



TEST REPORT FOR WLAN TESTING

Report No.: SRTC2022-9004(F)-22083003(F)

Product Name: LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile

Phone

Applicant: ZTE Corporation

Manufacturer: ZTE Corporation

Specification: FCC Part 15 Subpart C (2021)

FCC ID: SRQ-ZTEA7050PE

The State Radio_monitoring_center Testing Center (SRTC) 15th Building, No.30 Shixing Street, Shijingshan District, Beijing, P.R.China Tel: 86-10-57996183 Fax: 86-10-57996388



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1. GENERAL INFORMATION

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio_monitoring_center Testing Center (SRTC). The test results relate only to individual items of the samples which have been tested. The certification and accreditation identifiers used in this report shall not be applicable to the tested or calibrated samples thereof. The manufacturer shall not mark the tested samples or items (or a separate part of the item) with the identifiers of certification and accreditation to mislead relevant parties about the tested samples or items.

1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)		
Test Site 1:	15th Building, No.30 Shixing Street, Shijingshan District		
Test Site 2:	No.80, Zhaojiachang, Beizang, Daxing District		
City:	Beijing		
Country or Region:	P.R.China		
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Designation Number:	CN1267		
Registration number:	239125		

1.3 Applicant's details

Company:	ZTE Corporation
Address:	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park,
Audiess.	Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.4 Manufacturer's details

Company:	ZTE Corporation		
Address:	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park,		
Audress.	Nanshan District, Shenzhen, Guangdong, 518057, P.R.China		

1.5 Test Environment

Date of Receipt of test sample at SRTC:	2022-08-31
Testing Start Date:	2022-09-01
Testing End Date:	2022-09-30



Environmental Data:	Temperature (°C)	Humidity (%)	
Ambient	25	40	
Maximum Extreme	55		
Minimum Extreme	-10		
Normal Supply Voltage (V d.c.):	3.85		
Maximum Extreme Supply Voltage (V d.c.):	4.20		
Minimum Extreme Supply Voltage (V d.c.):	3.60		

2 DESCRIPTION OF THE DEVICE UNDER TEST 2 1Einal Equipment Build Status

2.1Final Equipment Build Status	5
Frequency Band:	2.412GHz~2.462GHz
Number of Channel For 20MHz:	11
Number of Channel For 40MHz:	7
	802.11b
Modulation Type:	802.11g
	802.11n (HT20/HT40)
Power Supply:	Battery
Software Revision:	MyOS12.0.0_A7050_TEL
Hardware Revision:	ZTE A7050HW1.0
IMEI:	863949060002288
Antenna type:	Refer to Note
Antenna connector:	Refer to Note



Note: Antenna requirement (FCC part 15.203)

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

•The antenna(s) of the EUT are permanently attached.

•There are no provisions for connection to an external antenna.

Note: The antenna provides to the EUT, please refer to the following table:

Brand	Model	Antenna gain	Frequency band	Antenna type	Connecter Type	
N/A	N/A	-1.2dBi	2.4GHz~2.4835GHz	FPC Antenna	N/A	

The antenna gain is provided by the customer and involved in the calculation and influence of the test results. Our laboratory takes the value declared by the customer as the criterion, and the customer is responsible for the antenna gain value. Manufacturers ensure that their designs will not be modified by the user or third party's arbitrary antenna parameters and performance.

2.2 Description of Test Modes

11 channels are provided to this EUT:

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		

2.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE	APPLICABLE TO			DESCRIPTION	
MODE	RE ≥ 1G RE<1G PLC APCM				-
-				\checkmark	-

Where

RE ≥ 1G: Radiated Emission above 1GHz RE<1G: Radiated Emission below 1GHz PLC: Power Line Conducted Emission APCM: Antenna Port Conducted Measurement

Radiated Emission Test (Above 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with



antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
1 to 11	1/6/11 For HT20 3/6/9 For HT40	DBPSK/BPSK	1,6, 6.5,13.5 8.6,17.2

Radiated Emission Test (Below 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
1 to 11	1/6/11 For HT20 3/6/9 For HT40	DBPSK/BPSK	1,6, 6.5,13.5 8.6,17.2

Power Line Conducted Emission Test:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
1 to 11	6	DBPSK	1

Antenna Port Conducted Measurement:

This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
1 to 11	1/6/11 For HT20 3/6/9 For HT40	DBPSK/BPSK	1,6, 6.5,13.5 8.6,17.2



2.3 EUT Operating conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

2.4 Support Equipment

The following support equipment was used to exercise the DUT during testing: N/A

<u>3 REFERENCE SPECIFICATION</u>

Specification	Version	Title
FCC part15 Subpart C	2021	Intentional radiators
ANSI C63.10	2013	Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074D01 V05R02	April 2, 2019	Guidance for compliance measurements on Digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

4 KEY TO NOTES AND RESULT CODES

Code	Meaning
PASS	Test result shows that the requirements of the relevant specification have been met.
FAIL	Test result shows that the requirements of the relevant specification have not been met.
N/T	Test case is not tested.



5 RESULT SUMMARY

No.	Test case	Reference	Verdict	Test Site
1	Transmitter Output Power	15.247(b)(3)	Pass	1
2	6dB Bandwidth	15.247(a)(2)	Pass	1
3	Transmitter Power Spectral Density	15.247(e)	Pass	1
4	Conducted Out of band emission measurement	15.247(d)	Pass	1
5	Band Edge	15.247(d)	Pass	1
6	Antenna requirement	15.203	Pass(refer to section 2.1)	1

Test Site 1: 15th Building, No.30 Shixing Street, Shijingshan District

This Test Report Is Approved by:	Review by:
Mr. Peng Zhen	Mr. Li Bin I
彭板	(A 78K)
Tested and Issued by:	Approved date:
Mr. Du Wei	
村王威	20220930



No.	Test case	Reference	Verdict	Test Site
7	Spurious Radiated Emissions	15.205/15.209	Pass	2
8	AC Power line Conducted Emission	15.207	Pass	2

Test Site 2: No.80, Zhaojiachang, Beizang, Daxing District

This Test Report Is Approved by:	Review by:
Mr. Liu Wei	Mr. Guo Yu
Tested and Issued by: Mr. Dong Qifeng 董奇绎	Approved date: 20220930



6 TEST RESULT

6.1 Peak Power Output

6.2.1 Test limit

Part15.247 (b) (3) The maximum permissible conducted output power is 1 Watt.

6.2.2 Test Procedure Used

ANSI C63.10-2013 – Section 11.9.1.3 ANSI C63.10-2013 – Section 11.9.2.3.2 KDB 558074 D01 v05r02 – Section 8.3.1.3

6.2.3 Test Settings

Peak Power Measurement

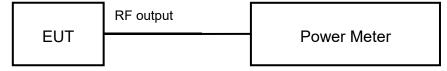
The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

6.2.4 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.2.5 Test result

The test results are shown in Appendix A.



6.1.1 Test limit

Part15.247 (a) (2) The minimum permissible 6dB bandwidth is 500 kHz

6.1.2 Test Procedure Used

ANSI C63.10-2013 – Section 11.8.2 Option 2 KDB 558074 D01 v05r02 – Section 8.2

6.1.3 Test Settings

1. The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.

2. RBW = 100 kHz

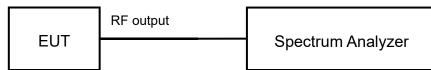
3. VBW \geq 3 x RBW

4. Detector = Peak

- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize

6.1.4 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.1.5 Test result

The test results are shown in Appendix A.



6.3 Transmitter Power Spectral Density

6.3.1 Test limit

Part15.247 (e) The maximum permissible power spectral density is 8.0dBm in any 3 kHz band.

6.3.2 Test Procedure Used

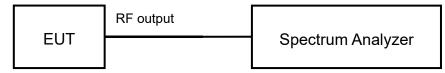
ANSI C63.10-2013 – Section 11.10.2 Method PKPSD KDB 558074 D01 v05r02 – Section 8.4

6.3.3 Test Settings

- 1. Analyzer was set to the center frequency of the DTS channel under investigation
- 2. Span = 1.5 times the DTS channel bandwidth
- 3. RBW = 3 kHz
- 4. VBW = 10 kHz
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Trace was allowed to stabilize

6.3.4 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.3.5 Test result

The test results are shown in Appendix A.



6.4 Conducted Out of band emission measurement

6.4.1 Test limit

Part 15.247(d): The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth.

6.4.2 Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3 KDB 558074 D01 v05r02 – Section 8.5

6.4.3 Reference level measurement Settings

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to \geq 1.5 MHz
- c) Set the RBW = 100 kHz.
- d) Set the VBW \geq 300 kHz.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.

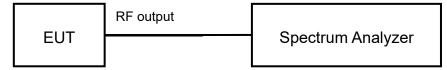
6.4.4 Test Settings

a) Set the center frequency and span to encompass frequency range to be measured.

- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq 300 kHz.
- d) Detector = peak.
- e) Set span to encompass the spectrum to be examined
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level.

6.4.5 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.4.6 Test result

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement. The test results are shown in Appendix A.



6.5 Band-edge measurement

6.5.1 Test limit

Part 15.247(d): The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth.

6.5.2 Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3 KDB 558074 D01 v05r02 – Section 8.7.2

6.5.3 Reference level measurement Settings

Establish a reference level by using the following procedure:

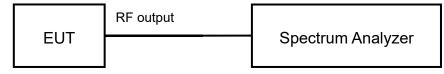
- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to \geq 1.5 MHz
- c) Set the RBW = 100 kHz.
- d) Set the VBW \geq 300 kHz.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.

6.5.4 Test Settings

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq 300 kHz.
- d) Detector = peak.
- e) Set span to encompass the spectrum to be examined
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level.

6.5.5 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.5.6 Test result

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement. The test results are shown in Appendix A.



6.6 Spurious Radiated Emissions

6.6.1 Test Description

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

6.6.2 Test limit

Part15.205, 15.209, 15.247(d)

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in below Table per Section 15.209. The spectrum shall be investigated from the lowest radio frequency signal generated in the device

Frequency [MHz]	Field strength	Measured Distance	
	[µV/m]	[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	
Radiated Limits			

Part15.35(b):

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit

Used conversion factor: Limit $(dB\mu V/m) = 20 \log (Limit (\mu V/m)/1\mu V/m)$

	<u> </u>	
Frequency [MHz]	Detector	Unit (dBµV/m)
30~88	Quasi-peak	40.0
88~216	Quasi-peak	43.5
216~960	Quasi-peak	46.0
960~1000	Quasi-peak	54.0
1000 \sim 5th harmonic of the highest frequency	Average	54.0
or 40GHz, whichever is lower	Peak	74.0

Conversion Radiated limits



ANSI C63.10-2013

For Radiated emission below 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. Both X and Y axes of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and recorded the reading with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer complied the following setting:

<u> </u>	
Frequency	RBW
9-150kHz	200-300Hz
0.15-30MHz	9-10kHz

2. Signals below 30MHz are not recorded in the report because they are lower than the limits by more than 20dB.

For Radiated emission above 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground in chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to quasi-peak detect function and recorded the reading with Maximum Hold Mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detector and recorded the reading with Maximum Hold Mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.



For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1GHz.

2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.

3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Average detection (AV) at frequency above 1GHz. If duty cycle of test signal is < 98%, the duty factor need added to measured value.

4. All modes of operation were investigated and the worst-case emissions are reported.

6.6.4 Test Settings

Average Field Strength Measurements

Frequency	Detector
<1000MHz	Quasi-peak
>1000MHz	Peak and average

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW is set depending on measurement frequency, as specified in following table

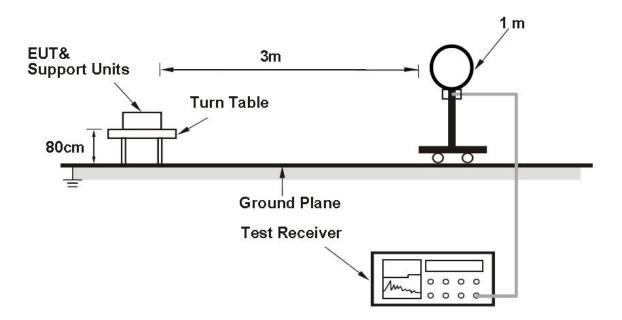
Frequency	RBW
9-150kHz	200-300Hz
0.15-30MHz	9-10kHz
30-1000MHz	100-120kHz
>1000MHz	1MHz

3. VBW = 3MHz

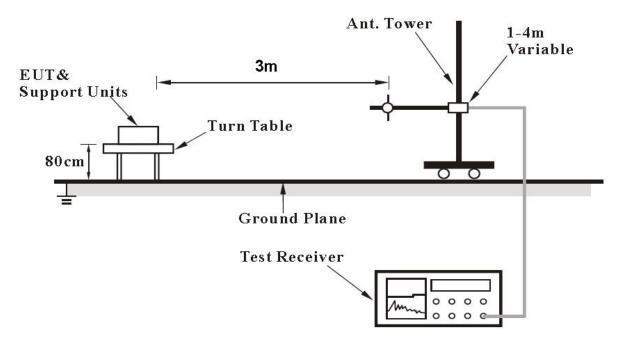
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize



For Radiated emission below 30MHz

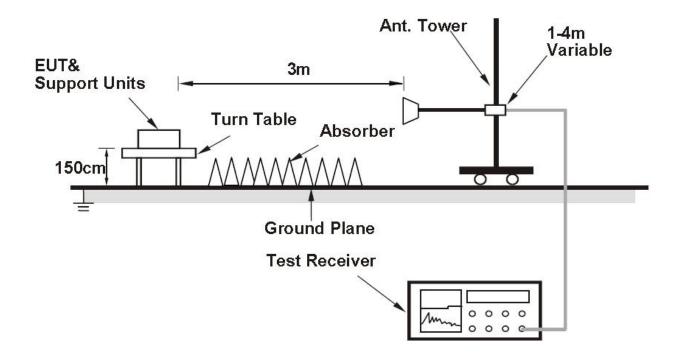


For Radiated emission 30MHz to 1GHz





For Radiated emission above 1GHz



6.6.6 Test result

The test results are shown in Appendix B.



6.7 AC Power line Conducted Emission

6.7.1 Test limit

FCC Part15.207

Frequency of Emission (MHz)	Conducted Limit (dBuV)				
	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.

The measurement is made according to ANSI C63.10-2013

6.7.2 Test Procedures

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

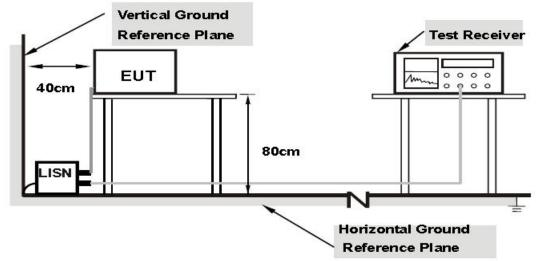
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

The EUT shall test under the power AC120V/240V/60Hz.





For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.4 Test result

The test results are shown in Appendix B.



7 MEASUREMENT UNCERTAINTIES

Items	Uncertainty		
6dB Bandwidth	3kHz		
Peak power output	0.67dB		
Transmitter Power Spectral Density	0.75	idB	
Band edge compliance	1.20dB		
	30MHz~1GHz	2.83dB	
Conducted Out of band emission measurement	1GHz \sim 12.75GHz	2.50dB	
medodromont	12.75GHz \sim 25GHz	2.75dB	
	30 MHz \sim 200 MHz	4.88dB	
Spurious Radiated Emissions	200MHz \sim 1GHz	4.87dB	
Spurious Radiated Emissions	1GHz~18GHz	4.58dB	
	18GHz~40GHz	4.35dB	
AC Power line Conducted Emission	3.92	dB	



8 TEST EQUIPMENTS

No.	Name/ Model	Manufacturer	S/N	Cal date	Cal Due date
1.	Spectrum Analyzer / FSV	ROHDE & SCHWARZ	101065	2022.06.21	2023.06.20
2.	Signal Analyzer / N9020A	Agilent	MY48010771	2022.05.18	2023.05.17
3.	Bluetooth Test Set / MT8852B	Anritsu	1329003	2022.06.21	2023.06.20
4.	Power Divider / 11667A	HP	19632	2022.06.21	2023.06.20
5.	Power Meter E4416A	Agilent	MY52370013	2022.04.13	2023.04.12
6.	Power Sensor E9323A	Agilent	MY52150008	2022.04.13	2023.04.12
7.	Signal Generator / SMBV100A	R&S	260910	2022.06.21	2023.06.20
8.	Temperature chamber / SH241	ESPEC	92013758	2022.06.21	2023.06.20
9.	Fully-Anechoic Chamber / 12.65m×8.03m×7.50m	FRANKONIA			
10.	Semi-Anechoic/Chamber / 23.18m×16.88m×9.60m	FRANKONIA			
11.	Turn table Diameter:1m	FRANKONIA			
12.	Turn table Diameter:5m	FRANKONIA			
13.	Antenna master FAC(MA4.0)	MATURO			
14.	Antenna master SAC(MA4.0)	MATURO			
15.	Shielding room / 9.080m×5.255m×3.525m	FRANKONIA			
16.	Double-Ridged Waveguide Horn Antenna / HF 907	R&S	100512	2022.06.21	2023.06.20
17.	Double-Ridged Waveguide Horn Antenna / HF 907	R&S	100513	2022.06.21	2023.06.20
18.	Ultra log antenna / HL562	R&S	100016	2022.06.21	2023.06.20
19.	Receive antenna /3160-09	SCHWARZ-BECK	002058-002	2022.06.21	2023.06.20
20.	EMI test receiver / ESI 40	R&S	100015	2022.06.21	2023.06.20
21.	EMI test receiver / ESCS30	R&S	100029	2022.06.21	2023.06.20
22.	Receive antenna / HL562	R&S	100167	2022.06.21	2023.06.20
23.	AMN / ENV216	R&S	3560.6550.12	2022.06.21	2023.06.20
24.	WLAN AP WIA3300-20	SKSpruce	8152017060700339		
25.	Notebook E470c	Lenovo	PF10UZW7		
26.	Loop Antenna	R&S	100340	2022.08.21	2023.08.20
27.	FCC auto test system / RT9200BW-2	Radiosky	V2.05	1	/
28.	EMI test software / EMC32	R&S	V10.20.01	/	/



APPENDIX A – TEST DATA OF CONDUCTED EMISSION Offset 11.82dB = Temporary antenna connector loss + Cable loss

Duty Cycle

Modulation Type	Frequency (MHz)	Antenna	Duty Cycle	Correction Factor(dB)
802.11b	2412	Chain0	99.65%	0
802.11g	2412	Chain0	98.04%	0
802.11n HT20	2412	Chain0	97.66%	0.10
802.11n HT40	2422	Chain0	95.59%	0.20

Note: Correction Factor=10*log (1/Duty Cycle)

Conducted power

Test Mode	Tones/ RU Index	Freq(MHz)	Antenna	Peak power output (dBm)	Average power output (dBm)
802.11b	NA	2412	Chain0	21.58	18.65
802.11b	NA	2437	Chain0	21.90	18.97
802.11b	NA	2462	Chain0	21.26	18.32
802.11g	NA	2412	Chain0	25.90	17.61
802.11g	NA	2437	Chain0	26.16	17.86
802.11g	NA	2462	Chain0	25.76	17.46
802.11n HT20	NA	2412	Chain0	24.96	16.08
802.11n HT20	NA	2437	Chain0	25.28	16.40
802.11n HT20	NA	2462	Chain0	24.74	15.87
802.11n HT40	NA	2422	Chain0	26.01	16.77
802.11n HT40	NA	2437	Chain0	25.57	16.44
802.11n HT40	NA	2452	Chain0	25.15	15.96

6dB Bandwidth

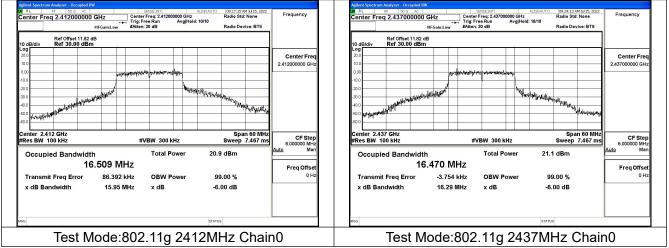
			6 dB bandwidth(MHz)	
Test Mode	Antenna	Channel No.1	Channel No.6	Channel No.11
		2412MHz	2437MHz	2462MHz
802.11b	Chain0	8.14	8.18	8.93
802.11g	Chain0	15.95	16.29	15.99
802.11n HT20	Chain0	15.25	16.90	17.02

			6 dB bandwidth(MHz)	
Test Mode	Antenna	Channel No.3	Channel No.6	Channel No.9
		2422MHz	2437MHz	2452MHz
802.11n HT40	Chain0	35.75	35.81	35.45



RL RF SO Q AC Senter Freq 2.412000000 GHz #IFGain:Li	SENSE:INT Center Freq: 2.412000000 GHz Trig: Free Run Avg Hold: #Atten: 30 dB	: 10/10 Radio Std: None Radio Device: BTS	Frequency	Center Freq 2.437000000	#IFGain:Low #Atten:	Freq: 2.437000000 GHz ree Run Avg Hold :30 dB	d: 10/10 Radio Dev	rice: BTS
Ref Offset 11.82 dB 0 dB/div Ref 30.00 dBm				Ref Offset 11.82 10 dB/div Ref 30.00 dBn	dB n			
		Mr. Marine and Marine and	Center Freq 2.412000000 GHz	Log 300 100 100 		they we have	a free for the second s	Center Fre 2.437000000 GH
center 2.412 GHz Res BW 100 kHz	#VBW 300 kHz	Span 60 MHz Sweep 7.467 ms	CF Step	Center 2.437 GHz #Res BW 100 kHz	#	/BW 300 kHz	Spa	n 60 MHz CF Ste
Occupied Bandwidth	Total Power	22.1 dBm	6.000000 MHz Auto Man	Occupied Bandwidt		Total Power	22.3 dBm	Auto 6.000000 Mi
11.991			Freq Offset		2.085 MHz			Freq Offs
	.49 kHz OBW Power 40 MHz x dB	99.00 % -6.00 dB	0 Hz	Transmit Freq Error x dB Bandwidth	-40.715 kHz 8.184 MHz	OBW Power x dB	99.00 % -6.00 dB	01
Test Mode	e:802.11b 241	ALIGNAUTO 05:57:23 PM 3ul 14, 2022	-	Test N	1ode:802	.11b 243	status 87MHz C	Chain0
Test Mode	SENSE:INT Center Freq: 2.462000000 GHz	2MHz Chair	n0 Frequency		1ode:802	.11b 243		Chain0
Test Mode	SENSE:INT Center Freq: 2.462000000 GHz	ALIGNAUTO 05:57:23 PM Jd 14, 2022 Radio Std: None	-		1ode:802	.11b 243		Chain0
Test Mode	Genter Free 2.46200000 OHz Genter Free 2.46200000 OHz Attant: 50 dB Attant: 50 dB	ALIGNAUTO 05:57:23 PM Jd 14, 2022 Radio Std: None	-		1ode:802	.11b 243		Chain0
Control of the section of the s	Genter Free 2.46200000 OHz Genter Free 2.46200000 OHz Attant: 50 dB Attant: 50 dB	ADVINTO 100002211913214.0022 Radio Std: None Radio Device: BTS	Frequency Center Freq 2.45200000 GHz		1ode:802	.11b 243		Chain0
blot Spetram Analyzer - Decapited BW R B - Doc a AC errorer Freq 2.4652000000 GHz #FGalactu Ref Offset1182 dB od Birdiv Ref 30.00 dBm od Birdiv Ref 30.00 dBm od Birdiv Ref 30.00 dBm od Birdiv Ref 30.00 dFz od Birdiv Ref 30.00 dFz od Birdiv Ref 30.00 dFz od Birdiv Ref 30.00 dFz Coupled Bandwidth 11.9455 Transmit Freq Error - 13.3	Grand Free 2.46200000 GHz Grand Free 2.46200000 GHz Arten: 30 dB www.method free 4.46200000 GHz Arten: 30 dB #VEW 300 kHz Total Power	AUSTAUTO 102-07-23 IP4 AU 14, 2022 Radio Stat. Vone Radio Device: BTS	Frequency Center Freq 2.45200000 GHz		1ode:802	.11b 243		Chain0

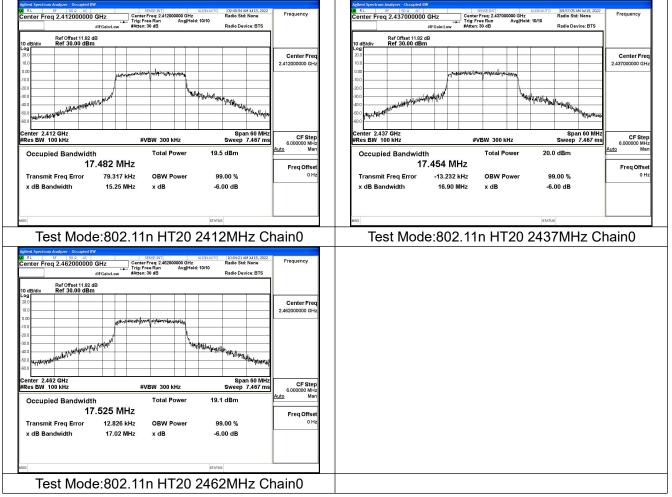
Test Mode: 802.11g





x dB Bandwidth 15.99 MHz x dB -6.00 dB	Ref Offset 11 82 dB Ref 30.00 GHz Filter 11 82 dB Ref 30.00 GHz Filter 11 82 dB Ref offset 11 82 dB Ref 30.00 GHz State 11 and 12 dB State 11 and 12 dB Ref offset 11 82 dB Ref offset 11 dB </th <th>Frequency Center Freq 2.452000000 GHz 6.000000 MHz 6.000000 MHz Auto Man Freq Offset 0 Hz</th> <th></th>	Frequency Center Freq 2.452000000 GHz 6.000000 MHz 6.000000 MHz Auto Man Freq Offset 0 Hz	
	Center 2.482 CHz Span 60 MHz Sweep 7.467 ms Occupied Bandwidth Total Power 20.6 dBm 16.374 MHz	6.000000 MHz Auto Man Freq Offset	

Test Mode: 802.11n HT20





RL IP DO Ø AC SPEEERT AUSPAURO IDLIG-94 M JL 15, 200 Inter Freq 2.422000000 GHz Center Freq 2.422000000 GHz Raids Stati Vasce Raids Stati Vasce Raids Stati Vasce #FGainLow #Firsten: 30 dB Raids Stati Vasce Raid Device: BTS	Frequency	Center Freq 2.437000000 GHz Center Freg 2.437000000 GHz Radio Std: None Free Trig: Free Run Avg Held: 10/10 BFGain:Low #Atten: 30 dB Radio Device: BTS	requency
Ref Offset 11.82 dB dB/div Ref 30.00 dBm		Ref Offset 11.82 dB 10 dB/div Ref 30.00 dBm	
a a a a a a a a a a a a a a a a a a a	Center Freq 2.42200000 GHz		Center Fre
enter 2.422 GHz Span 100 MH		Center 2.437 GHz Span 100 MHz	CF Ste
tes BW 100 kHz #VBW 300 kHz Sweep 12.4 m Occupied Bandwidth Total Power 20.3 dBm	10.000000 MHz Auto Man	#Res BW 100 kHz #VBW 300 kHz Sweep 12.4 ms Occupied Bandwidth Total Power 19.8 dBm	0.000000 Mł Mi
35.950 MHz Transmit Freq Error 25.735 kHz OBW Power 99.00 %	Freq Offset	36 133 MHz	Freq Offs
x dB Bandwidth 35.75 MHz x dB -6.00 dB		x dB Bandwidth 35.81 MHz x dB -6.00 dB	
Test Mode:802.11n HT40 2422MHz C	Chain0	Test Mode:802.11n HT40 2437MHz Chair	n0
			in0
Test Mode:802.11n HT40 2422MHz C	2		in0
Test Mode: 802.11n HT40 2422MHz C	2 Frequency Center Freq 2.45200000 GHz		in0
Test Mode: 802.11n HT40 2422MHz C	Center Freq 2.45200000 GHz		in0
Test Mode: 802.11n HT40 2422MHz C	2 Frequency Center Freq 2.45200000 GHz		in0
Test Mode: 802.11n HT40 2422MHz C	2 Frequency Center Freq 2.45200000 GHz		inO

99% Bandwidth

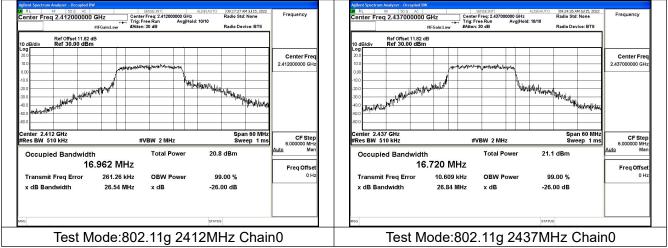
			99% bandwidth(MHz)	
Test Mode	Antenna	Channel No.1	Channel No.6	Channel No.11
		2412MHz	2437MHz	2462MHz
802.11b	Chain0	11.705	12.084	11.981
802.11g	Chain0	16.962	16.720	16.688
802.11n HT20	Chain0	17.686	17.699	17.683

			99% bandwidth(MHz)	
Test Mode	Antenna	Channel No.3	Channel No.6	Channel No.9
		2422MHz	2437MHz	2452MHz
802.11n HT40	Chain0	36.098	36.105	36.172

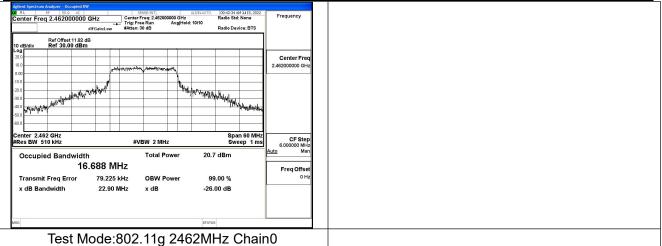


Applent Spectrum Analyzer - Occupied BW		NAUTO 05:33:48 PM 3.414, 2022 Radio Std: None	Frequency	Agilent Spectrum Muk/ver-: Dicupied ISW SERCE INT AUSYANTO (05:50:57#A.M.M., 2002) Will L 5* 50:00 AC SERCE INT AUSYANTO (05:50:57#A.M.M., 2002) Center Freq. 2.4.37000000 GHz Center Freq.2.4.37000000 GHz Radio Std: None Frequency
#IFGain:L Ref Offset 11.82 dB	Trig: Free Run Avg Hold: 10	10 Radio Device: BTS		Trg: Free Run Avgirloid: 10/10 #IFGaind.ow #Atten: 30 dB Radio Device: BTS Ref Offset 11.82 dB
10 dB/div Ref 30.00 dBm		N. Marward - N. Windowy	Center Freq 2.41200000 GHz	Center Fre 2,437000000 GH
60.0 Center 2.412 GHz #Res BW 510 kHz	#VBW 2 MHz	Span 60 MHz Sweep 1 ms	CF Step 6.000000 MHz	40.0
Occupied Bandwidth 11.705	Total Power MHz	20.7 dBm	Auto Man Freq Offset	Occupied Bandwidth Total Power 20.7 dBm Auto Total Power 20.7 dBm Freq Office
	94 kHz OBW Power 95 MHz x dB	99.00 % -26.00 dB	0 Hz	Transmit Freq Error 26.397 kHz OBW Power 99.00 % 0 H x dB Bandwidth 15.01 MHz x dB -26.00 dB 0 H
3G		STATUS		NGG STATUS
I EST MOO	e:802.11b 2412		TU Frequency	Test Mode:802.11b 2437MHz Chain0
#IFGain:L	Trig: Free Run Avg Hold: 10	10 Radio Device: BTS		
00 00000000000000000000000000000000000			Center Freq 2.462000000 GHz	
enter 2.462 GHz		^{֍ՠ} ՠեստերի Span 60 MHz	CE Stop	
Contraction of the second	#VBW 2 MHz Total Power MHz 515 kHz OBW Power .77 MHz x dB	Sweep 1 ms 20.3 dBm 99.00 % -26.00 dB	CF Step 6.000000 MHz <u>Auto</u> Man Freq Offset 0 Hz	
56		STATUS		
Test Mod	e:802.11b 2462	MHz Chair	0ו	

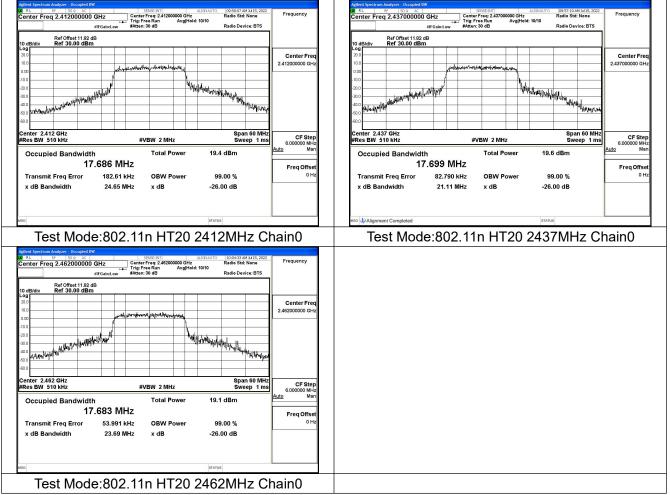
Test Mode: 802.11g







Test Mode: 802.11n HT20





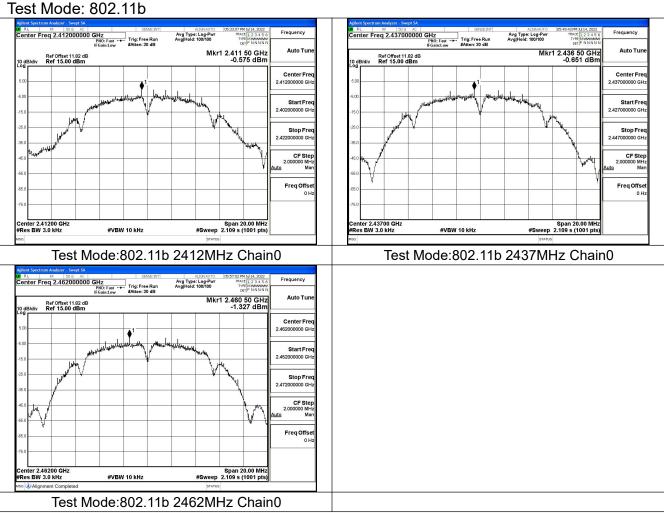
enter Freq 2.422000000 GHz #IFGain:Lo	Center Freq: 2.422000000 GHz Trig: Free Run Avg Hold: 1 ovv #Atten: 30 dB	Radio Std: None 10/10 Radio Device: BTS	Frequency	Center Freq 2.437000000	#IFGain:Low #Atten:	Freq: 2.437000000 GH: ree Run Avg He : 30 dB	old: 10/10	o Std: None Device: BTS	Frequency
D dB/div Ref 0ffset 11.82 dB Ref 30.00 dBm 0.0			Center Freq	10 dB/div Ref 30.00 dB/ 20.0 20.0					Center Free
00 00 00 00 00 00 00 00 00 00 00 00 00		anayanaha tata virila gada ana vijataja	2.42200000 GHz		1		a Mandaritan di tarihan Mandaritan di tarihan	Arenal	2.437000000 GH
enter 2.422 GHz Res BW 510 kHz	#VBW 2 MHz	Span 100 MHz Sweep 1 ms	CF Step 10.000000 MHz	Center 2.437 GHz #Res BW 510 kHz	#\	/BW 2 MHz		pan 100 MHz Sweep 1 ms	CF Ste
Occupied Bandwidth	Total Power	20.2 dBm	<u>Auto</u> Man	Occupied Bandwidt		Total Power	20.0 dBr	n	<u>Auto</u> Ma
36.098			Freq Offset 0 Hz		6.105 MHz				Freq Offs
•	.47 kHz OBW Power 47 MHz x dB	99.00 % -26.00 dB	0112	Transmit Freq Error x dB Bandwidth	110.92 kHz 39.25 MHz	OBW Power x dB	99.00 99.00 9		
Test Mode:80	02.11n HT40 2	2422MHz Cł	nain0	Test Mod	e:802.11	n HT40	status 2437N	IHz C	hain0
Bent Spectrum Analyzer - Occupied BW RL BF SOQ AC enter Freq 2.452000000 GHz #IFGain:Lo Ref Offset 11.82 dB	Center Freq: 2.45200000 GHz	2422MHz Cł LIGNAUTO 10:41:57 AM M 15, 2022 Radio Std: None	rain0	Test Mod	le:802.11	n HT40		IHz C	hain0
Test Mode:80	SPACE DIT	2422MHz Cl 10/10 10/157/M M15, 2022 Radio Stat: None Radio Device: BTS	Frequency Center Freq 2.45200000 GHz	Test Mod	e:802.11	n HT40		IHz C	hain0
Test Mode:80	SPACE DIT	2422MHz Ch	Frequency Center Freq 2.45200000 GHz	Test Mod	e:802.11	n HT40		IHz C	hain0
Test Mode:80	SPACE DIT	2422MHz Cl 10/10 10/157/M M15, 2022 Radio Stat: None Radio Device: BTS	Frequency Center Freq 2.45200000 GHz	Test Mod	e:802.11	n HT40		IHz C	hain0
Test Mode:80	Image: State State Additional State Image: State State Additional State Image: State Additional State	2422MHz Cl	Frequency Center Freq 2.45200000 GHz	Test Mod	e:802.11	n HT40		IHz C	hain0

Transmitter Power Spectral Density

				Power Density(dBm)
Test Mode	Antenna	Tones	Channel No.1	Channel No.6	Channel No.11
			2412MHz	2437MHz	2462MHz
802.11b	Chain0	NA	-0.575	-0.651	-1.327
802.11g	Chain0	NA	-7.480	-7.275	-7.289
802.11n HT20	Chain0	NA	-8.147	-7.725	-8.784

				Power Density(dBm)	
Test Mode	Antenna	Tones	Channel No.3	Channel No.6	Channel No.9
			2422MHz	2437MHz	2452MHz
802.11n HT40	Chain0	NA	-10.629	-11.454	-9.852





Test Mode: 802.11g

Center Freq 2.41200000	IGHZ PNO: Fast ++- Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 100/100	6:57 AM 3ul 15, 2022 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N	Frequency		RF 50.9 AC eq 2.437000000	PNO: East +++ Trig	Free Run an: 30 dB	Avg Type: Avg Hold:	Log-Pwr	23:55 AM Jul 15, 2022 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N	Frequency
Ref Offset 11.82 dB 0 dB/div Ref 15.00 dBm			14 84 GHz 7.480 dBm	Auto Tune		Ref Offset 11.82 dB Ref 15.00 dBm					437 66 GHz -7.275 dBm	Auto Tun
.00		-1		Center Freq 2.412000000 GHz	5.00			.1				Center Fre 2.437000000 GH
	Manu Man	www.www.	MM	Start Freq 2.402000000 GHz	-6.00	mound	MMMMM	m	www	wwww	ww	Start Fre 2.427000000 GH
5.0 /			hanna	Stop Freq 2.422000000 GHz	-25.0 -35.0 AM	N					how	Stop Fre 2.447000000 GH
5.0				CF Step 2.000000 MHz <u>Auto</u> Man	-45.0							CF Ste 2.000000 MH Auto Ma
5.0				Freq Offset 0 Hz	-65.0							Freq Offs 0 H
enter 2.41200 GHz		Sp	an 20.00 MHz		-75.0 Center 2.4	3700 GHz				Sc	an 20.00 MHz	
Res BW 3.0 kHz	#VBW 10 kHz	#Sweep 2.10			#Res BW 3	.0 kHz	#VBW 10 k	Hz			09 s (1001 pts)	



Agilent		n Analyzer - Sv				NSE:INT		ALIGNAUTO	09:41:59.4	M Jul 15, 2022	
		q 2.4620	00000 G	Hz PNO: Fast ↔ FGain:Low		e Run	Avg Typ Avg Hold	e: Log-Pwr	TRA To	CE 1 2 3 4 5 6 PE MWWWWW XET P NNNNN	Frequency
10 dB	l Vdiv I	Ref Offset 1 Ref 15.00	1.82 dB	Gam.LOW				Mki	1 2.458	24 GHz 89 dBm	Auto Tune
6.00											Center Freq 2.462000000 GHz
-5.00		mm	ww	nin	navian	MM	www	WWW	num	w.	Start Freq 2.452000000 GHz
-25.0	. MAN					Ŵ				and the second	Stop Freq 2.472000000 GHz
-35.0 -45.0 -	h ^{rr}									•	CF Step 2.000000 MHz
-55.0		-									Auto Man Freq Offset
-65.0											0 Hz
		200 GHz		#VB	V 10 kHz			#Sweep		20.00 MHz (1001 pts)	
MSG								STATU		(,	
Res	er 2.46 BW 3.	0 kHz	st Mo		<u>w 10 кн</u> г 802.	.11g	246	STATU	2.109 s	20.00 MHz (1001 pts) Chail	רידין 10

Test Mode: 802.11n HT20

Agilent Spectrum Analyzer - Swept SA		Agilent Spectrum Analyzer - Swept SA	
X RL RF 50 Ω AC SENSE:INT Center Freq 2.412000000 GHz PN0: Fast ↔ Trig: Free Run	ALIGNAUTO 09:49:36 AM 3d 15, 2022 Avg Type: Log-Pwr TRACE 1 2 3 4 5 6 Avg Hold: 100/100 Type MWWWWW	Center Freq 2.437000000 GHZ	quency
IFGain:Low #Atten: 30 dB	Mkr1 2.410 82 GHz	Auto Tune IFGain: Low #Atten: 30 dB	Auto Tune
Ref Offset 11.82 dB 0 dB/div Ref 15.00 dBm 	-8.147 dBm	Ref Offset 11.82 dB 10 dEldiv Ref 15.00 dBm -7.725 dBm	
		Center Freq Ce	enter Frec
5.00		2.412000000 GHz 6.00 2.4370	000000 GH:
5.00 • • • • • • • • • • • • • • • • • •	ullahashida ay ka tarar	Start Freq 500	Start Free
150 Mandautonan and Man	HANNARD DANAL MANAGER	Start Fred 2.402000000 GHz -150 Manna Makala Manna Makala Manna Makala 24270	000000 GH:
25.0		Stop Freq	Stop Free
150 m	Wh.		000000 GH
45.0		CF Step	CF Step
	A	2.000000 MHz 2.0 to Man 2.0	000000 MH: Mar
55.0			
35.0		Freq Offset 65.0 Fr 0 Hz 65.0 65.0 Fr	req Offsel 0 Ha
5.0			
Senter 2.41200 GHz	Span 20.00 MHz	Center 2.43700 GHz Span 20.00 MHz	
Res BW 3.0 kHz #VBW 10 kHz	#Sweep 2.109 s (1001 pts)	#Res BW 3.0 kHz #VBW 10 kHz #Sweep 2.109 s (1001 pts)	
2		MSS DAlignment Completed STATUS	
Center Freq 2.462000000 GHz PNO: Fast Trig: Free Run	AUGNAUTO 10:04:03 AM 3ul 15, 2022 Avg Type: Log-Pwr TWACE 12 3 4 5 6		า0
Image: Several SA Several SA Image: RL FF S0.9 AC SEVERINT Center Freq 2.462000000 GHz SEVERINT SEVERINT SEVERINT	Arginario IDOMARIAN MIS.2022 Arginario IDOMARIAN MIS.2022 Arginario IDOMARIA Verte Activity Mkr1 2.464 46 GHz -8.784 dBm	ainO Test Mode:802.11n HT20 2437MHz Chain Frequency Auto Ture Center Freq 24500000 GHz Start Freq 24500000 GHz CF Step 2.2700000 GHz CF Step 2.200000 Hz	0
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Ref Offset Image: Control of the second sec	Arginario IDOMARIAN MIS.2022 Arginario IDOMARIAN MIS.2022 Arginario IDOMARIA Verte Activity Mkr1 2.464 46 GHz -8.784 dBm	Test Mode:802.11n HT20 2437MHz Chain Frequency Auto Tune Center Freq 24500000 GHz Start Freq 24500000 GHz 200000 Hz 24500000 GHz 250000 GHz 24500000 GHz 250000 GHz 250000 GHz 2700000 GHz 2700000 GHz 2700000 GHz 270000 GHz 27000 GHz 27000 GHz 27000 GHz 27000 GHz 27000 GHz 27000 GHz 27000 GHz 27000 GHz 2700 GHz 2700 GHz 2700 GHz 27000 GHz 2700	0
etherd Spectrum Analyzer _Songl SA_ IL = 0 INCO OF IL IL INCO OF IL IL INCO OF IL INCO	Augusto IDOMARAM MIS.202 Augusto IDOMARAM MIS.202 CEP NNNN Mkri 2.464 AG GHz -8.784 dBm -1 	Test Mode:802.11n HT20 2437MHz Chain Frequency Auto Tune Center Freq 24500000 GHz Start Freq 24500000 GHz 200000 Hz 24500000 GHz 250000 GHz 24500000 GHz 250000 GHz 250000 GHz 2700000 GHz 2700000 GHz 2700000 GHz 270000 GHz 27000 GHz 27000 GHz 27000 GHz 27000 GHz 27000 GHz 27000 GHz 27000 GHz 27000 GHz 2700 GHz 2700 GHz 2700 GHz 27000 GHz 2700	10
Spectrum Analyser Swept SA Execution R.L. #1 0.0 #2. Execution Execution Execution Execution Figs Frees Run Attents: 30 dB Execution Execution Execution Figs Frees Run Attents: 30 dB Execution Execu	Arginario IDOMARIAN MIS.2022 Arginario IDOMARIAN MIS.2022 Arginario IDOMARIA Verte Activity Mkr1 2.464 46 GHz -8.784 dBm	Test Mode:802.11n HT20 2437MHz Chain Frequency Auto Tune Center Freq 24500000 GHz Start Freq 24500000 GHz 200000 Hz 24500000 GHz 250000 GHz 24500000 GHz 250000 GHz 250000 GHz 2700000 GHz 2700000 GHz 2700000 GHz 270000 GHz 27000 GHz 27000 GHz 27000 GHz 27000 GHz 27000 GHz 27000 GHz 27000 GHz 27000 GHz 2700 GHz 2700 GHz 2700 GHz 27000 GHz 2700	10



Test Mode: 802.11n HT40

Conducted Out of band emission measurement

Test Mode: 802.11b

