250	---	23.40	46.00	22.60	L1	FLO	20.0
3.869250	28.31	---	56.00	27.69	L1	FLO	20.0
21.864570	---	21.28	50.00	28.72	L1	FLO	20.2
21.864570	25.70	---	60.00	34.30	L1	FLO	20.2

EUT Information

Report NO :	480504
Test Mode :	Mode 3
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.154500	---	36.53	55.75	19.22	N	FLO	20.0
0.154500	48.08	---	65.75	17.67	N	FLO	20.0
0.174750	---	22.42	54.73	32.31	N	FLO	19.9
0.174750	38.22	---	64.73	26.51	N	FLO	19.9
0.188430	---	31.37	54.11	22.74	N	FLO	19.9
0.188430	43.41	---	64.11	20.70	N	FLO	19.9
0.346740	---	26.47	49.04	22.57	N	FLO	19.9
0.346740	30.64	---	59.04	28.40	N	FLO	19.9
0.373380	---	24.18	48.43	24.25	N	FLO	19.9
0.373380	30.37	---	58.43	28.06	N	FLO	19.9
0.515130	---	23.30	46.00	22.70	N	FLO	19.9
0.515130	31.10	---	56.00	24.90	N	FLO	19.9
0.535380	---	27.47	46.00	18.53	N	FLO	19.9
0.535380	31.25	---	56.00	24.75	N	FLO	19.9
1.890060	---	21.53	46.00	24.47	N	FLO	20.0
1.890060	28.19	---	56.00	27.81	N	FLO	20.0
4.427250	---	20.08	46.00	25.92	N	FLO	20.0
4.427250	24.39	---	56.00	31.61	N	FLO	20.0
22.541730	---	21.29	50.00	28.71	N	FLO	20.2

22.541730	**25.58**	**---**	**60.00**	**34.42**	**N**	**FLO**	**20.2**

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Sam Pan, Quentin Liu and Bigshow Wang	**Temperature :**	21.0~23.2°C
		Relative Humidity :	48.0~58.0%

Note symbol

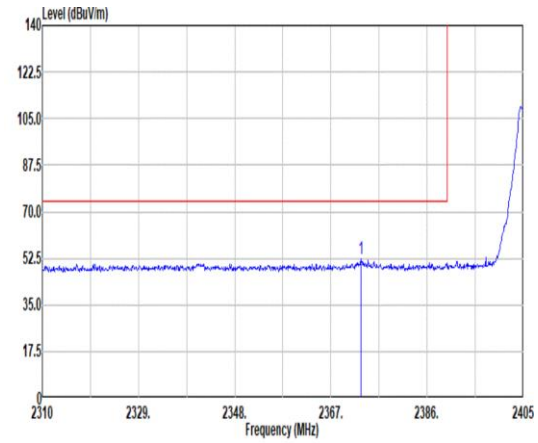
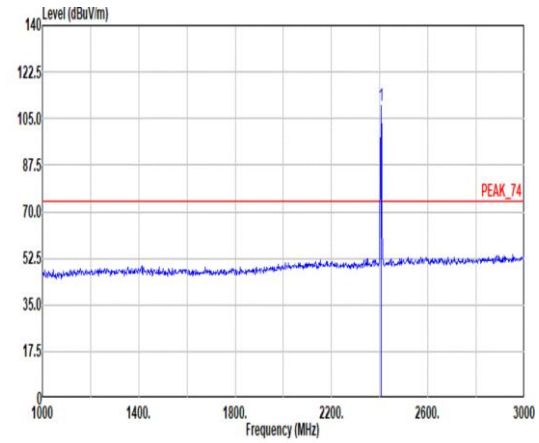
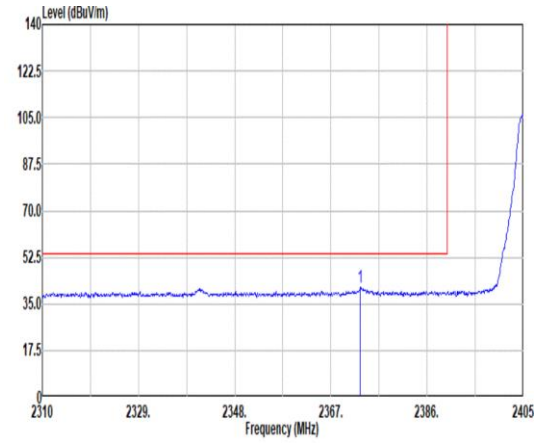
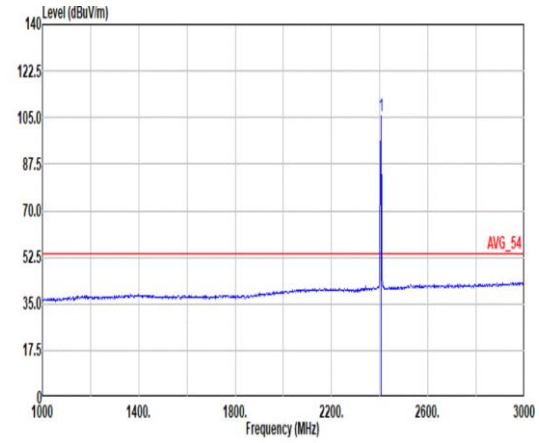
-L	**Low channel location**
-R	**High channel location**

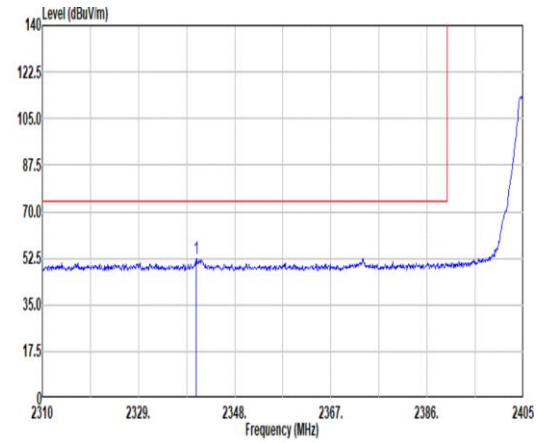
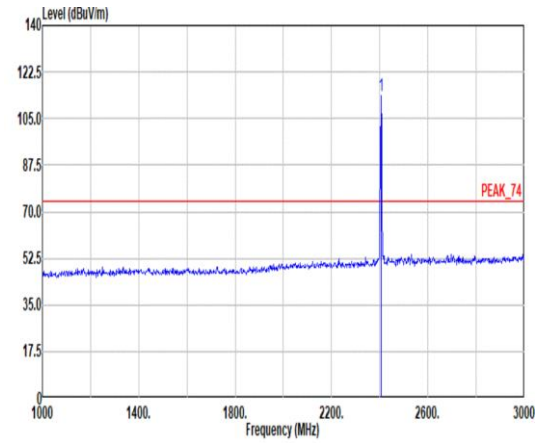
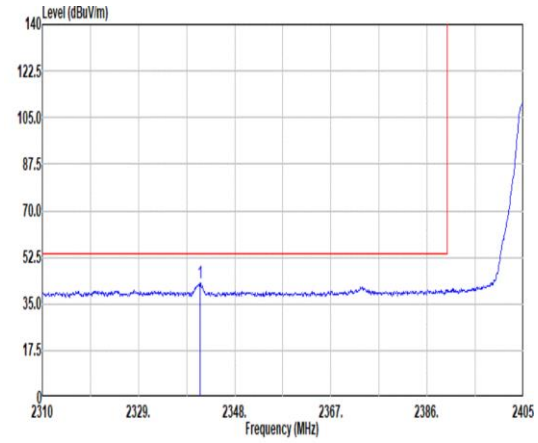
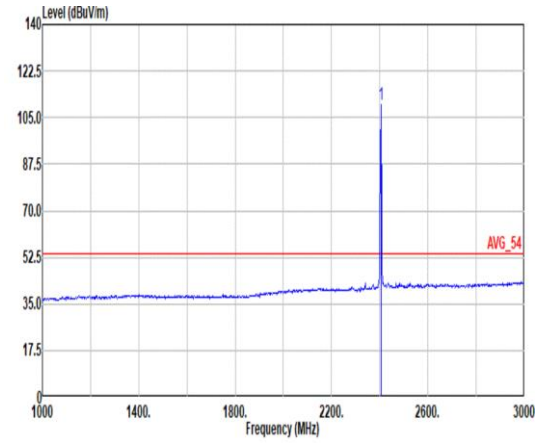
C1. Radiated Spurious Emission Test Modes

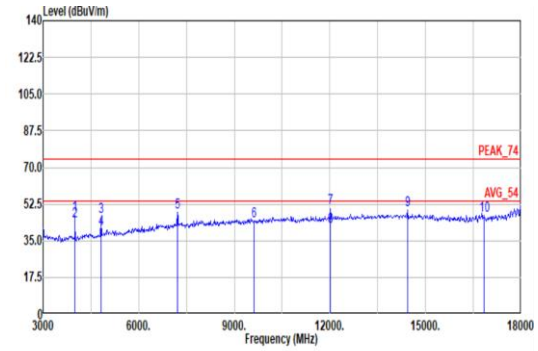
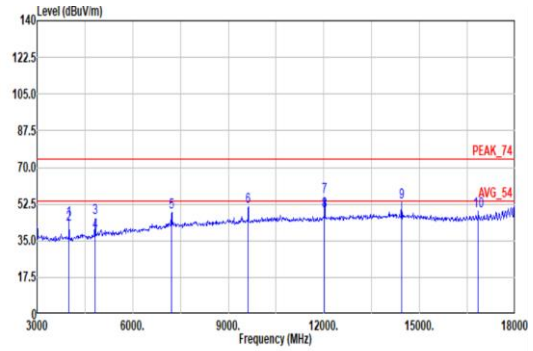
Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	5	IEEE 802.15.4	11	2405	250kbps	-	-
Mode 2	2400-2483.5	5	IEEE 802.15.4	18	2441	250kbps	-	-
Mode 3	2400-2483.5	5	IEEE 802.15.4	25	2475	250kbps	-	-
Mode 4	2400-2483.5	5	IEEE 802.15.4	26	2480	250kbps	-	-
Mode 5	2400-2483.5	5	IEEE 802.15.4	26	2480	250kbps	-	LF
Mode 6	2400-2483.5	5	IEEE 802.15.4	26	2480	250kbps	-	SHF

C2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	IEEE 802.15.4	11	2341.16	42.59	54.00	-11.41	V	Avg.	Pass	-	Band Edge
	IEEE 802.15.4	11	12025.00	49.01	54.00	-4.99	V	Avg.	Pass	-	Harmonic
2	IEEE 802.15.4	18	2376.04	43.65	54.00	-10.35	V	Avg.	Pass	-	Band Edge
	IEEE 802.15.4	18	12205.00	49.83	54.00	-4.17	V	Avg.	Pass	-	Harmonic
3	IEEE 802.15.4	25	2483.60	41.97	54.00	-12.03	V	Avg.	Pass	-	Band Edge
	IEEE 802.15.4	25	12375.00	49.88	54.00	-4.12	V	Avg.	Pass	-	Harmonic
4	IEEE 802.15.4	26	2483.56	51.90	54.00	-2.1	V	Avg.	Pass	-	Band Edge
	IEEE 802.15.4	26	-	-	-	-	-	-	-	-	Harmonic
5	IEEE 802.15.4	26	48.43	37.25	40.00	-2.75	V	QP.	Pass	-	LF
6	IEEE 802.15.4	26	30940.00	50.16	74.00	-23.84	V	Peak	Pass	-	SHF

Mode	1	
	Band Edge	
	2400-2483.5_IEEE 802.15.4 _CH11_2405MHz	
ANT	5	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2372.89 52.51 74.00 -21.49 46.11 27.35 5.62 36.49 9.92 387 192 PEAK	 Site : 03CH15-HY Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2405.00 109.65 ------ ------ 103.13 27.42 5.66 36.48 9.92 387 192 PEAK
Avg	 Site : 03CH15-HY Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2372.80 41.26 54.00 -12.74 34.86 27.35 5.62 36.49 9.92 387 192 AVERAGE	 Site : 03CH15-HY Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2405.00 105.75 ------ ------ 99.23 27.42 5.66 36.48 9.92 387 192 AVERAGE

Mode	1	
	Band Edge	
	2400-2483.5_IEEE 802.15.4 _CH11_2405MHz	
ANT	5	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2340.40 52.24 74.00 -21.76 45.98 27.26 5.58 36.50 9.92 200 182 PEAK	 Site : 03CH15-HY Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2405.00 113.57 ------ ------ 107.05 27.42 5.66 36.48 9.92 200 182 PEAK
Avg	 Site : 03CH15-HY Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2341.16 42.59 54.00 -11.41 36.32 27.26 5.58 36.49 9.92 200 182 AVERAGE	 Site : 03CH15-HY Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2405.00 109.66 ------ ------ 103.14 27.42 5.66 36.48 9.92 200 182 AVERAGE

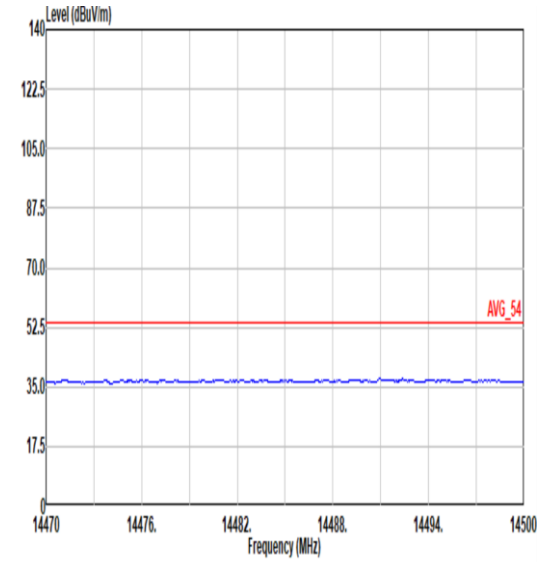
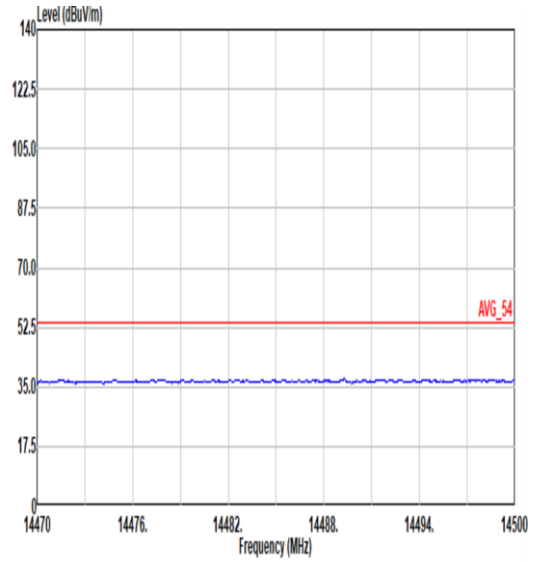
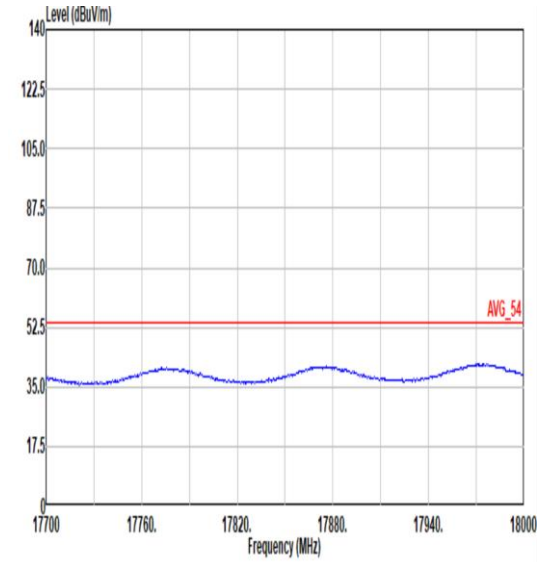
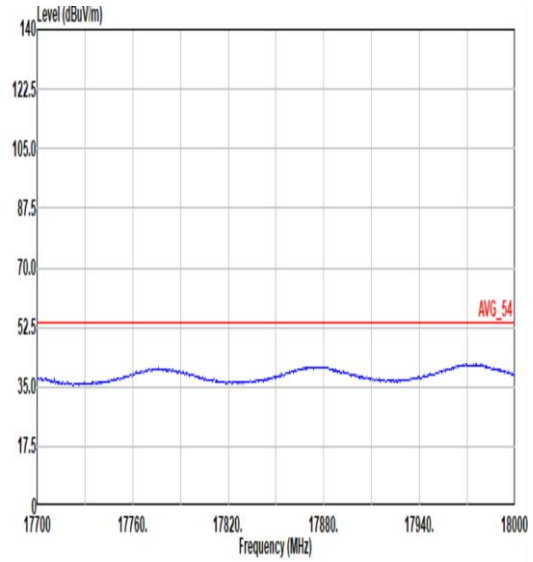
Mode	1	
	Harmonic	
	2400-2483.5_IEEE 802.15.4 _CH11_2405MHz	
ANT	5	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH15-HY Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL	 Site : 03CH15-HY Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL

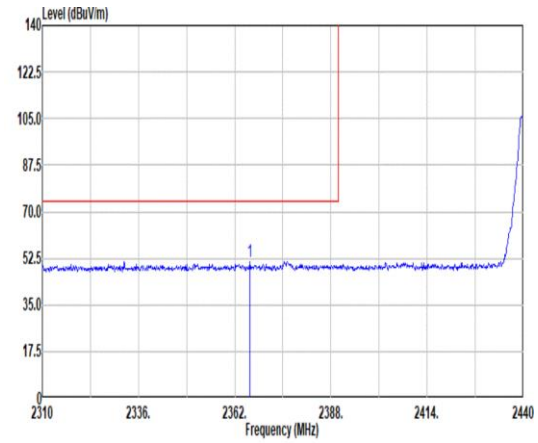
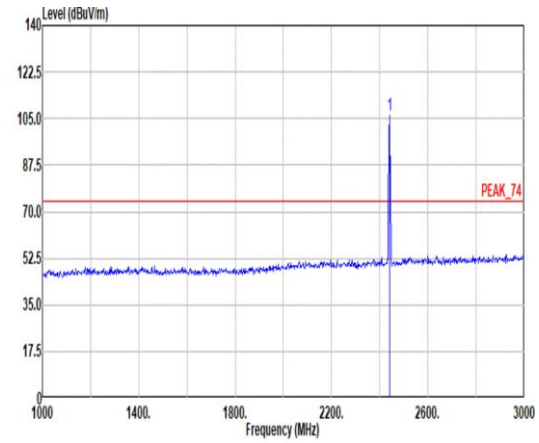
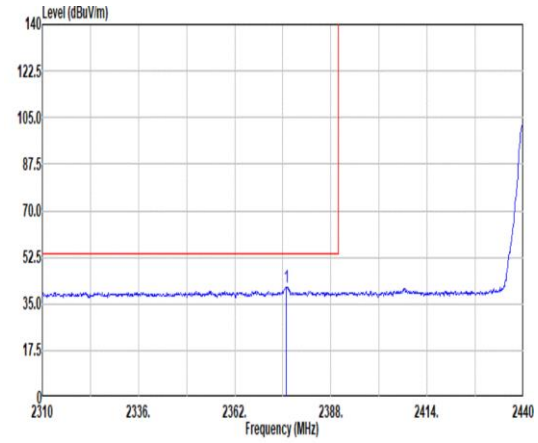
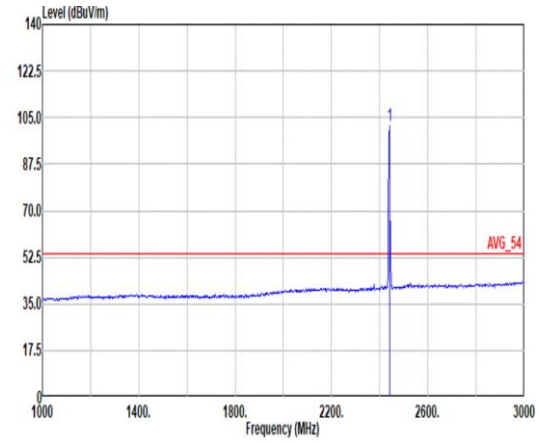
Horizontal:

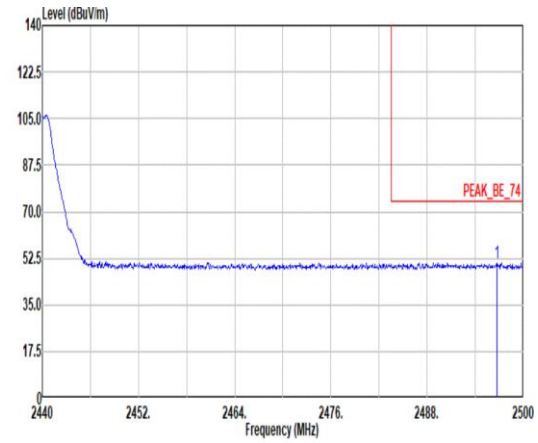
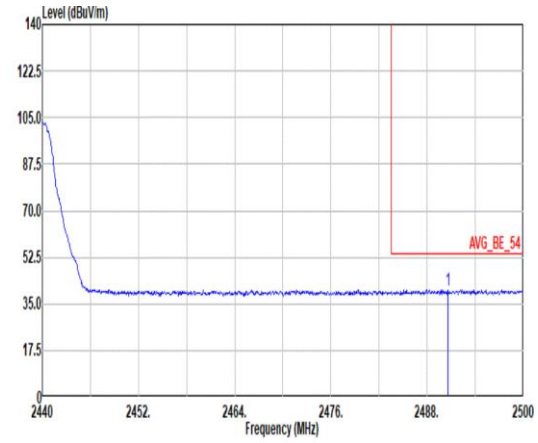
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4000.00	47.61	74.00	-26.39	67.99	30.80	7.29	59.11	0.64	100	336	Peak
2	4000.00	44.44	54.00	-9.56	64.82	30.80	7.29	59.11	0.64	100	336	Average
3	4810.00	46.65	74.00	-27.35	64.87	32.42	8.16	59.17	0.37	195	242	Peak
4	4810.00	40.78	54.00	-13.22	59.00	32.42	8.16	59.17	0.37	195	242	Average
5	7215.00	48.50	74.00	-25.50	61.17	36.90	9.91	59.73	0.25	--	--	Peak
6	9620.00	44.55	74.00	-29.45	54.03	38.18	11.50	59.38	0.22	--	--	Peak
7	12025.00	50.53	74.00	-23.47	56.08	39.25	12.91	57.84	0.13	302	74	Peak
8	12025.00	41.76	54.00	-12.24	47.31	39.25	12.91	57.84	0.13	302	74	Average
9	14430.00	49.53	74.00	-24.47	53.14	39.93	14.39	58.16	0.23	--	--	Peak
10	16835.00	46.89	74.00	-27.11	52.38	37.99	15.33	59.29	0.48	--	--	Peak

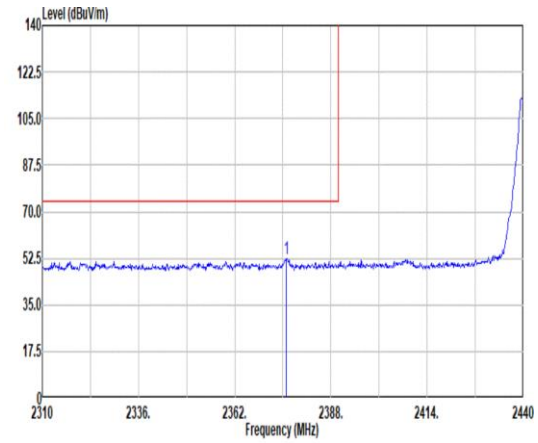
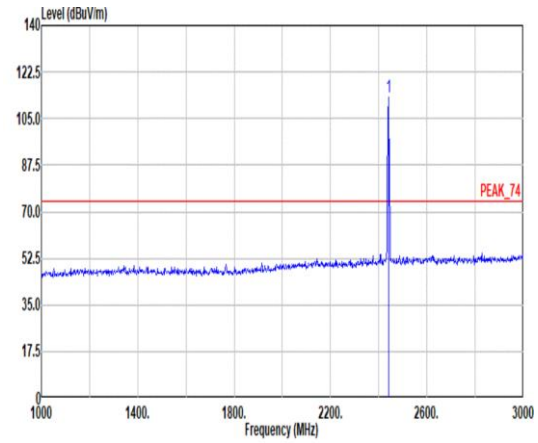
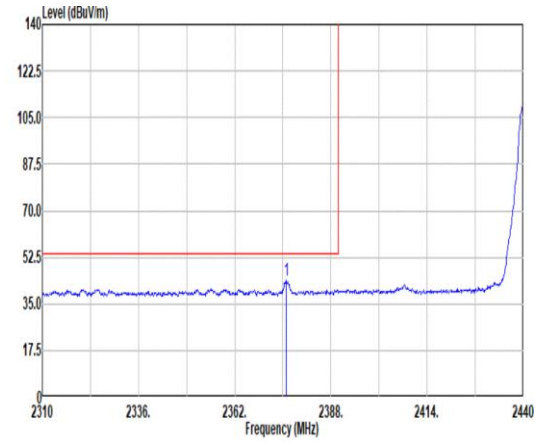
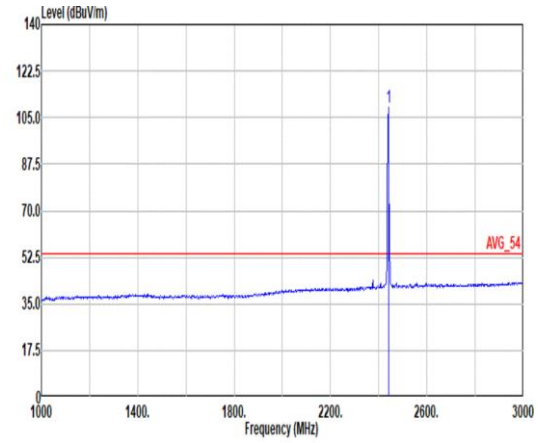
Vertical:

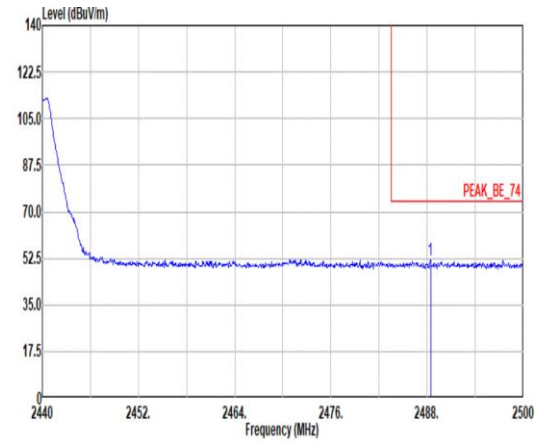
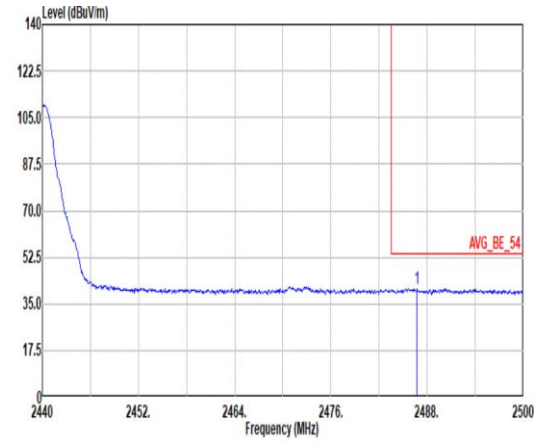
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4000.00	44.73	74.00	-29.27	65.11	30.80	7.29	59.11	0.64	100	7	Peak
2	4000.00	42.70	54.00	-11.30	63.08	30.80	7.29	59.11	0.64	100	7	Average
3	4810.00	45.74	74.00	-28.26	63.96	32.42	8.16	59.17	0.37	400	321	Peak
4	4810.00	38.89	54.00	-15.11	57.11	32.42	8.16	59.17	0.37	400	321	Average
5	7215.00	48.37	74.00	-25.63	61.04	36.90	9.91	59.73	0.25	--	--	Peak
6	9620.00	51.19	74.00	-22.81	60.67	38.18	11.50	59.38	0.22	--	--	Peak
7	12025.00	55.76	74.00	-18.24	61.31	39.25	12.91	57.84	0.13	158	183	Peak
8	12025.00	49.01	54.00	-4.99	54.56	39.25	12.91	57.84	0.13	158	183	Average
9	14430.00	53.30	74.00	-20.70	56.91	39.93	14.39	58.16	0.23	--	--	Peak
10	16835.00	49.36	74.00	-24.64	54.85	37.99	15.33	59.29	0.48	--	--	Peak

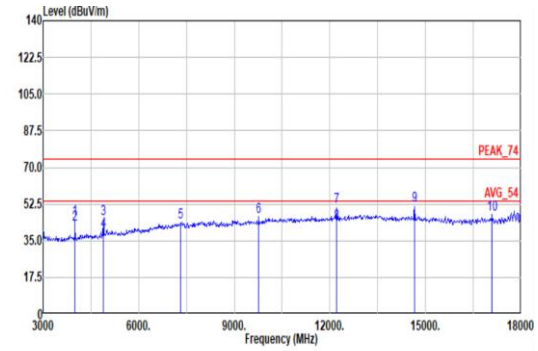
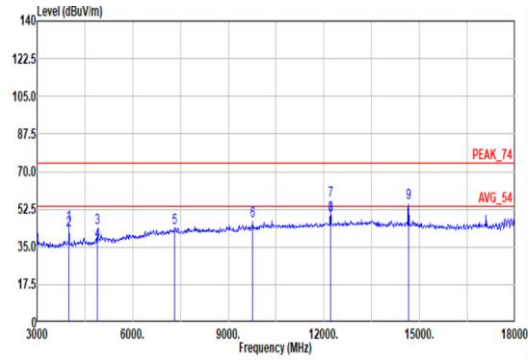
Mode	1	
	Harmonic	
	2400-2483.5_IEEE 802.15.4 _CH11_2405MHz	
ANT	5	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH15-HY Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL	 Site : 03CH15-HY Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL
17.7G ~18G Avg	 Site : 03CH15-HY Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL	 Site : 03CH15-HY Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL

Mode	2	
	Band Edge - L	
	2400-2483.5_IEEE 802.15.4 _CH18_2441MHz	
ANT	5	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2366.16 51.12 74.00 -22.88 44.75 27.33 5.61 36.49 9.92 376 205 PEAK	 Site : 03CH15-HY Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2441.00 106.25 ------ ------ 99.53 27.56 5.71 36.47 9.92 376 205 PEAK
Avg	 Site : 03CH15-HY Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2376.04 41.44 54.00 -12.56 35.04 27.35 5.62 36.49 9.92 376 205 AVERAGE	 Site : 03CH15-HY Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2441.00 101.95 ------ ------ 95.23 27.56 5.71 36.47 9.92 376 205 AVERAGE

Mode	2	
	Band Edge - R	
	2400-2483.5_IEEE 802.15.4 _CH18_2441MHz	
ANT	5	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2496.70 50.75 74.00 -23.25 43.62 27.88 5.79 36.46 9.92 376 205 PEAK	Blank
Avg	 Site : 03CH15-HY Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2490.64 40.10 54.00 -13.90 33.02 27.84 5.78 36.46 9.92 376 205 AVERAGE	Blank

Mode	2	
	Band Edge - L	
	2400-2483.5_IEEE 802.15.4 _CH18_2441MHz	
ANT	5	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2376.04 52.24 74.00 -21.76 45.84 27.35 5.62 36.49 9.92 242 177 PEAK	 Site : 03CH15-HY Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2441.00 112.96 ------ ------ 106.24 27.56 5.71 36.47 9.92 242 177 PEAK
Avg	 Site : 03CH15-HY Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2376.04 43.65 54.00 -10.35 37.25 27.35 5.62 36.49 9.92 242 177 AVERAGE	 Site : 03CH15-HY Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2441.00 108.58 ------ ------ 101.86 27.56 5.71 36.47 9.92 242 177 AVERAGE

Mode	2	
	Band Edge - R	
	2400-2483.5_IEEE 802.15.4 _CH18_2441MHz	
ANT	5	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2488.42 51.83 74.00 -22.17 44.77 27.83 5.77 36.46 9.92 242 177 PEAK	Blank
Avg	 Site : 03CH15-HY Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2486.74 40.56 54.00 -13.44 33.51 27.82 5.77 36.46 9.92 242 177 AVERAGE	Blank

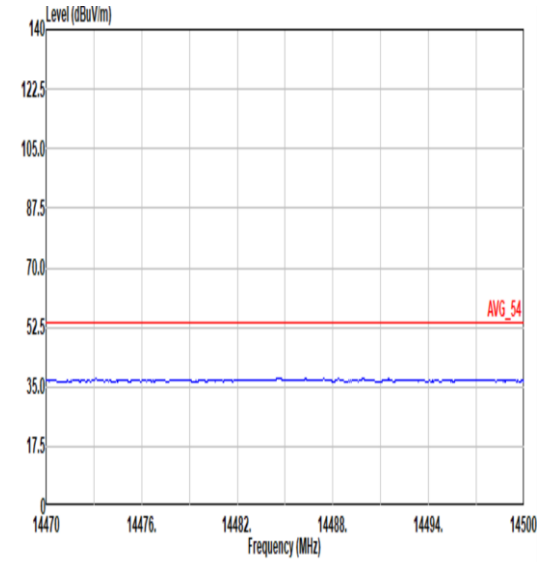
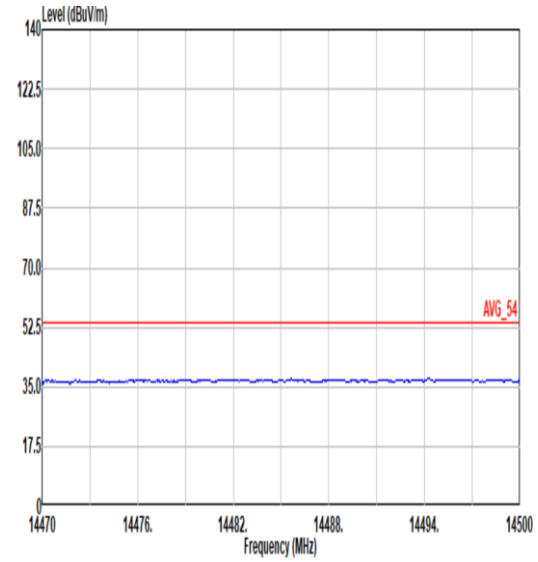
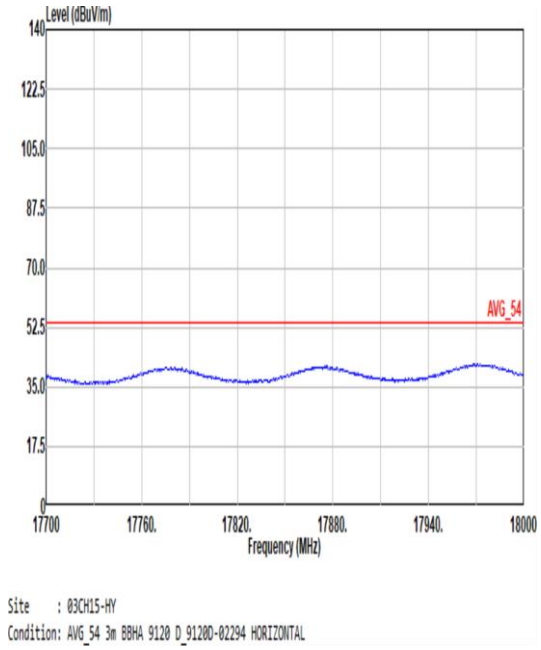
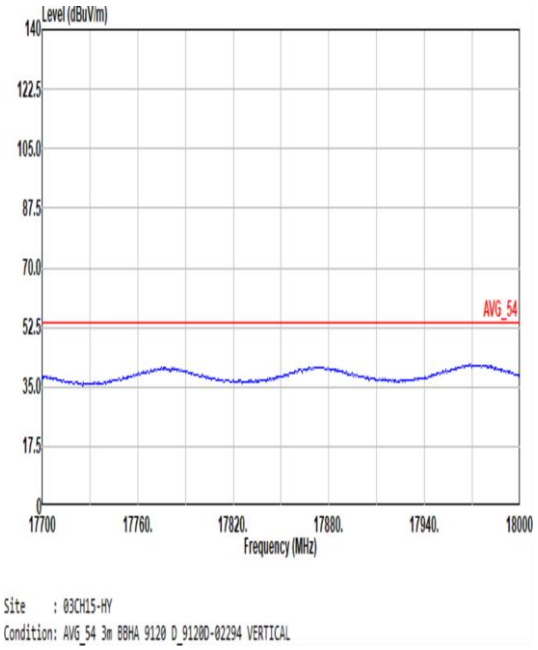
Mode	2	
	Harmonic	
	2400-2483.5_IEEE 802.15.4 _CH18_2441MHz	
ANT	5	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH15-HY Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL	 Site : 03CH15-HY Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL

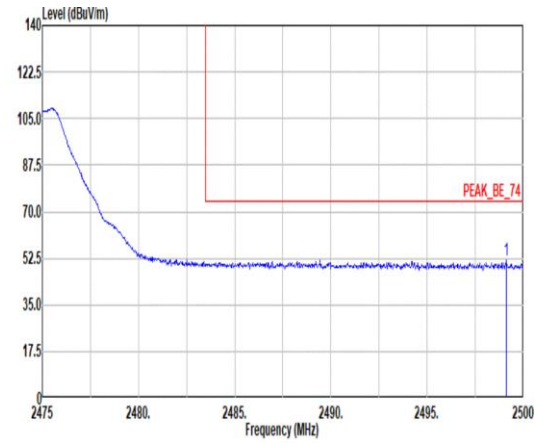
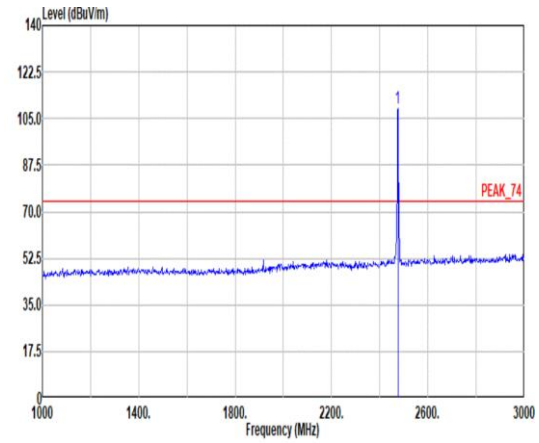
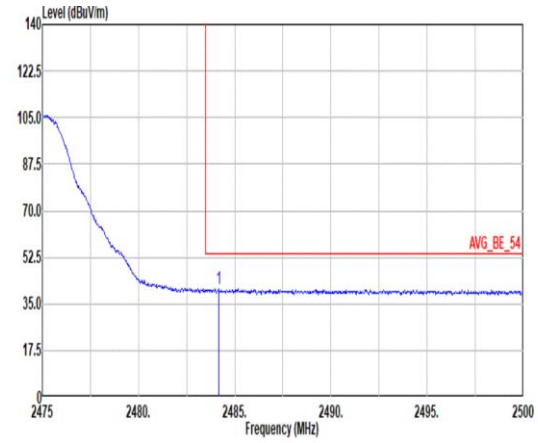
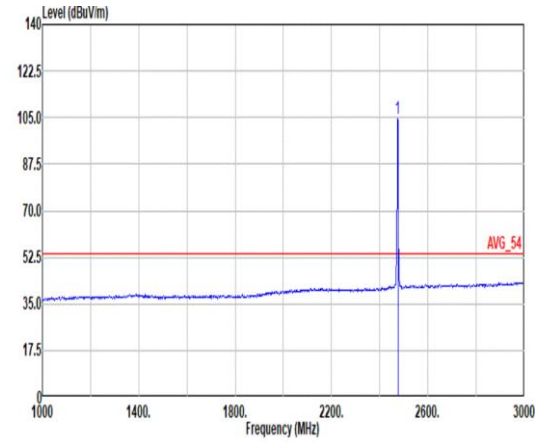
Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL

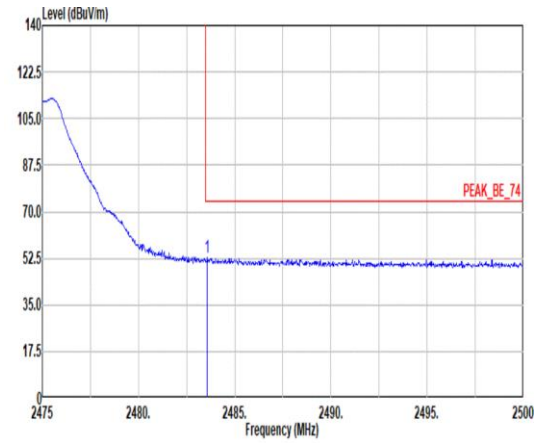
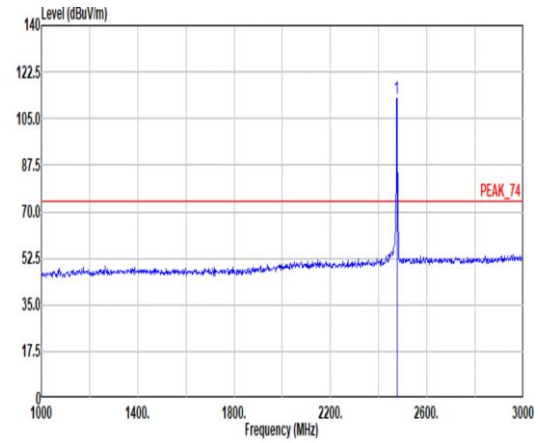
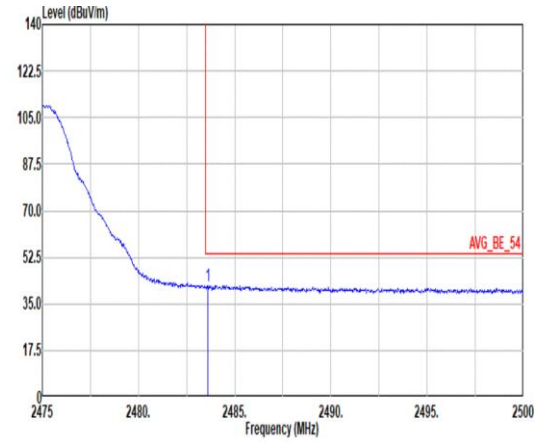
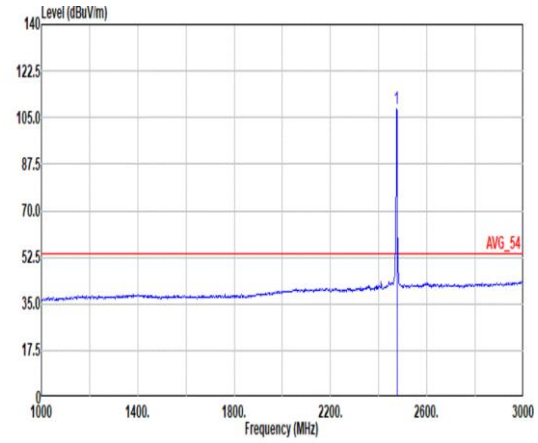
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4000.00	45.24	74.00	-28.76	65.62	30.80	7.29	59.11	0.64	100	331	Peak
2	4000.00	42.73	54.00	-11.27	63.11	30.80	7.29	59.11	0.64	100	331	Average
3	4882.00	45.44	74.00	-28.56	63.37	32.63	8.22	59.19	0.41	302	261	PEAK
4	4882.00	39.47	54.00	-14.53	57.40	32.63	8.22	59.19	0.41	302	261	Average
5	7323.00	43.88	74.00	-30.12	56.64	36.81	10.02	59.85	0.26	--	--	PEAK
6	9764.00	46.30	74.00	-27.70	55.58	38.10	11.69	59.23	0.16	--	--	PEAK
7	12205.00	51.49	74.00	-22.51	56.78	39.40	12.99	57.81	0.13	104	181	PEAK
8	12205.00	43.15	54.00	-10.85	48.44	39.40	12.99	57.81	0.13	104	181	Average
9	14646.00	51.95	74.00	-22.05	55.47	39.96	14.51	58.24	0.25	113	213	PEAK
10	17087.00	47.51	74.00	-26.49	52.86	38.06	15.38	59.29	0.50	--	--	PEAK

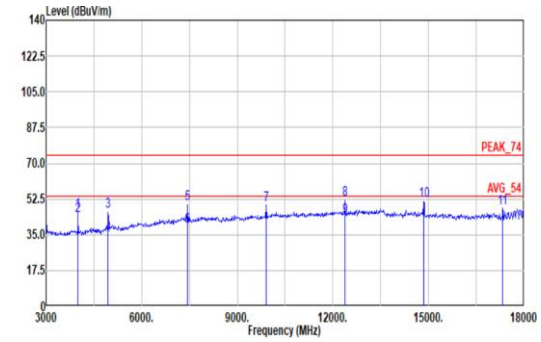
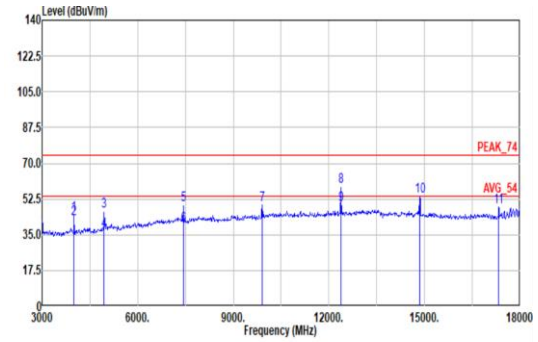
Site : 03CH15-HY
Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL

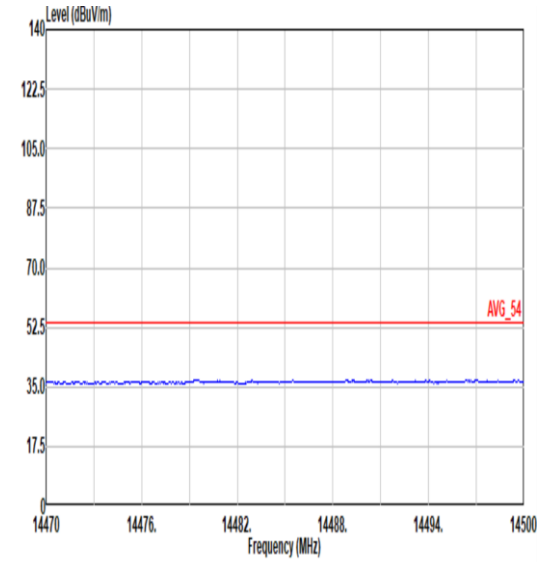
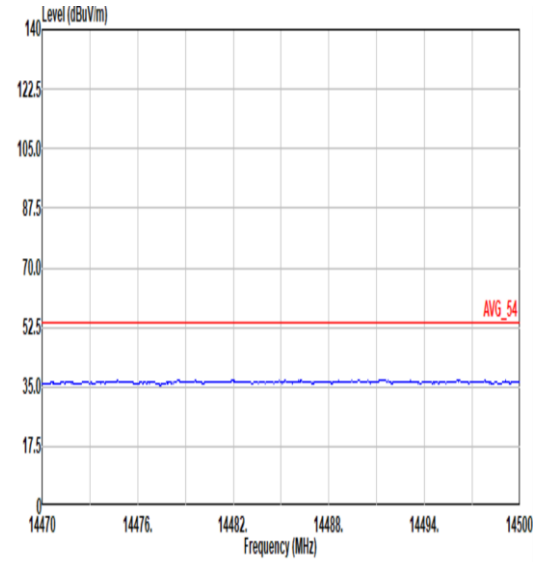
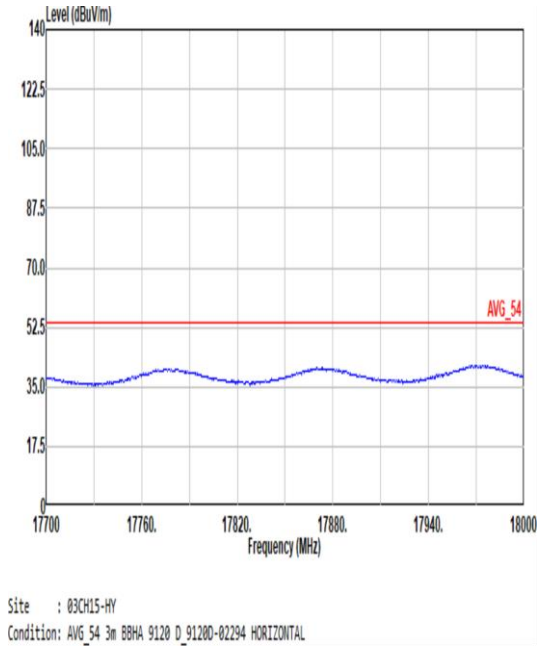
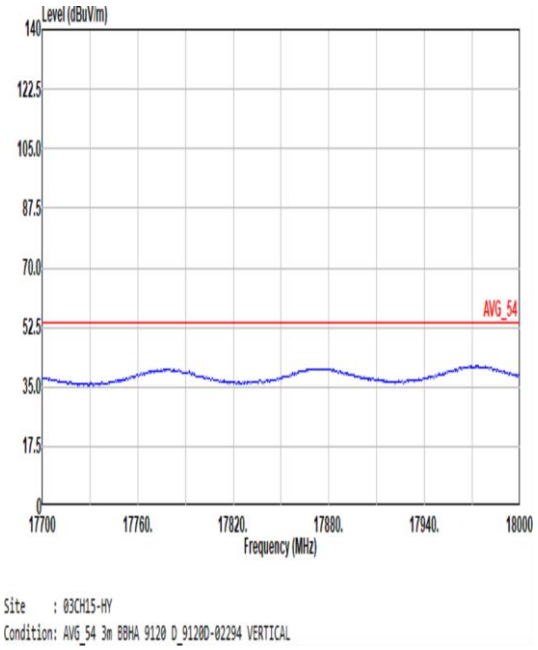
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4000.00	45.31	74.00	-28.69	65.69	30.80	7.29	59.11	0.64	100	6	Peak
2	4000.00	42.95	54.00	-11.05	63.33	30.80	7.29	59.11	0.64	100	6	Average
3	4882.00	43.85	74.00	-30.15	61.78	32.63	8.22	59.19	0.41	397	321	PEAK
4	4882.00	37.57	54.00	-16.43	55.50	32.63	8.22	59.19	0.41	397	321	Average
5	7323.00	44.11	74.00	-29.89	56.87	36.81	10.02	59.85	0.26	--	--	PEAK
6	9764.00	47.06	74.00	-26.94	56.34	38.10	11.69	59.23	0.16	--	--	PEAK
7	12205.00	56.69	74.00	-17.31	61.98	39.40	12.99	57.81	0.13	200	201	PEAK
8	12205.00	49.83	54.00	-4.17	55.12	39.40	12.99	57.81	0.13	200	201	Average
9	14646.00	55.62	74.00	-18.38	59.14	39.96	14.51	58.24	0.25	214	248	PEAK

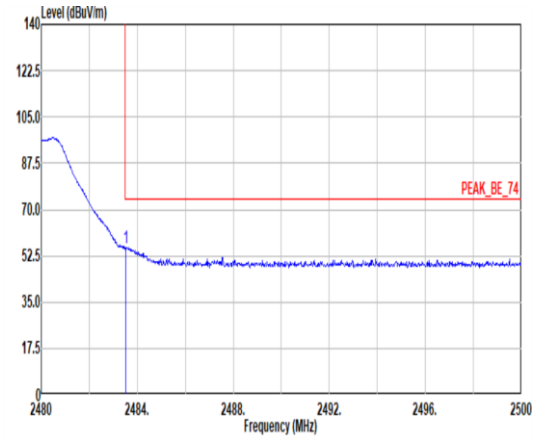
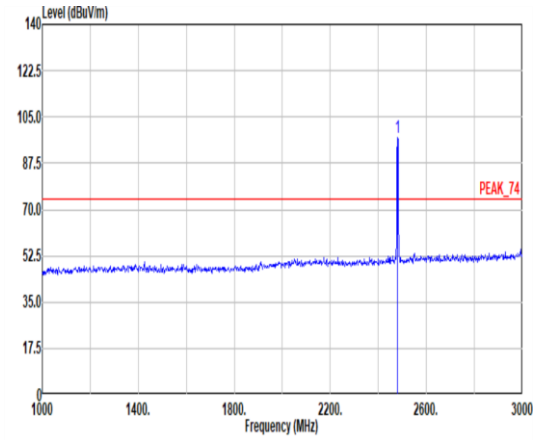
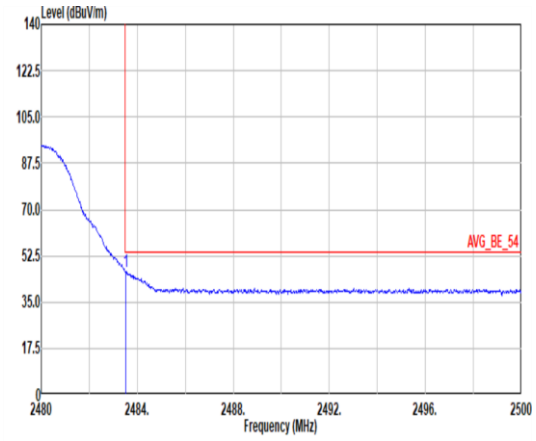
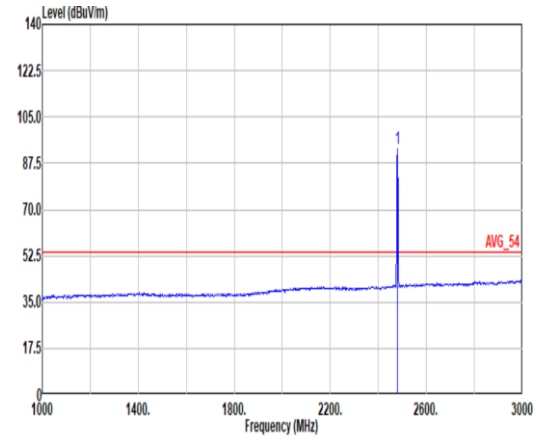
Mode	2	
	Harmonic	
	2400-2483.5_IEEE 802.15.4 _CH18_2441MHz	
ANT	5	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

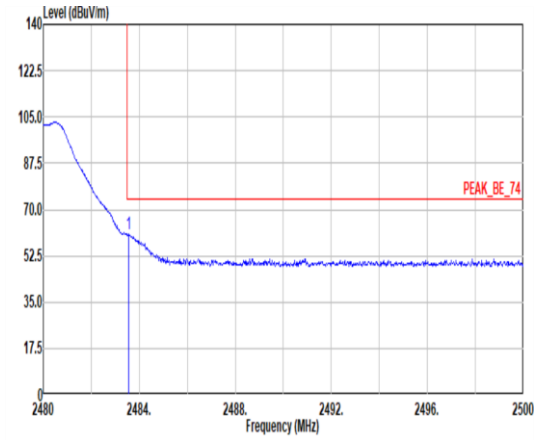
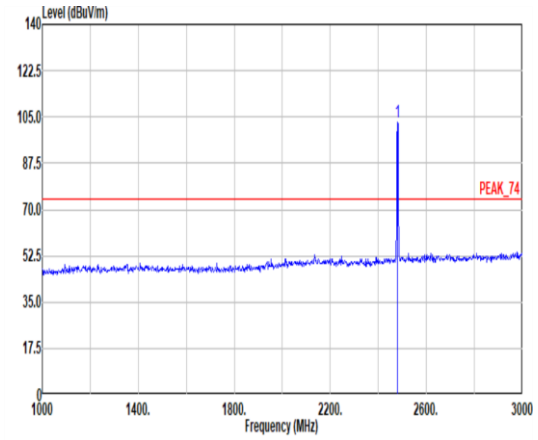
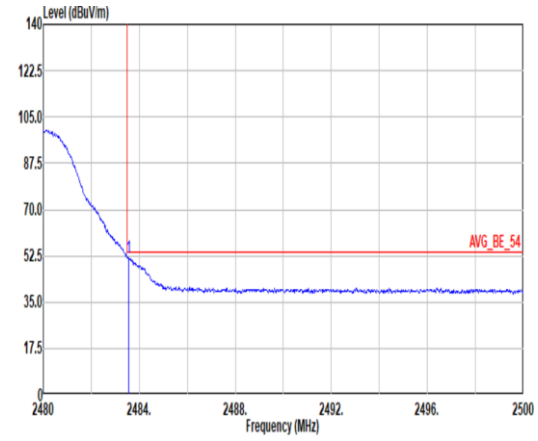
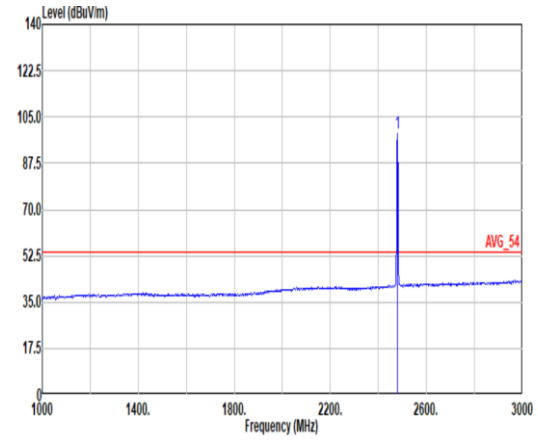
Mode	3	
	Band Edge	
	2400-2483.5_IEEE 802.15.4 _CH25_2475MHz	
ANT	5	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2499.10 51.87 74.00 -22.13 44.73 27.89 5.79 36.46 9.92 100 279 PEAK	 Site : 03CH15-HY Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2475.00 108.61 ------ ------ 101.64 27.76 5.76 36.47 9.92 100 279 PEAK
Avg	 Site : 03CH15-HY Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2484.15 40.86 54.00 -13.14 33.83 27.80 5.77 36.46 9.92 100 279 AVERAGE	 Site : 03CH15-HY Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2475.00 104.60 ------ ------ 97.66 27.74 5.75 36.47 9.92 100 279 AVERAGE

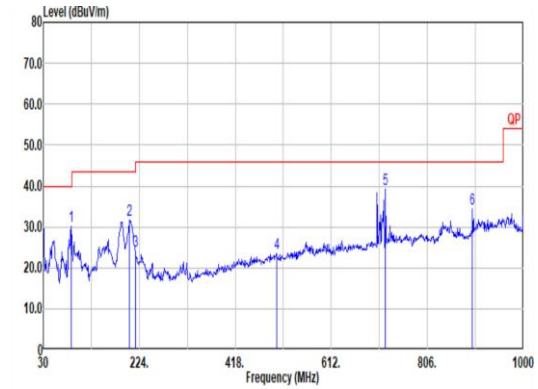
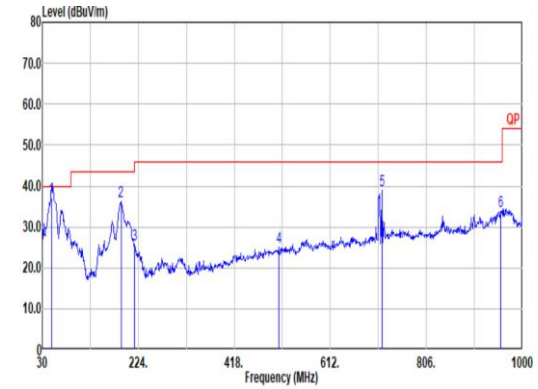
Mode	3	
	Band Edge	
	2400-2483.5_IEEE 802.15.4 _CH25_2475MHz	
ANT	5	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.58 52.76 74.00 -21.24 45.73 27.80 5.77 36.46 9.92 200 185 PEAK	 Site : 03CH15-HY Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2475.00 112.38 ------ ------ 105.41 27.76 5.76 36.47 9.92 200 185 PEAK
Avg	 Site : 03CH15-HY Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.60 41.97 54.00 -12.03 34.94 27.80 5.77 36.46 9.92 200 185 AVERAGE	 Site : 03CH15-HY Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2475.00 108.49 ------ ------ 101.55 27.74 5.75 36.47 9.92 200 185 AVERAGE

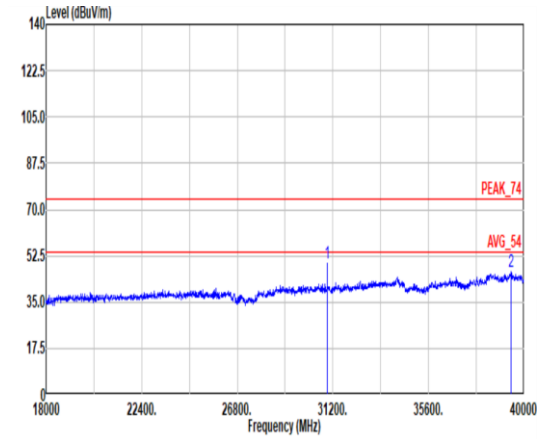
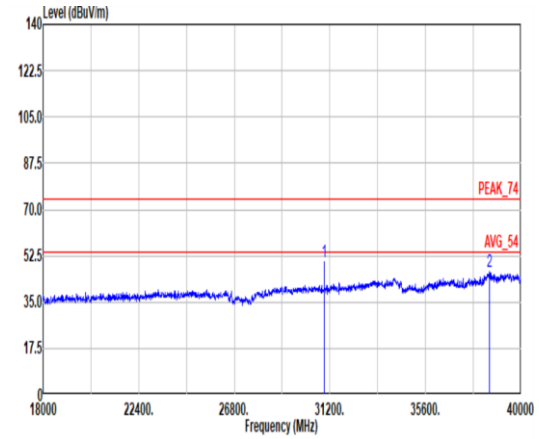
Mode	3	
	Harmonic	
	2400-2483.5_IEEE 802.15.4 _CH25_2475MHz	
ANT	5	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH15-HY Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4000.00 46.58 74.00 -27.42 66.96 30.80 7.29 59.11 0.64 100 324 Peak 2 4000.00 44.23 54.00 -9.77 64.61 30.80 7.29 59.11 0.64 100 324 Average 3 4950.00 46.70 74.00 -27.30 64.20 33.00 8.27 59.21 0.44 300 354 PEAK 4 4950.00 34.78 54.00 -19.22 52.28 33.00 8.27 59.21 0.44 300 354 Average 5 7425.00 50.32 74.00 -23.68 63.57 36.35 10.11 59.96 0.25 400 102 PEAK 6 7425.00 38.97 54.00 -15.03 52.22 36.35 10.11 59.96 0.25 400 102 Average 7 9900.00 49.83 74.00 -24.17 58.88 38.10 11.74 59.09 0.20 -- -- PEAK 8 12375.00 52.31 74.00 -21.69 57.74 39.15 13.06 57.78 0.14 100 177 PEAK 9 12375.00 43.99 54.00 -10.01 49.42 39.15 13.06 57.78 0.14 100 177 Average 10 14850.00 52.03 74.00 -21.97 55.96 39.50 14.61 58.32 0.28 102 163 PEAK 11 17325.00 48.27 74.00 -25.73 53.20 38.28 15.52 59.24 0.51 -- -- PEAK	 Site : 03CH15-HY Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4000.00 45.03 74.00 -28.97 65.41 30.80 7.29 59.11 0.64 100 5 Peak 2 4000.00 42.74 54.00 -11.26 63.12 30.80 7.29 59.11 0.64 100 5 Average 3 4950.00 46.23 74.00 -27.77 63.73 33.00 8.27 59.21 0.44 300 329 PEAK 4 4950.00 36.74 54.00 -17.26 54.24 33.00 8.27 59.21 0.44 300 329 Average 5 7425.00 49.49 74.00 -24.51 62.74 36.35 10.11 59.96 0.25 100 189 PEAK 6 7425.00 39.47 54.00 -14.53 52.72 36.35 10.11 59.96 0.25 100 189 Average 7 9900.00 49.63 74.00 -24.37 58.68 38.10 11.74 59.09 0.20 -- -- PEAK 8 12375.00 58.54 74.00 -15.46 63.97 39.15 13.06 57.78 0.14 200 214 PEAK 9 12375.00 49.88 54.00 -4.12 55.31 39.15 13.06 57.78 0.14 200 214 Average 10 14850.00 54.10 74.00 -19.90 58.03 39.50 14.61 58.32 0.28 201 211 PEAK 11 17325.00 48.39 74.00 -25.61 53.32 38.28 15.52 59.24 0.51 -- -- PEAK

Mode	3	
	Harmonic	
	2400-2483.5_IEEE 802.15.4 _CH25_2475MHz	
ANT	5	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

Mode	4	
	Band Edge	
	2400-2483.5_IEEE 802.15.4 _CH26_2480MHz	
ANT	5	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 55.69 74.00 -18.31 48.66 27.80 5.77 36.46 9.92 100 278 PEAK	 Site : 03CH15-HY Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 97.05 ------ ------ 90.05 27.78 5.76 36.46 9.92 100 278 PEAK
Avg	 Site : 03CH15-HY Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 46.38 54.00 -7.62 39.35 27.80 5.77 36.46 9.92 100 278 PEAK	 Site : 03CH15-HY Condition: AVG_54 3m BBHA 9120 D_9120D-02294 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 93.07 ------ ------ 86.07 27.78 5.76 36.46 9.92 100 278 AVERAGE

Mode	4	
	Band Edge	
	2400-2483.5_IEEE 802.15.4 _CH26_2480MHz	
ANT	5	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition: PEAK_BE_74 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.56 60.70 74.00 -13.30 53.67 27.80 5.77 36.46 9.92 200 178 PEAK	 Site : 03CH15-HY Condition: PEAK_74 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 103.07 ------ ------ 96.07 27.78 5.76 36.46 9.92 200 178 PEAK
Avg	 Site : 03CH15-HY Condition: AVG_BE_54 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.56 51.90 54.00 -2.10 44.87 27.80 5.77 36.46 9.92 200 178 PEAK	 Site : 03CH15-HY Condition: AVG_54 3m BBHA 9120 D_9120D-02294 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 98.74 ------ ------ 91.74 27.78 5.76 36.46 9.92 200 178 AVERAGE

Mode	5	
	LF	
	2400-2483.5_IEEE 802.15.4 _CH26_2480MHz	
ANT	5	
Pol.	Horizontal	Vertical
QP/ Peak	 Site : 03CH15-HY Condition: QP 3m CBL 6111D & 00800N1D01N-06_41912&05 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 86.26 30.06 40.00 -9.94 46.89 14.26 1.14 32.41 0.18 -- -- Peak 2 204.60 31.70 43.50 -11.80 47.17 14.99 1.70 32.38 0.22 -- -- Peak 3 216.24 24.07 46.00 -21.93 39.57 14.92 1.74 32.39 0.23 -- -- Peak 4 501.42 23.43 46.00 -22.57 29.31 23.60 2.64 32.38 0.26 -- -- Peak 5 721.61 39.19 46.00 -6.81 41.82 26.37 3.12 32.28 0.16 -- -- Peak 6 897.18 34.41 46.00 -11.59 34.04 28.18 3.47 31.48 0.20 -- -- Peak	 Site : 03CH15-HY Condition: QP 3m CBL 6111D & 00800N1D01N-06_41912&05 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 48.43 37.25 40.00 -2.75 53.59 15.22 0.85 32.46 0.05 110 76 QP 2 189.08 36.16 43.50 -7.34 52.07 14.68 1.64 32.39 0.16 -- -- Peak 3 217.21 25.55 46.00 -20.45 40.98 14.98 1.75 32.39 0.23 -- -- Peak 4 507.24 25.01 46.00 -20.99 30.73 23.76 2.65 32.39 0.26 -- -- Peak 5 715.79 38.95 46.00 -7.05 41.68 26.28 3.11 32.29 0.17 -- -- Peak 6 956.35 33.91 46.00 -12.09 31.23 29.78 3.57 30.96 0.29 -- -- Peak

Mode	6	
	SHF	
	2400-2483.5_IEEE 802.15.4 _CH26_2480MHz	
ANT	5	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH15-HY Condition: PEAK_74 1m BBHA9170_1224_240624 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30940.00 49.88 74.00 -24.12 67.12 40.44 7.91 56.05 -9.54 -- -- Peak 2 39402.00 46.28 74.00 -27.72 57.88 45.01 9.19 56.26 -9.54 -- -- Peak	 Site : 03CH15-HY Condition: PEAK_74 1m BBHA9170_1224_240624 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30940.00 50.16 74.00 -23.84 67.40 40.44 7.91 56.05 -9.54 -- -- Peak 2 38539.50 46.24 74.00 -27.76 59.26 44.12 9.08 56.68 -9.54 -- -- Peak

Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	Duty Factor(dB)
IEEE 802.15.4	100.00	-	0.00

IEEE 802.15.4

————THE END————