



FCC RF Test Report

APPLICANT : Cardo Systems, Ltd.
EQUIPMENT : 509 UCS EDGE
BRAND NAME : Cardo Systems, Ltd.
MODEL NAME : UCSE
FCC ID : Q95ER31
STANDARD : 47 CFR Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Jun. 19, 2024 ~ Aug. 15, 2024

We, Sporton International Inc. (Kunshan), 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 of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR442306C	Rev. 01	Initial issue of report	Sep. 05, 2024

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	RSS-247 5.2(a)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	RSS-Gen 6.7	99% Bandwidth	-	Pass	-
3.2	15.247(b)(3)	RSS-247 5.4(d)	Output Power	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	RSS-247 5.2(b)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	RSS-247 5.5	Conducted Band Edges and Spurious Emission	$\leq 20\text{dBc}$	Pass	-
3.5	15.247(d)	RSS-247 5.5	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 1.71 dB at 7335.00 MHz
3.6	15.207	RSS-GEN 8.8	AC Conducted Emission	15.207(a)	Pass	Under limit 11.07 dB at 0.440 MHz
3.7	15.203 & 15.247(b)	N/A	Antenna Requirement	N/A	Pass	-

Conformity Assessment Condition:

- 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/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 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.



1 General Description

1.1 Applicant

Cardo Systems, Ltd.

101 E. Park Blvd, Suite 600, Plano TX, 75074 USA

1.2 Manufacturer

Cardo Systems, Ltd.

101 E. Park Blvd, Suite 600, Plano TX, 75074 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	509 UCS EDGE
Brand Name	Cardo Systems, Ltd.
Model Name	UCSE
FCC ID	Q95ER31
SN Code	Conducted: 5M4113A037 Conduction: 5M4113a085 Radiation: 5M4113A035
HW Version	1
SW Version	1
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	2405 MHz ~ 2475 MHz
Number of Channels	8
Channel Spacing	10 MHz
Carrier Frequency of Each Channel	2405 MHz, 2415MHz, ..., 2475MHz
Maximum Output Power to Antenna	18.11 dBm (0.0647 W)
99% Occupied Bandwidth	2.33MHz
Antenna Type / Gain	Printed Antenna type with gain 0 dBi
Type of Modulation	O-QPSK

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH06-KS TH01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH06-KS	AUDIX	E3	210616
2.	CO01-KS	AUDIX	E3	6.2009-8-24

1.8 Applicable Standards

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

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05
- ♦ ANSI C63.10-2020

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. 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
	13	2415	21	2455
	15	2425	23	2465
	17	2435	25	2475

2.2 Test Mode

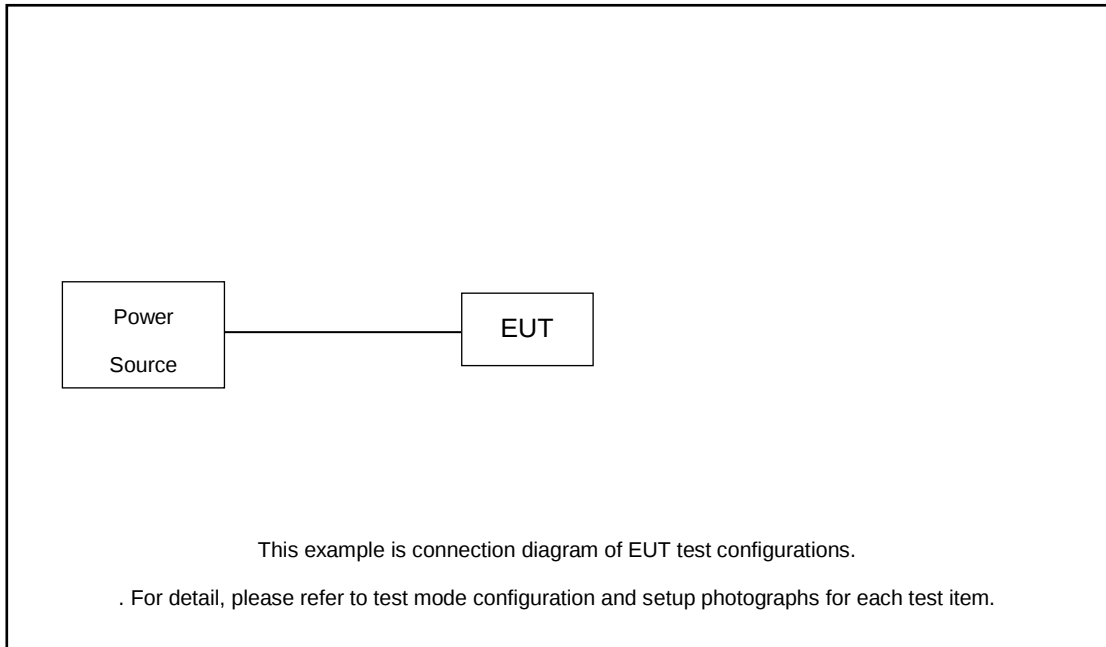
- The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Z plane as worst plane) from all possible combinations.
- 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.

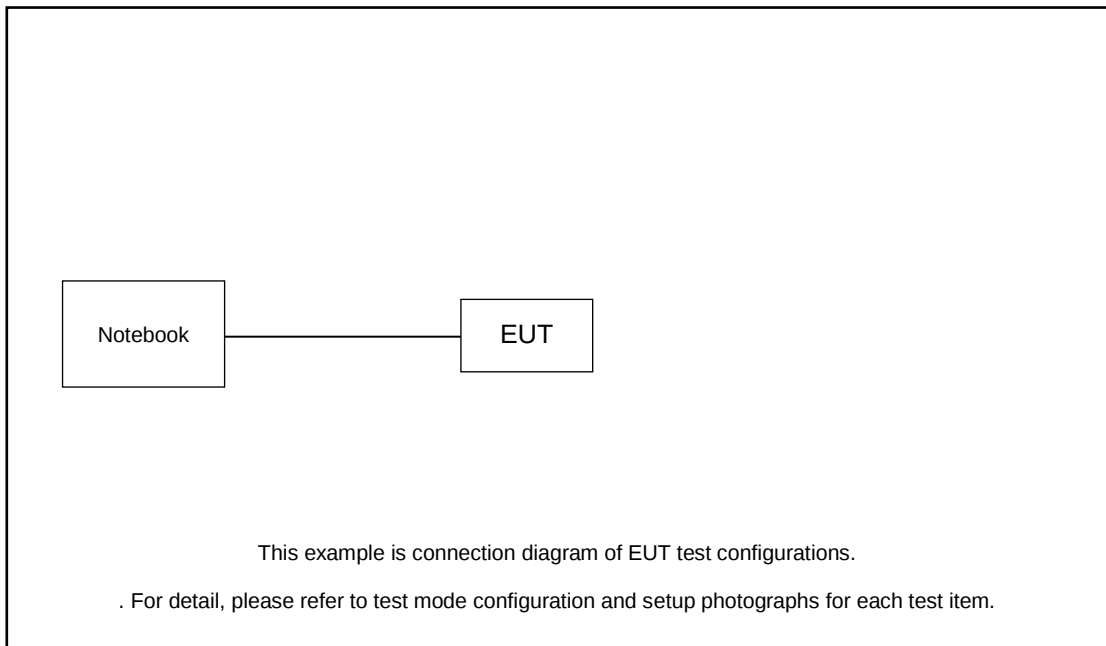
Summary table of Test Cases	
Test Item	Data Rate / Modulation
	250kbps / Zigbee
Conducted TCs	Mode 1: Zigbee Tx CH11_2405 MHz Mode 2: Zigbee Tx CH19_2445 MHz Mode 3: Zigbee Tx CH25_2475 MHz
Radiated TCs	Mode 1: Zigbee Tx CH11_2405 MHz Mode 2: Zigbee Tx CH19_2445 MHz Mode 3: Zigbee Tx CH25_2475 MHz
AC Conducted Emission	Mode 1: Zigbee TX + USB Cable (Charging from adaptor)
Remark: For Radiated TCs, The tests were performance with Notebook.	

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Phone	OPPO	R17	N/A	N/A	N/A
2.	Notebook	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For ZigBee function, the engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the Phone under large package sizes transmission.

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 0.50 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 0.50 + 10 = 10.50 \text{ (dB)}\end{aligned}$$

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.

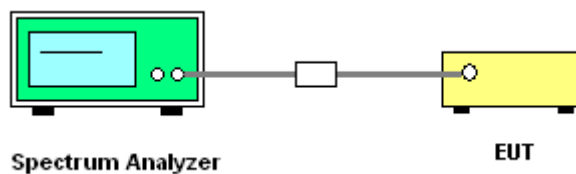
3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1% to 5% of the 99% OBW and the VBW is set to 3 times of the RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup

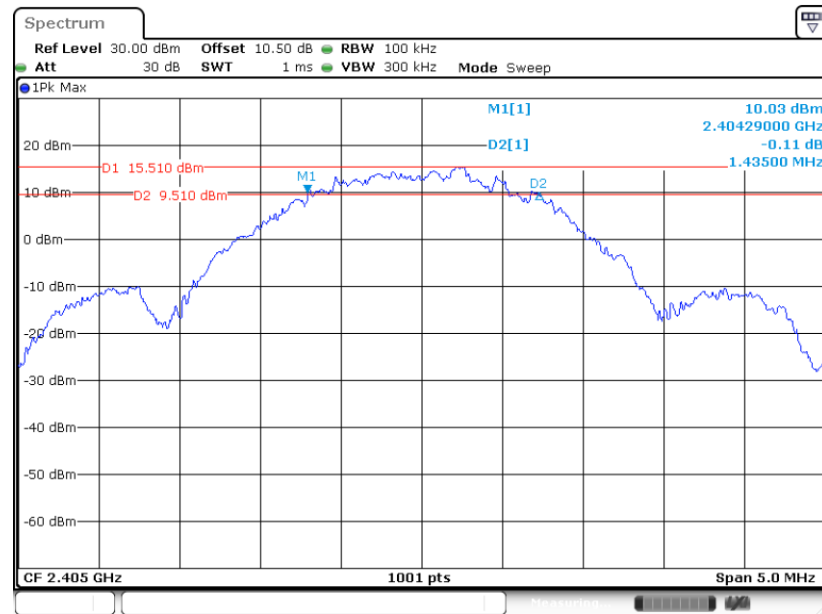




3.1.5 Test Result of 6dB Bandwidth

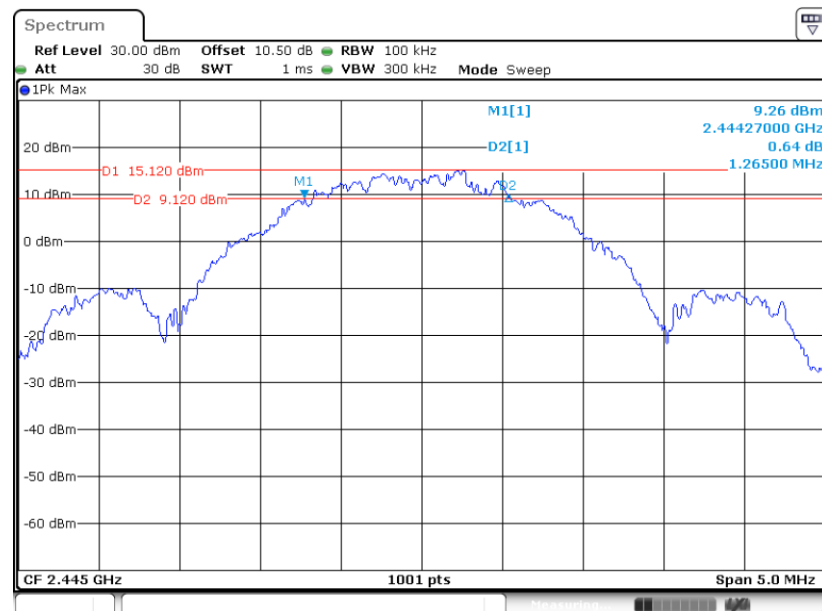
Test data refer to Appendix A.

6 dB Bandwidth Plot on Channel 11



Date: 15.AUG.2024 14:50:44

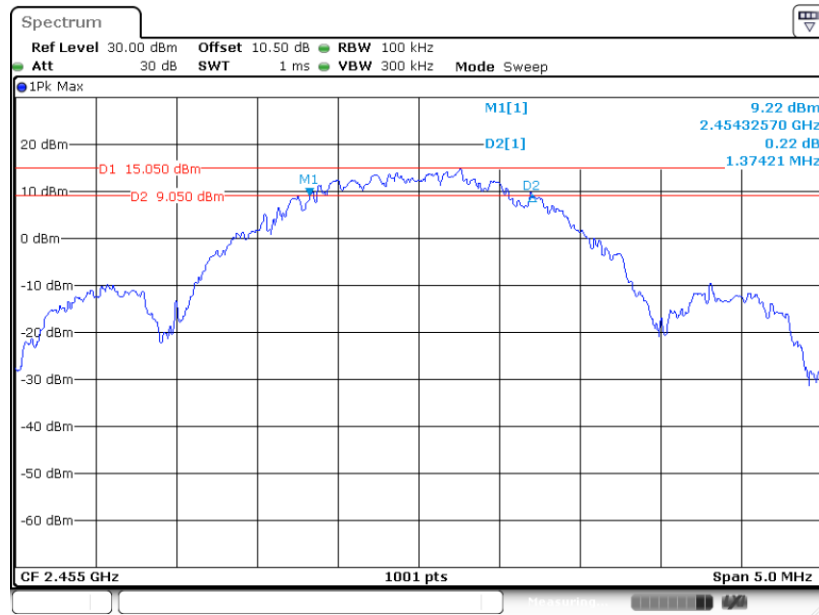
6 dB Bandwidth Plot on Channel 19



Date: 15.AUG.2024 15:00:35

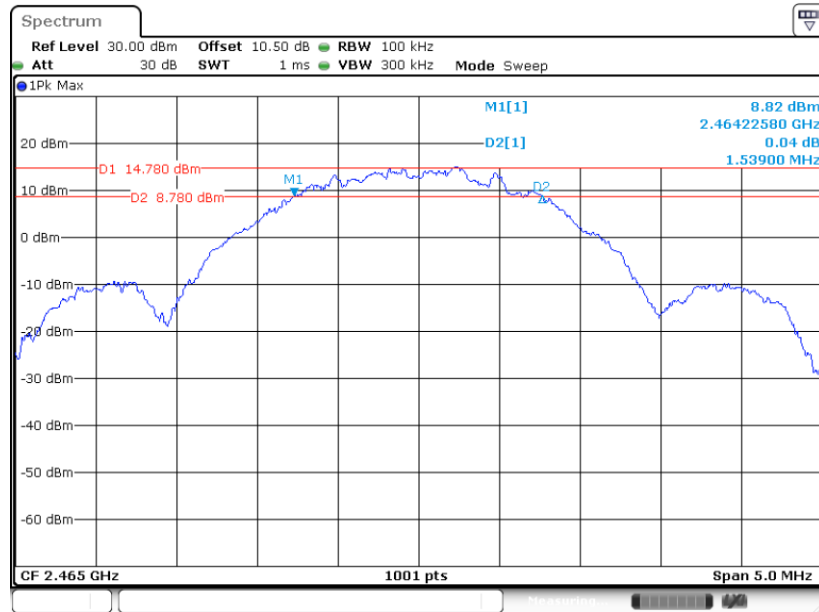


6 dB Bandwidth Plot on Channel 21



Date: 15.AUG.2024 15:18:57

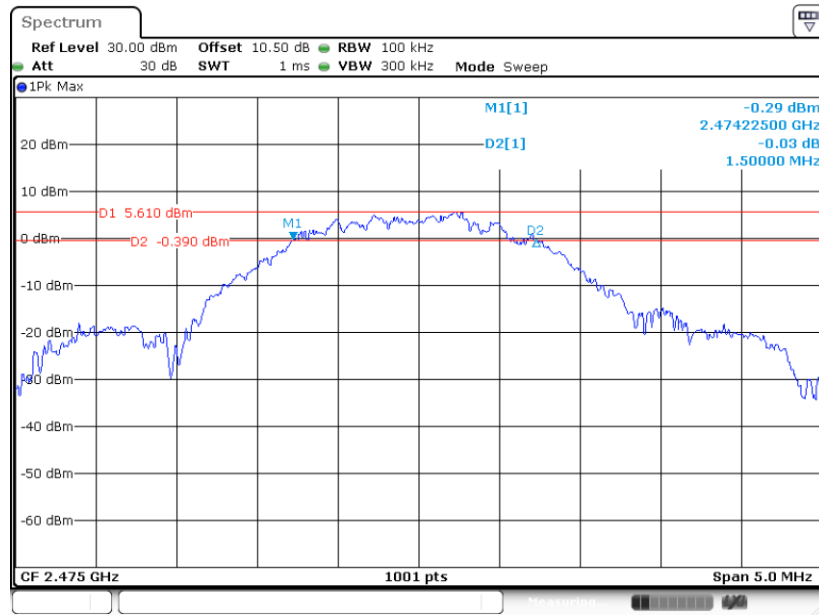
6 dB Bandwidth Plot on Channel 23



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6 dB Bandwidth Plot on Channel 25



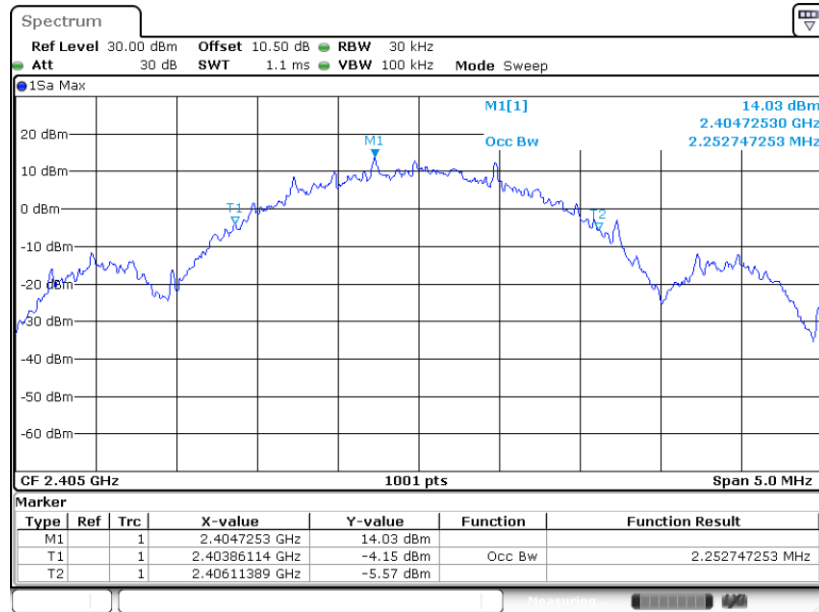
Date: 15.AUG.2024 15:52:01



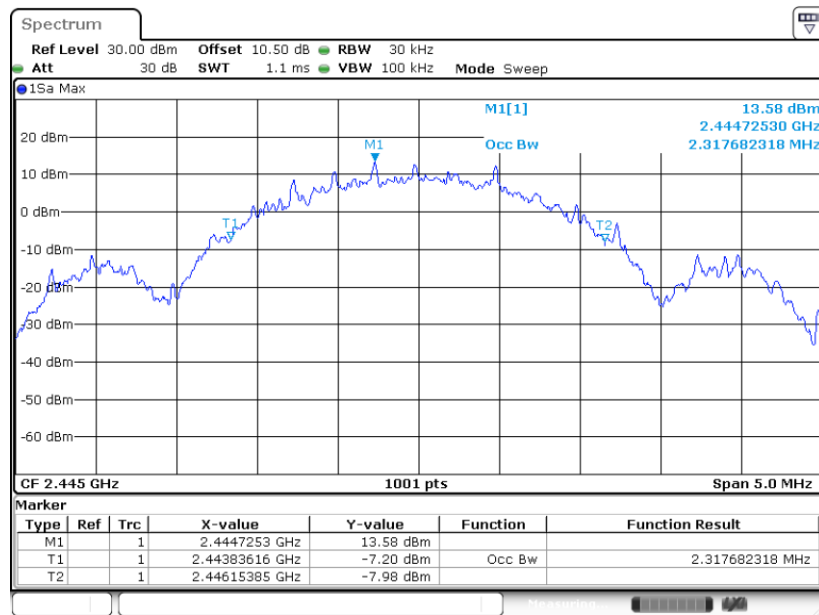
3.1.6 Test Result of 99% Occupied Bandwidth

Test data refer to Appendix A.

99% Bandwidth Plot on Channel 11

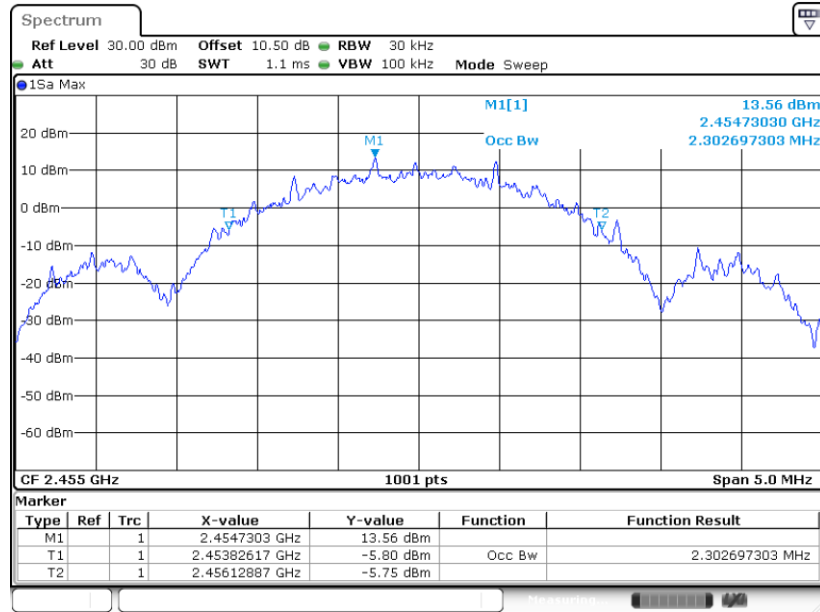


99% Occupied Bandwidth Plot on Channel 19



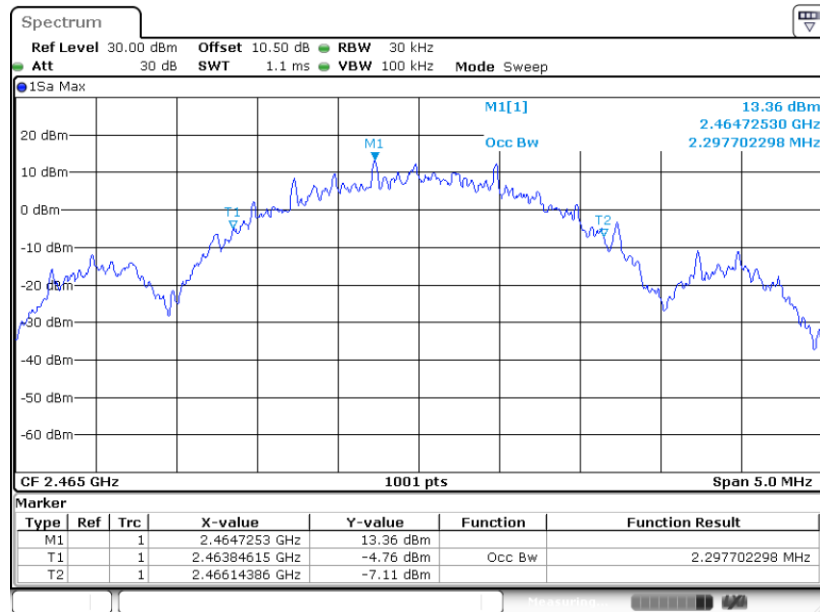


99% Occupied Bandwidth Plot on Channel 21



Date: 15.AUG.2024 15:47:24

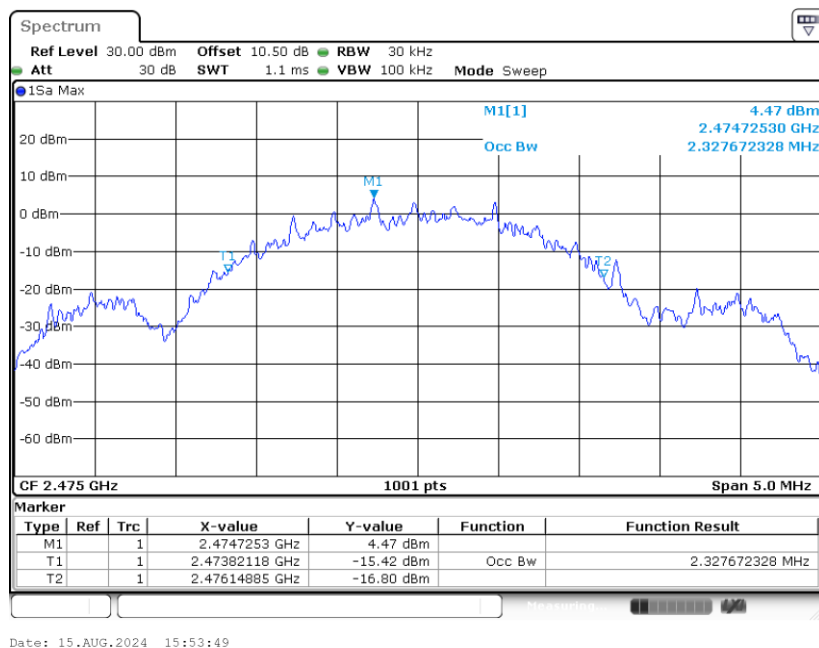
99% Occupied Bandwidth Plot on Channel 23



Date: 15.AUG.2024 15:45:21



99% Occupied Bandwidth Plot on Channel 25



Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 Limit of Peak Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi 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 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

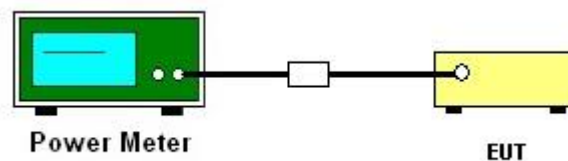
3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2020 clause 11.9.1.2 PKPM1 Peak power meter or ANSI C63.10-2020 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Test data refers to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Test data refers 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 8dBm in any 3kHz band at any time interval of continuous transmission.

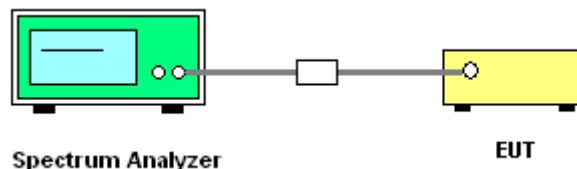
3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2020 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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. (6dB 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)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



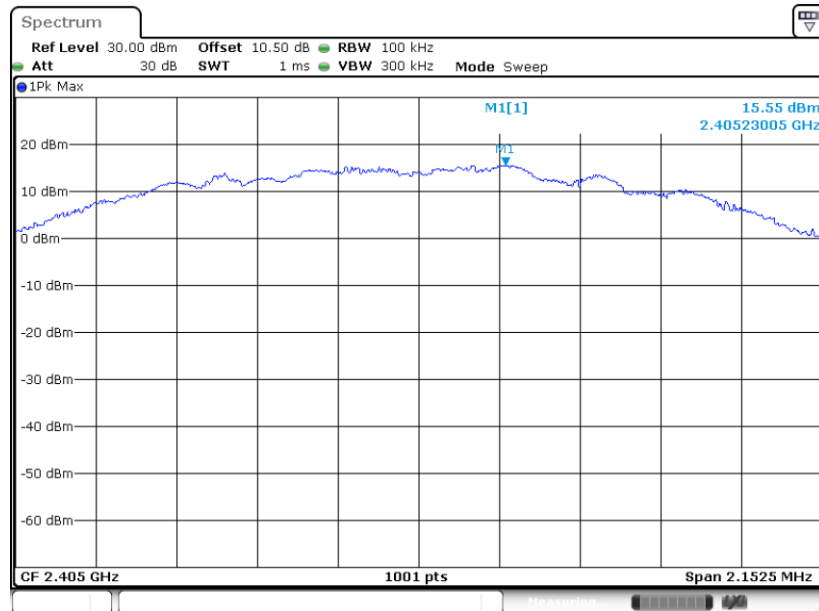
3.3.5 Test Result of Power Spectral Density

Test data refers to Appendix A.



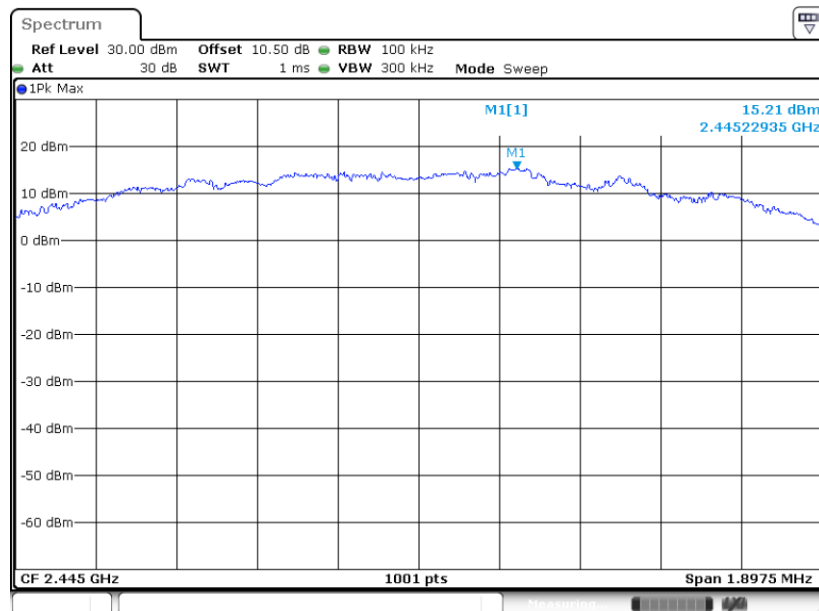
3.3.6 Test Result of Power Spectral Density Plots (100kHz)

PSD 100kHz Plot on Channel 11



Date: 15.AUG.2024 14:54:16

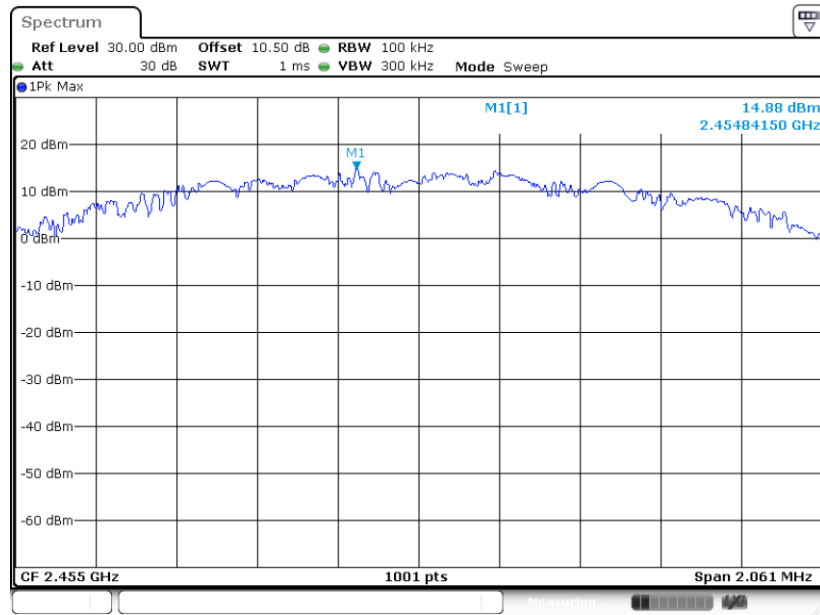
PSD 100kHz Plot on Channel 19



Date: 15.AUG.2024 15:01:45

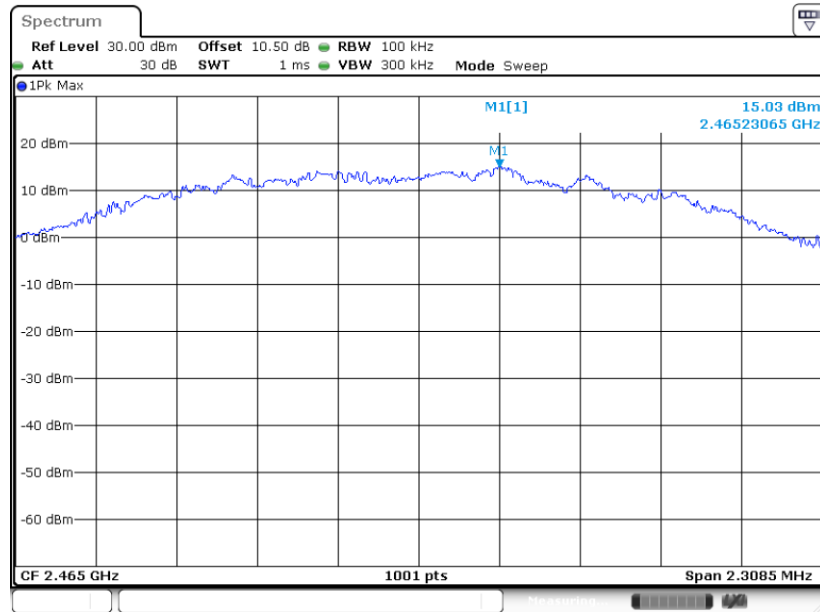


PSD 100kHz Plot on Channel 21



Date: 15.AUG.2024 15:25:45

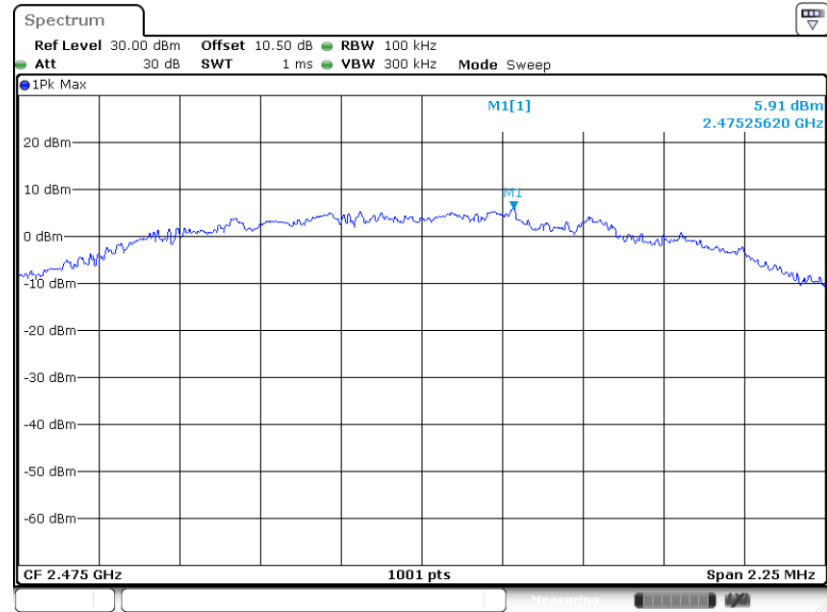
PSD 100kHz Plot on Channel 23



Date: 15.AUG.2024 15:40:31



PSD 100kHz Plot on Channel 25

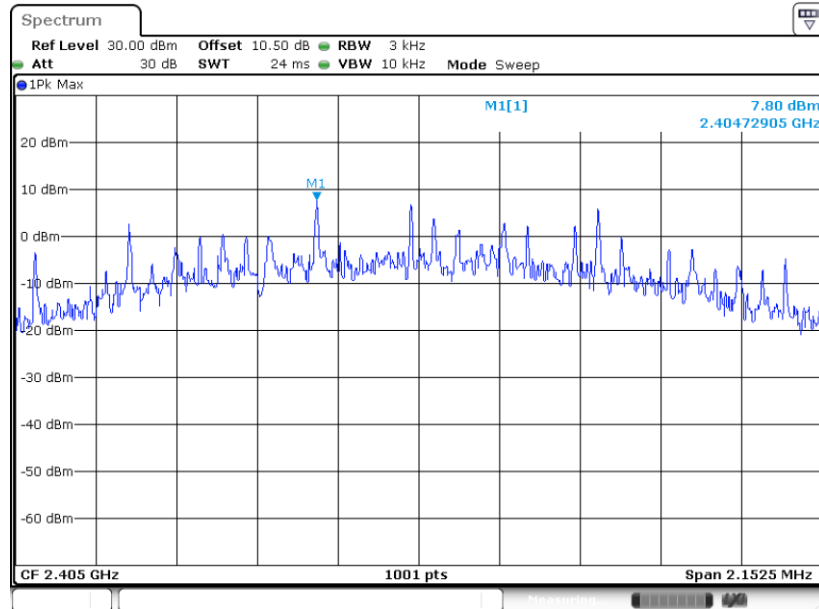


Date: 15.AUG.2024 15:52:42



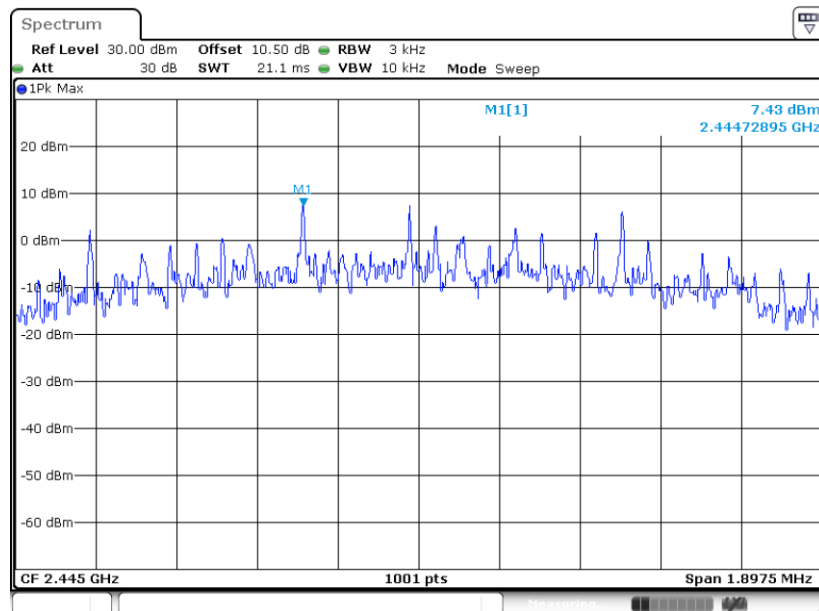
3.3.7 Test Result of Power Spectral Density Plots (3kHz)

PSD 3kHz Plot on Channel 11



Date: 15.AUG.2024 17:35:18

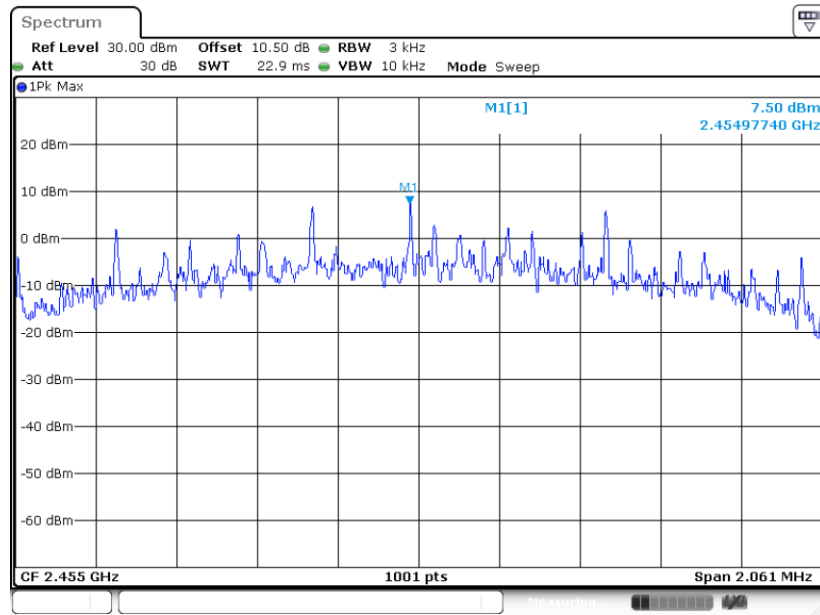
PSD 3kHz Plot on Channel 19



Date: 15.AUG.2024 17:37:32

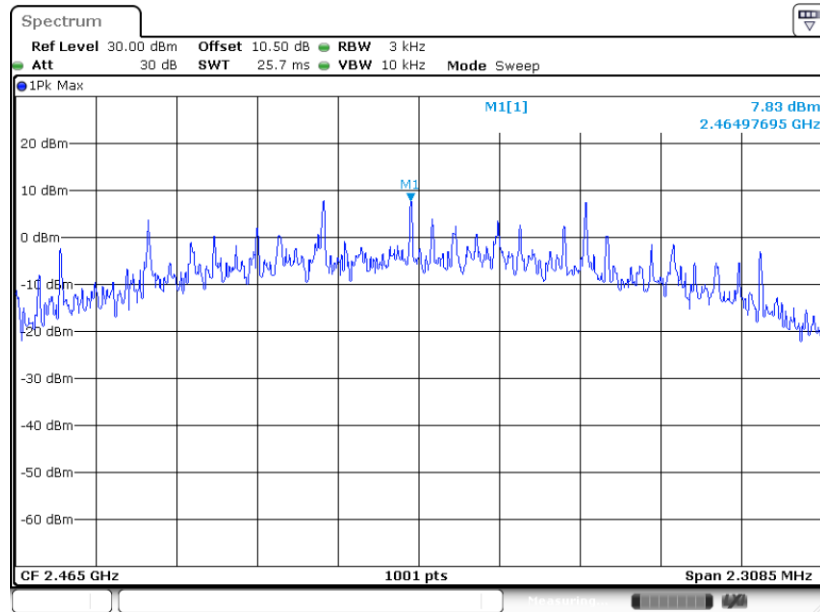


PSD 3kHz Plot on Channel 21



Date: 15.AUG.2024 17:42:59

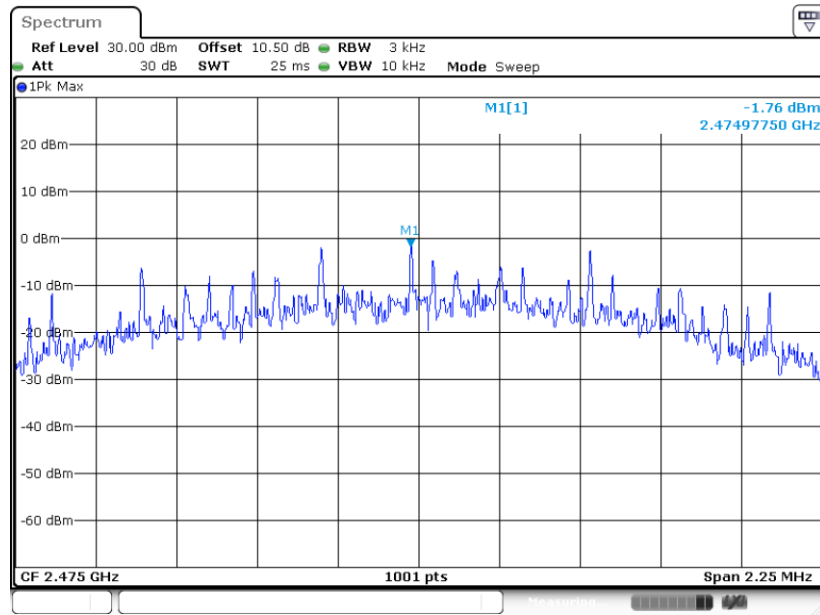
PSD 3kHz Plot on Channel 23



Date: 15.AUG.2024 15:40:13



PSD 3kHz Plot on Channel 25



Date: 15.AUG.2024 15:52:27

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 20 dB down from the highest emission level within the authorized band.

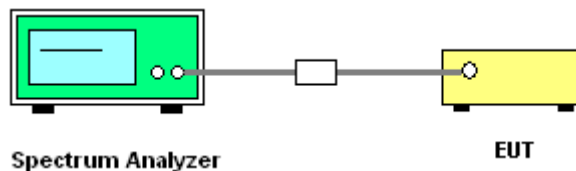
3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.4.3 Test Procedure

1. The testing follows ANSI C63.10-2020 clause 11.12
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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.

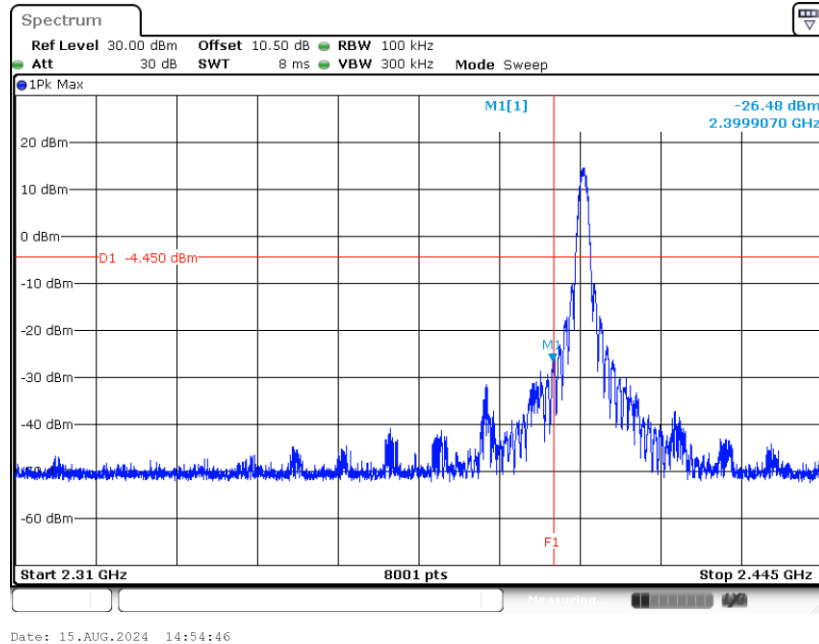
3.4.4 Test Setup



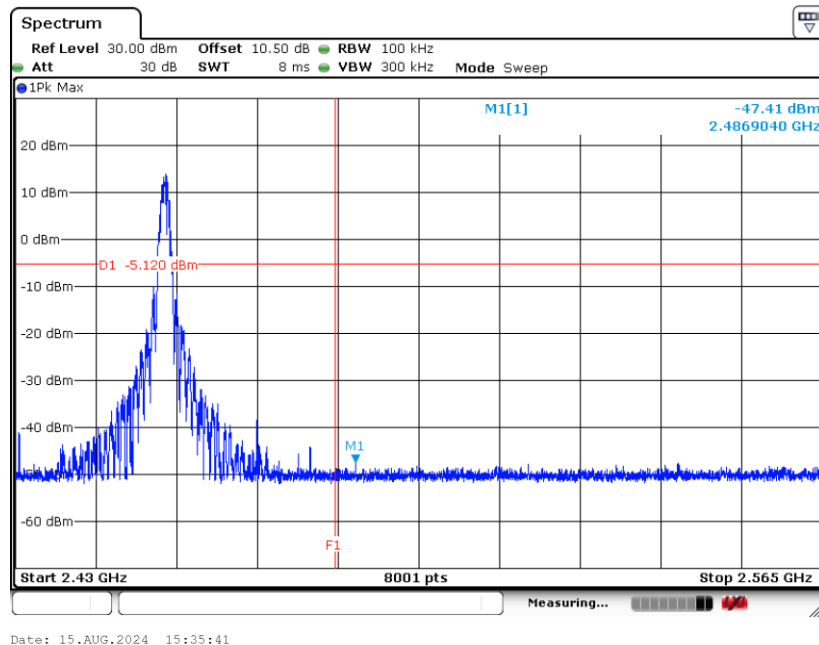


3.4.5 Test Result of Conducted Band Edges Plots

Low Band Edge Plot on Channel 11

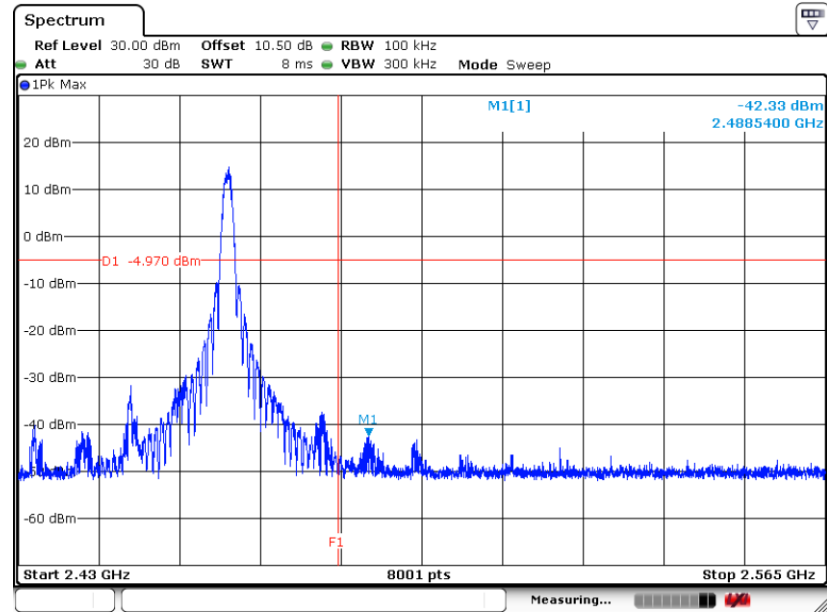


High Band Edge Plot on Channel 21



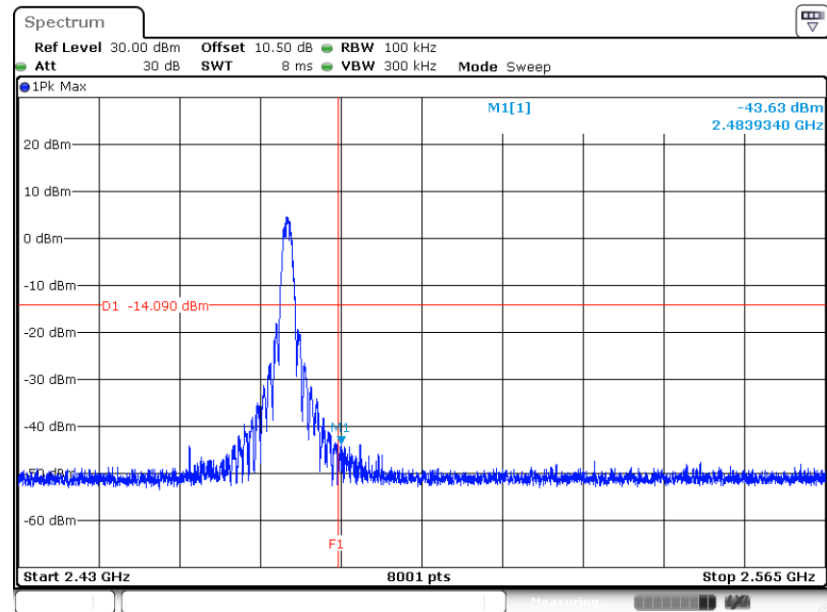


High Band Edge Plot on Channel 23



Date: 15.AUG.2024 15:43:39

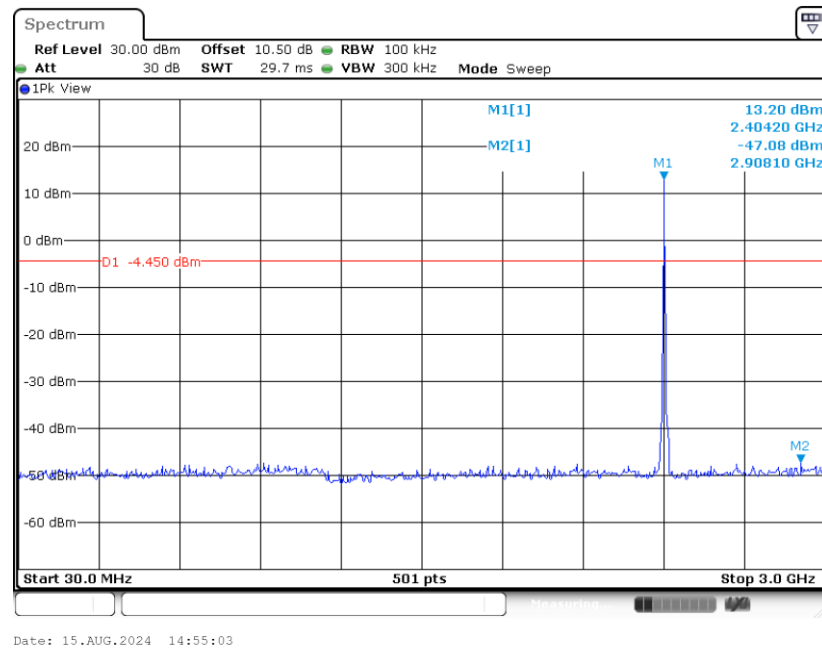
High Band Edge Plot on Channel 25



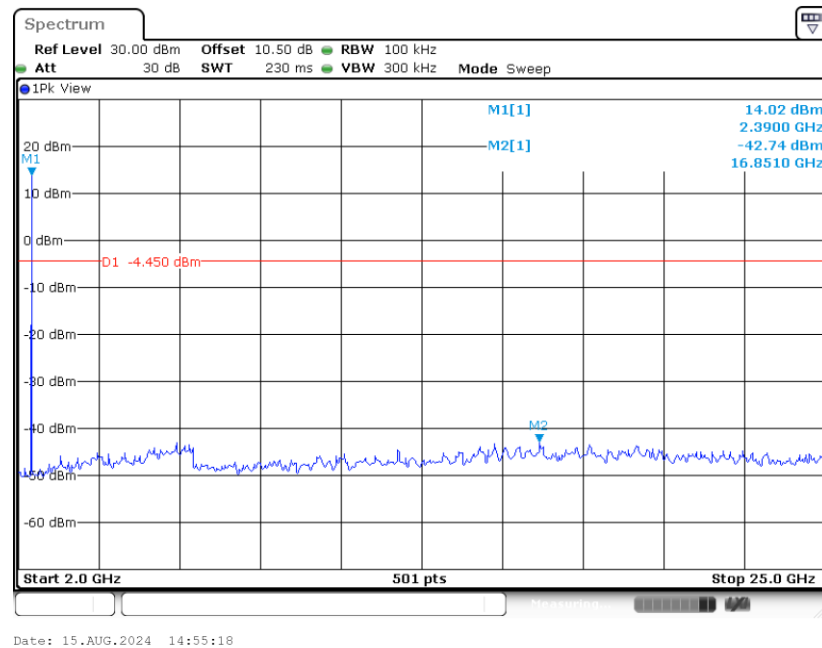
Date: 15.AUG.2024 15:52:55

3.4.6 Test Result of Conducted Spurious Emission Plots

Conducted Spurious Emission Plot on Zigbee Channel 11

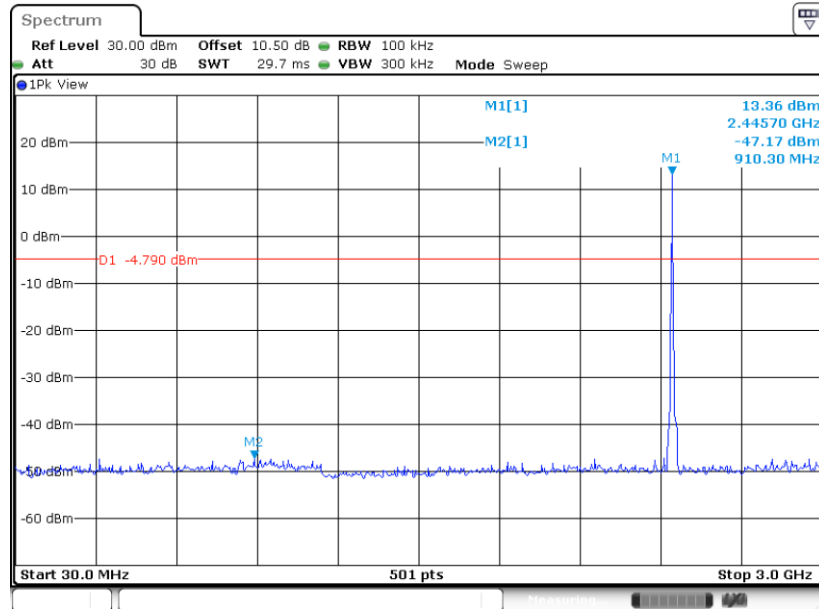


Conducted Spurious Emission Plot on Zigbee Channel 11



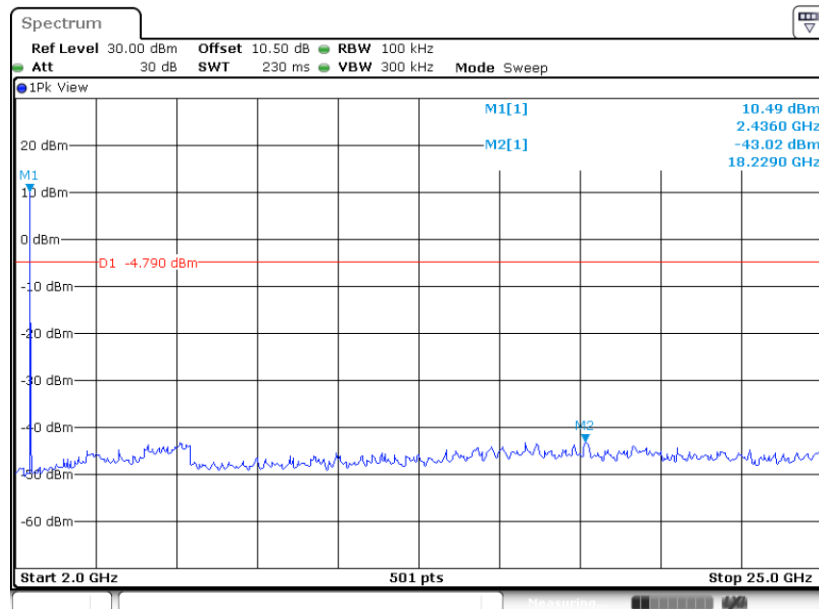


Conducted Spurious Emission Plot on Zigbee Channel 19



Date: 15.AUG.2024 15:03:15

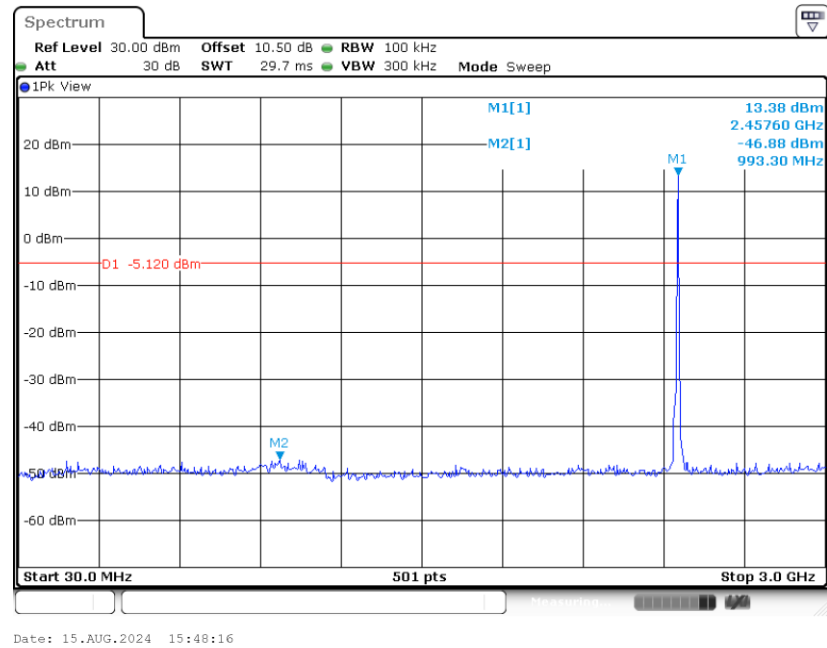
Conducted Spurious Emission Plot on Zigbee Channel 19



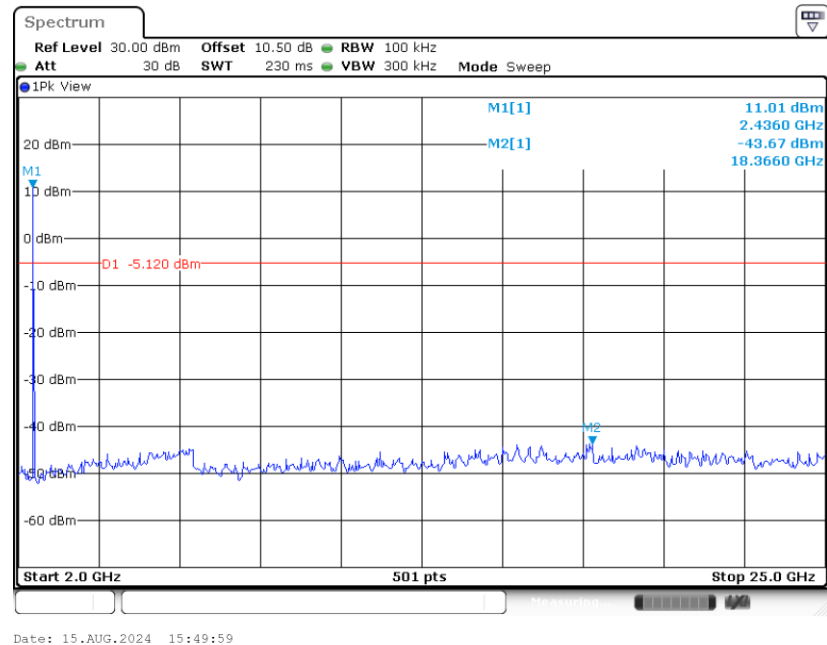
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Conducted Spurious Emission Plot on Zigbee Channel 21

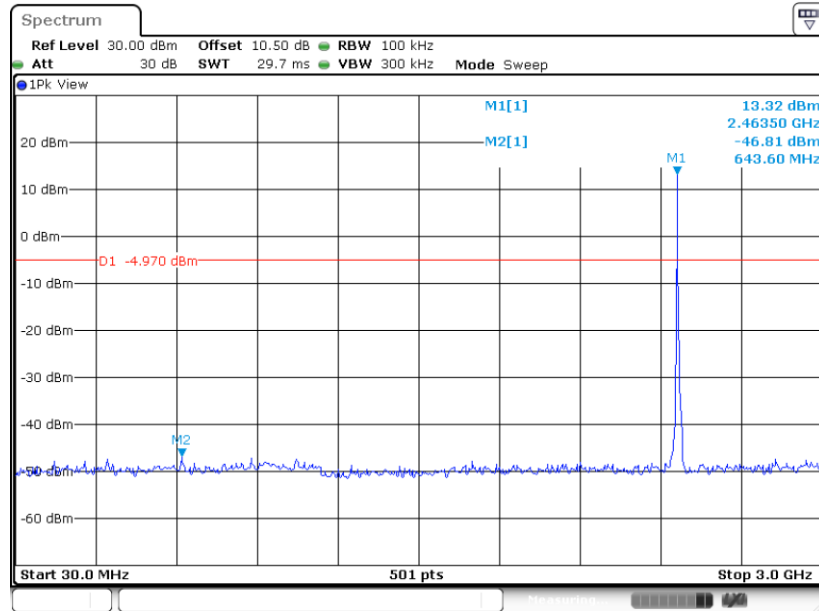


Conducted Spurious Emission Plot on Zigbee Channel 21

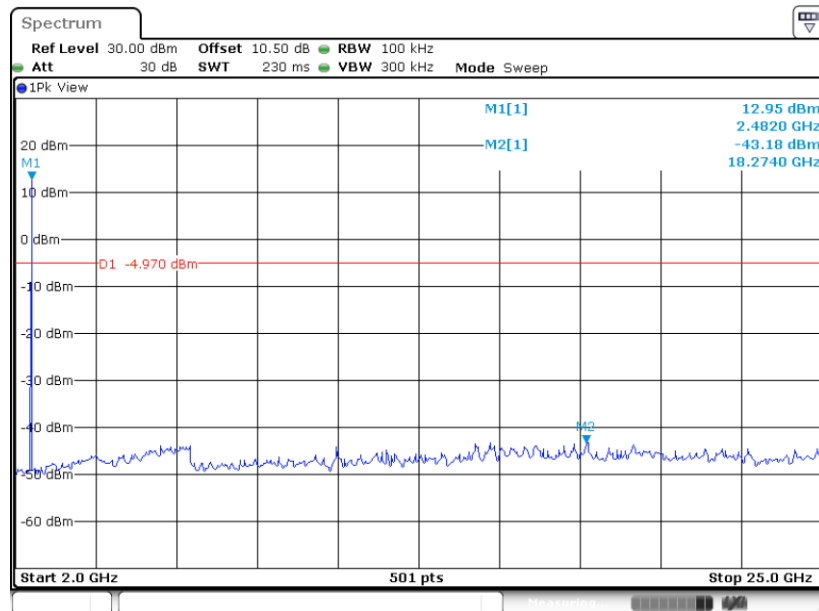




Conducted Spurious Emission Plot on Zigbee Channel 23

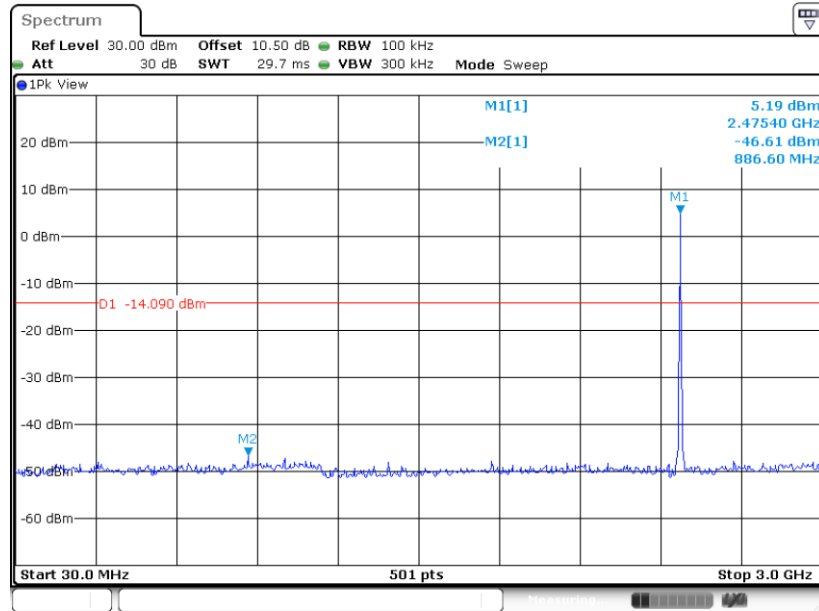


Conducted Spurious Emission Plot on Zigbee Channel 23



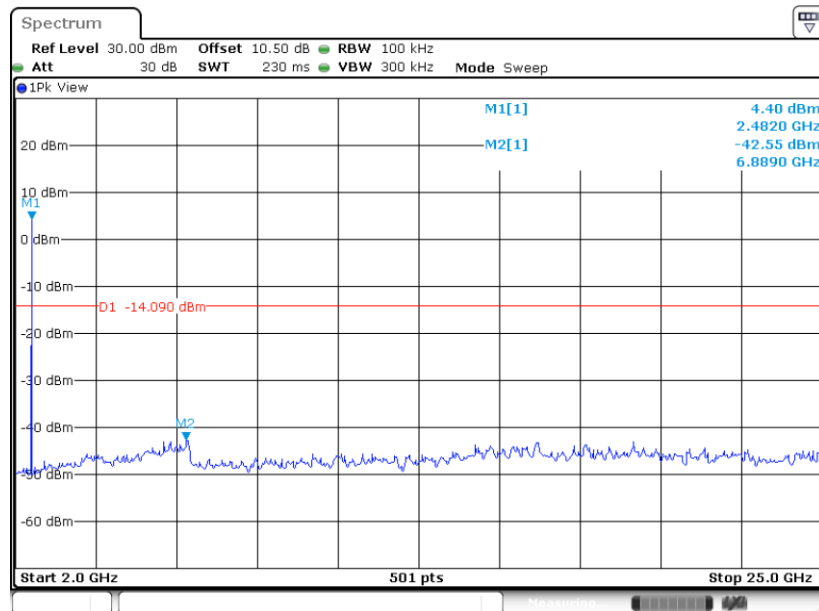


Conducted Spurious Emission Plot on Zigbee Channel 25



Date: 15.AUG.2024 15:53:21

Conducted Spurious Emission Plot on Zigbee Channel 25



Date: 15.AUG.2024 15:53:32

3.5 Spurious Emission Measurement in the Restricted Band

3.5.1 Limit of Spurious Emission Measurement in the Restricted Band

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

The section 4.0 of List of Measuring Equipment of this test report is used for test.



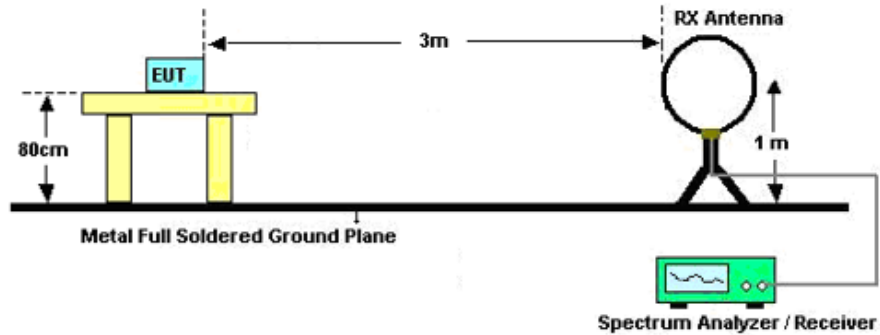
3.5.3 Test Procedures

1. The EUT was 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.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
4. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
5. For conducted spurious emission measurement in the restricted band, the RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
6. For measurement below 1GHz, if the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz, RBW=1MHz for $f > 1$ GHz ; VBW $\geq 3 \times$ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak;
 - (3) For average measurement: use duty cycle correction factor method per C63.10-2020 11.12.2.5.2.2. A correction factor shall be subtracted from the measurement results prior to comparing with the emission limit to compute the average emission level. The correction factor is computed as follows:
$$\text{Average Emission Level} = \text{Peak Emission Level} - 20 \cdot \log(1/\text{Duty cycle})$$

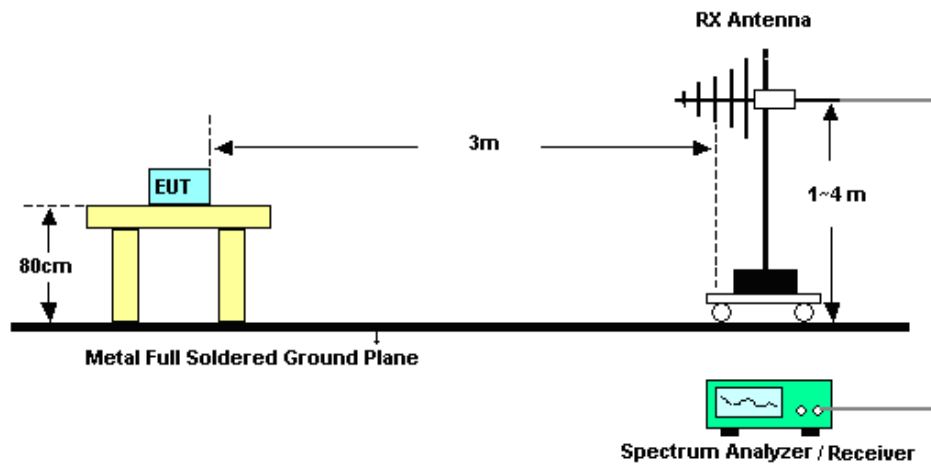
Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (25.63dB) derived from $20 \log (1/DT)$. This correction is only for signals that the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

3.5.4 Test Setup

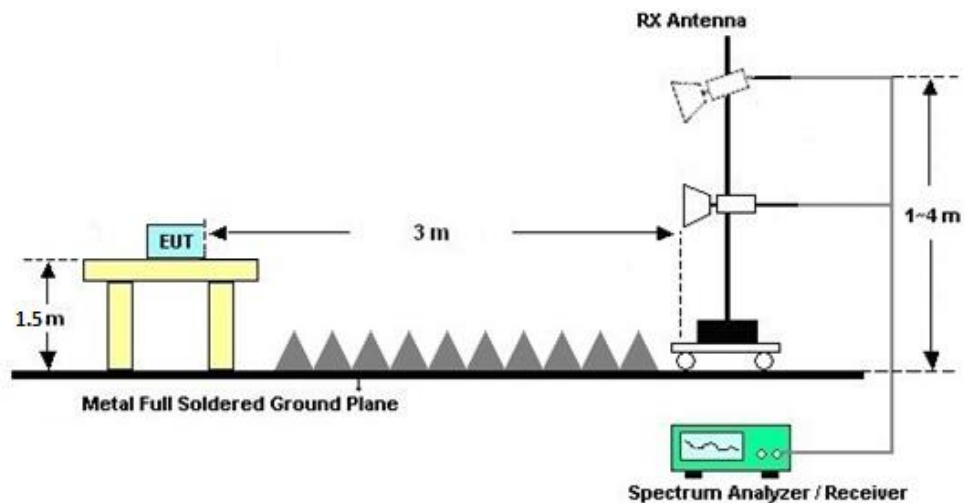
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

3.5.6 Test Results of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Test Result of Cabinet Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.

3.5.8 Duty Cycle

Please refer to Appendix D.

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 (dB μ V)	
	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.

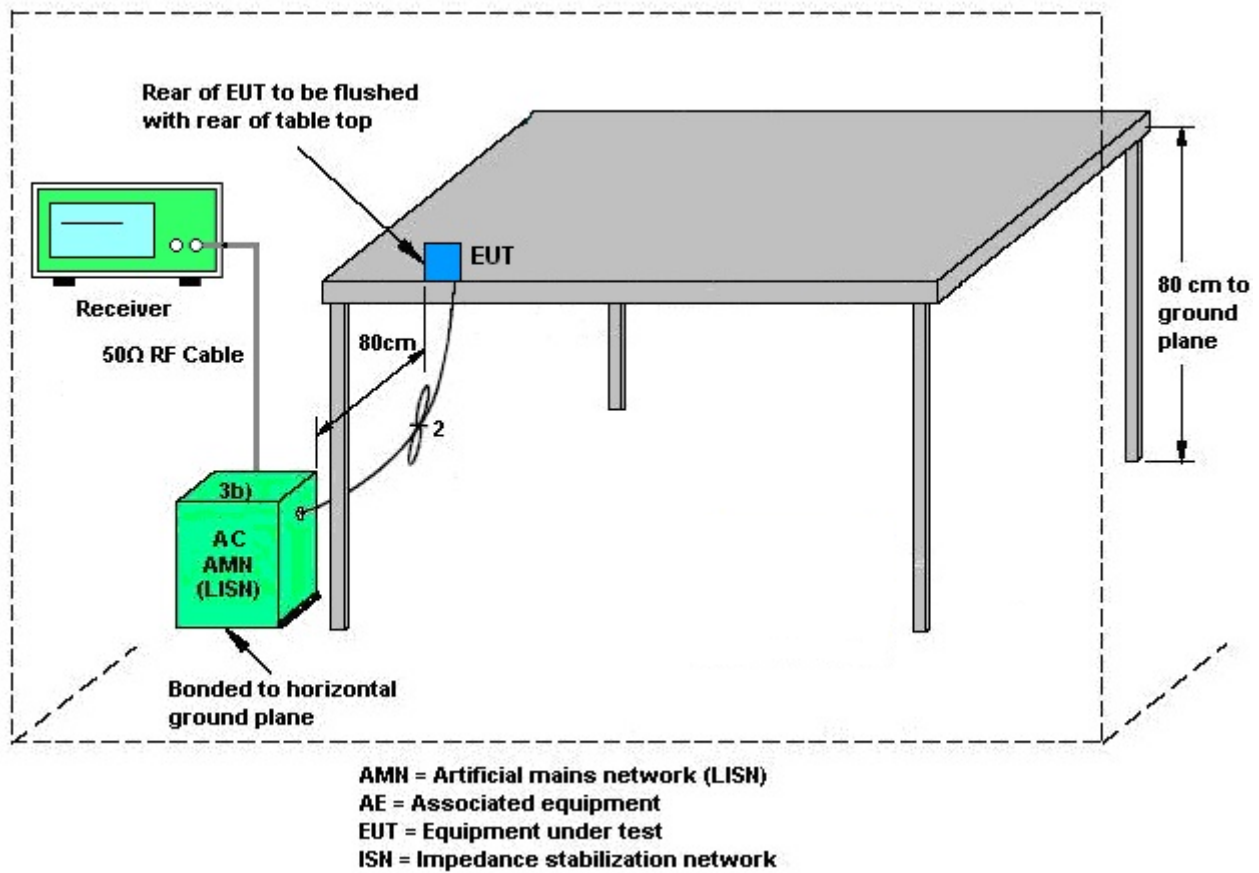
3.6.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was 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 should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz;Max 30dBm	Jan. 02, 2024	Aug. 08, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz~44GHz	Oct. 11, 2023	Aug. 08, 2024	Oct. 10, 2024	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11, 2023	Aug. 08, 2024	Sep. 10, 2024	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	59915	30MHz~1GHz	Aug. 19, 2023	Aug. 08, 2024	Aug. 18, 2024	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 11, 2024	Aug. 08, 2024	Apr. 10, 2025	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 06, 2024	Aug. 08, 2024	Jan. 05, 2025	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	372171	9KHz ~1GHZ	Jan. 02, 2024	Aug. 08, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
Amplifier	EM	EM18G40GA	060728	18~40GHz	Jan. 02, 2024	Aug. 08, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2082395	1Ghz-18Ghz	Jan. 02, 2024	Aug. 08, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270319	500MHz~26.5GHz	Oct. 11, 2023	Aug. 08, 2024	Oct. 10, 2024	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 08, 2024	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 08, 2024	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 08, 2024	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr 18, 2024	Jun. 19, 2024	Apr 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Jun. 19, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr 18, 2024	Jun. 19, 2024	Apr 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Jun. 19, 2024	Oct. 10, 2024	Conduction (CO01-KS)
Spectrum Analyzer	R&S	FSV30	101338	10Hz~30GHz	Jan. 05, 2024	Aug. 15, 2024	Jan. 04, 2025	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Aug. 15, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Aug. 15, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Aug. 15, 2024	Jan. 01, 2025	Conducted (TH01-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Conducted Power Spectral Density	±0.90 dB
Frequency	±0.04 ppm

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84 dB
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Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.30 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.06 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.18 dB
---	---------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.38 dB
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----- THE END -----



Appendix A. Conducted Test Results

ZIGBEE

Test Engineer:	Jacob Zhang	Temperature:	20~26	°C
Test Date:	2024/8/15	Relative Humidity:	40~51	%

Zigbee

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
Zigbee	2Mbps	1	11	2405	2.25	1.44	0.50	Pass
Zigbee	2Mbps	1	19	2445	2.32	1.27	0.50	Pass
Zigbee	2Mbps	1	21	2455	2.30	1.37	0.50	Pass
Zigbee	2Mbps	1	23	2465	2.30	1.54	0.50	Pass
Zigbee	2Mbps	1	25	2475	2.33	1.50	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	power setting	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
Zigbee	2Mbps	1	11	2405	0XB	18.03	30.00	0.00	18.03	36.00	Pass
Zigbee	2Mbps	1	19	2445	0XB	17.53	30.00	0.00	17.53	36.00	Pass
Zigbee	2Mbps	1	21	2455	0XB	17.47	30.00	0.00	17.47	36.00	Pass
Zigbee	2Mbps	1	23	2465	0XA	18.11	30.00	0.00	18.11	36.00	Pass
Zigbee	2Mbps	1	25	2475	0XE	9.27	30.00	0.00	9.27	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
Zigbee	2Mbps	1	11	2405	13.17	17.52
Zigbee	2Mbps	1	19	2445	13.17	17.03
Zigbee	2Mbps	1	21	2455	13.17	16.98
Zigbee	2Mbps	1	23	2465	13.17	18.04
Zigbee	2Mbps	1	25	2475	13.17	9.11

TEST RESULTS DATA
Peak Power Density

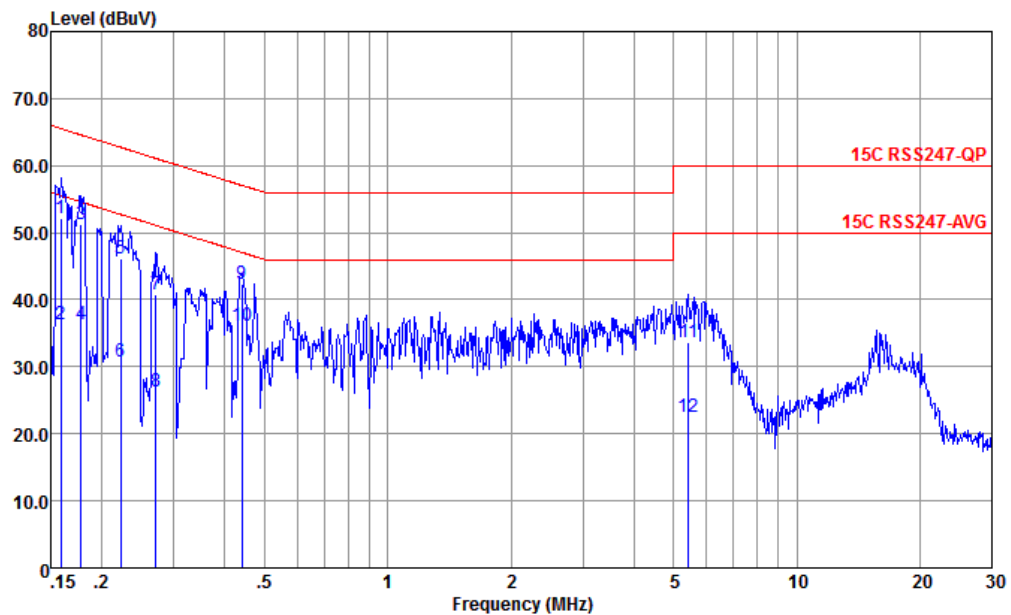
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
Zigbee	2Mbps	1	11	2405	15.55	7.80	0.00	8.00	Pass
Zigbee	2Mbps	1	19	2445	15.21	7.43	0.00	8.00	Pass
Zigbee	2Mbps	1	21	2455	14.88	7.50	0.00	8.00	Pass
Zigbee	2Mbps	1	23	2465	15.03	7.83	0.00	8.00	Pass
Zigbee	2Mbps	1	25	2475	5.91	-1.76	0.00	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



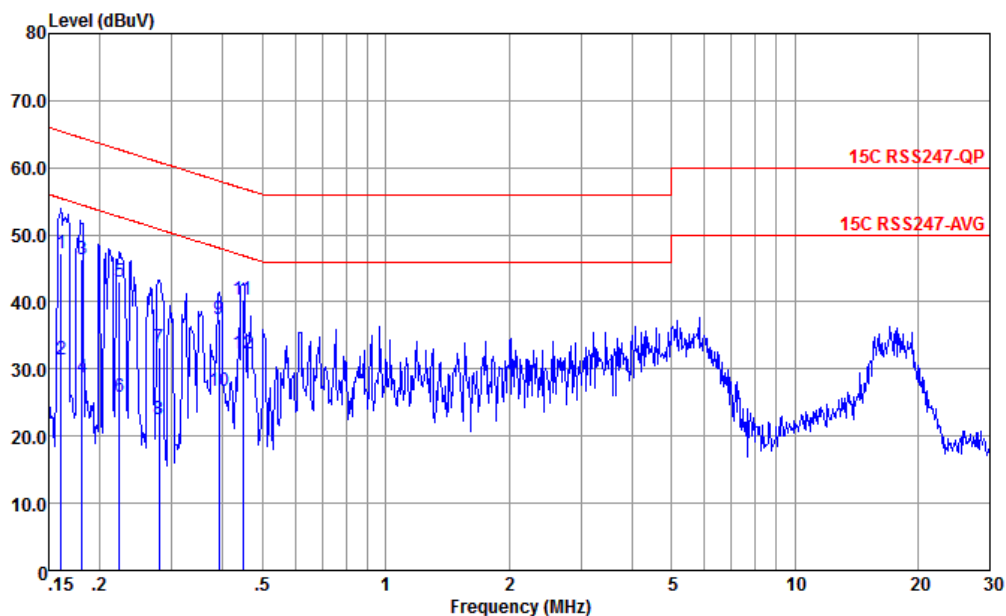
Site : CO01-KS

Condition : 15C RSS247-QP LISN-060105-L 2024 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.159	52.13	-13.39	65.52	41.60	0.11	10.42	QP
2	0.159	36.43	-19.09	55.52	25.90	0.11	10.42	Average
3	0.178	51.31	-13.28	64.59	40.80	0.10	10.41	QP
4	0.178	36.31	-18.28	54.59	25.80	0.10	10.41	Average
5	0.222	46.07	-16.67	62.74	35.60	0.08	10.39	QP
6	0.222	30.77	-21.97	52.74	20.30	0.08	10.39	Average
7	0.272	40.74	-20.33	61.07	30.30	0.09	10.35	QP
8	0.272	26.34	-24.73	51.07	15.90	0.09	10.35	Average
9	0.440	42.30	-14.77	57.07	32.11	-0.06	10.25	QP
10 *	0.440	36.00	-11.07	47.07	25.81	-0.06	10.25	Average
11	5.447	33.75	-26.25	60.00	23.90	-0.22	10.07	QP
12	5.447	22.45	-27.55	50.00	12.60	-0.22	10.07	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-N 2024 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.161	47.24	-18.19	65.43	36.70	0.12	10.42	QP
2	0.161	31.50	-23.93	55.43	20.96	0.12	10.42	Average
3	0.181	46.44	-18.02	64.46	35.90	0.13	10.41	QP
4	0.181	28.84	-25.62	54.46	18.30	0.13	10.41	Average
5	0.223	43.05	-19.65	62.70	32.60	0.06	10.39	QP
6	0.223	25.75	-26.95	52.70	15.30	0.06	10.39	Average
7	0.279	33.27	-27.58	60.85	23.00	-0.08	10.35	QP
8	0.279	22.57	-28.28	50.85	12.30	-0.08	10.35	Average
9	0.391	37.55	-20.48	58.03	27.41	-0.14	10.28	QP
10	0.391	26.65	-21.38	48.03	16.51	-0.14	10.28	Average
11	0.447	40.41	-16.52	56.93	30.30	-0.14	10.25	QP
12 *	0.447	32.41	-14.52	46.93	22.30	-0.14	10.25	Average

Note:

1. $\text{Level(dB}\mu\text{V)} = \text{Read Level(dB}\mu\text{V)} + \text{LISN Factor(dB)} + \text{Cable Loss(dB)}$
2. $\text{Over Limit(dB)} = \text{Level(dB}\mu\text{V)} - \text{Limit Line(dB}\mu\text{V)}$



Appendix C Radiated Spurious Emission Test Data

Test Engineer :	Jerry Xu	Relative Humidity :	41~42%
		Temperature :	22~23℃

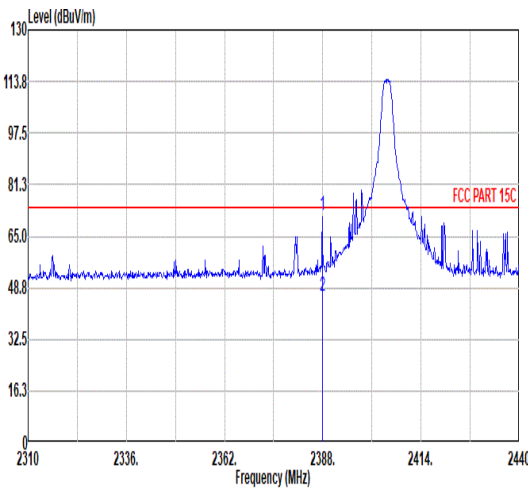
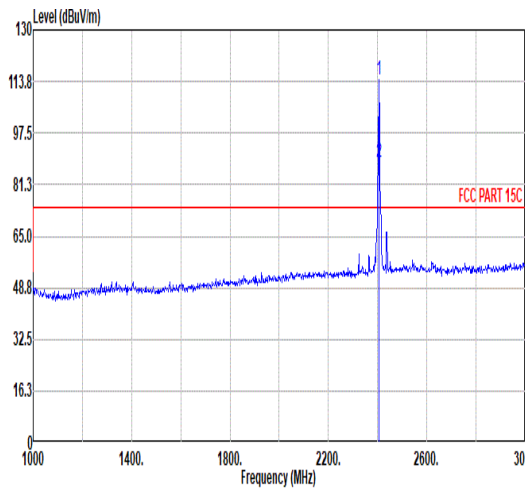
Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	Printed	Zigbee	11	2405	-	-	-
Mode 2	2400-2483.5	Printed	Zigbee	19	2445	-	-	-
Mode 3	2400-2483.5	Printed	Zigbee	25	2475	-	-	-
Mode 4	2400-2483.5	Printed	Zigbee	23	2465	-	-	-
Mode 5	2400-2483.5	Printed	Zigbee	21	2455	-	-	-

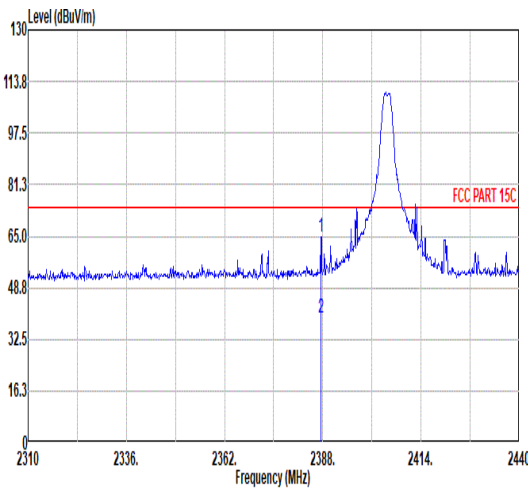
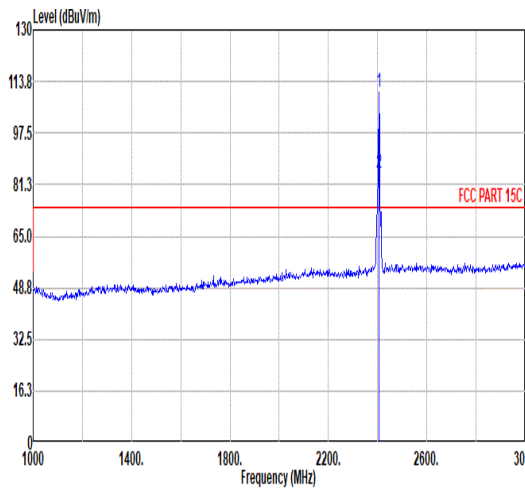
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Zigbee	11	2387.87	71.82	74.00	-2.18	H	PEAK	Pass	Band Edge
1	Zigbee	11	4810.00	60.55	74.00	-13.45	H	PEAK	Pass	Harmonic
2	Zigbee	19	2485.00	61.44	74.00	-12.56	H	PEAK	Pass	Band Edge
2	Zigbee	19	7335.00	72.29	74.00	-1.71	H	PEAK	Pass	Harmonic
3	Zigbee	25	2484.25	69.66	74.00	-4.34	H	PEAK	Pass	Band Edge
3	Zigbee	25	7425.00	61.89	74.00	-12.11	H	PEAK	Pass	Harmonic
4	Zigbee	23	2488.90	66.17	74.00	-7.83	V	PEAK	Pass	Band Edge
4	Zigbee	23	7393.50	64.60	74.00	-9.40	V	Peak	Pass	Harmonic
5	Zigbee	21	2486.62	63.53	74.00	-10.47	H	PEAK	Pass	Band Edge
5	Zigbee	21	7363.50	67.06	74.00	-6.94	V	Peak	Pass	Harmonic



Mode	1																																																																																																																								
	Band Edge																																																																																																																								
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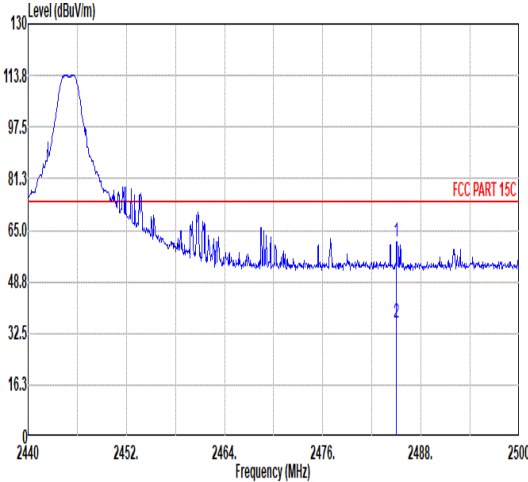


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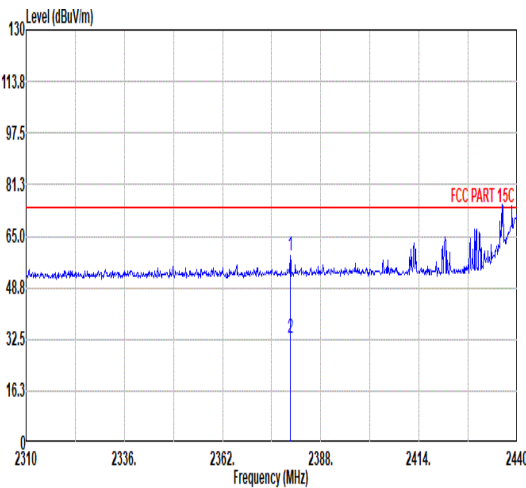
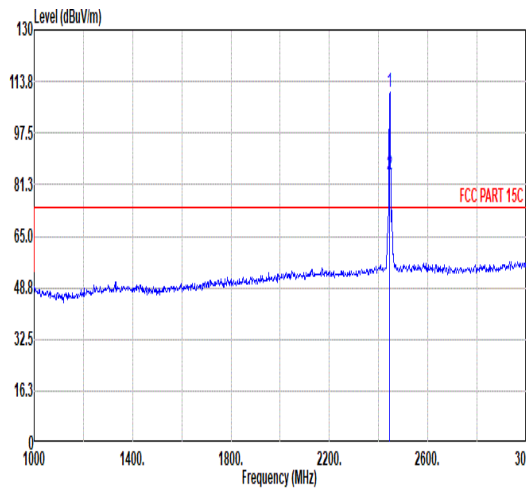


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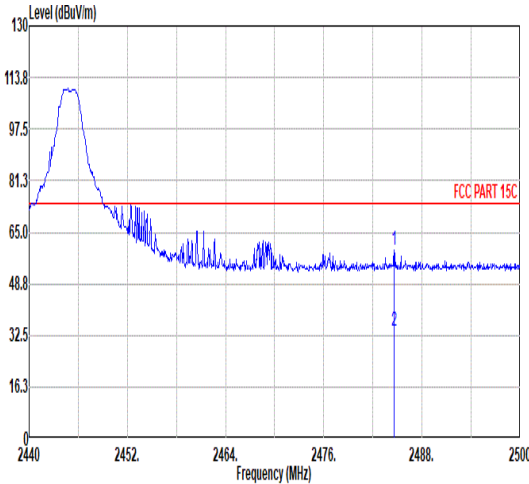


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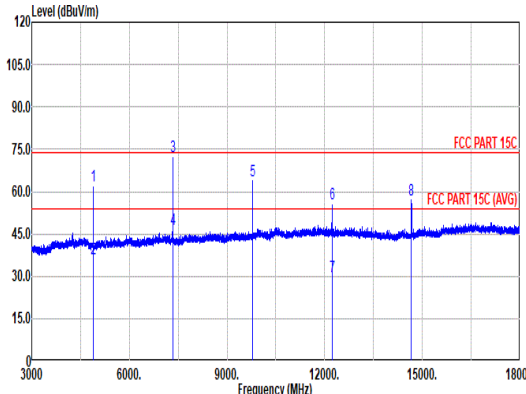
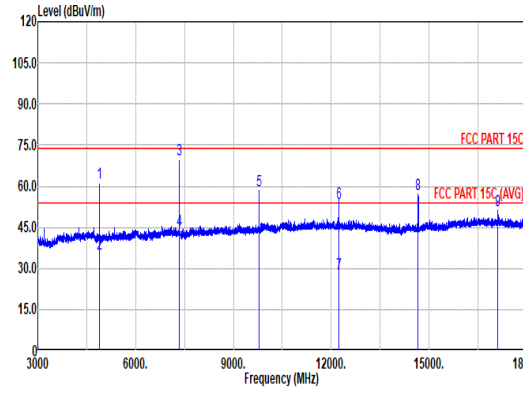


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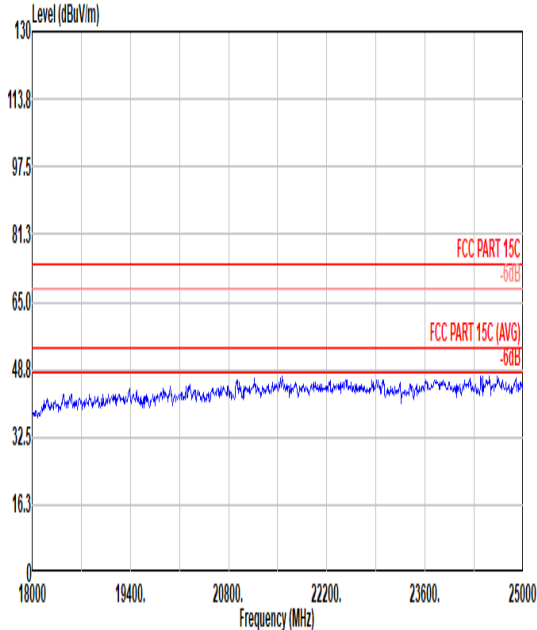
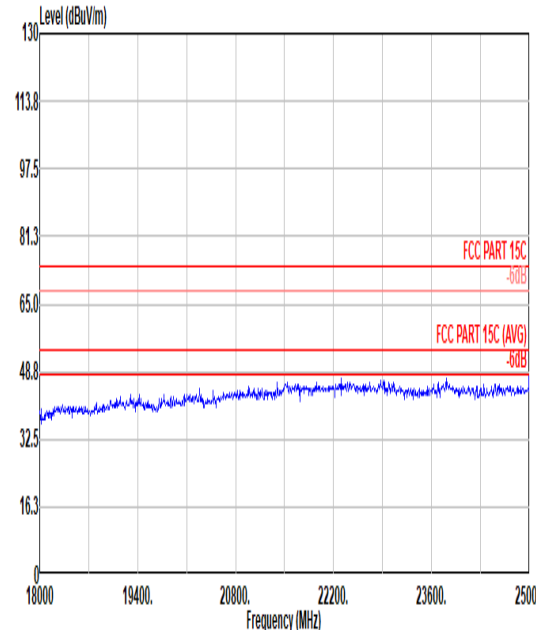


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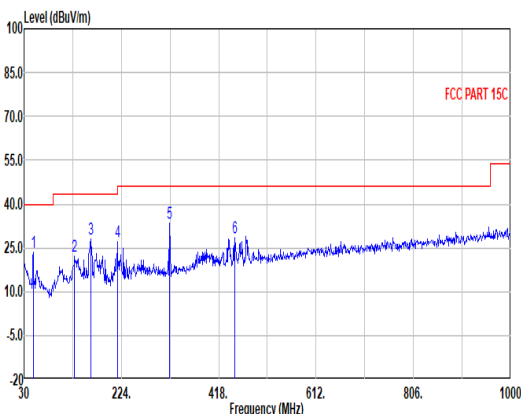
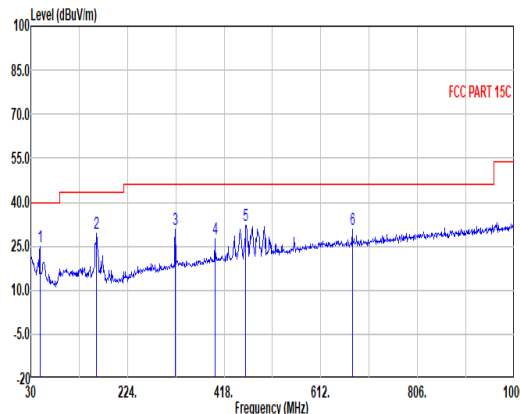


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6	12225.00	55.71	74.00	-18.29	62.95	38.00	15.45	61.49	0.00	100	149 PEAK																																																																																																																																												
7	12225.00	30.08	54.00	-23.92	37.33	38.00	15.44	61.49	0.00	100	149 AVERAGE																																																																																																																																												
8	14667.00	57.01	89.03	-32.02	63.87	39.57	17.00	63.43	0.00	100	313 Peak																																																																																																																																												
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<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4890.00</td><td>61.11</td><td>74.00</td><td>-12.89</td><td>78.66</td><td>34.12</td><td>9.54</td><td>61.21</td><td>0.00</td><td>100</td><td>332 PEAK</td></tr><tr><td>2</td><td>4890.00</td><td>35.48</td><td>54.00</td><td>-18.52</td><td>53.03</td><td>34.12</td><td>9.54</td><td>61.21</td><td>0.00</td><td>100</td><td>332 AVERAGE</td></tr><tr><td>3</td><td>7335.00</td><td>69.70</td><td>74.00</td><td>-4.30</td><td>83.08</td><td>35.70</td><td>11.70</td><td>60.78</td><td>0.00</td><td>100</td><td>60 PEAK</td></tr><tr><td>4</td><td>7335.00</td><td>44.07</td><td>54.00</td><td>-9.93</td><td>57.45</td><td>35.70</td><td>11.70</td><td>60.78</td><td>0.00</td><td>100</td><td>60 AVERAGE</td></tr><tr><td>5</td><td>9781.50</td><td>58.41</td><td>85.54</td><td>-27.13</td><td>69.04</td><td>37.00</td><td>13.60</td><td>61.23</td><td>0.00</td><td>100</td><td>81 Peak</td></tr><tr><td>6</td><td>12225.00</td><td>53.67</td><td>74.00</td><td>-20.33</td><td>60.91</td><td>38.00</td><td>15.45</td><td>61.49</td><td>0.00</td><td>100</td><td>182 PEAK</td></tr><tr><td>7</td><td>12225.00</td><td>28.04</td><td>54.00</td><td>-25.96</td><td>35.28</td><td>38.00</td><td>15.45</td><td>61.49</td><td>0.00</td><td>100</td><td>182 AVERAGE</td></tr><tr><td>8</td><td>14667.00</td><td>56.92</td><td>85.54</td><td>-28.62</td><td>63.78</td><td>39.57</td><td>17.00</td><td>63.43</td><td>0.00</td><td>100</td><td>112 Peak</td></tr><tr><td>9</td><td>17112.00</td><td>50.97</td><td>85.54</td><td>-34.57</td><td>54.62</td><td>40.99</td><td>18.28</td><td>62.92</td><td>0.00</td><td>100</td><td>139 Peak</td></tr></table>												Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	4890.00	61.11	74.00	-12.89	78.66	34.12	9.54	61.21	0.00	100	332 PEAK	2	4890.00	35.48	54.00	-18.52	53.03	34.12	9.54	61.21	0.00	100	332 AVERAGE	3	7335.00	69.70	74.00	-4.30	83.08	35.70	11.70	60.78	0.00	100	60 PEAK	4	7335.00	44.07	54.00	-9.93	57.45	35.70	11.70	60.78	0.00	100	60 AVERAGE	5	9781.50	58.41	85.54	-27.13	69.04	37.00	13.60	61.23	0.00	100	81 Peak	6	12225.00	53.67	74.00	-20.33	60.91	38.00	15.45	61.49	0.00	100	182 PEAK	7	12225.00	28.04	54.00	-25.96	35.28	38.00	15.45	61.49	0.00	100	182 AVERAGE	8	14667.00	56.92	85.54	-28.62	63.78	39.57	17.00	63.43	0.00	100	112 Peak	9	17112.00	50.97	85.54	-34.57	54.62	40.99	18.28	62.92	0.00	100	139 Peak
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																																																														
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1	4890.00	61.11	74.00	-12.89	78.66	34.12	9.54	61.21	0.00	100	332 PEAK																																																																																																																																												
2	4890.00	35.48	54.00	-18.52	53.03	34.12	9.54	61.21	0.00	100	332 AVERAGE																																																																																																																																												
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4	7335.00	44.07	54.00	-9.93	57.45	35.70	11.70	60.78	0.00	100	60 AVERAGE																																																																																																																																												
5	9781.50	58.41	85.54	-27.13	69.04	37.00	13.60	61.23	0.00	100	81 Peak																																																																																																																																												
6	12225.00	53.67	74.00	-20.33	60.91	38.00	15.45	61.49	0.00	100	182 PEAK																																																																																																																																												
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8	14667.00	56.92	85.54	-28.62	63.78	39.57	17.00	63.43	0.00	100	112 Peak																																																																																																																																												
9	17112.00	50.97	85.54	-34.57	54.62	40.99	18.28	62.92	0.00	100	139 Peak																																																																																																																																												

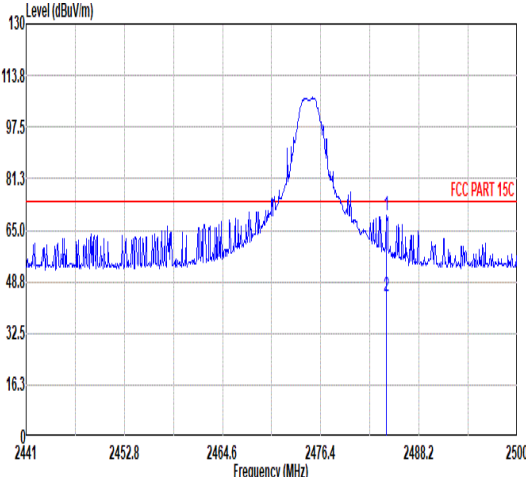
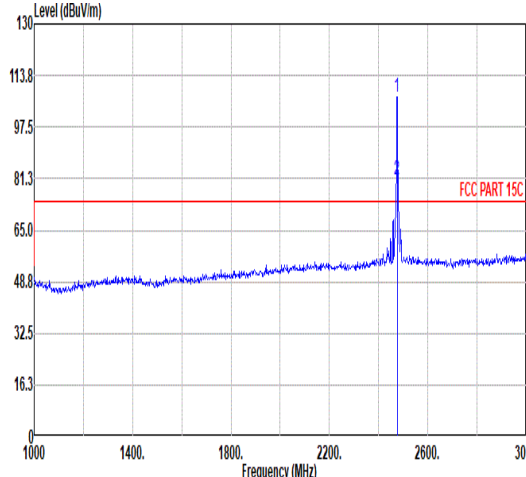


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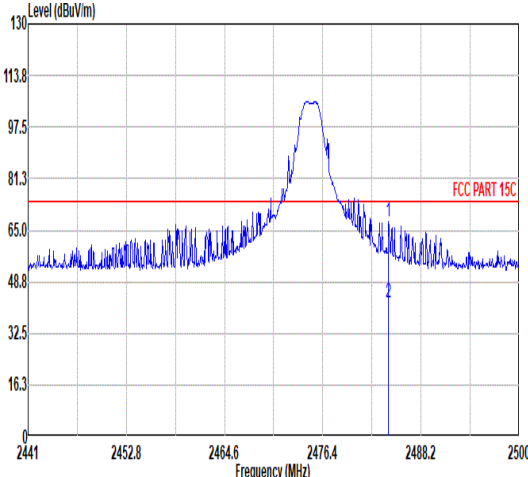
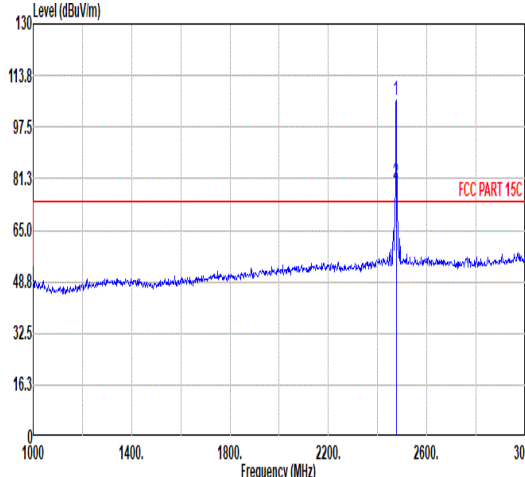


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	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><td>1</td><td>48.43</td><td>23.55</td><td>40.00</td><td>-16.45</td><td>40.05</td><td>15.45</td><td>0.98</td><td>32.93</td><td>0.00</td><td>--- Peak</td></tr><tr><td>2</td><td>130.88</td><td>22.07</td><td>43.50</td><td>-21.43</td><td>35.53</td><td>17.56</td><td>1.69</td><td>32.71</td><td>0.00</td><td>--- Peak</td></tr><tr><td>3</td><td>162.89</td><td>27.96</td><td>43.50</td><td>-15.54</td><td>42.47</td><td>16.32</td><td>1.86</td><td>32.69</td><td>0.00</td><td>--- Peak</td></tr><tr><td>4</td><td>216.24</td><td>27.04</td><td>46.00</td><td>-18.96</td><td>42.59</td><td>15.30</td><td>2.09</td><td>32.94</td><td>0.00</td><td>--- Peak</td></tr><tr><td>5</td><td>320.03</td><td>33.22</td><td>46.00</td><td>-12.78</td><td>43.62</td><td>19.85</td><td>2.64</td><td>32.89</td><td>0.00</td><td>--- Peak</td></tr><tr><td>6</td><td>450.01</td><td>28.52</td><td>46.00</td><td>-17.48</td><td>35.55</td><td>22.95</td><td>3.14</td><td>33.12</td><td>0.00</td><td>--- Peak</td></tr></table>												Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark	1	48.43	23.55	40.00	-16.45	40.05	15.45	0.98	32.93	0.00	--- Peak	2	130.88	22.07	43.50	-21.43	35.53	17.56	1.69	32.71	0.00	--- Peak	3	162.89	27.96	43.50	-15.54	42.47	16.32	1.86	32.69	0.00	--- Peak	4	216.24	27.04	46.00	-18.96	42.59	15.30	2.09	32.94	0.00	--- Peak	5	320.03	33.22	46.00	-12.78	43.62	19.85	2.64	32.89	0.00	--- Peak	6	450.01	28.52	46.00	-17.48	35.55	22.95	3.14	33.12	0.00	--- Peak
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Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																																																									
1	48.43	23.55	40.00	-16.45	40.05	15.45	0.98	32.93	0.00	--- Peak																																																																																									
2	130.88	22.07	43.50	-21.43	35.53	17.56	1.69	32.71	0.00	--- Peak																																																																																									
3	162.89	27.96	43.50	-15.54	42.47	16.32	1.86	32.69	0.00	--- Peak																																																																																									
4	216.24	27.04	46.00	-18.96	42.59	15.30	2.09	32.94	0.00	--- Peak																																																																																									
5	320.03	33.22	46.00	-12.78	43.62	19.85	2.64	32.89	0.00	--- Peak																																																																																									
6	450.01	28.52	46.00	-17.48	35.55	22.95	3.14	33.12	0.00	--- Peak																																																																																									
																																																																																																			
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	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																										
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																																																									
1	48.43	25.05	40.00	-14.95	41.55	15.45	0.98	32.93	0.00	--- Peak																																																																																									
2	161.92	29.32	43.50	-14.18	43.78	16.38	1.85	32.69	0.00	--- Peak																																																																																									
3	320.03	30.57	46.00	-15.43	40.97	19.85	2.64	32.89	0.00	--- Peak																																																																																									
4	399.57	27.58	46.00	-18.42	36.03	21.87	2.99	33.31	0.00	--- Peak																																																																																									
5	461.65	32.17	46.00	-13.83	39.00	23.21	3.14	33.18	0.00	--- Peak																																																																																									
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		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																																			
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2	2484.25	44.03	54.00	-9.97	30.92	32.61	6.73	32.23	6.00	100	139 AVERAGE																																																																																																																		
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1	2475.00	106.73	-----	-----	93.68	32.56	6.72	32.23	6.00	100	139 PEAK																																																																																																																		
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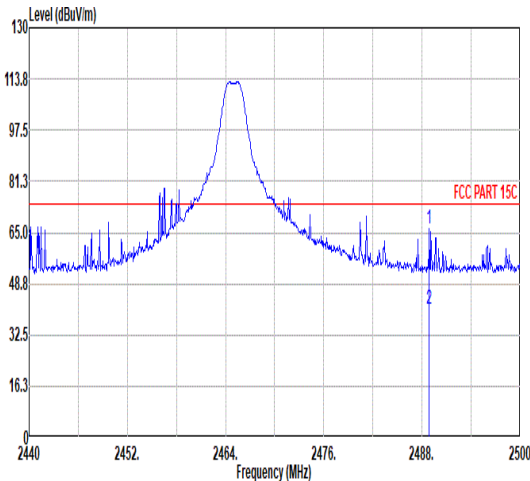


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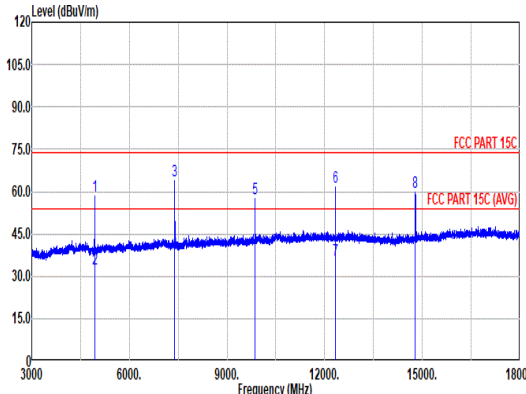
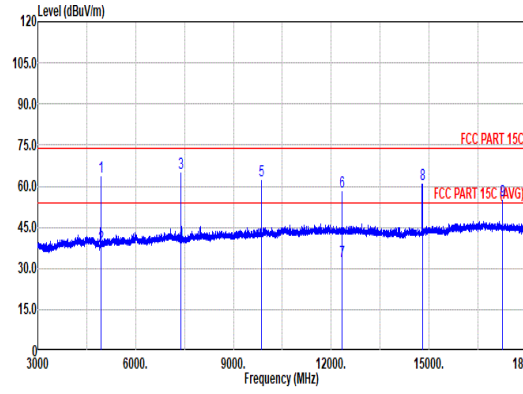


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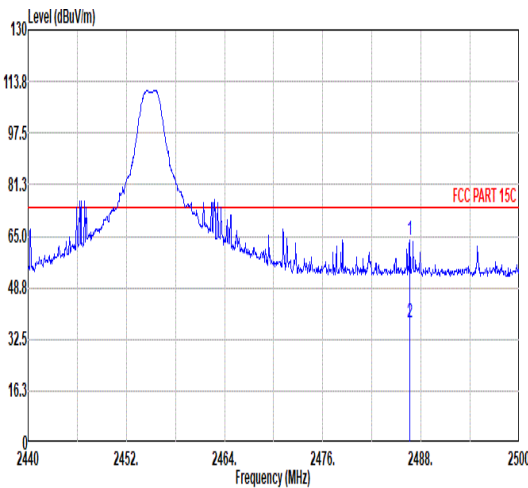
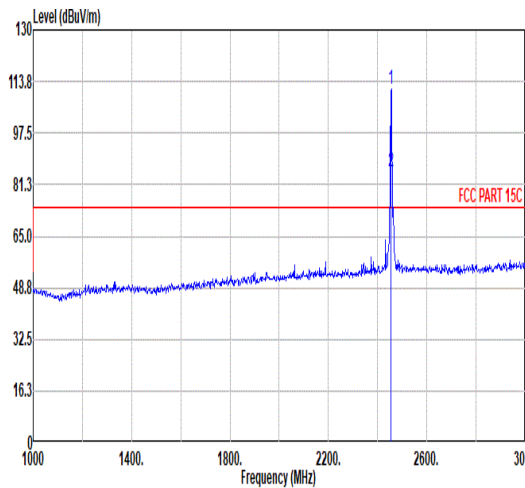


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1	2488.90	66.17	74.00	-7.83	53.04	32.63	6.74	32.24	6.00	250	266 PEAK																																																									
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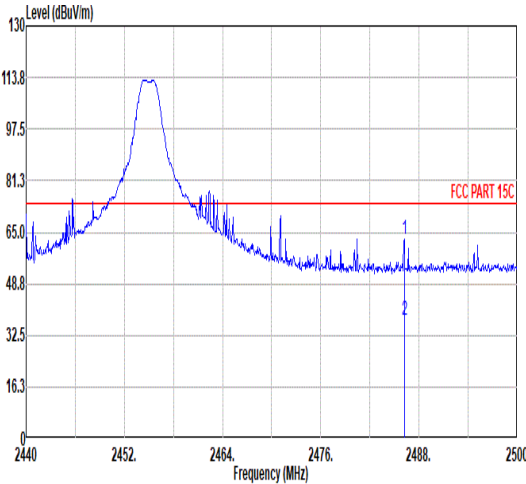
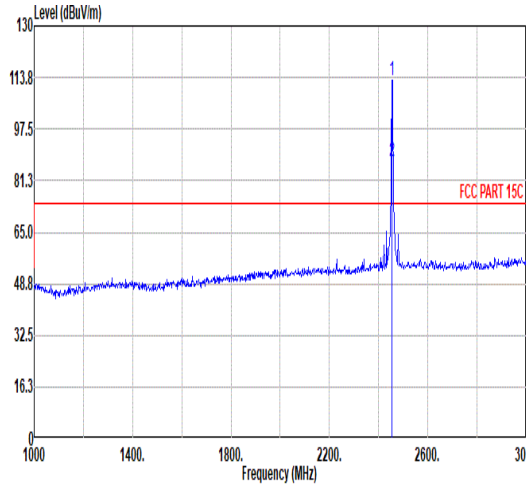


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1	2455.00	111.15	-----	-----	98.23	32.44	6.70	32.22	6.00	100	235 PEAK																																																									
2	2455.00	85.52	-----	-----	72.60	32.44	6.70	32.22	6.00	100	235 AVERAGE																																																									



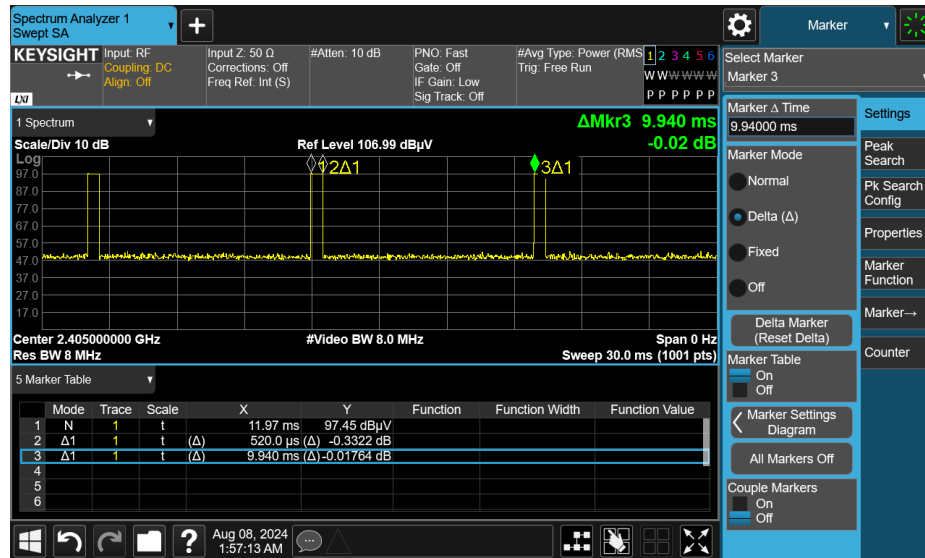
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	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2486.20</td><td>62.76</td><td>74.00</td><td>-11.24</td><td>49.64</td><td>32.62</td><td>6.74</td><td>32.24</td><td>6.00</td><td>100</td><td>140</td><td>PEAK</td></tr><tr><td>2</td><td>2486.20</td><td>37.13</td><td>54.00</td><td>-16.87</td><td>24.01</td><td>32.62</td><td>6.74</td><td>32.24</td><td>6.00</td><td>100</td><td>140</td><td>AVERAGE</td></tr></table>							Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2486.20	62.76	74.00	-11.24	49.64	32.62	6.74	32.24	6.00	100	140	PEAK	2	2486.20	37.13	54.00	-16.87	24.01	32.62	6.74	32.24	6.00	100	140	AVERAGE	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2455.00</td><td>112.78</td><td>-----</td><td>-----</td><td>99.86</td><td>32.44</td><td>6.70</td><td>32.22</td><td>6.00</td><td>100</td><td>140</td><td>PEAK</td></tr><tr><td>2</td><td>2455.00</td><td>87.15</td><td>-----</td><td>-----</td><td>74.25</td><td>32.43</td><td>6.69</td><td>32.22</td><td>6.00</td><td>100</td><td>140</td><td>AVERAGE</td></tr></table>							Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2455.00	112.78	-----	-----	99.86	32.44	6.70	32.22	6.00	100	140	PEAK	2	2455.00	87.15	-----	-----	74.25	32.43	6.69	32.22	6.00	100	140	AVERAGE
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Peak Avg																																																																																																																																																																																																																																																																								
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Peak</td></tr><tr><td>4</td><td>7366.50</td><td>38.87</td><td>54.00</td><td>-15.13</td><td>52.31</td><td>35.70</td><td>11.71</td><td>60.85</td><td>0.00</td><td>300</td><td>271 Average</td></tr><tr><td>5</td><td>9817.50</td><td>60.32</td><td>85.56</td><td>-25.24</td><td>70.91</td><td>37.03</td><td>13.62</td><td>61.24</td><td>0.00</td><td>---</td><td>--- Peak</td></tr><tr><td>6</td><td>12273.00</td><td>54.98</td><td>74.00</td><td>-19.02</td><td>62.23</td><td>38.00</td><td>15.48</td><td>61.53</td><td>0.00</td><td>100</td><td>69 Peak</td></tr><tr><td>7</td><td>12273.00</td><td>29.35</td><td>54.00</td><td>-24.65</td><td>36.60</td><td>38.00</td><td>15.48</td><td>61.53</td><td>0.00</td><td>100</td><td>69 Average</td></tr><tr><td>8</td><td>14727.00</td><td>58.58</td><td>85.56</td><td>-26.98</td><td>65.43</td><td>39.60</td><td>17.04</td><td>63.49</td><td>0.00</td><td>---</td><td>--- Peak</td></tr></table>													Freq	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	4909.50	57.57	74.00	-16.43	75.13	34.00	9.56	61.20	0.00	100	314 Peak	2	4909.50	31.94	54.00	-22.06	49.50	34.00	9.56	61.20	0.00	100	314 Average	3	7366.50	64.50	74.00	-9.50	77.94	35.70	11.71	60.85	0.00	300	271 Peak	4	7366.50	38.87	54.00	-15.13	52.31	35.70	11.71	60.85	0.00	300	271 Average	5	9817.50	60.32	85.56	-25.24	70.91	37.03	13.62	61.24	0.00	---	--- Peak	6	12273.00	54.98	74.00	-19.02	62.23	38.00	15.48	61.53	0.00	100	69 Peak	7	12273.00	29.35	54.00	-24.65	36.60	38.00	15.48	61.53	0.00	100	69 Average	8	14727.00	58.58	85.56	-26.98	65.43	39.60	17.04	63.49	0.00	---	--- Peak	<table><tr><th></th><th>Freq</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4911.00</td><td>58.80</td><td>74.00</td><td>-15.20</td><td>76.36</td><td>34.00</td><td>9.56</td><td>61.20</td><td>0.00</td><td>100</td><td>65 Peak</td></tr><tr><td>2</td><td>4911.00</td><td>33.17</td><td>54.00</td><td>-20.83</td><td>50.73</td><td>34.00</td><td>9.56</td><td>61.20</td><td>0.00</td><td>100</td><td>65 Average</td></tr><tr><td>3</td><td>7363.50</td><td>67.06</td><td>74.00</td><td>-6.94</td><td>80.49</td><td>35.70</td><td>11.71</td><td>60.84</td><td>0.00</td><td>100</td><td>257 Peak</td></tr><tr><td>4</td><td>7363.50</td><td>41.43</td><td>54.00</td><td>-12.57</td><td>54.86</td><td>35.70</td><td>11.71</td><td>60.84</td><td>0.00</td><td>100</td><td>257 Average</td></tr><tr><td>5</td><td>9822.00</td><td>64.15</td><td>87.55</td><td>-23.40</td><td>74.74</td><td>37.04</td><td>13.62</td><td>61.25</td><td>0.00</td><td>---</td><td>--- Peak</td></tr><tr><td>6</td><td>12277.50</td><td>53.82</td><td>74.00</td><td>-20.18</td><td>61.06</td><td>38.00</td><td>15.49</td><td>61.53</td><td>0.00</td><td>100</td><td>268 Peak</td></tr><tr><td>7</td><td>12277.50</td><td>28.19</td><td>54.00</td><td>-25.81</td><td>35.43</td><td>38.00</td><td>15.49</td><td>61.53</td><td>0.00</td><td>100</td><td>268 Average</td></tr><tr><td>8</td><td>14733.00</td><td>62.76</td><td>87.55</td><td>-24.79</td><td>69.62</td><td>39.60</td><td>17.04</td><td>63.50</td><td>0.00</td><td>---</td><td>--- Peak</td></tr><tr><td>9</td><td>17188.50</td><td>56.88</td><td>87.55</td><td>-30.67</td><td>60.56</td><td>40.91</td><td>18.33</td><td>62.92</td><td>0.00</td><td>---</td><td>--- Peak</td></tr></table>		Freq	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	4911.00	58.80	74.00	-15.20	76.36	34.00	9.56	61.20	0.00	100	65 Peak	2	4911.00	33.17	54.00	-20.83	50.73	34.00	9.56	61.20	0.00	100	65 Average	3	7363.50	67.06	74.00	-6.94	80.49	35.70	11.71	60.84	0.00	100	257 Peak	4	7363.50	41.43	54.00	-12.57	54.86	35.70	11.71	60.84	0.00	100	257 Average	5	9822.00	64.15	87.55	-23.40	74.74	37.04	13.62	61.25	0.00	---	--- Peak	6	12277.50	53.82	74.00	-20.18	61.06	38.00	15.49	61.53	0.00	100	268 Peak	7	12277.50	28.19	54.00	-25.81	35.43	38.00	15.49	61.53	0.00	100	268 Average	8	14733.00	62.76	87.55	-24.79	69.62	39.60	17.04	63.50	0.00	---	--- Peak	9	17188.50	56.88	87.55	-30.67	60.56	40.91	18.33	62.92	0.00	---
	Freq	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																																																																																																													
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1	4909.50	57.57	74.00	-16.43	75.13	34.00	9.56	61.20	0.00	100	314 Peak																																																																																																																																																																																																																																																													
2	4909.50	31.94	54.00	-22.06	49.50	34.00	9.56	61.20	0.00	100	314 Average																																																																																																																																																																																																																																																													
3	7366.50	64.50	74.00	-9.50	77.94	35.70	11.71	60.85	0.00	300	271 Peak																																																																																																																																																																																																																																																													
4	7366.50	38.87	54.00	-15.13	52.31	35.70	11.71	60.85	0.00	300	271 Average																																																																																																																																																																																																																																																													
5	9817.50	60.32	85.56	-25.24	70.91	37.03	13.62	61.24	0.00	---	--- Peak																																																																																																																																																																																																																																																													
6	12273.00	54.98	74.00	-19.02	62.23	38.00	15.48	61.53	0.00	100	69 Peak																																																																																																																																																																																																																																																													
7	12273.00	29.35	54.00	-24.65	36.60	38.00	15.48	61.53	0.00	100	69 Average																																																																																																																																																																																																																																																													
8	14727.00	58.58	85.56	-26.98	65.43	39.60	17.04	63.49	0.00	---	--- Peak																																																																																																																																																																																																																																																													
	Freq	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																																																																																																													
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																																																																																																																																																																													
1	4911.00	58.80	74.00	-15.20	76.36	34.00	9.56	61.20	0.00	100	65 Peak																																																																																																																																																																																																																																																													
2	4911.00	33.17	54.00	-20.83	50.73	34.00	9.56	61.20	0.00	100	65 Average																																																																																																																																																																																																																																																													
3	7363.50	67.06	74.00	-6.94	80.49	35.70	11.71	60.84	0.00	100	257 Peak																																																																																																																																																																																																																																																													
4	7363.50	41.43	54.00	-12.57	54.86	35.70	11.71	60.84	0.00	100	257 Average																																																																																																																																																																																																																																																													
5	9822.00	64.15	87.55	-23.40	74.74	37.04	13.62	61.25	0.00	---	--- Peak																																																																																																																																																																																																																																																													
6	12277.50	53.82	74.00	-20.18	61.06	38.00	15.49	61.53	0.00	100	268 Peak																																																																																																																																																																																																																																																													
7	12277.50	28.19	54.00	-25.81	35.43	38.00	15.49	61.53	0.00	100	268 Average																																																																																																																																																																																																																																																													
8	14733.00	62.76	87.55	-24.79	69.62	39.60	17.04	63.50	0.00	---	--- Peak																																																																																																																																																																																																																																																													
9	17188.50	56.88	87.55	-30.67	60.56	40.91	18.33	62.92	0.00	---	--- Peak																																																																																																																																																																																																																																																													

Appendix D. Duty Cycle Plots

Zigbee mode



Note:

Duty cycle = $Tx_on / Tx_on+off = 0.52 \text{ (ms)} / 9.94 \text{ (ms)} = 5.23 \%$

Duty cycle correction factor = $20 \cdot \log(1/\text{Duty cycle}) = 25.63 \text{ dB}$