

Prüfbericht-Nr.: Test report no.:	IN23FVRY 001	Auftrags-Nr.: Order no.:	146769713 0010	Seite 1 von 50 Page 1 of 50
Kunden-Referenz-Nr.: Client reference no.:	2472292	Auftragsdatum: Order date:	2023-03-02	
Auftraggeber: Client:	Cradlewise Incorporated, 479 Jessie street, San Francisco CA, 94103			
Prüfgegenstand: Test item:	Cradlewise Smart Crib	Serien-Nr.: serial no.:	2205-00001-LT1	
Bezeichnung: Identification:	2V0			
Auftrags-Inhalt: Order content:	Testing and issue of Test Report with Grant Certificate			
Prüfgrundlage: Test specification:	FCC Part 15 Subpart C 15.247, 15.207, 15.205, 15.209			
Wareneingangsdatum: Date of sample receipt:	2023-03-02			
Prüfmuster-Nr & Test sample no &	A003384834-001 & A003384834-003			
Prüfzeitraum: Testing period:	2023-03-02 - 2023-03-09			
Ort der Prüfung: Place of testing:	Wireless laboratory, Bangalore			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (India) Pvt.Ltd., 27/B, 2nd Cross, Electronic City Phase1 Bangalore -560 100, India FCC Test site registration number: 496599 ISED Test site registration number: 3466E-1			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	genehmigt von: authorized by:			
Datum: Date: 2023-03-13	Ausstellatum: Issue date: 2023-04-17			
Stellung / Position: M.V.Naveen Kumar Engineer	Stellung / Position: Madhu K.N Senior Engineer			
Sonstiges / Other: FCC ID:2A6EK-SC-6275S-002				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar N/T = nicht getestet			
* Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s)	N/A = not applicable N/T = not tested			
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. <i>The decision rule for statements of conformity in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report.</i>

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TEST SUMMARY

Test Item	Applicable Standard	Result
	FCC	
Maximum conducted (Peak) output power	FCC 15.247(b)(1)	Pass
Maximum Power Spectral Density	FCC 15.247(e)	NA
20dB Bandwidth	FCC 15.247(a)(1)(iii)	Pass
Channel Frequency Separation	15.247(a)(1)	Pass
Number of Hopping Channels	15.247(a)(1)(iii)	Pass
Time of Occupancy(Dwell Time)	15.247(a)(1)(iii)	Pass
Emissions in non-restricted frequency bands	FCC 15.247(d)	Pass
Spurious Radiated Emissions and Restricted Bands of Operation	FCC 15.209 / FCC 15.205	Pass
Conducted Emissions on A.C power Lines	FCC 15.207	Pass
Antenna Requirement	FCC 15.203	Pass

Note:

NA: Not Applicable

Product Category: Electronics Testing

Test Discipline: EMC Test Facility

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REVISION HISTORY OF THIS REPORT

Report Number	Version	Description	Issue date
IN23FVRY 001	01	Initial issue of report	2023-04-17

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1 GENERAL REMARKS

1.1 Attachments

All attachments are part of this test report and are issued in separate document

1. TEST SETUP PHOTOS
2. EUT EXTERNAL PHOTOS
3. EUT INTERNAL PHOTOS
4. FCC LABEL AND LABEL LOCATION
5. BLOCK DIAGRAM
6. SPECIFICATION OF EUT
7. SCHEMATIC DIAGRAMS
8. BILL OF MATERIAL
9. USER MANUAL
10. MAXIMUM PERMISSIBLE EXPOSURE INFORMATION

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2 TEST SITES

2.1 Testing Facilities

1. TÜV Rheinland (India) Pvt.Ltd.,
27/B, 2nd Cross,
ElectronicCityPhase1
Bangalore – 560 100,
India

2. TUV Rheinland (India) Pvt.Ltd.,
108 , Beside ISBR Business School,
Electronic city Phase I
Bangalore - 560 100.
India

Radiated Measurement site type :
Fully anechoic chamber (used for above 1 GHz
measurements)

Radiated Measurement site type :
Semi anechoic chamber (used for below 1 GHz
measurements)

2.2 List of Test and Measurement Instruments

Table 1: List of test and measurement instruments

Equipment	Manufacturer	Model Name	Serial Number	Firmware Versions	Calibration Due Date	Periodicity	Test Facility
EMI Receiver	Rohde & Schwarz	ESW 44	101732	4.73 SP5	04.08.2023	Yearly	Radiated Spurious Emission
Active loop antenna	Schwarzbeck	FMZB 1519 B	1519B-00111	-	12.10.2023	Yearly	
Balun & Biconical Antenna	Schwarzbeck mess-elektronik	BBA 9106+V HBB 9124	9124-1117	-	15.07.2023	Yearly	
Log-Periodic Antenna	Schwarzbeck mess-elektronik	VUSLP-9111B	9111B-324	-	23.05.2023	Yearly	
Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-01944	-	11.10.2023	Yearly	
EMI Test Receiver	Rohde & Schwarz	ESW44	101773	1.72.SP1	15.02.2024	Yearly	
Semi Anechoic Chamber	Frankonia	-	-	-	-	-	
Fully Anechoic Chamber	Albatross	-	-	-	-	-	Conducted Test Parameters
Spectrum Analyzer	Agilent	E4407B	US41192 772	A.14.07	27.12.2023	Yearly	
10dB Attenuator	H+S Electronics Pvt. Ltd	6810.17. A	770041	-	19.03.2023	Yearly	Conducted AC Power line Test
EMI Receiver	Rohde & Schwarz	ESR7	101133	3.48 SP3	22.07.2023	Yearly	
Line Impedance Stabilization Network	Rohde & Schwarz	ENV 216	101434	-	11.04.2023	Yearly	
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100811	-	12.07.2023	Yearly	

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Table 2: Instrument application Software versions

SL. No.	Test Type	Application software	Version
1	Radiated spurious emission measurement in 10mtr-SAC	BAT EMC	3.20.0.17
2	Radiated spurious emission measurement in FAC	EMC 32	10.60.20

3 GENERAL PRODUCT INFORMATION

3.1 Product Function and Intended Use

Cradlewise smart crib is a self-soothing crib that automatically rocks the baby to sleep. It has an in-built baby monitor that senses the baby's wake-ups, and in response bounces and plays music. Cradlewise's baby monitor has an in-built night vision camera. It converts from a bassinet to a crib, so it can be used for up to 24-month-old baby.

3.1 Ratings and System Details of Equipment under Test

Table 3: Ratings and System Details as declared by Client*

Radio Protocol	Bluetooth
Operating Frequency Range	2402MHz-2483.5MHz
No. of Channels	79
Channel Spacing	1MHz
Transmitting Power Level	Refer Clause 10
Measured peak conducted power (dBm)	-2.24dBm@2441MHz 3Mbps
Modulation	GFSK, pi/4-DQPSK,8-DPSK
Data Rates	1Mbps,2Mbps,3Mbps
Number of antennas	1
Antenna Gain	2.0dBi (max peak gain)
Antenna Type	Molex 2042811100 balanced, dipole-type antenna
Supply Voltage to Product	12VDC through AC/DC Adapter
Environmental conditions	Storage temp: : 5°C to +60°C Relative Humidity 5% < to <95%
	Operating Temp: 5°C to +40°C Relative Humidity 10%< to <90%
EUT Dimension(L x W x H)	1070mm x970mm x 638mm

***Disclaimer:** The information/data is supplied by the client and the same is considered to arrive at the final value. Any changes made apart from the specified specification, can directly impact on the tests results. Refer the products user manual for more details.

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Note: Product **Cradlewise Smart Crib** has multiple protocols. All the supported wireless protocols and their respective test results are issued in separate test reports, refer clause 4.7 Report references

3.2 Measurement Uncertainty:

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$

Table 4: Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 5 \%$
RF output power, conducted	$\pm 1.5 \text{ dB}$
Power Spectral Density, conducted	$\pm 3 \text{ dB}$
Unwanted Emissions, conducted	$\pm 3 \text{ dB}$
All emissions, radiated	$\pm 6 \text{ dB}$
Temperature	$\pm 3 \text{ }^{\circ}\text{C}$
Supply Voltages	$\pm 3 \%$
Time	$\pm 5 \%$

4 TEST SET-UP AND OPERATION MODE

4.1 Principle of Configuration Selection

Transmission was enabled with highest possible duty cycle on low, mid and high channel.

4.2 Test Operation and Test Software

Hardware Version : 2V0

Software version : 3.00

Software Name: Cradlewise smart crib firmware

Hardware Name: Cradlewise smart crib

4.3 Special Accessories and Auxiliary Equipment

Model Number	Power Adapter Ratings
NY-PW0Y1-01203000	Class 2 Power supply Input: 100-240V~, 50/60Hz 1.5A Output: 12VDC_3000mA

4.4 Simultaneous Transmission

This product supports Simultaneous transmission

4.5 Countermeasures to achieve EMC Compliance

- No

4.6 List of frequencies

Frequency Band (MHz)	Channel No.	Channel Frequency (MHz)
2400 – 2483.5 BT(BDR+EDR)	0	2402
	1	2403
	2	2404
	3	2405
	:	:
	:	:
	:	:
	37	2439
	38	2440
	39	2441
	40	2442
	:	:
	:	:
	:	:
	74	2476
	75	2477
	:	:
	:	:
	78	2480

Table 5: List of Bluetooth centre Frequencies

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Channel used for Bluetooth testing

Channel low: 2402MHz

Channel mid: 2441MHz

Channel high: 2480MHz

Note:

TUV Sample Identification number: A003384834-001 – Radiated test Sample
A003384834-003 – Conducted test Sample

4.7 Report references

Note: Product **Cradlewise Smart Crib** has multiple protocols. All the supported wireless protocols and their respective test results are issued in separate test reports, following table lists the report numbers.

Radio Protocol	Report Number
RF test report for Wi-Fi (2.4GHz) & BLE (2.4GHz)	IN239C07 001
RF test report for Wi-Fi (5GHz)	IN237CT8 001
RF test report for Bluetooth (2.4GHz) – (This report)	IN23FVRY 001

5 Operational Description

The smart crib runs on 12V DC power supply supplied by an AC to DC adapter connected to 110V 60Hz AC supply. It relies on cameras and microphones to detect signs of the baby waking up. In response to these signs the cradle starts an up and down movement using a motor and starts playing white noise/music using a speaker. The product connects to the internet using Wi-Fi and allows caregivers to monitor the baby on their phones using an app. The night vision features allow unobtrusive monitoring at night too.

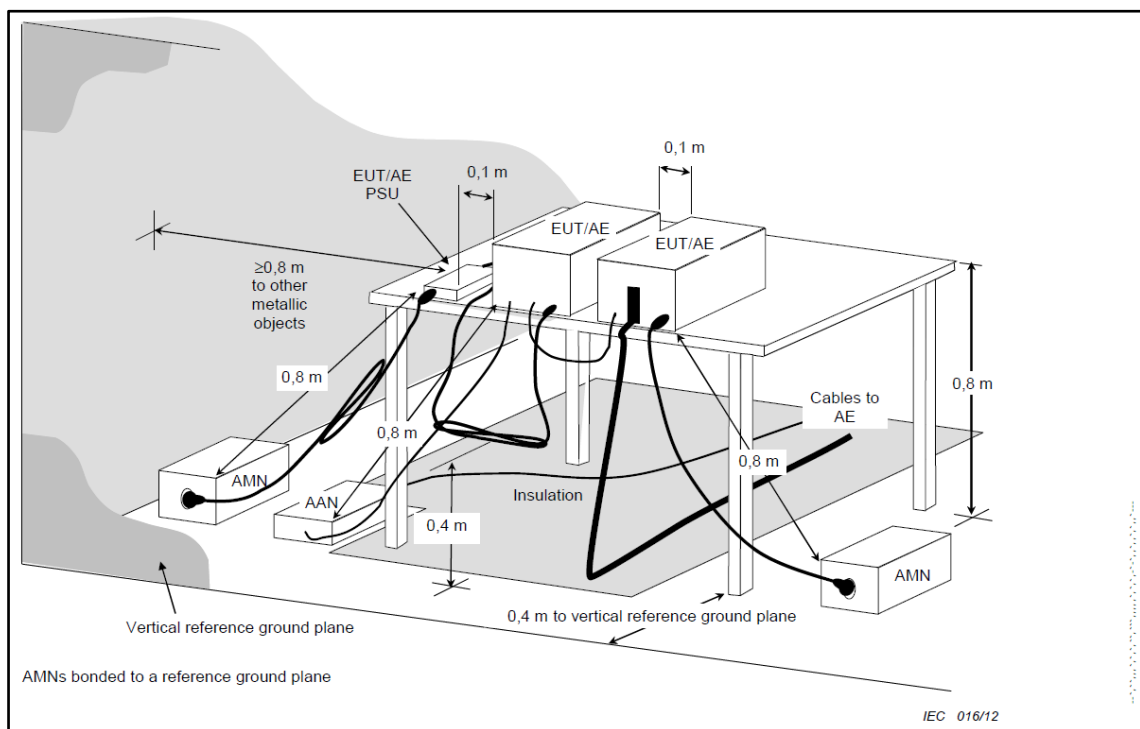
6 TEST METHODOLOGY

6.1 Conducted Spurious Emission AC Power line Test

Measured levels of ac power-line conducted emission across the 50Ω LISN port (to which the EUT is connected). All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer.

The device is placed on the test table, raised 80cm above the reference ground plane. The vertical conducting plane is located 40cm to the rear of the device. AC Conducted emission measurement is made over frequency range from 150kHz to 30MHz, this measurement was performed with EUT powered by an AC adaptor with 110V AC 60Hz supply

6.2 Test Setup Configuration



6.3 Radiated Emission Test

The radiated emission measurement was performed according to the procedures in ANSI C63.10-2013. The equipment under test (EUT) was placed at the middle of the 80 cm high turntable for below 1 GHz & 1.5 m height for above 1 GHz measurement, and the EUT is 3 meters far from the measuring antenna. The turntable was rotated 360° for obtaining the maximum emission. The height of the measuring antennas was scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained. The measurement above 1000 MHz was performed by horn antenna, the measurement below 30 MHz was performed by loop antenna, Measurement from 30 MHz to 200 MHz was performed by Balloon and Biconical Antenna, and measurement from 200 MHz to 1 GHz was performed by Log-Periodic Antenna.

The EUT was rotated around the X-, Y-, and Z-Axis and the results from worst case axis are recorded

6.3.1 Test Setup Configuration

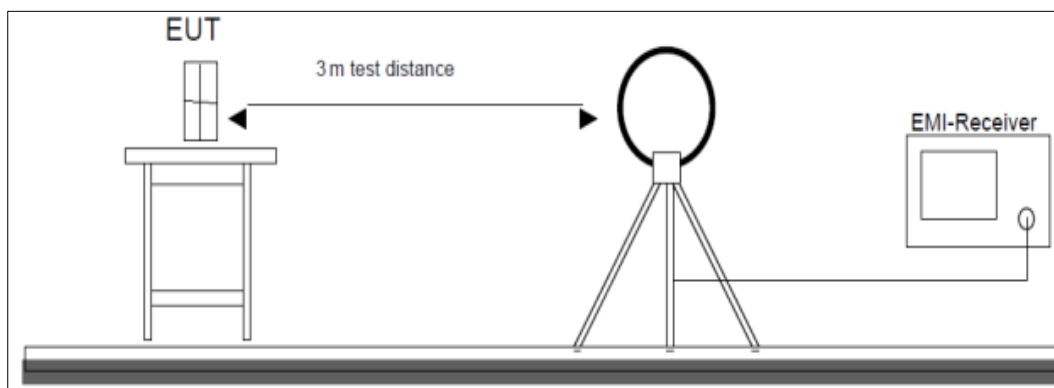


Figure 1: Frequency Range 9 kHz - 30 MHz

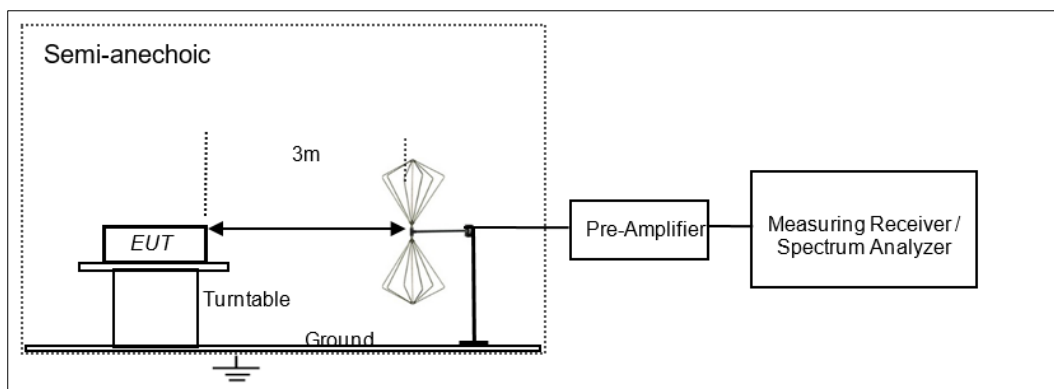


Figure 2: Frequency Range 30 MHz - 200 MHz

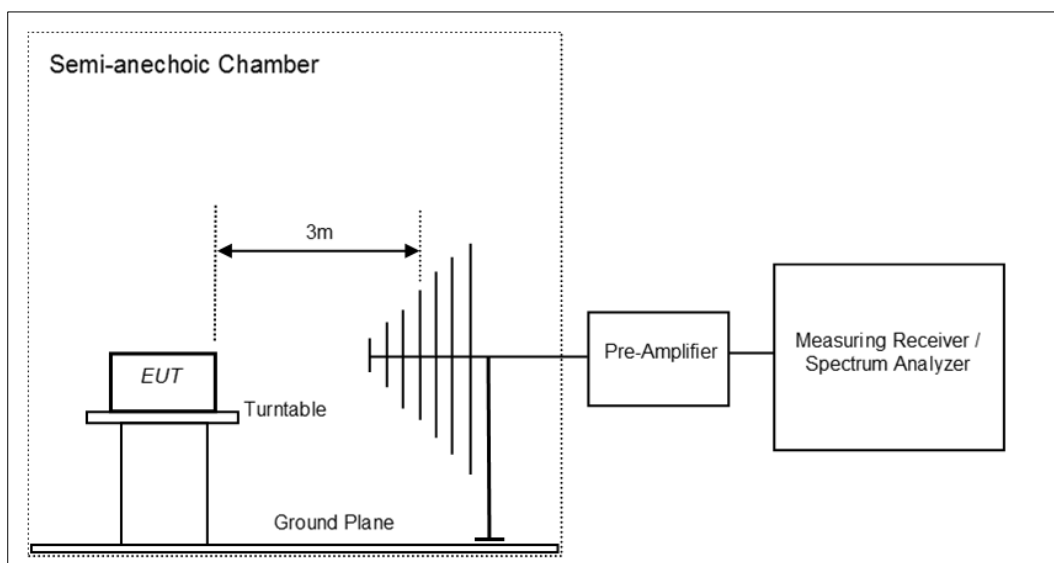


Figure 3: Frequency Range 200 MHz - 1GHz

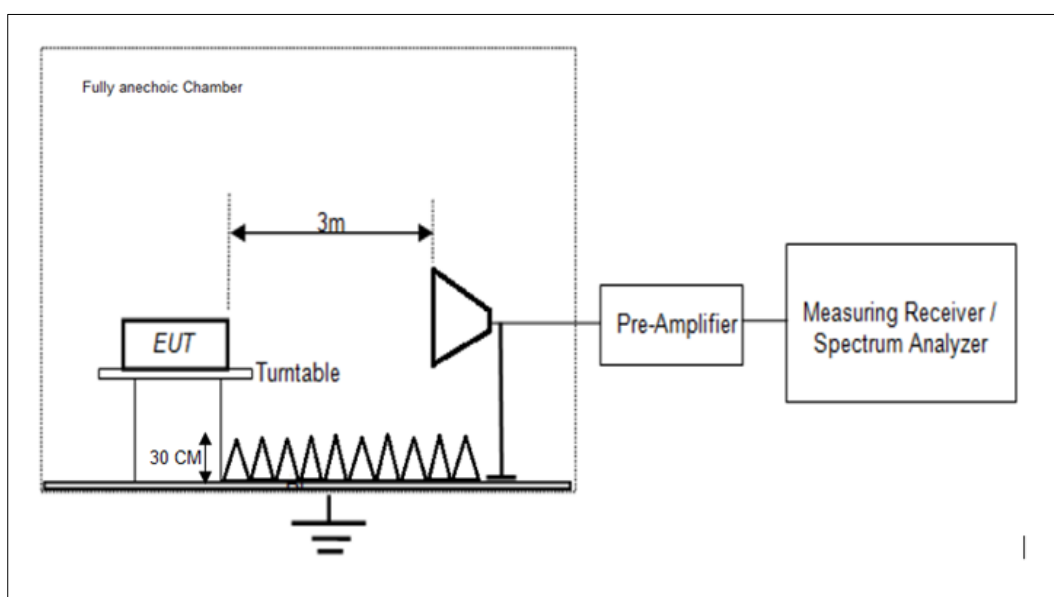


Figure 4: Frequency Range above 1 GHz

7 TEST RESULTS

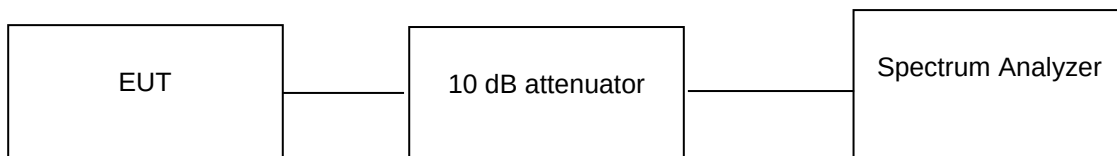
7.1 Maximum conducted Output power

Result

Pass

Test Specification	FCC part 15 Subpart C 15.247 (b)(1)
Test Method	Subclause 7.8.5 of ANSI C63.10
Measurement Bandwidth	3 MHz
Detector	Peak
Port of testing	Antenna port
Requirement	Power $\leq$ 1 W (30 dBm)

Test Setup



Test Condition

Normal Test Condition:

Temperature (Norm) = + 22.3 °C Voltage = 12VDC through AC to DC Adaptor Relative humidity: 62%

KDB Guidelines applied:

Measurements were made as per section 9(b) in KDB 558074 D01 15.247 Measurement Guidance v05r02.

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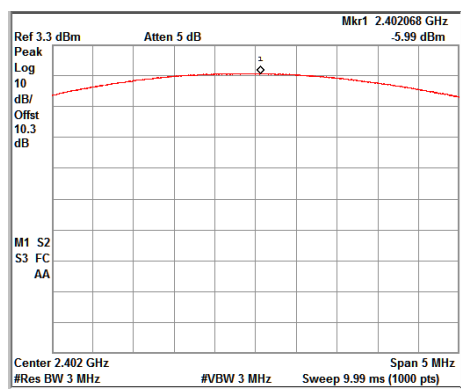
Test results:

Note:

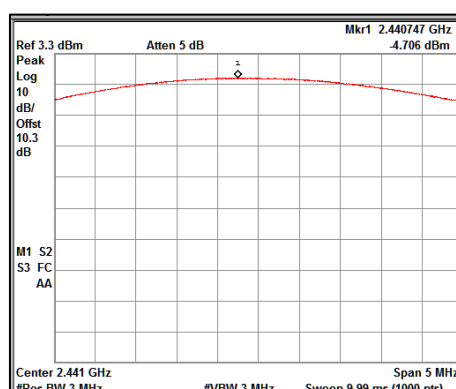
1. All the losses are included during measurement and final values are mentioned in the test report.
2. Total Peak Output power (dBm) = Measured Peak power (dBm) + Attenuator factor (10dB) + Cable loss (0.3dB)
3. This product do not support additional beamforming gain / directional gain, it uses signal antenna and hence directional gain of the single antenna is 2.00 dBi.

Data rate (Mbps)	Channel Frequency (MHz)	Measured Power (dBm)	Power Limit (dBm)
1	2402	-5.99	30
	2441	-4.70	30
	2480	-5.45	30
2	2402	-3.01	30
	2441	-2.86	30
	2480	-3.18	30
3	2402	-2.31	30
	2441	-2.24	30
	2480	-2.63	30

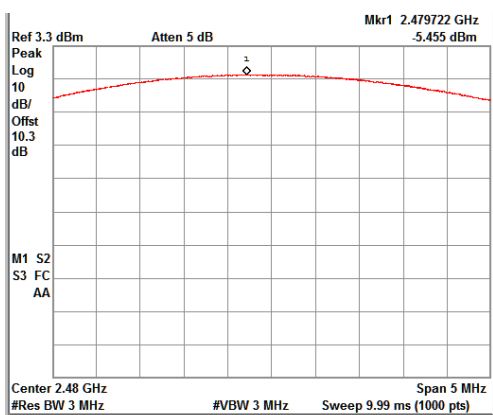
Test Plots:



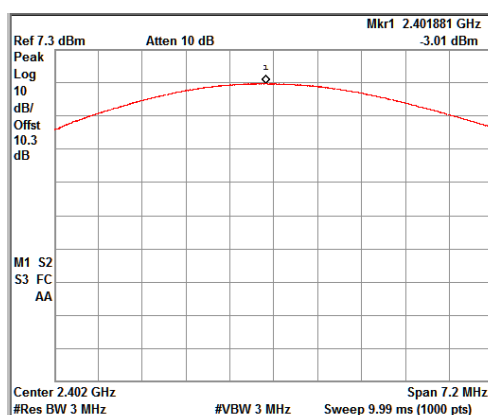
Channel Frequency: 2402MHz@1Mbps



Channel Frequency: 2441MHz@1Mbps



Channel Frequency: 2480MHz@1Mbps

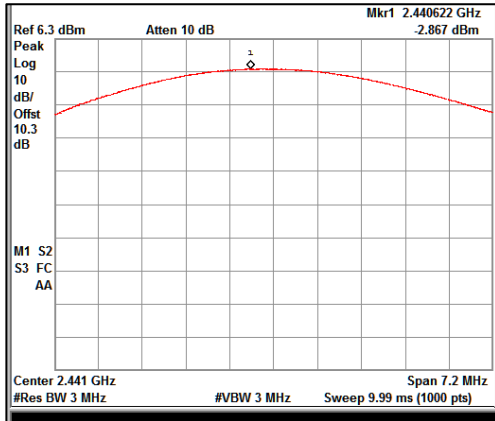


Channel Frequency: 2402MHz@2Mbps

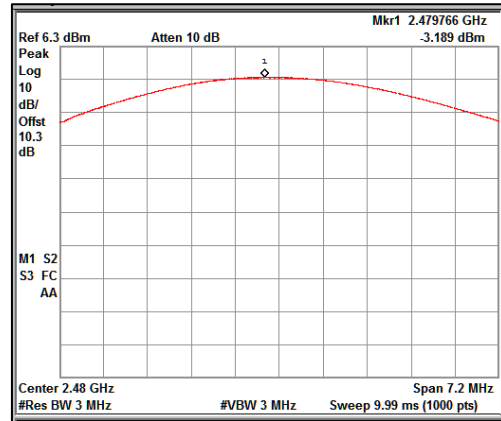
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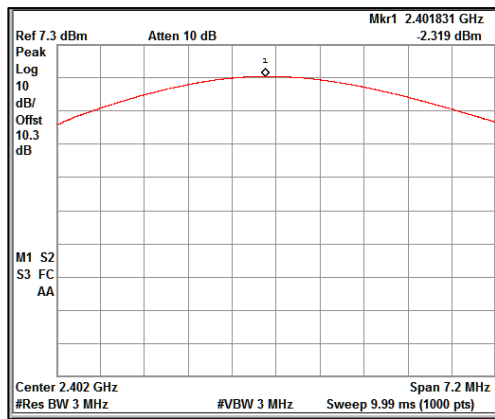
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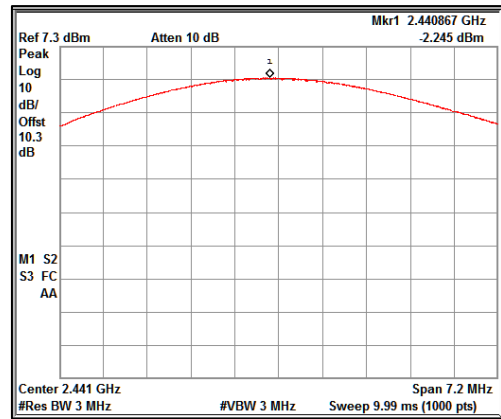
Channel Frequency: 2441MHz@2Mbps



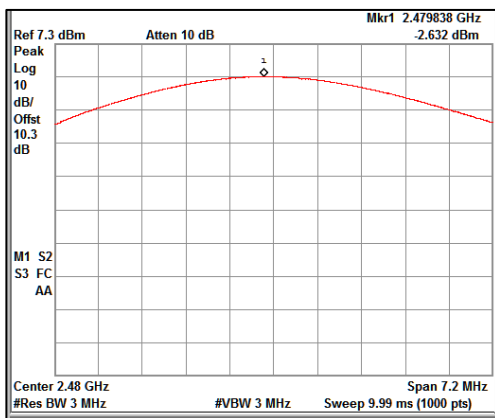
Channel Frequency: 2480MHz@2Mbps



Channel Frequency: 2402MHz@3Mbps



Channel Frequency: 2441MHz@3Mbps



Channel Frequency: 2480MHz@3Mbps

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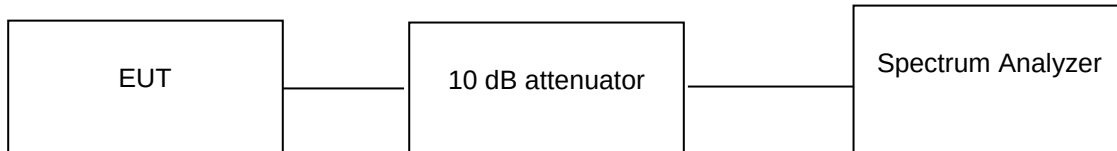
7.2 20dB Bandwidth & Occupied Channel Bandwidth

Result

Pass

Test Specification	FCC part 15 Subpart C 15.247 (a)(i)
Test Method	Subclause 7.8.7 of ANSI C63.10
Measurement Bandwidth	30kHz
Detector	Peak
Port of testing	Antenna port
Requirement	N/A

Test Setup



Test Condition

Normal Test Condition:

Temperature (Norm) = + 22.3 °C Voltage = 12VDC through AC to DC Adaptor Relative humidity: 62%

KDB Guidelines applied:

Measurements were made as per section 9 (b) in KDB 558074 D01 15.247 Measurement Guidance v05r02.

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Test results:

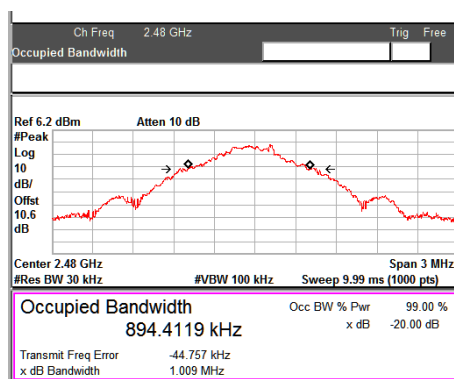
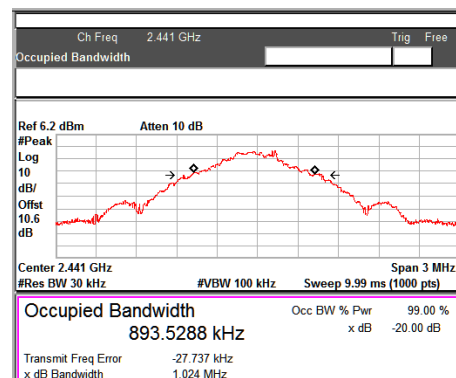
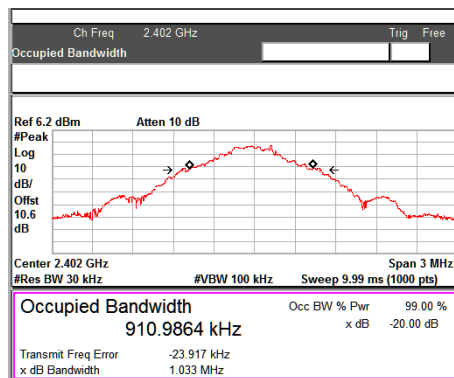
Note:

1. All the losses are included during measurement and final values are mentioned in the test report.
2. This product do not support additional beamforming gain / directional gain, it uses signal antenna and hence directional gain of the single antenna is 2.00 dBi.

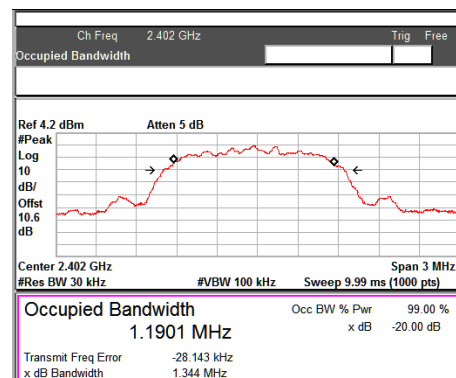
Data rate	Channel frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 20dB Bandwidth (MHz)
1	2402	0.91	1.033
	2441	0.893	1.024
	2480	0.894	1.009
2	2402	1.190	1.344
	2441	1.198	1.333
	2480	1.204	1.358
3	2402	1.201	1.325
	2441	1.207	1.301
	2480	1.204	1.304

Test plots:

Data rate: 1Mbps



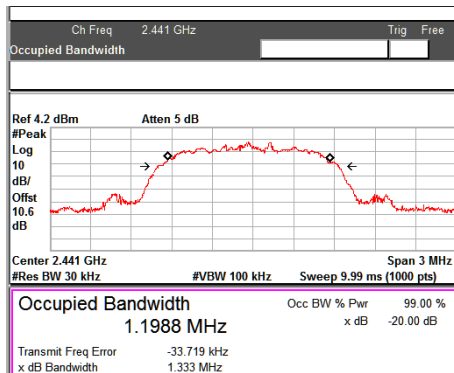
Data rate: 2Mbps



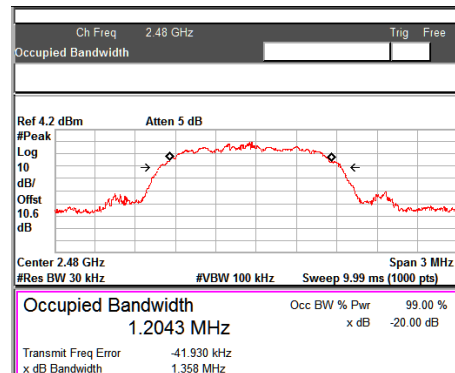
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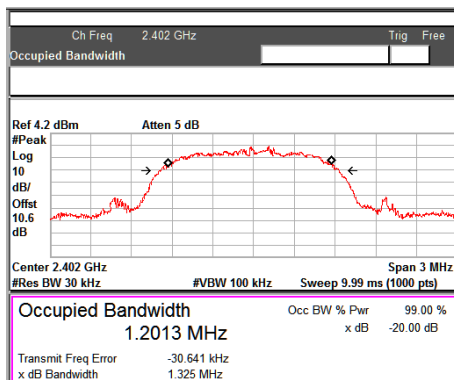


Channel Frequency: 2441MHz

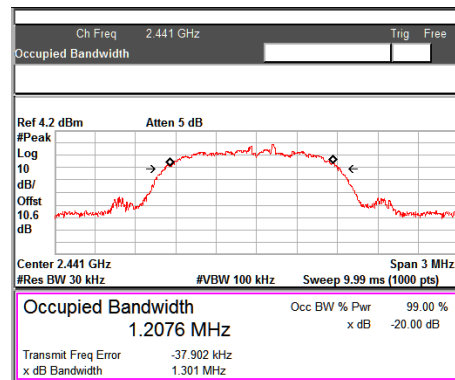


Channel Frequency: 2480MHz

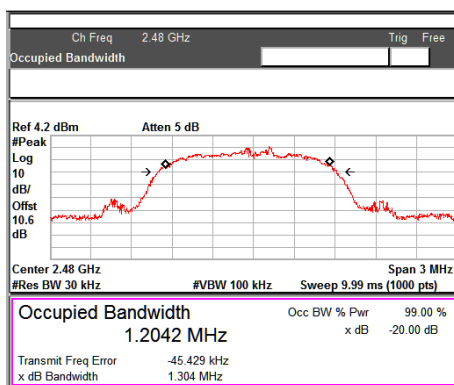
Data rate: 3Mbps



Channel Frequency: 2402MHz



Channel Frequency: 2441MHz



Channel Frequency: 2480MHz

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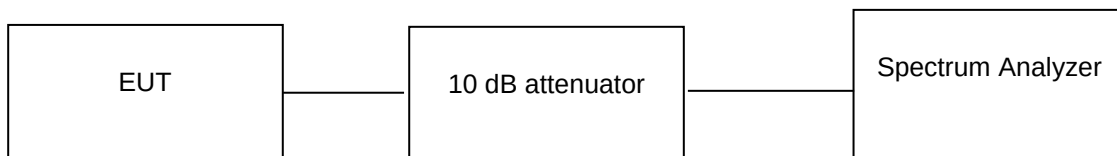
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7.3 Number of Hopping Channels

<i>Result</i>	<i>Pass</i>
Test Specification	FCC Part 15 Subpart C Section 15.247 (a) (1)
Test Method	Subclause 7.8.3 of ANSI C63.10
Measurement Bandwidth	100kHz
Detector	Peak
Port of testing	Antenna port
Requirement	Frequency hopping systems operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels.

Test Setup



Test Condition

Normal Test Condition:

Temperature (Norm) = + 22.3 °C Voltage = 12VDC through AC to DC Adaptor Relative humidity: 62%

KDB Guidelines applied:

Measurements were made as per section 9 (b) in KDB 558074 D01 15.247 Measurement Guidance v05r02.

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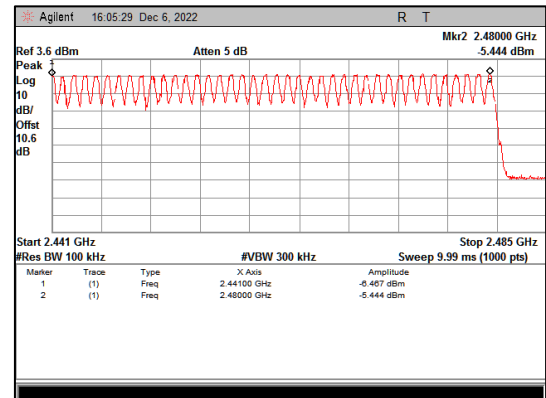
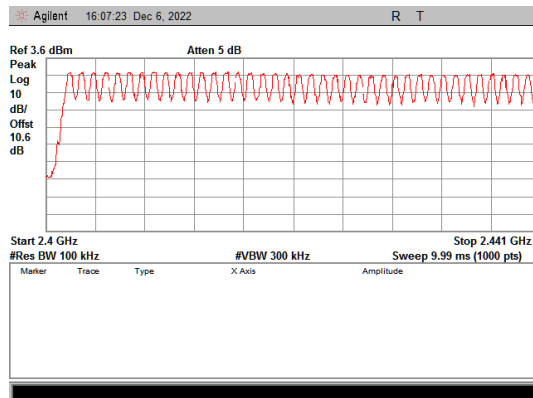
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Test Results:

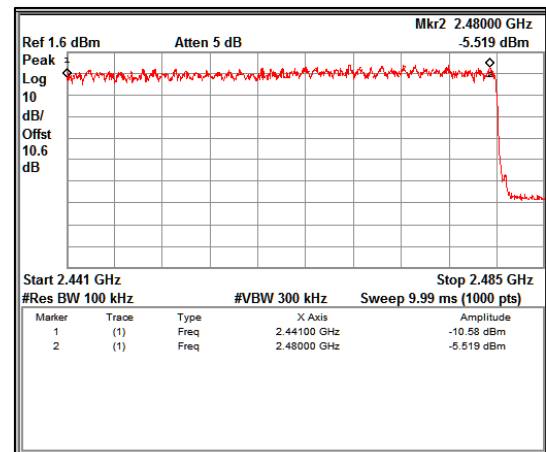
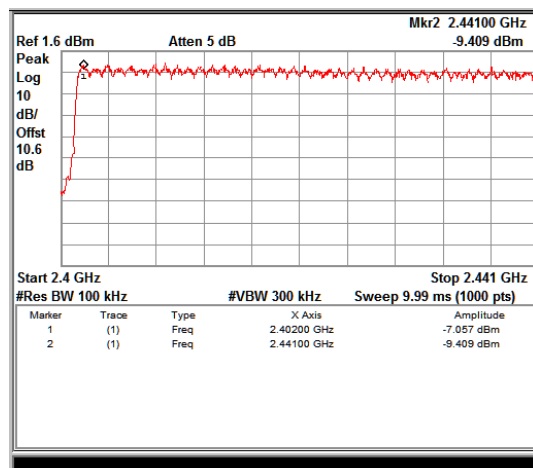
1. All the losses are included during measurement and final values are mentioned in the test report.

Test Plots:

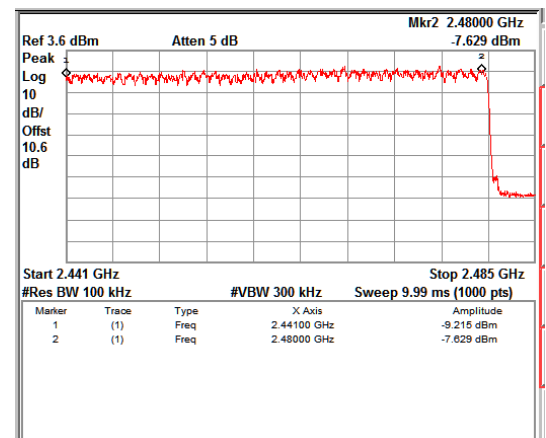
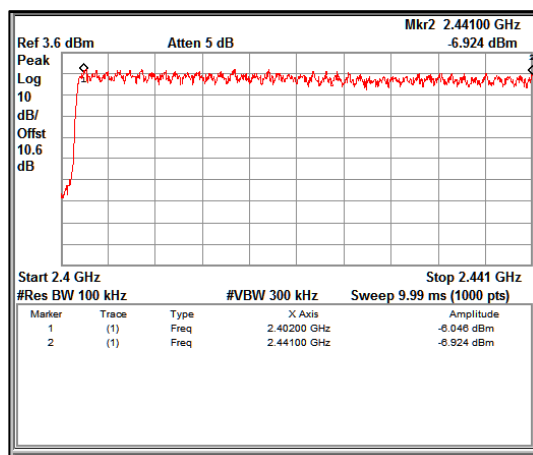
Data rate: 1Mbps



Data rate: 2Mbps



Data rate: 3Mbps



Number of hopping frequencies for all data rates = 79

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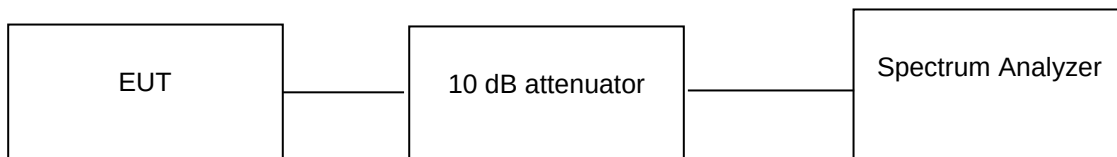
7.4 Carrier Frequency separation

Result

Pass

Test Specification	FCC Part 15 Subpart C Section 15.247 (a) (1)
Test Method	Subclause 7.8.2 of ANSI C63.10
Measurement Bandwidth	300 kHz
Detector	Peak
Port of testing	Antenna port
Requirement	Frequency hopping systems shall have hopping channel carrier frequency separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater

Test Setup



Test Condition

Normal Test Condition:

Temperature (Norm) = + 22.3 °C Voltage = 12VDC through AC to DC Adaptor Relative humidity: 62%

KDB Guidelines applied:

Measurements were made as per section 9(b) in KDB 558074 D01 15.247 Measurement Guidance v05r02.

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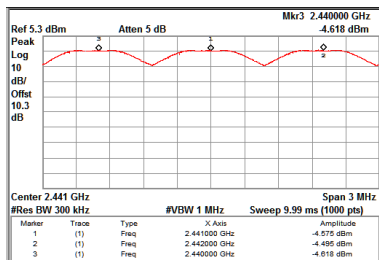
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Test Results:

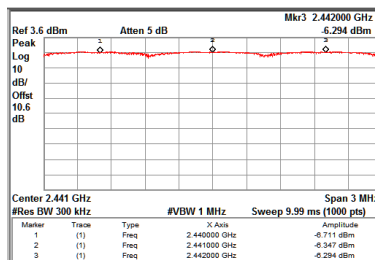
- All the losses are included during measurement and final values are mentioned in the test report.

Data rate (Mbps)	Channel frequency (MHz)	Channel spacing Observed (MHz)	20 dB Bandwidth (MHz)
1	2441	1	1.137
	2442	1	1.136
	2443	1	1.133
2	2441	1	1.43
	2442	1	1.432
	2443	1	1.42
3	2441	1	1.43
	2442	1	1.426
	2443	1	1.433

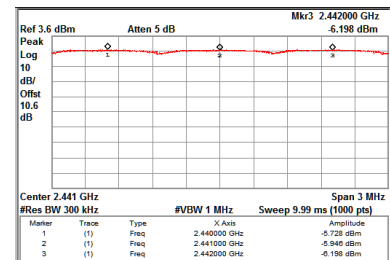
Data rate: 1Mbps



Data rate: 2Mbps



Data rate: 3Mbps



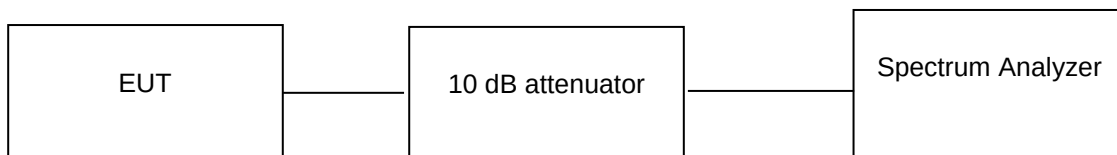
7.5 Time of Occupancy (Dwell Time)

Result

Pass

Test Specification	FCC Part 15 Subpart C Section 15.247 (a) (1) (i)
Test Method	Subclause 7.8.4 of ANSI C63.10
Measurement Bandwidth	300 kHz
Detector	Peak
Port of testing	Antenna port
Requirement	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Transmissions on particular hopping frequencies may be avoided or suppressed provided that a minimum of 15 hopping channels are used.

Test Setup



Test Condition

Normal Test Condition:

Temperature (Norm) = + 22.3 °C Voltage = 12VDC through AC to DC Adaptor Relative humidity: 62%

KDB Guidelines applied:

Measurements were made as per section 10 b (6) (iv) in KDB 558074 D01 15.247 Measurement Guidance v05r02.

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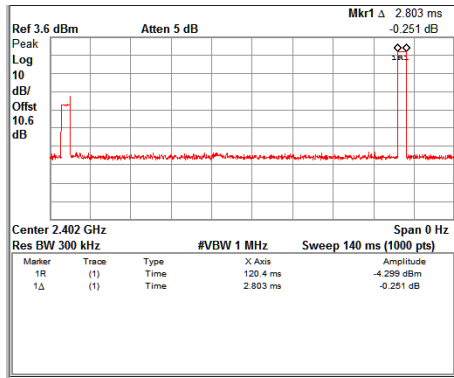
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Test Results:

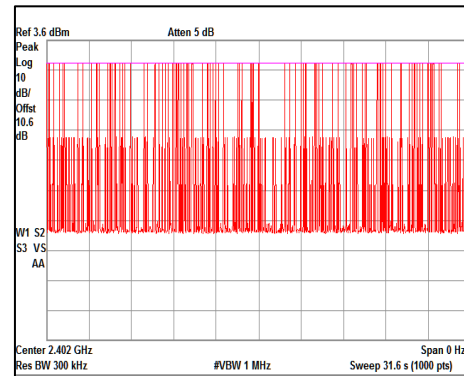
1. All the losses are included during measurement and final values are mentioned in the test report.
2. Testing is performed all the data rates for reporting mentioned (DH5) 1Mbps

Test Plots:

Data rate: 1Mbps



Dwell time



No. of Bin calculation

Single Burst	2.803	ms
No. Of Bins/Bursts in Measured Span	88	No
Observation Period (79 hop ch x0.4s) - Seconds	31.6	sec
Total Burst in 31.6sec	0.24	sec
Limit	0.40	sec

7.6 Emissions in non-restricted frequency bands and conducted spurious emission

Result

Pass

Test Specification FCC part 15 Subpart C 15.247 (d)

Test Method Subclause 7.8.6 of ANSI C63.10

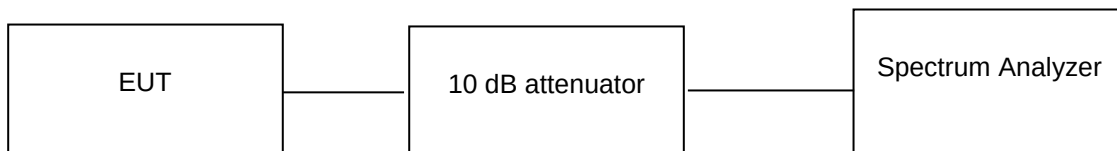
Measurement Bandwidth 100 kHz

Detector Peak

Port of testing Antenna port

Requirement In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits

Test Setup



Test Condition

Normal Test Condition:

Temperature (Norm) = + 22.3 °C

Voltage = 12VDC through AC to DC Adaptor

Relative humidity: 62%

KDB Guidelines applied:

Measurements were made as per section 10 b (6) (i) in KDB 558074 D01 15.247 Measurement Guidance v05r02.

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Test Results:

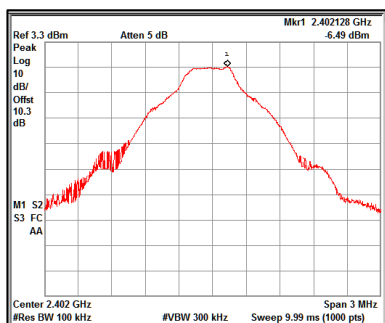
All the losses are included during measurement and final values are mentioned in the test report.

Data Rate (Mbps)	Channel Frequency (MHz)	Band edge Frequency (MHz)	Value at Band edge (A) (dBm)	Reference Value (B) (dBm)	A-B (dBc)	Minimum Limit (dBc)
1	2402	2390.00	-65.77	-6.49	-59.28	-20
	2480	2483.50	-64.84	-6.03	-58.81	-20
2	2402	2390.00	-65.18	-6.04	-59.14	-20
	2480	2483.50	-64.62	-6.11	-58.51	-20
3	2402	2390.00	-65.67	-5.72	-59.95	-20
	2480	2483.50	-65.05	-5.99	-59.06	-20

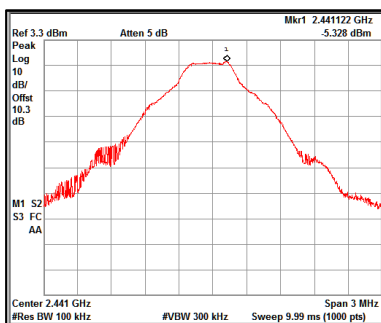
Test Plots:

Reference plots:

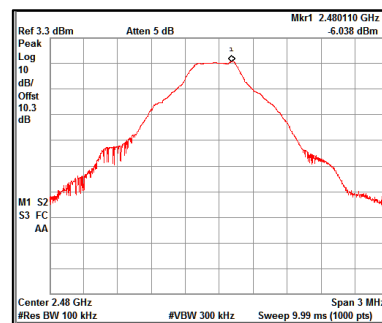
Data rate: 1Mbps



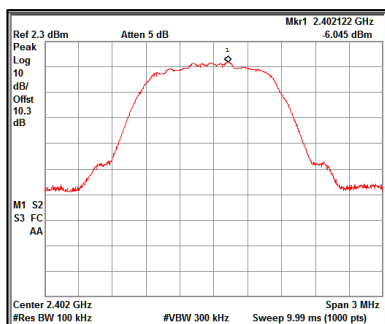
Channel frequency: 2402MHz



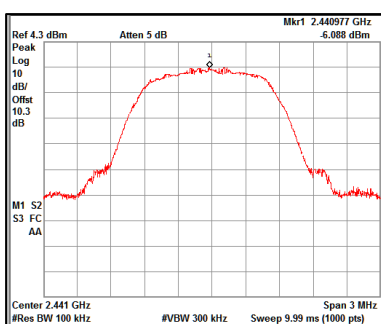
Channel frequency: 2441MHz



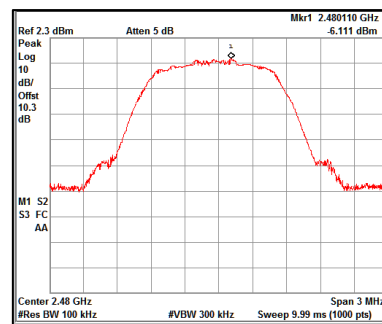
Channel frequency: 2480MHz



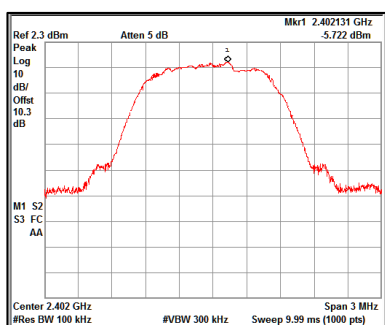
Channel frequency: 2402MHz



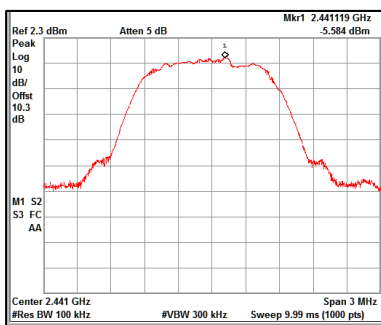
Channel frequency: 2441MHz



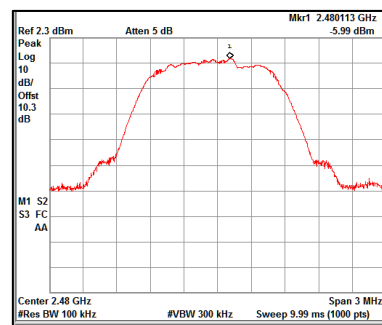
Channel frequency: 2480MHz



Channel frequency: 2402MHz



Channel frequency: 2441MHz



Channel frequency: 2480MHz

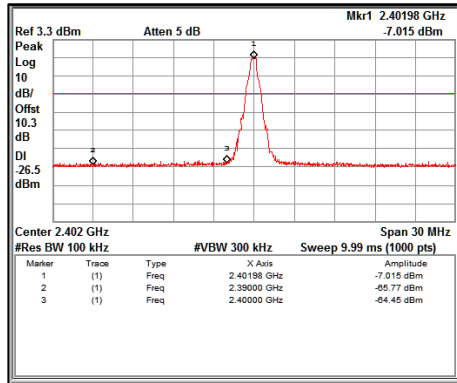
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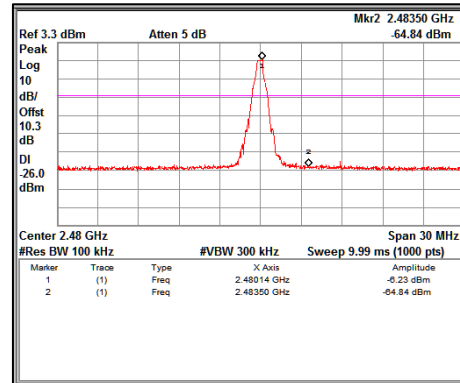
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Band edge Test plots:

Data rate: 1Mbps

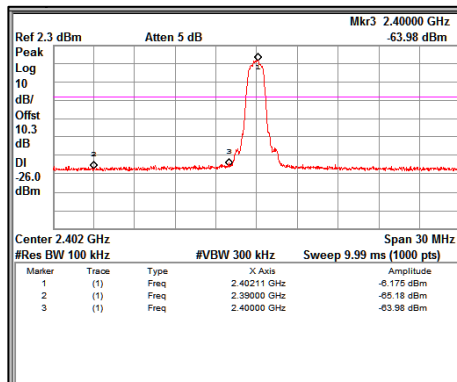


Channel Frequency: 2402MHz

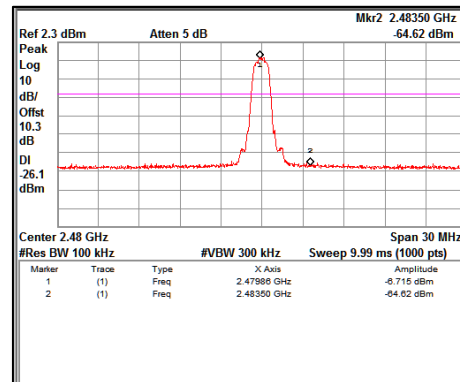


Channel Frequency: 2480MHz

Data rate: 2Mbps

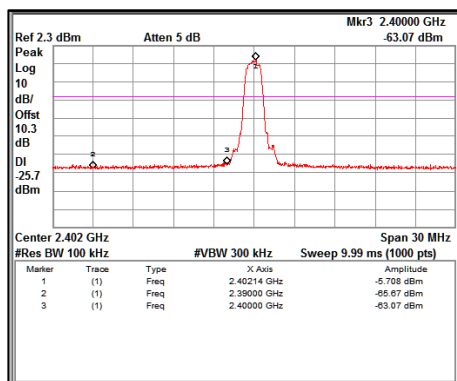


Channel Frequency: 2402MHz

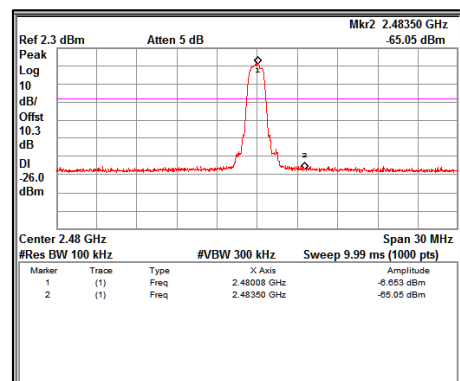


Channel Frequency: 2480MHz

Data rate: 3Mbps



Channel Frequency: 2402MHz



Channel Frequency: 2480MHz

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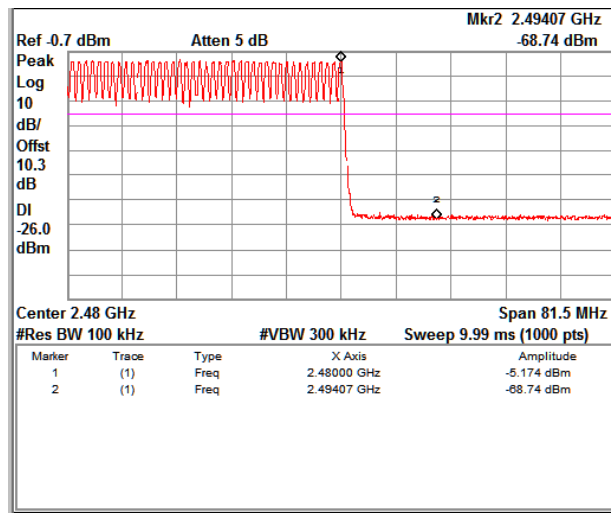
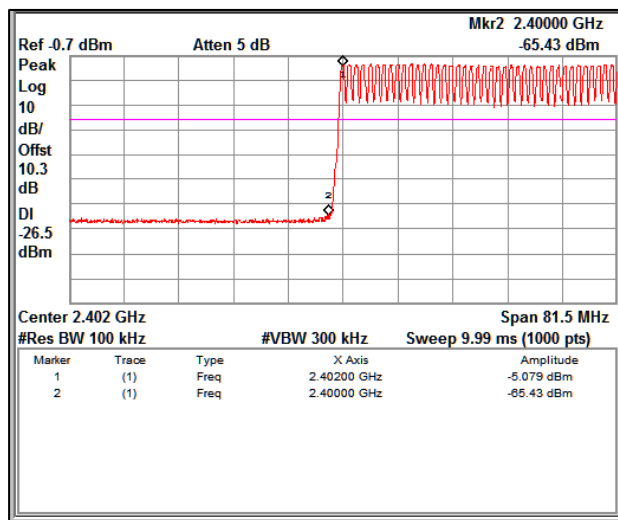
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Band edge with Hopping mode:

Data rate: 1Mbps



Note: Testing is performed all the data rates for reporting purpose mentioned single data rate

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7.7 Spurious Radiated Emissions & Restricted Bands of Operation

Result

Pass

Test Specification	FCC part 15 Subpart C 15.247 (d) / (15.209 & 15.205)
Test Method	ANSI C63.10.2013
Measurement Location	Fully anechoic chamber
Measurement Bandwidth	100 kHz for frequency range < 1GHz 1 MHz for Frequency range >1GHz
Detector	Refer remarks below
Measuring Distance	3 m
Requirement	As per the limits mentioned in the below table
Test setup	Refer 6 TEST METHODOLOGY

Table 6: Transmitter limits for Radiated emission

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Distance of Measurement (m)
0.009 – 0.490	2400/F(kHz)	48.50 – 13.80	300*
0.490 – 1.705	24000/F(kHz)	33.80 – 23.00	30*
1.705 -30	30	29.54	30*
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Remark: * The limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300 meter, 30 meter and 30 meter range respectively, which corresponds to 128.51 – 93.80, 73.80 – 62.96 and 69.54 dBμV/m at 3m range by extrapolation calculation and the measurement of loop antenna.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Condition:

Temperature (Norm) = + 23.2 °C

Voltage = 12VDC Through AC/DC Adapter

Relative humidity: 62%

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Test results:

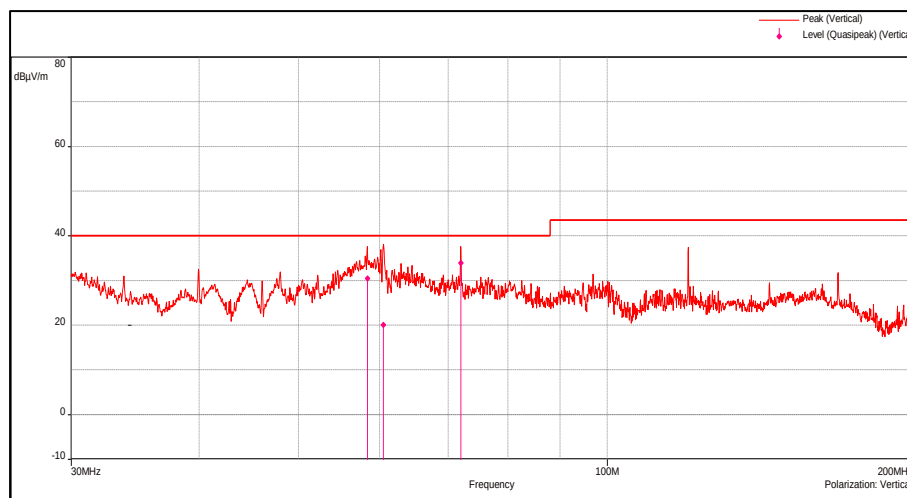
Note: All the losses are included during measurement and final values are mentioned in the test report. Refer TEST METHODOLOGY For more details

Test results for frequency range 9 kHz – 30MHz

No emissions found in frequency range 9 kHz to 30 MHz, and measured levels are below 20dB from the limit line, hence not reported

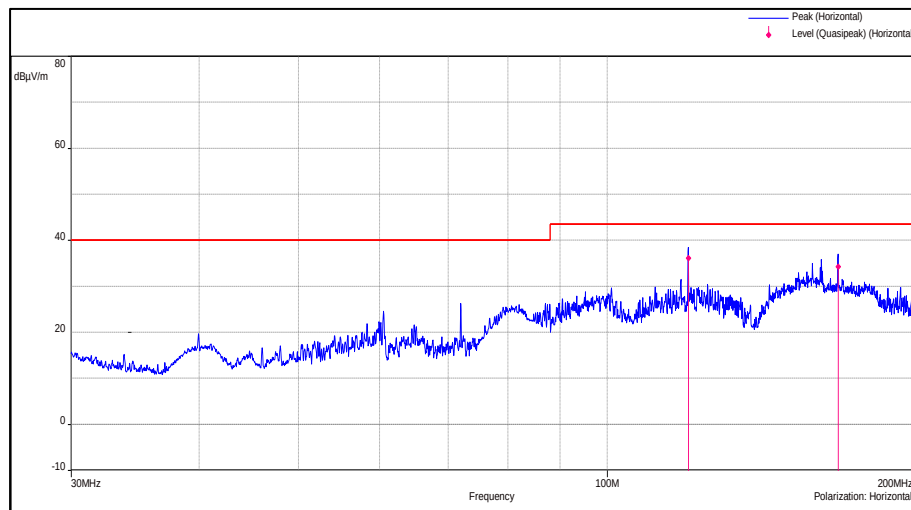
Test results for frequency range 30MHz – 1GHz

Antenna Polarization	Measured Frequency (MHz)	Measured Quasi Peak Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	58.33	30.49	40.00	-9.51
	60.47	20.10	40.00	-19.9
	71.98	33.97	40.00	-6.03
	264.01	40.45	46.00	-5.55
	792.02	37.16	46.00	-8.84
	804.17	28.03	46.00	-17.97
Horizontal	120.00	36.11	43.50	-7.39
	167.98	34.30	43.50	-9.20
	264.00	40.18	46.00	-5.82
	527.99	36.74	46.00	-9.26
	599.97	37.77	46.00	-8.23
	791.96	42.2	46.00	-3.8



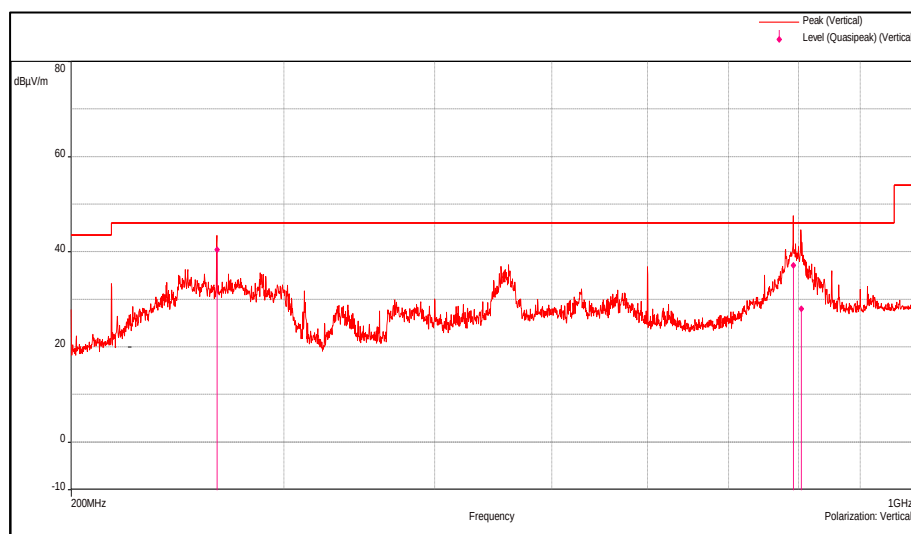
Channel Frequency 30MHz – 200MHz

Polarization Vertical



Channel Frequency 30MHz – 200MHz

Polarization Horizontal



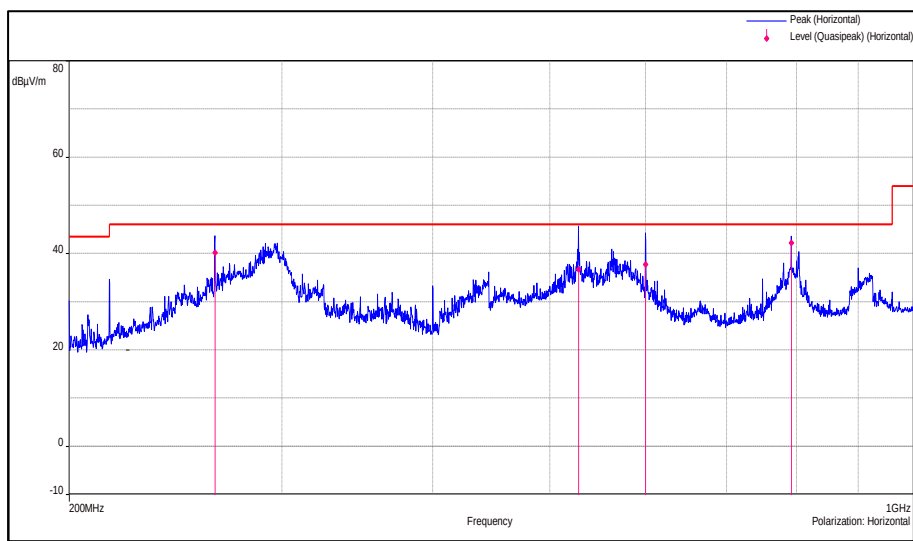
Channel Frequency 200MHz – 1GHz

Polarization Vertical

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Channel Frequency 200MHz – 1GHz

Polarization Horizontal

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Test results for the frequencies in the range 1 GHz to 26.5 GHz

Data Rate: 1Mbps

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2402	2402(Pk)	Vertical	87.76	-	-
	2402(Av)		84.54	-	-
	2390(Pk)		43.44	74.00*	-30.56
	2390(Av)		25.14	54.00*	-28.86
	4804(Pk)		41.32	74.00	-32.68
	4804(Av)		29.76	54.00	-24.24
	7206(Pk)		47.59	74.00	-26.41
	7206(Av)		34.96	54.00	-19.04
	2402(Pk)	Horizontal	92.85	-	-
	2402(Av)		89.62	-	-
	2390(Pk)		41.93	74.00*	-32.07
	2390(Av)		25.07	54.00*	-28.93
	4804(Pk)		43.08	74.00	-30.92
	4804(Av)		32.27	54.00	-21.73
	7206(Pk)		46.71	74.00	-27.29
	7206(Av)		34.95	54.00	-19.05
2441	2441(Pk)	Vertical	85.68	-	-
	2441(Av)		82.48	-	-
	4882(Pk)		41.73	74.00	-32.27
	4882(Av)		29.57	54.00	-24.43
	7323(Pk)		47.13	74.00	-26.87
	7323(Av)		34.89	54.00	-19.11
	2441(Pk)	Horizontal	89.63	-	-
	2441(Av)		86.43	-	-
	4882(Pk)		42.95	74.00	-31.05
	4882(Av)		30.13	54.00	-23.87
	7323(Pk)		47.27	74.00	-26.73
	7323(Av)		34.84	54.00	-19.16
2480	2480(Pk)	Vertical	84.73	-	-
	2480(Av)		81.53	-	-
	2483.5(Pk)		48.72	74.00*	-25.28
	2483.5(Av)		24.99	54.00*	-29.01
	4960(Pk)		42.25	74.00	-31.75
	4960(Av)		29.24	54.00	-24.76
	7440(Pk)		47.01	74.00	-26.99
	7440(Av)		34.99	54.00	-19.01
	2480(Pk)	Horizontal	89.28	-	-
	2480(Av)		86.06	-	-
	2483.5(Pk)		39.94	74.00*	-34.06
	2483.5(Av)		24.85	54.00*	-29.15
	4960(Pk)		41.41	74.00	-32.59
	4960(Av)		29.55	54.00	-24.45
	7440(Pk)		47.41	74.00	-26.59
	7440(Av)		35.00	54.00	-19.00

* : Indicate restricted band of operation §15.205

-: Indicate Fundamental emission

Pk: Peak Detector; Av: Average Detector

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Data Rate: 2Mbps

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2402	2402(Pk)	Vertical	89.44	-	-
	2402(Av)		83.60	-	-
	2390(Pk)		44.73	74.00*	-29.27
	2390(Av)		29.28	54.00*	-24.72
	4804(Pk)		42.89	74.00	-31.11
	4804(Av)		30.05	54.00	-23.95
	7206(Pk)		47.16	74.00	-26.84
	7206(Av)		34.89	54.00	-19.11
	2402(Pk)	Horizontal	94.31	-	-
	2402(Av)		88.48	-	-
	2390(Pk)		39.54	74.00*	-34.46
	2390(Av)		24.63	54.00*	-29.37
	4804(Pk)		42.22	74.00	-31.78
	4804(Av)		31.22	54.00	-22.78
	7206(Pk)		47.50	74.00	-26.50
	7206(Av)		34.87	54.00	-19.13
2441	2441(Pk)	Vertical	86.05	-	-
	2441(Av)		80.32	-	-
	4882(Pk)		41.67	74.00	-32.33
	4882(Av)		29.55	54.00	-24.45
	7323(Pk)		47.38	74.00	-26.62
	7323(Av)		34.95	54.00	-19.05
	2441(Pk)	Horizontal	90.20	-	-
	2441(Av)		84.28	-	-
	4882(Pk)		41.88	74.00	-32.12
	4882(Av)		29.78	54.00	-24.22
	7323(Pk)		47.03	74.00	-26.97
	7323(Av)		34.87	54.00	-19.13
2480	2480(Pk)	Vertical	86.41	-	-
	2480(Av)		80.63	-	-
	2483.5(Pk)		42.09	74.00*	-31.91
	2483.5(Av)		24.37	54.00*	-29.63
	4960(Pk)		41.47	74.00	-32.53
	4960(Av)		29.23	54.00	-24.77
	7440(Pk)		47.15	74.00	-26.85
	7440(Av)		34.98	54.00	-19.02
	2480(Pk)	Horizontal	90.96	-	-
	2480(Av)		85.01	-	-
	2483.5(Pk)		42.60	74.00*	-31.40
	2483.5(Av)		24.84	54.00*	-29.16
	4960(Pk)		41.88	74.00	-32.12
	4960(Av)		29.31	54.00	-24.69
	7440(Pk)		47.18	74.00	-26.82
	7440(Av)		34.96	54.00	-19.04

* : Indicate restricted band of operation §15.205

-: Indicate Fundamental emission

Pk: Peak Detector; Av: Average Detector

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Data Rate: 3Mbps

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2402	2402(Pk)	Vertical	89.78	-	-
	2402(Av)		83.70	-	-
	2390(Pk)		42.66	74.00*	-31.34
	2390(Av)		24.45	54.00*	-29.55
	4804(Pk)		42.33	74.00	-31.67
	4804(Av)		29.63	54.00	-24.37
	7206(Pk)		46.77	74.00	-27.23
	7206(Av)		34.83	54.00	-19.17
	2402(Pk)	Horizontal	94.19	-	-
	2402(Av)		88.61	-	-
	2390(Pk)		41.17	74.00*	-32.83
	2390(Av)		24.70	54.00*	-29.30
	4804(Pk)		42.77	74.00	-31.23
	4804(Av)		31.33	54.00	-22.67
	7206(Pk)		47.26	74.00	-26.74
	7206(Av)		34.80	54.00	-19.20
2441	2441(Pk)	Vertical	86.39	-	-
	2441(Av)		80.25	-	-
	4882(Pk)		41.37	74.00	-32.63
	4882(Av)		29.56	54.00	-24.44
	7323(Pk)		47.25	74.00	-26.75
	7323(Av)		34.92	54.00	-19.08
	2441(Pk)	Horizontal	90.39	-	-
	2441(Av)		84.24	-	-
	4882(Pk)		41.94	74.00	-32.06
	4882(Av)		29.79	54.00	-24.21
	7323(Pk)		46.86	74.00	-27.14
	7323(Av)		34.91	54.00	-19.09
2480	2480(Pk)	Vertical	86.55	-	-
	2480(Av)		80.41	-	-
	2483.5(Pk)		44.80	74.00*	-29.20
	2483.5(Av)		24.92	54.00*	-29.08
	4960(Pk)		41.32	74.00	-32.68
	4960(Av)		29.31	54.00	-24.69
	7440(Pk)		47.78	74.00	-26.22
	7440(Av)		35.13	54.00	-18.87
	2480(Pk)	Horizontal	91.12	-	-
	2480(Av)		84.97	-	-
	2483.5(Pk)		44.27	74.00*	-29.73
	2483.5(Av)		25.09	54.00*	-28.91
	4960(Pk)		41.64	74.00	-32.36
	4960(Av)		29.37	54.00	-24.63
	7440(Pk)		46.84	74.00	-27.16
	7440(Av)		35.02	54.00	-18.98

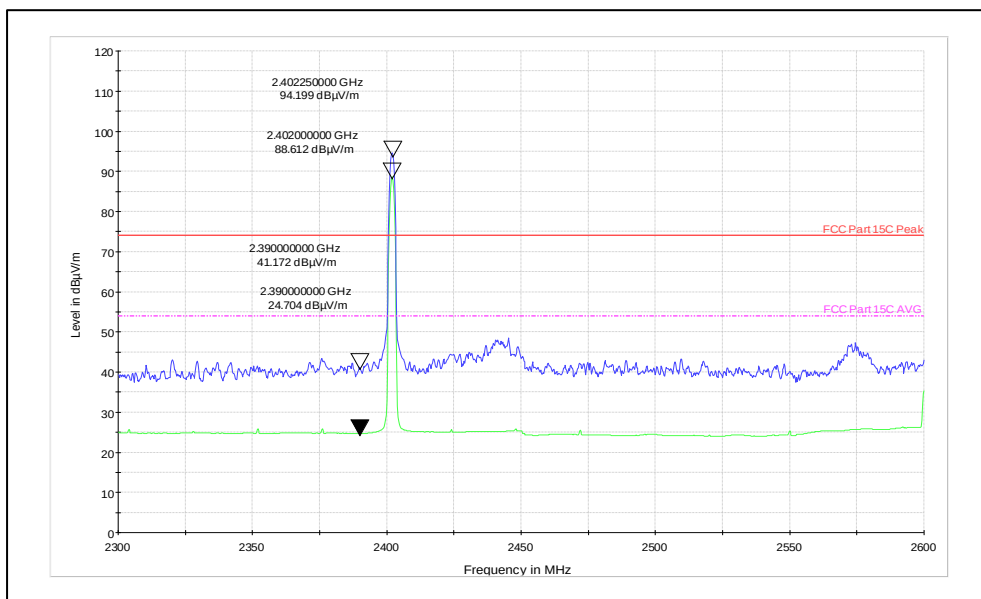
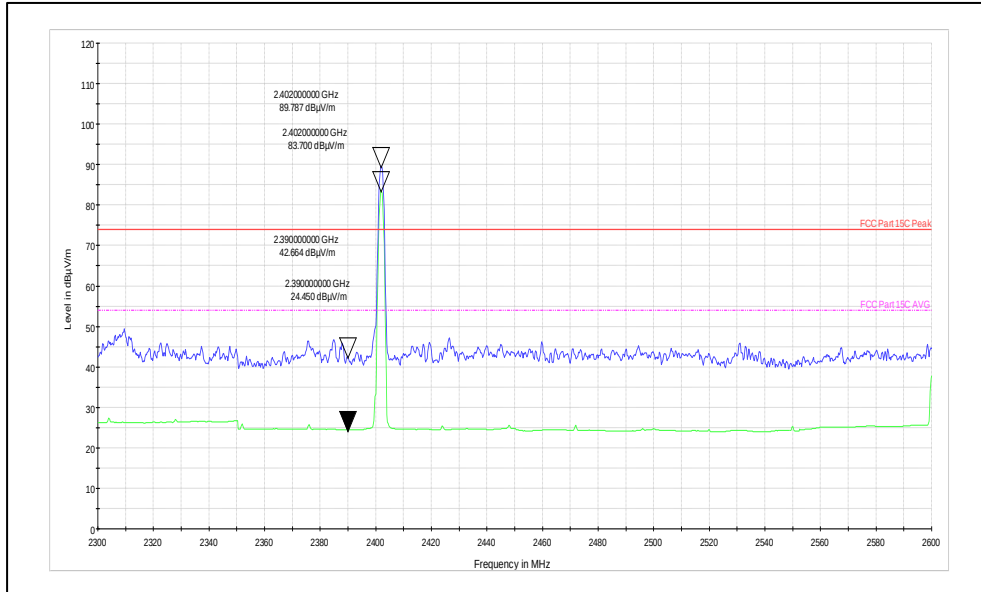
* : Indicate restricted band of operation §15.205

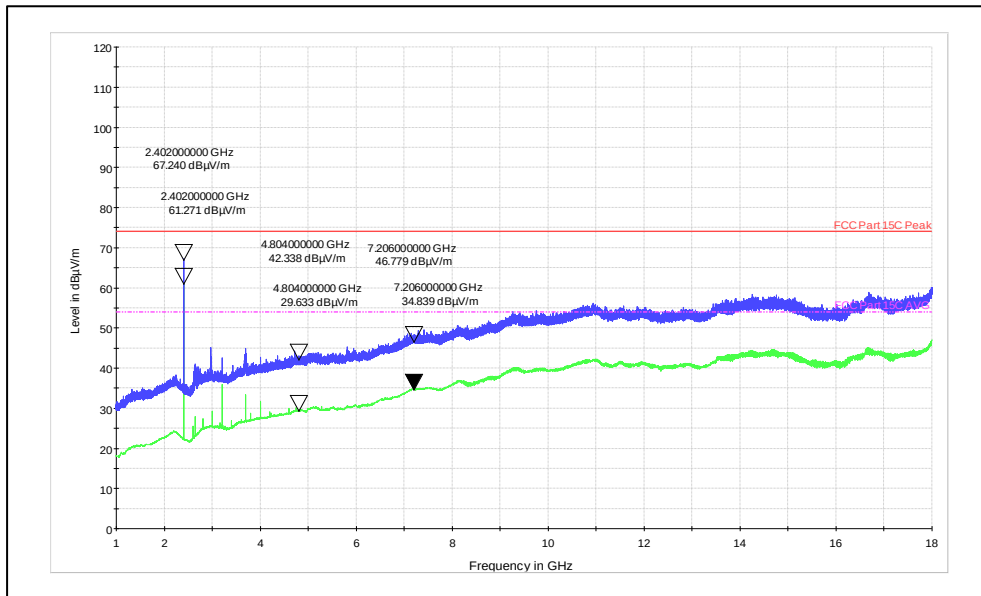
-: Indicate Fundamental emission

Pk: Peak Detector; Av: Average Detector

Test plots:

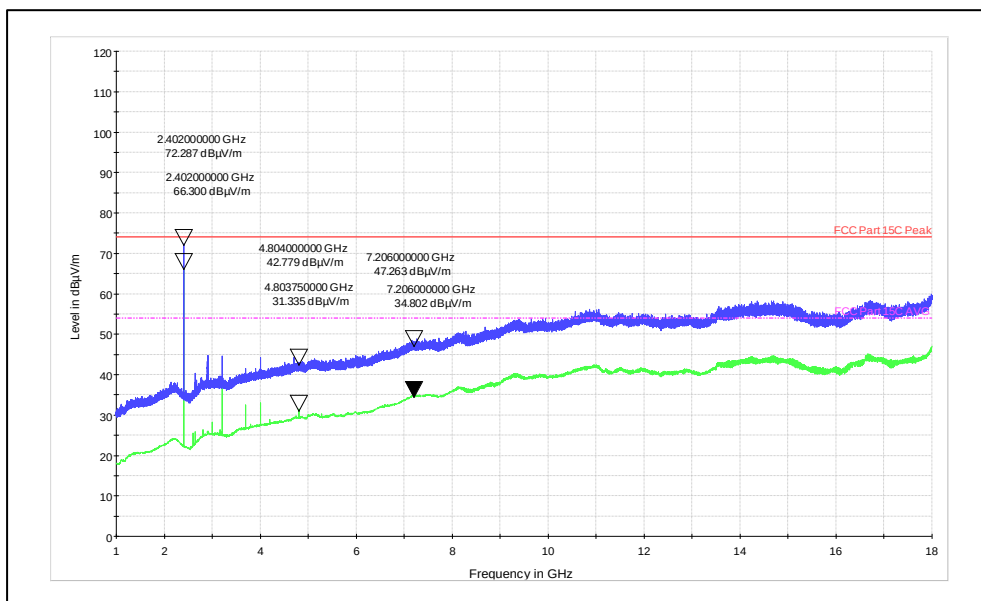
Data Rate: 3Mbps





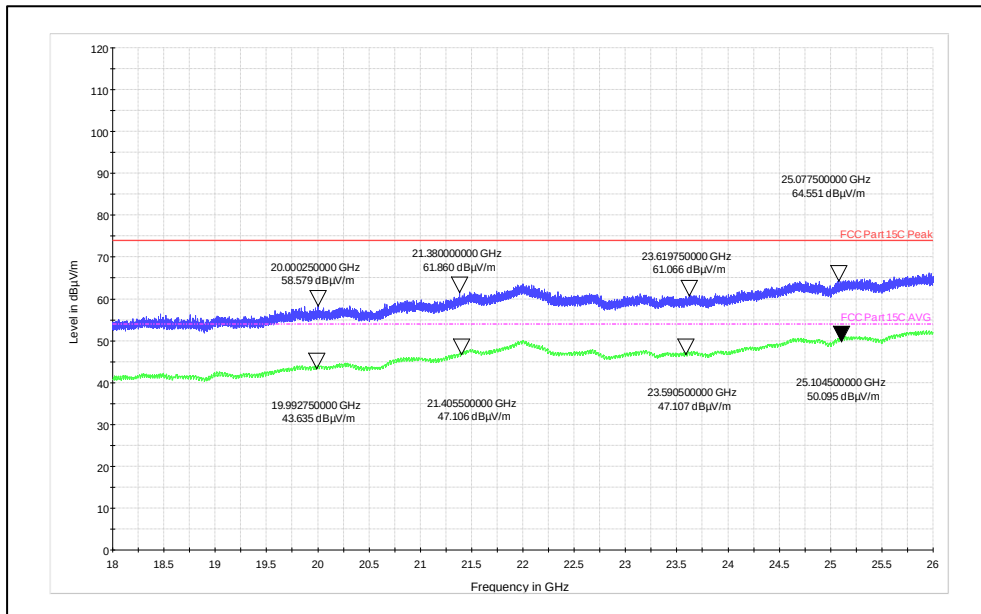
Frequency range: 1GHz-18GHz

Polarization: Vertical



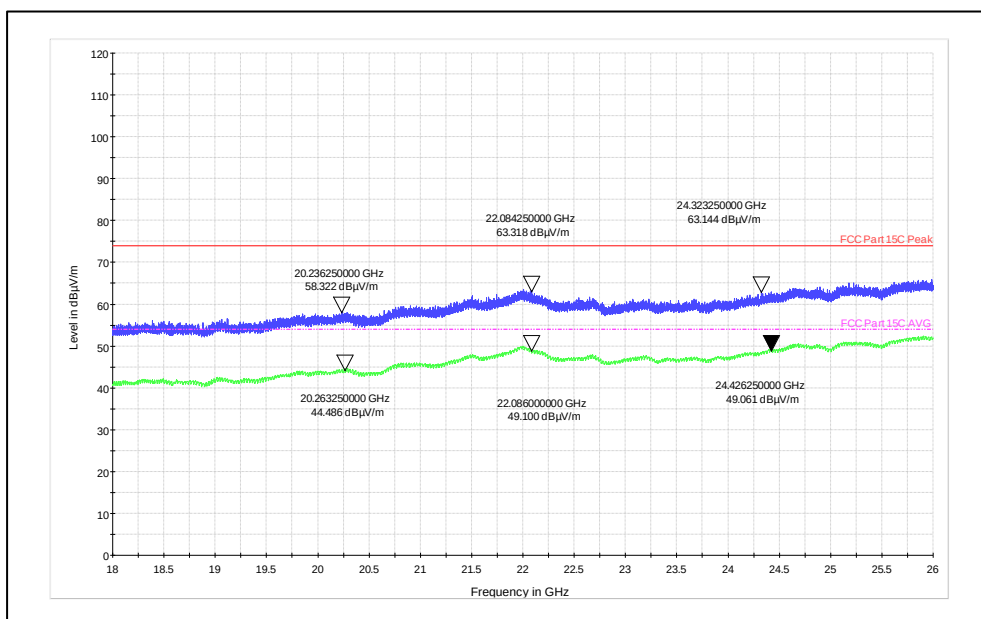
Frequency range: 1GHz-18GHz

Polarization: Horizontal



Frequency range: 18GHz to 26GHz

Polarization: Vertical

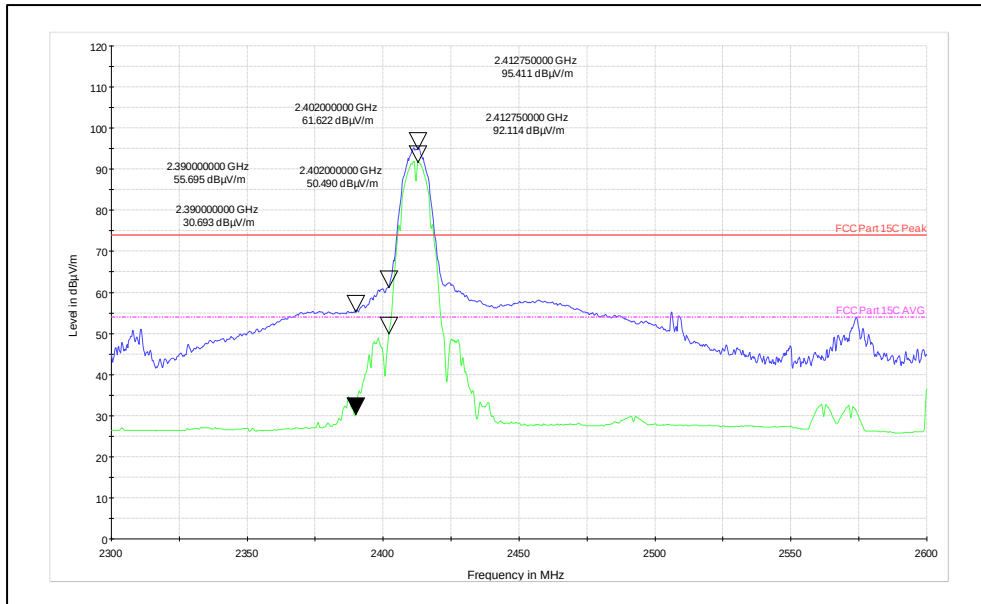


Frequency range: 18GHz to 26GHz

Polarization: Horizontal

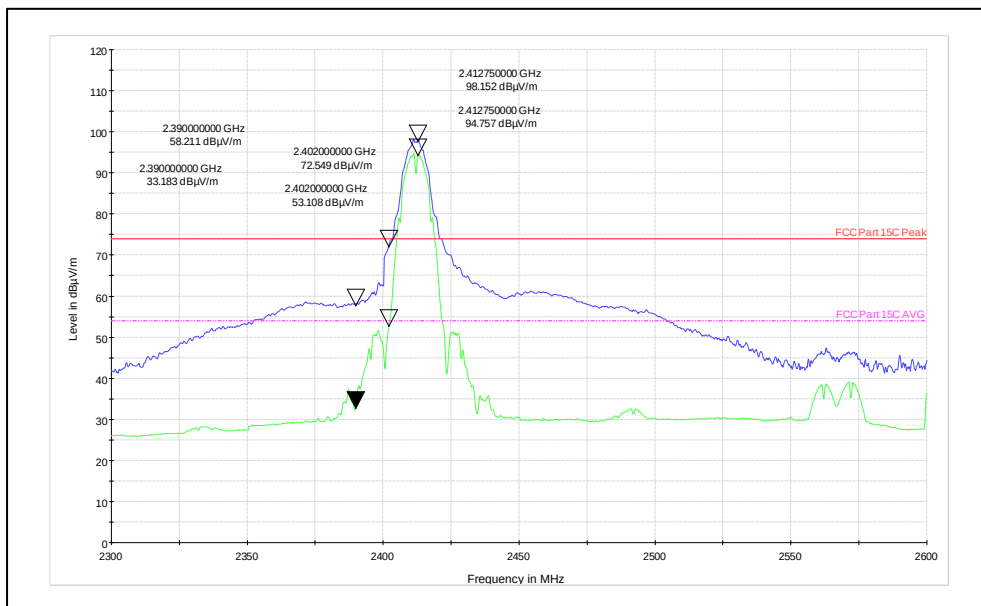
Simultaneous Operation:

Combination of Wi-Fi 2.4GHz & BT:



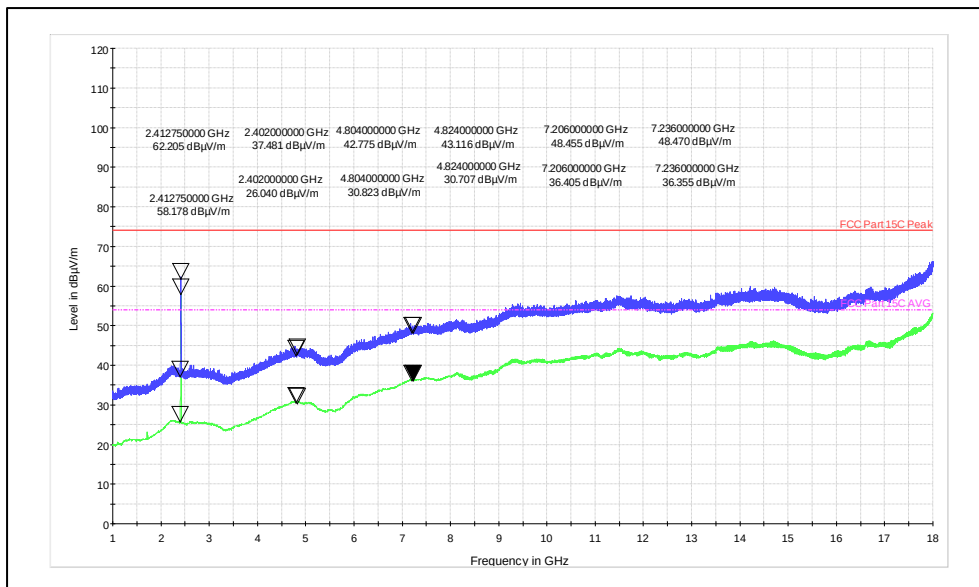
Channel Frequency: 2402MHz & 2412MHz

Polarization: Vertical



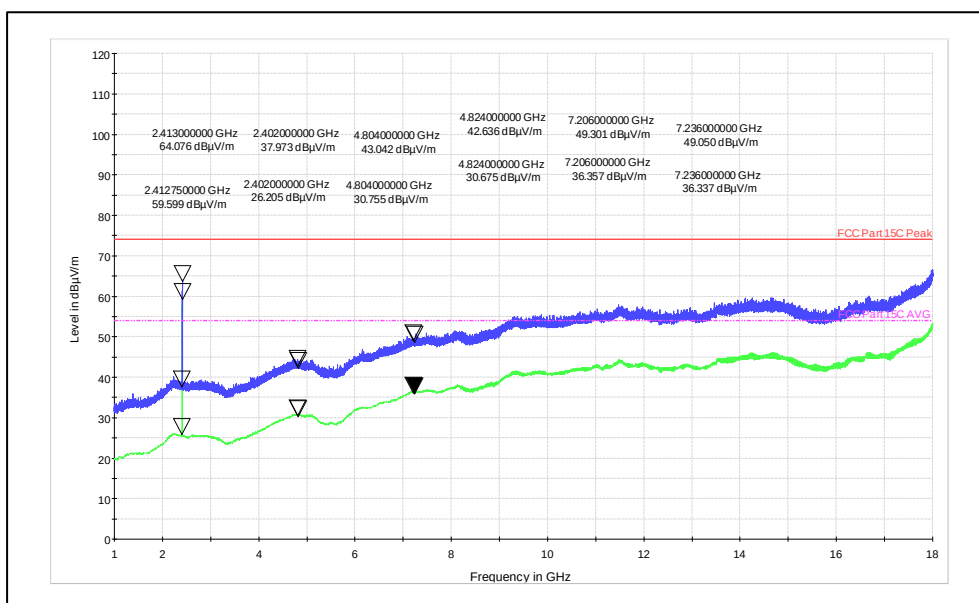
Channel Frequency: 2402MHz & 2412MHz

Polarization: Horizontal



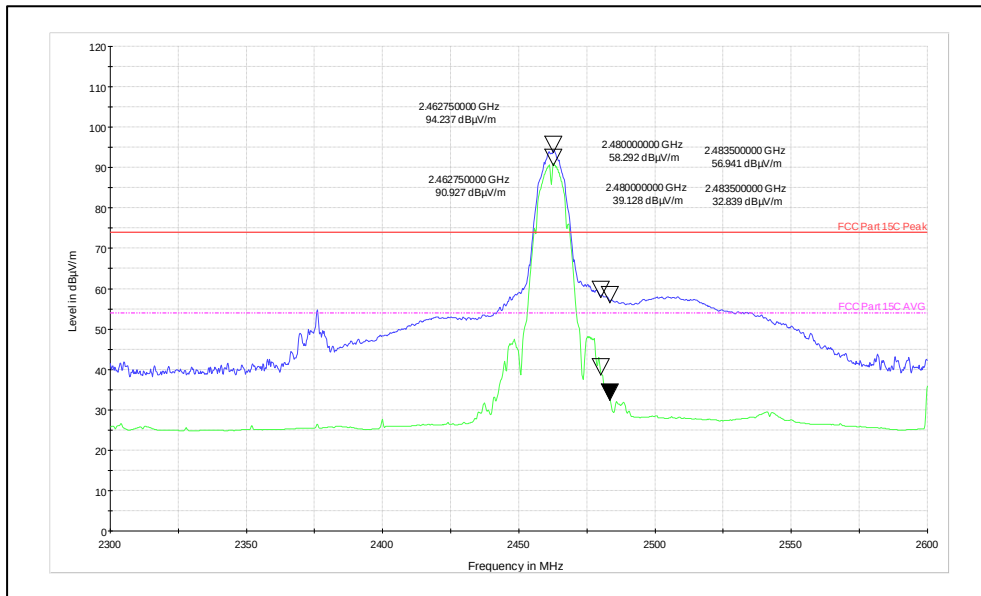
Frequency range: 1GHz to 18GHz

Polarization: Vertical



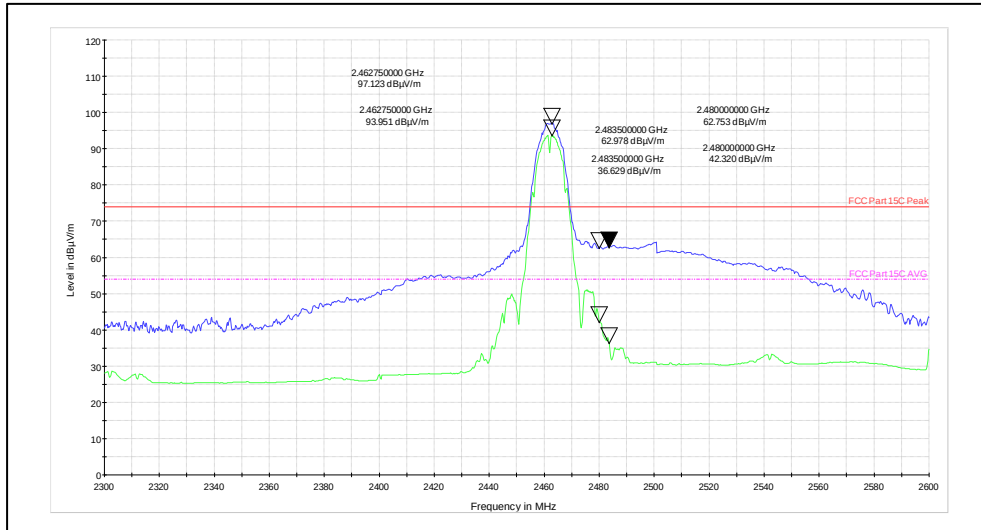
Frequency range: 1GHz to 18GHz

Polarization: Horizontal



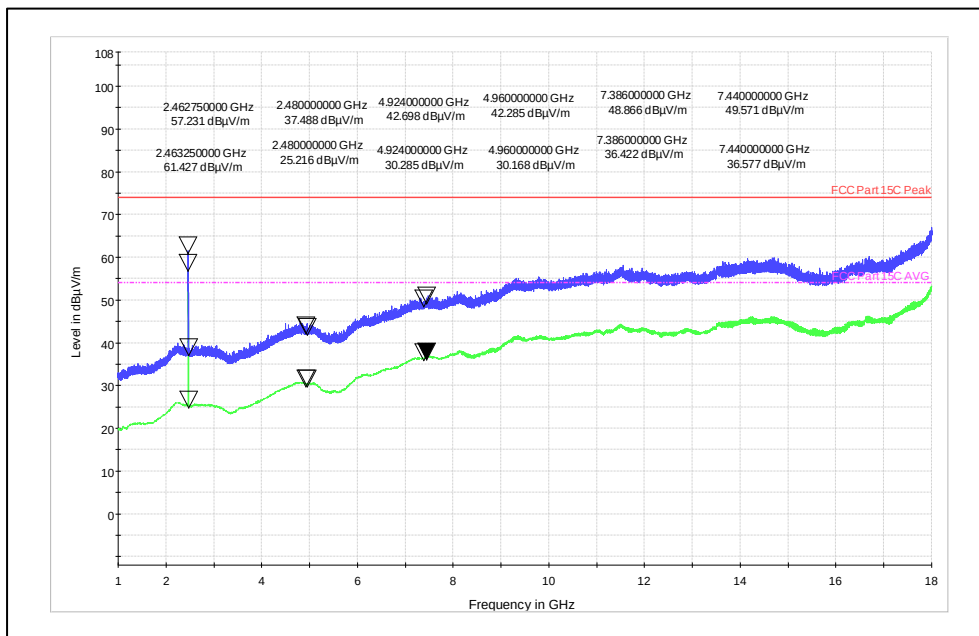
Channel Frequency: 2480MHz & 2462MHz

Polarization: Vertical



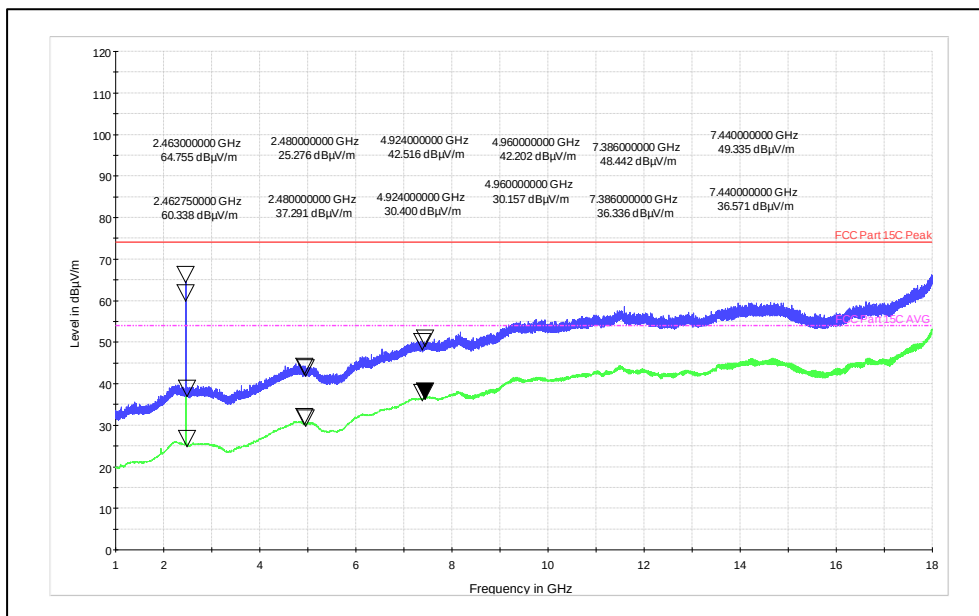
Channel Frequency: 2480MHz & 2462MHz

Polarization: Horizontal



Frequency range: 1GHz to 18GHz

Polarization: Vertical



Frequency range: 1GHz to 18GHz

Polarization: Horizontal

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8 Conducted Emission on AC Power Lines

Result

Pass

Test Specification : FCC Part 15 Section 15.207
Test Method : ANSI C 63.10-2013
Testing Location : Screened room
Measurement Bandwidth : 9kHz
Frequency Range : 150kHz – 30MHz
Supply Voltage : 110VAC,60Hz
Test Method : Refer TEST METHODOLOGY

Limits of section 15.207

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

* Decreases with the logarithm of the frequency

Test Conditions:

Normal Temperature = +24°C Voltage (V norm) = 110V AC (Through AC to DC Adapter) Relative Humidity = 64%

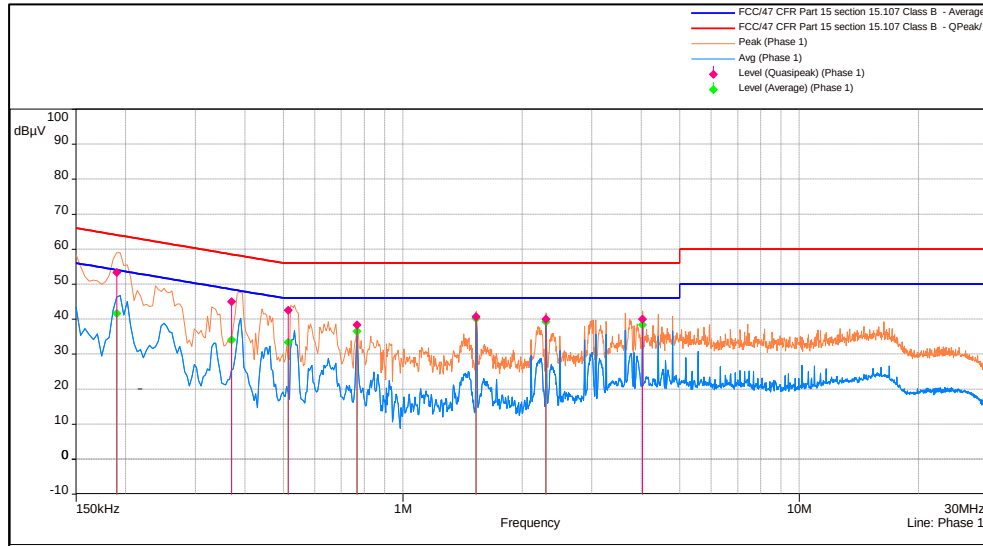
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Test result:

Power: 110VAC 60Hz_LINE



Line Graph

Quasipeak:-

Frequency (MHz)	Correction (dB)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Comments
0.1896	19.88	53.39	64.04	-10.64	Pass
0.36935	19.87	45.03	58.5	-13.47	Pass
0.5151	19.9	42.52	56	-13.48	Pass
1.5304	20.04	40.72	56	-15.28	Pass
2.2948	20.03	40.04	56	-15.96	Pass
4.01745	20.02	40.03	56	-15.97	Pass
0.7651	19.93	38.43	56	-17.57	Pass

Average:-

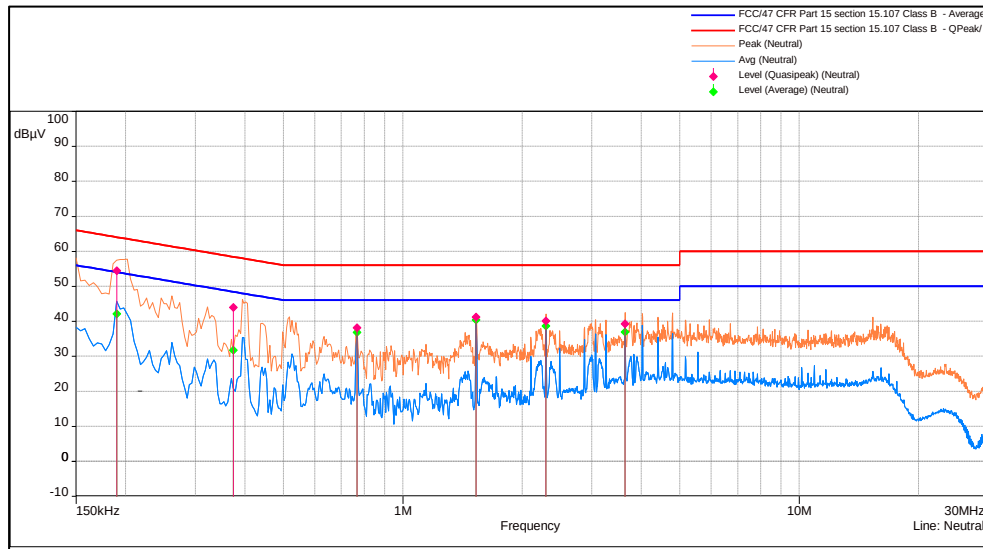
Frequency (MHz)	Correction (dB)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Comments
1.5304	20.04	40.17	46	-5.83	Pass
2.2948	20.03	39.33	46	-6.67	Pass
4.01745	20.02	38.36	46	-7.64	Pass
0.7651	19.93	36.59	46	-9.41	Pass
0.1896	19.88	41.69	54.04	-12.35	Pass
0.5151	19.9	33.38	46	-12.62	Pass
0.36935	19.87	34.14	48.5	-14.36	Pass

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Power: 110VAC 60Hz_NEUTRAL



Neutral Graph

Quasipeak:-

Frequency (MHz)	Correction (dB)	Level (dBµV)	Limit (dBµV)	Margin (dB)	Comments
0.19185	19.83	54.48	64.04	-9.56	Pass
0.37555	19.76	43.96	58.41	-14.45	Pass
1.5304	19.88	41.24	56	-14.76	Pass
2.2935	19.86	40.1	56	-15.9	Pass
3.6348	19.85	39.29	56	-16.71	Pass
0.7651	19.79	38.23	56	-17.77	Pass

Average:-

Frequency (MHz)	Correction (dB)	Level (dBµV)	Limit (dBµV)	Margin (dB)	Comments
1.5304	19.88	40.46	46	-5.54	Pass
2.2935	19.86	38.73	46	-7.27	Pass
3.6348	19.85	36.93	46	-9.07	Pass
0.7651	19.79	36.87	46	-9.13	Pass
0.19185	19.83	42.15	54.04	-11.89	Pass
0.37555	19.76	31.74	48.41	-16.67	Pass

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10 Power level used for 1, 2, 3 Mbps

Channel Frequency (MHz)	Power level index
2402	-2
2441	-2
2480	-2

*****END OF TEST REPORT*****