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FCC Test Report

ONG SI
j

Address of Applicant: No.2602,26th Floor, Block B, Dongfang Building No.198-19, Songshan South

Road, Erqi District, Zhengzhou, Henan, China

Manufacturer: ZHENGZHOU DI YUN WANG LUO KE JI YOU XIAN GONG SI

Address of No.2602,26th Floor, Block B, Dongfang Building No.198-19, Songshan South

Manufacturer: Road, Erqi District, Zhengzhou, Henan, China

Equipment Under Test (EUT):

Brand Name:

FCC ID:

Product: Power supply

Model No.: HOSL03B, TLA-120-12W-1; HOSL04C, TLA-200-12W-1; HOSL05D, TLA-300-

12WA2-1

2A4G9-001

Clewenwils

Standards: 47 CFR Part 15, Subpart C

Date of Test: 2022-02-22 to 2022-03-18

Date of Issue: 2022-03-19

Report No.: D220222008-01

Test Result: PASS*

Damon

Tested By:

(Damon Deng)

Reviewed By:

(Chivas Zeng)

Approved By:

(Victor Meng)

⁽Victor Meng)

^{*} In the configuration tested, the EUT complied with the standards specified above.



ITL Co., Ltd. Report No.: D220222008-01



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
D220222008-01	Rev.01	Initial report	2022-03-19



2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	KDB558074 D01 V04	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	KDB558074 D01 V04	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	KDB558074 D01 V04	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01 V04	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01 V04	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



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General Information

4.1 Client Information

Applicant:	ZHENGZHOU DI YUN WANG LUO KE JI YOU XIAN GONG SI
Address of Applicant:	No.2602,26 th Floor, Block B, Dongfang Building No.198-19, Songshan South Road, Erqi District, Zhengzhou, Henan, China
Manufacturer:	ZHENGZHOU DI YUN WANG LUO KE JI YOU XIAN GONG SI
Address of Manufacturer:	No.2602,26 th Floor, Block B, Dongfang Building No.198-19, Songshan South Road, Erqi District, Zhengzhou, Henan, China
Factory:	TDC Power Products Co., Ltd.
Factory of Manufacturer:	Dong Hang 3rd Industrial District, Dong Hang, Dong Guan City, Guang Dong Province, China

4.2 General Description of EUT

TIE Conciai Description	. 6. 26 .
Product Name:	Power supply
Model No.:	HOSL03B, TLA-120-12W-1; HOSL04C, TLA-200-12W-1; HOSL05D, TLA-300-12WA2-1
Trade Mark:	c[ewenwils
Hardware version:	V1.0
Software version:	V1.0
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE for 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)
	IEEE for 802.11n(HT20): OFDM (64QAM, 16QAM,
	QPSK, BPSK)
Sample Type:	Stationary equipment
Test Software of EUT:	RF test tool (manufacturer declare)
Antenna Type and Gain:	Type: External antenna with ipex connector
	Gain:3.0dBi
Power Supply:	Input: AC120V/60Hz 1.2A
	AC120V/60Hz 2A
	AC120V/60Hz 3A
	Output: 12Vac 120W max
	12Vac 200W max
	12Vac 300W max or 14Vac 300W Max





Operation I	Operation Frequency each of channel(802.11b/g/n HT20)						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

The output power setting of EUT is set in the factory and followed the max. peak level in below.

802.11b	18dBm±1.5dB
802.11g	18dBm±1.5dB
802.11n(HT20)	18dBm±1.5dB

Note:

- 1. Software (RF test tool) provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.
- 2. The rechargeable battery is fully-charged batter.



4.3 Test Environment and Mode

Operating Enviro	nment:		
Temperature:	24.0 °C		
Humidity:	52 % RH		
Atmospheric Pressure:	1008 mbar		
Test mode:			
Transmitting	Keep the EUT in transn	nitting mode with all kind of modulation and all	
mode:	kind of data rate.		
Operated Mode for	or Worst Duty Cycle:		
Test Signal Duty C	ycle(x)	Average correction factor(dB)	
100% - IEEE802.11b		0	
100% - IEEE802.1	1g	0	
100% - IEEE802.1	1n (HT20)	0	

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
Notebook	Lenovo	Lenovo ideapad 100-14IBY	Provide by lab	DOC
AC/DC Adapter	Lenovo	PA-1450-55LN	Provide by lab	DOC

4.5 Test Location

All tests were performed at:

ITL Co., Ltd.,

No.8, JinQianLing street 5, Huangjiang Town, Dongguan, Guangdong, China

Tel: 0086-769-39001678, Fax: 0086-20-62824387

No tests were sub-contracted:



4.6 Test Facility

• CNAS(Lab code: L9342)

Designation Number: CN5035

Test Firm Registration Number: 239076

NVLAP LAB CODE 600199-0

4.7 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Tongce Testing Lab** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for TCT laboratory is reported:

Test	Range	Uncertainty	Notes
Radiated Emission	Below 1GHz	±3.92dB	(1)
Radiated Emission	Above 1GHz	±4.28dB	(1)
Conducted Disturbance	0.15~30MHz	±2.56dB	(1)

⁽¹⁾This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.8 Deviation from Standards

None.

4.9 Abnormalities from Standard Conditions

None.

4.10 Other Information Requested by the Customer

None.



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Equipment List 4.11

Test		Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
	Equipment					
DGITL- 301	Semi-Anechoic chamber	ETS•Lindgren	9*6*6	CT000874- 1181	2020.08.03	2022.08.03
DGITL- 307	EMI test receiver	SCHWARZBECK	ESVS10	833616 /003	2021.05.11	2022.05.11
DGITL- 376	Wideband Radio Communication Tester	SCHWARZBECK	CMW500	LR114195	2021.05.11	2022.05.11
DGITL- 349	MXG Vector Signal Generator	Agilent Technologies	N5182A	MY47071034	2021.05.11	2022.05.11
DGITL- 306	Spectrum Analyzer	Agilent Technologies	N9010A	MY54200334	2021.05.11	2022.05.11
DGITL- 352	Pre Amplifier	MInI-Circuits	ZFC- 1000HX	SN292801110	2021.05.11	2022.05.11
DGITL- 375	Spectrum Analyzer	SCHWARZBECK	FSV40-N	6625-01-588- 5515	2021.05.11	2022.05.11
DGITL- 309	Horn Antenna	ETS Lindgren	3117	SN00152265	2021.05.11	2022.05.11
DGITL- 308	Bilog Antenna	ETS- Lindgren	3142E	156975	2020.06.20	2022.06.20
DGITL- 350	Wideband Amplifier Super Ultra	MInl-Circuits	ZVA- 183X-S+	SN986401426	2021.05.11	2022.05.11
DGITL- 365	Broad-band Horn Antenna	SCHWARZBECK	9170	795	2020.07.04	2022.07.04
DGITL- 371	Pre Amplifier	teramicrowave	TALA- 0040G35	18081001	2021.05.11	2022.05.10
DGITL- 363	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	062	2020.07.04	2022.07.03





5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

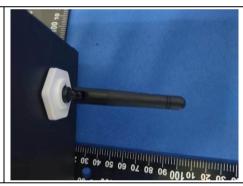
15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is External antenna with ipex connector. The best case gain of the antenna is 3.0dBi.





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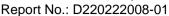
5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
Limit:		Limit (c	Limit (dBuV)			
	Frequency range (MHz)	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 logarithr	n of the frequency.		•		
Test Procedure:						



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Test Setup:	Shielding Room Test Receiver AC Mains Ground Reference Plane					
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.					
	Charge + Transmitting mode.					
	Mode a: Connect the AC-DC adaptor with the charging hole on unit.					
	Mode b: Connect the unit return to the charging station under transmitting mode.					
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.					
	Charge + Transmitting mode.					
	Mode b: Connect the unit return to the charging station under transmitting mode.					
	Only the worst case is recorded in the report.					
Instruments Used:	Refer to section 5.10 for details					
Test Voltage:	AC120V/60Hz					
Test Results:	Pass					





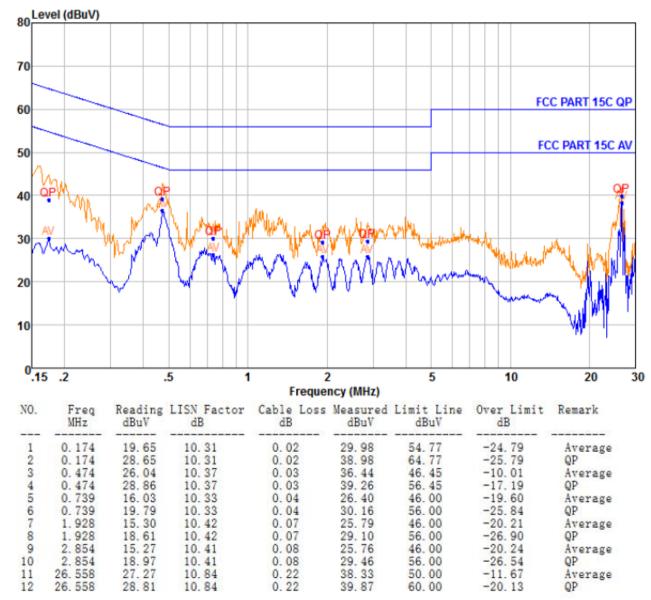
Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Model No.:HOSL05D

Live Line:

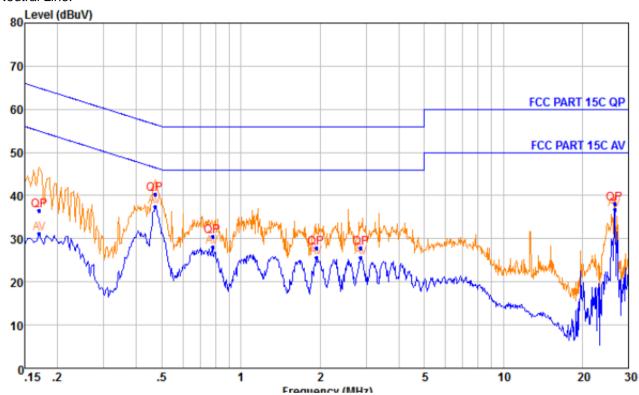


1: Measured=Reading + LISN Factor + Cable Loss





Neutral Line:

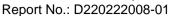


NO.	Freq MHz	Reading dBuV	LISN Factor	Cable Loss dB	Measured dBuV	Limit Line dBuV	Over Limit	Remark
1	0.170	20.60	10.48	0. 02	31.10	54.94	-23.84	Average
2	0.170	25.93	10.48	0.02	36.43	64.94	-28.51	QP
3	0.471	26.97	10.52	0.03	37.52	46.49	-8.97	Average
4	0.471	29.72	10.52	0.03	40.27	56. 49	-16.22	QP
5	0.779	17.40	10.62	0.04	28.06	46.00	-17.94	Average
6	0.779	19.98	10.62	0.04	30.64	56.00	-25.36	QP
7	1.939	14.92	10.62	0.07	25.61	46.00	-20.39	Average
8	1.939	17.17	10.62	0.07	27.86	56.00	-28.14	QP
9	2.869	15.00	10.60	0.08	25.68	46.00	-20.32	Average
10	2.869	17.07	10.60	0.08	27.75	56.00	-28. 25	QP
11	26. 558	25.60	10.97	0.22	36.79	50.00	-13.21	Average
12	26. 558	26.83	10.97	0.22	38.02	60.00	-21.98	QP

1: Measured=Reading + LISN Factor + Cable Loss

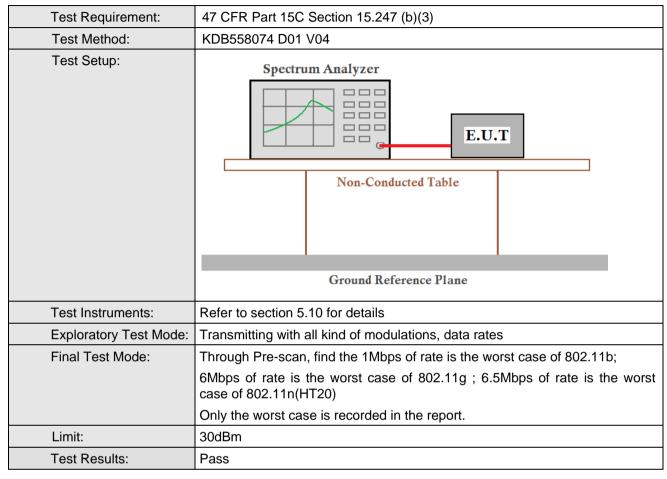
Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.





5.3 Conducted Peak Output Power

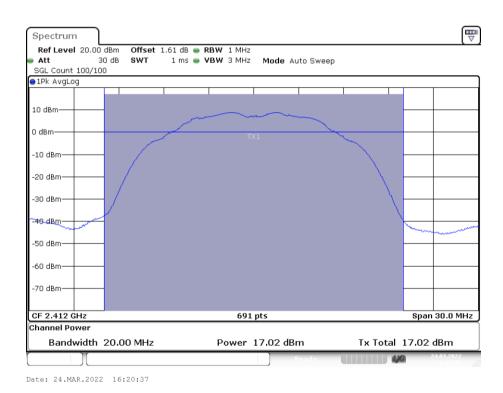




Maximum Conducted Output Power

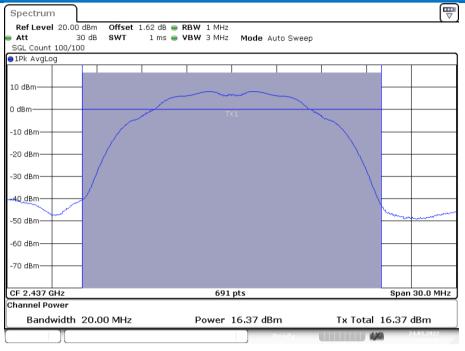
Condition	Mode	Frequency	Antenna	Conducted	Duty	Total	Limit	Verdict
		(MHz)		Power	Factor	Power	(dBm)	
				(dBm)	(dB)	(dBm)		
NVNT	b	2412	Ant1	17.02	0	17.02	30	Pass
NVNT	b	2437	Ant1	16.37	0	16.37	30	Pass
NVNT	b	2462	Ant1	16.38	0	16.38	30	Pass
NVNT	g	2412	Ant1	16.21	0	16.21	30	Pass
NVNT	g	2437	Ant1	16.30	0	16.30	30	Pass
NVNT	g	2462	Ant1	16.21	0	16.21	30	Pass
NVNT	n20	2412	Ant1	16.12	0	16.12	30	Pass
NVNT	n20	2437	Ant1	16.04	0	16.04	30	Pass
NVNT	n20	2462	Ant1	16.05	0	16.05	30	Pass

Test plot as follows:



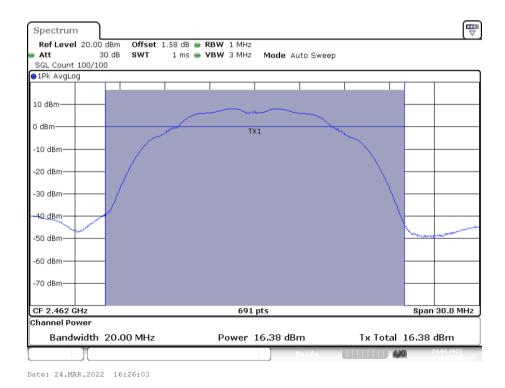
Power NVNT b 2412MHz Ant1





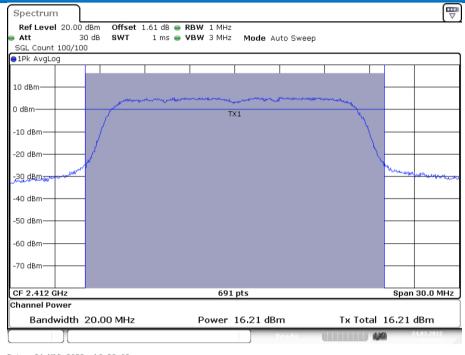
Date: 24.MAR.2022 16:24:41

Power NVNT b 2437MHz Ant1



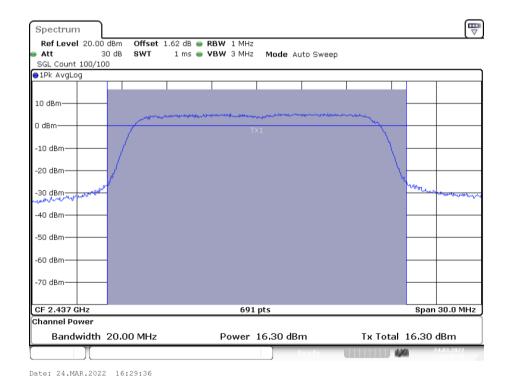
Power NVNT b 2462MHz Ant1





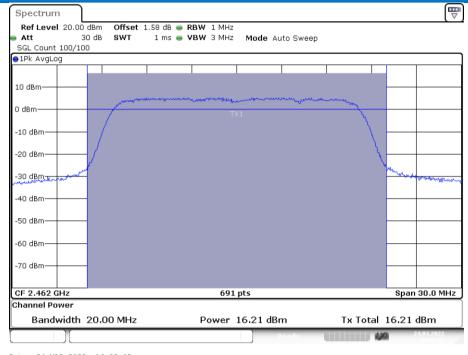
Date: 24.MAR.2022 16:28:03

Power NVNT g 2412MHz Ant1



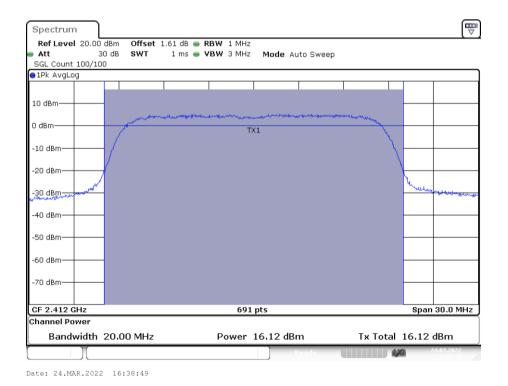
Power NVNT g 2437MHz Ant1





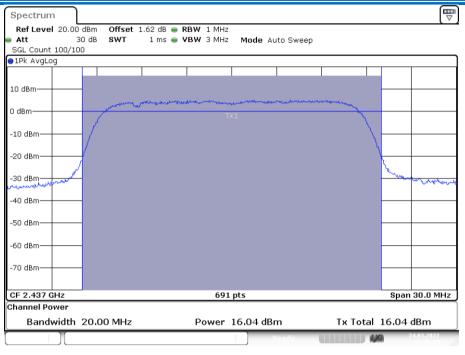
Date: 24.MAR.2022 16:32:05

Power NVNT g 2462MHz Ant1



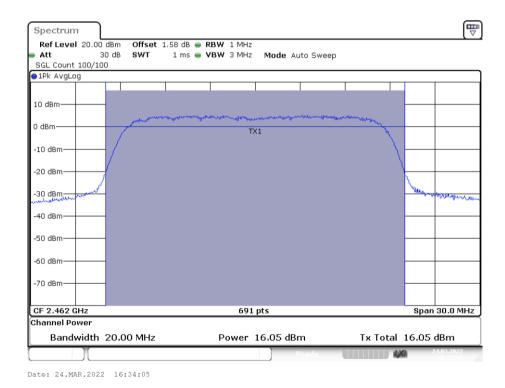
Power NVNT n20 2412MHz Ant1



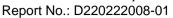


Date: 24.MAR.2022 16:36:34

Power NVNT n20 2437MHz Ant1

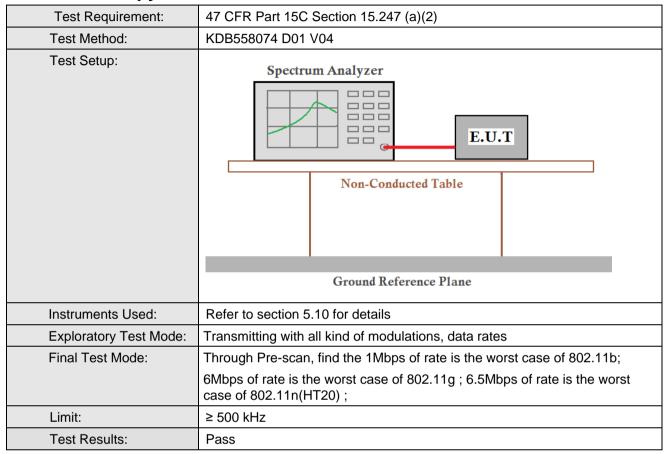


Power NVNT n20 2462MHz Ant1





5.4 6dB Occupy Bandwidth

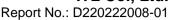




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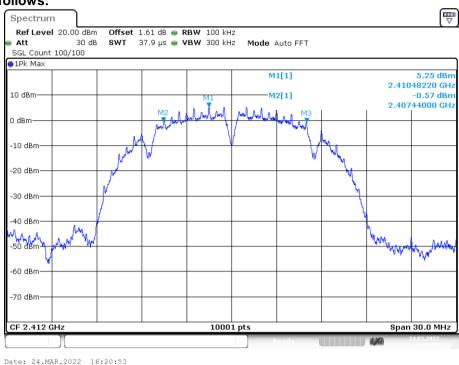
6dB Bandwidth

Condition	Mode	Frequency	Antenna	-6 dB	Limit -6 dB	Verdict
		(MHz)		Bandwidth	Bandwidth (MHz)	
				(MHz)		
NVNT	b	2412	Ant1	9.567	0.5	Pass
NVNT	b	2437	Ant1	9.075	0.5	Pass
NVNT	b	2462	Ant1	9.069	0.5	Pass
NVNT	g	2412	Ant1	16.353	0.5	Pass
NVNT	g	2437	Ant1	16.359	0.5	Pass
NVNT	g	2462	Ant1	16.377	0.5	Pass
NVNT	n20	2412	Ant1	17.211	0.5	Pass
NVNT	n20	2437	Ant1	17.037	0.5	Pass
NVNT	n20	2462	Ant1	17.043	0.5	Pass

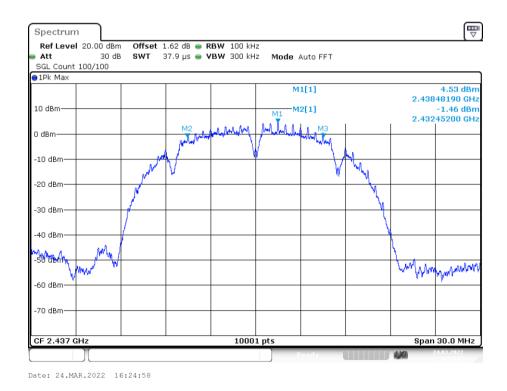




Test plot as follows:



-6dB Bandwidth NVNT b 2412MHz Ant1

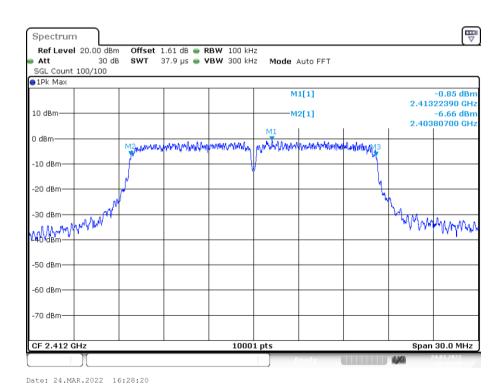


-6dB Bandwidth NVNT b 2437MHz Ant1



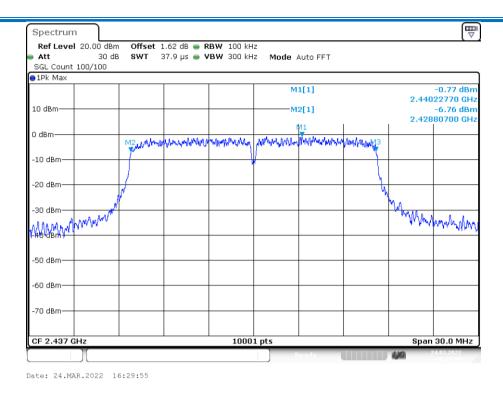


-6dB Bandwidth NVNT b 2462MHz Ant1

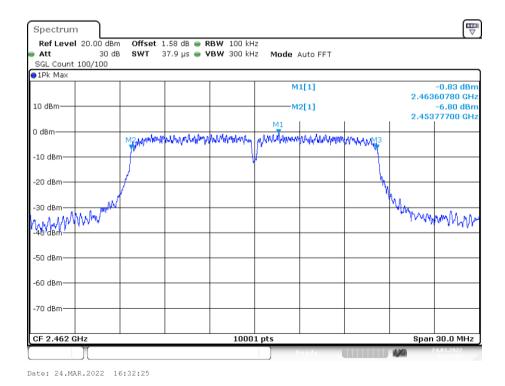


-6dB Bandwidth NVNT g 2412MHz Ant1



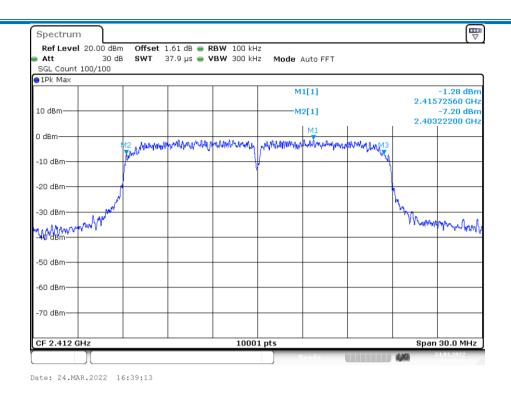


-6dB Bandwidth NVNT g 2437MHz Ant1

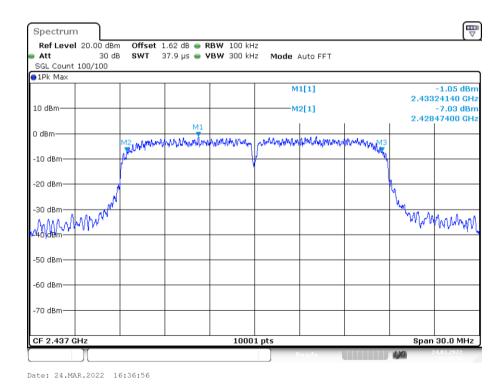


-6dB Bandwidth NVNT g 2462MHz Ant1



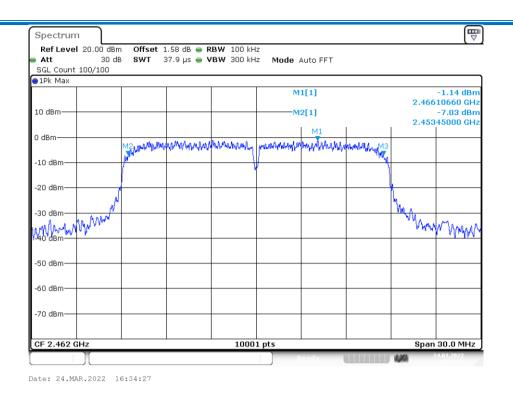


-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1





-6dB Bandwidth NVNT n20 2462MHz Ant1





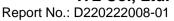
5.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)				
Test Method:	KDB558074 D01 V04				
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
	Remark:				
	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.				
Test Instruments:	Refer to section 5.10 for details				
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates				
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;				
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20);				
Limit:	≤8.00dBm/3kHz				
Test Results:	Pass				

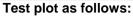


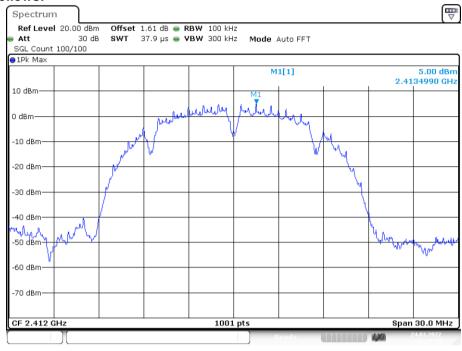
Maximum Power Spectral Density Level

Condition	Mode	Frequency	Antenna	Max PSD	Limit	Verdict
		(MHz)		(dBm)	(dBm/3KHz)	
NVNT	b	2412	Ant1	5.003	8	Pass
NVNT	b	2437	Ant1	4.207	8	Pass
NVNT	b	2462	Ant1	4.415	8	Pass
NVNT	g	2412	Ant1	-0.844	8	Pass
NVNT	g	2437	Ant1	-0.564	8	Pass
NVNT	g	2462	Ant1	-0.736	8	Pass
NVNT	n20	2412	Ant1	-1.172	8	Pass
NVNT	n20	2437	Ant1	1.982	8	Pass
NVNT	n20	2462	Ant1	-0.34	8	Pass



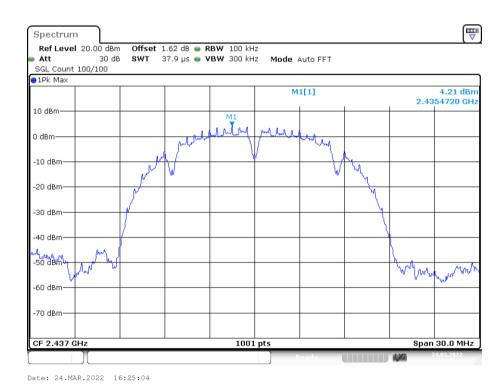






Date: 24.MAR.2022 16:20:59

PSD NVNT b 2412MHz Ant1

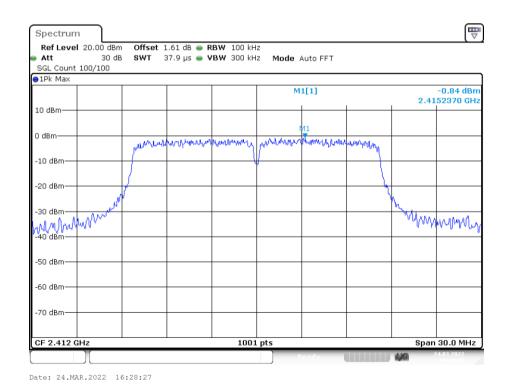


PSD NVNT b 2437MHz Ant1



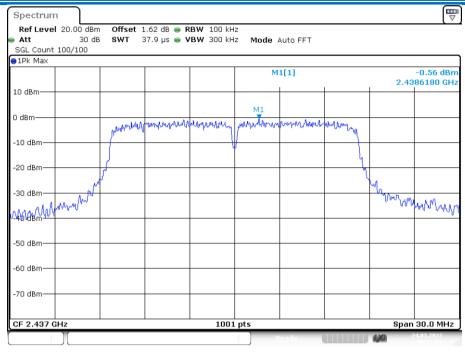


PSD NVNT b 2462MHz Ant1



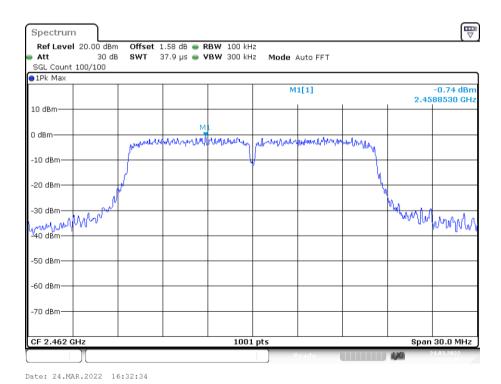
PSD NVNT g 2412MHz Ant1





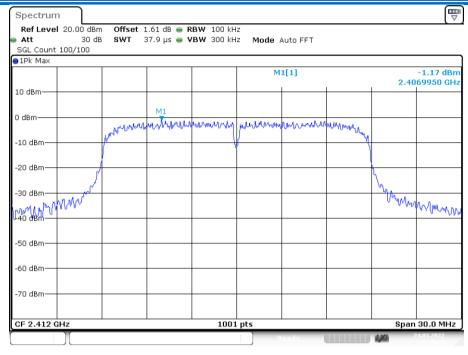
Date: 24.MAR.2022 16:30:03

PSD NVNT g 2437MHz Ant1



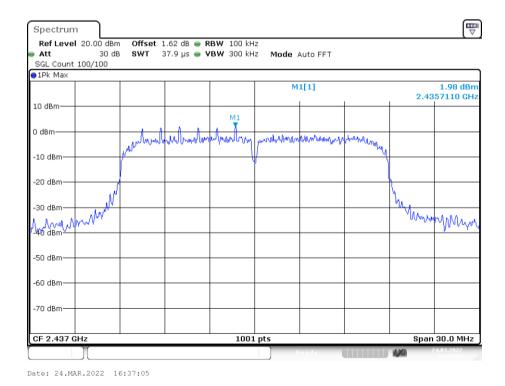
PSD NVNT g 2462MHz Ant1





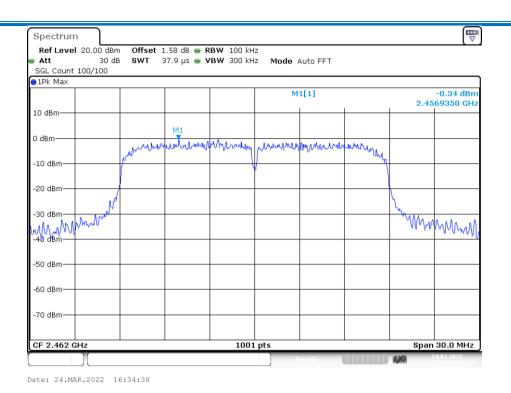
Date: 24.MAR.2022 16:39:25

PSD NVNT n20 2412MHz Ant1

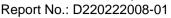


PSD NVNT n20 2437MHz Ant1



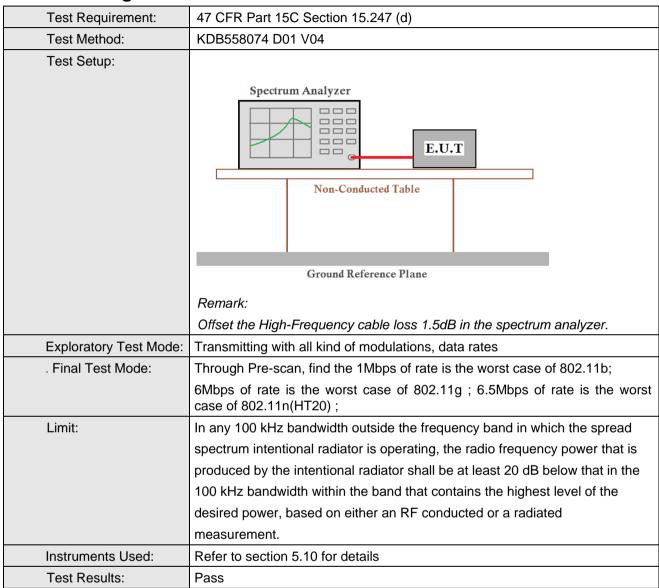


PSD NVNT n20 2462MHz Ant1





5.6 Band-edge for RF Conducted Emissions



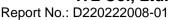




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Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-53.98	-20	Pass
NVNT	b	2462	Ant1	-56.62	-20	Pass
NVNT	g	2412	Ant1	-41.57	-20	Pass
NVNT	g	2462	Ant1	-42.43	-20	Pass
NVNT	n20	2412	Ant1	-41.39	-20	Pass
NVNT	n20	2462	Ant1	-38.35	-20	Pass

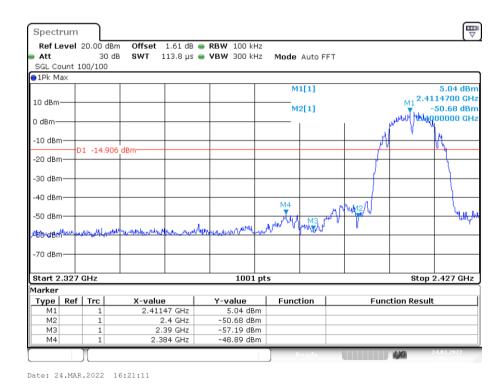




Test plot as follows:

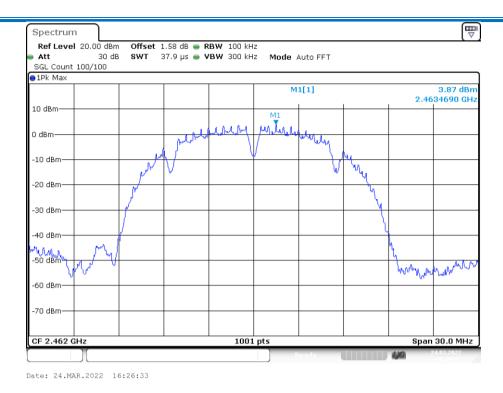


Band Edge NVNT b 2412MHz Ant1 Ref

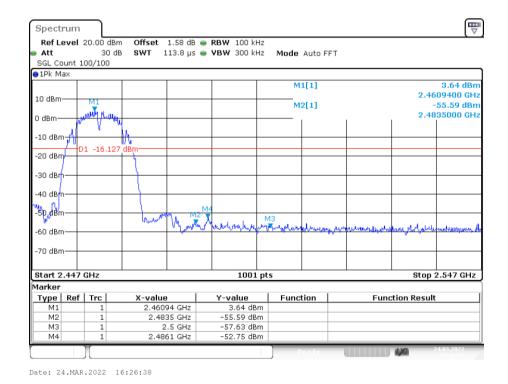


Band Edge NVNT b 2412MHz Ant1 Emission



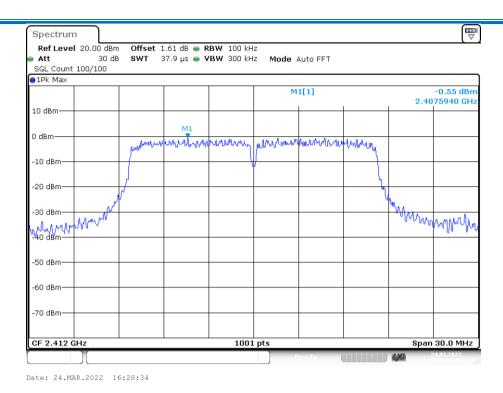


Band Edge NVNT b 2462MHz Ant1 Ref

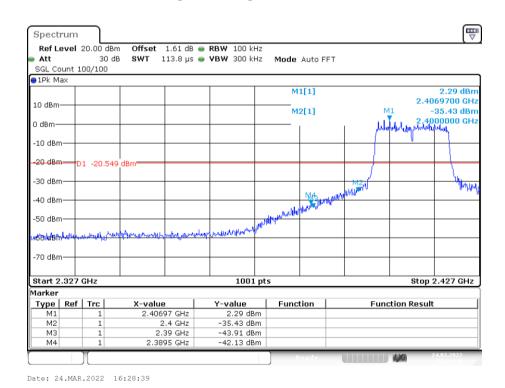


Band Edge NVNT b 2462MHz Ant1 Emission



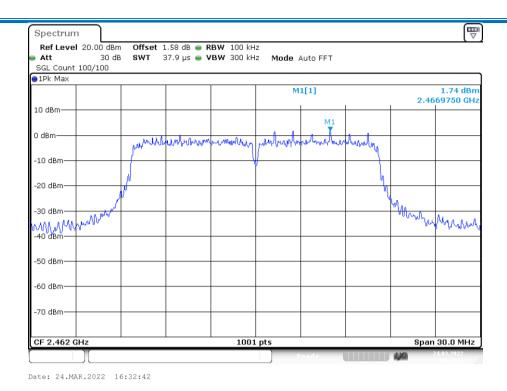


Band Edge NVNT g 2412MHz Ant1 Ref

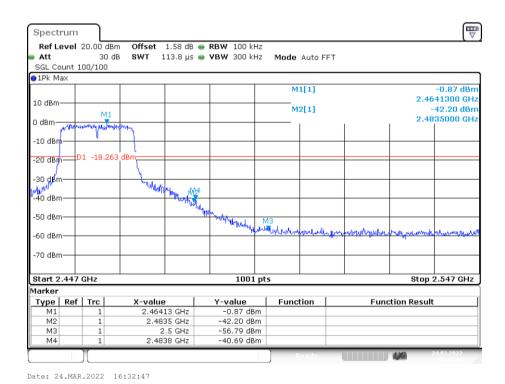


Band Edge NVNT g 2412MHz Ant1 Emission



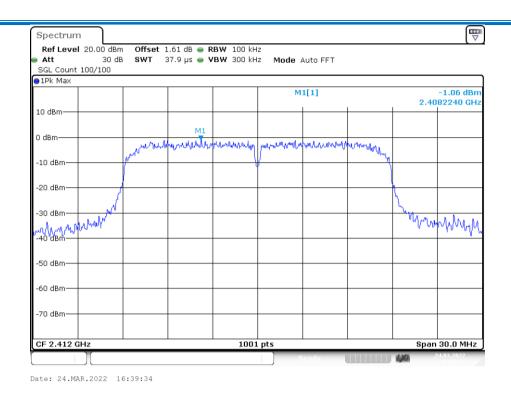


Band Edge NVNT g 2462MHz Ant1 Ref

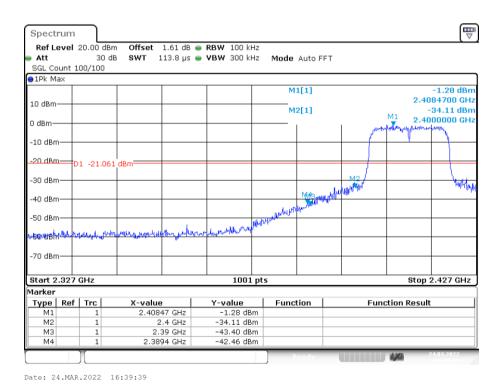


Band Edge NVNT g 2462MHz Ant1 Emission



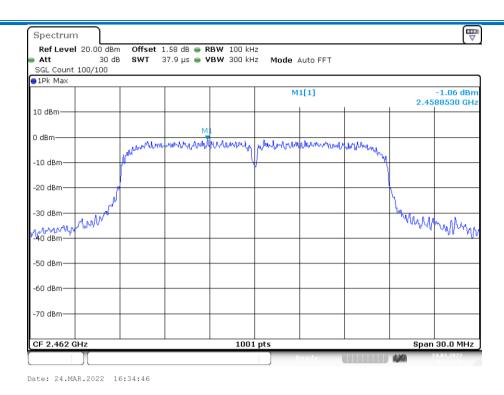


Band Edge NVNT n20 2412MHz Ant1 Ref

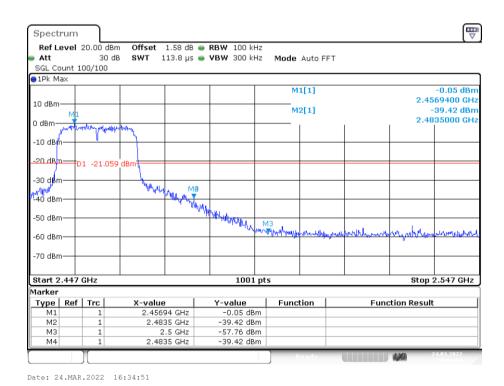


Band Edge NVNT n20 2412MHz Ant1 Emission

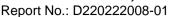




Band Edge NVNT n20 2462MHz Ant1 Ref

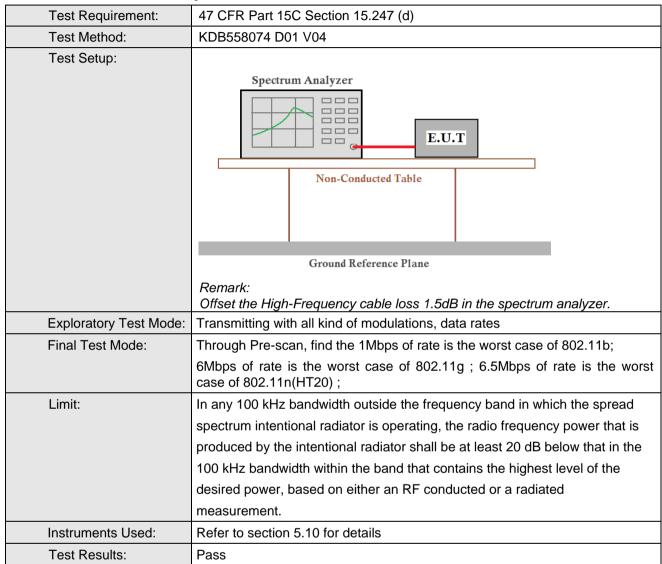


Band Edge NVNT n20 2462MHz Ant1 Emission





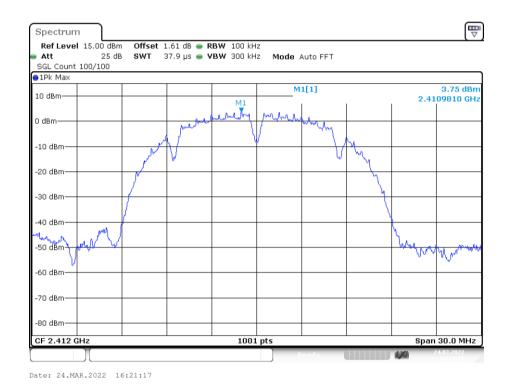
5.7 RF Conducted Spurious Emissions





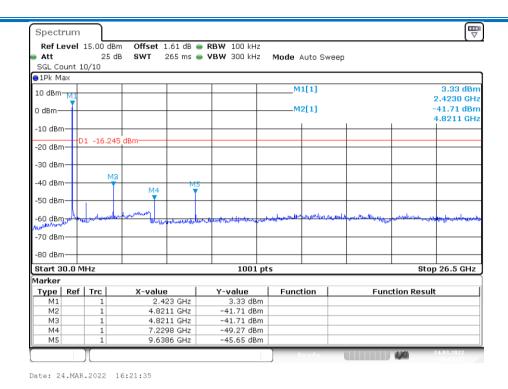


Test plot as follows:						
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.46	-20	Pass
NVNT	b	2437	Ant1	-45.51	-20	Pass
NVNT	b	2462	Ant1	-48.73	-20	Pass
NVNT	g	2412	Ant1	-50.49	-20	Pass
NVNT	g	2437	Ant1	-48.5	-20	Pass
NVNT	g	2462	Ant1	-48.28	-20	Pass
NVNT	n20	2412	Ant1	-49.58	-20	Pass
NVNT	n20	2437	Ant1	-51.29	-20	Pass
NVNT	n20	2462	Ant1	-48.57	-20	Pass

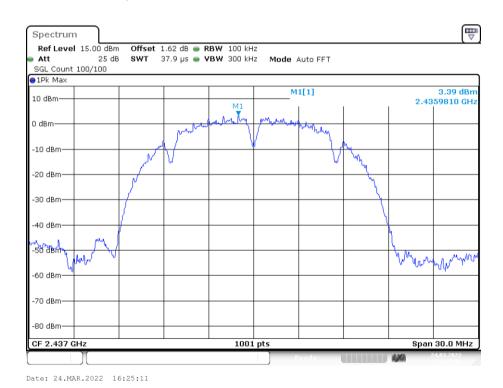


Tx. Spurious NVNT b 2412MHz Ant1 Ref



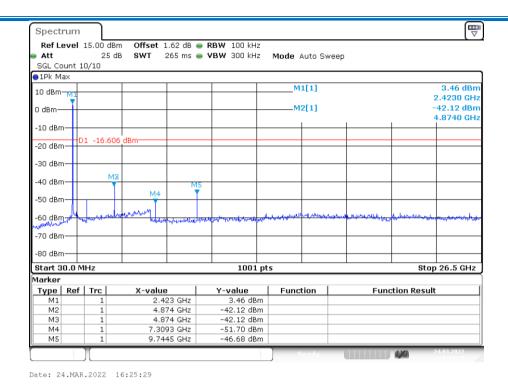


Tx. Spurious NVNT b 2412MHz Ant1 Emission

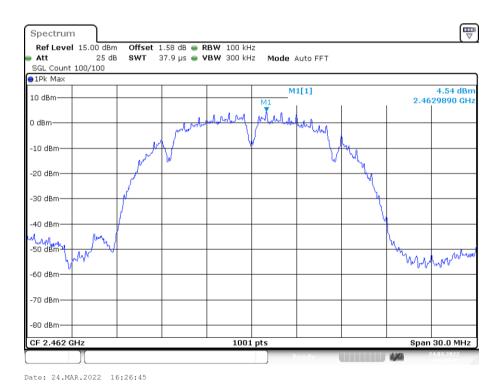


Tx. Spurious NVNT b 2437MHz Ant1 Ref



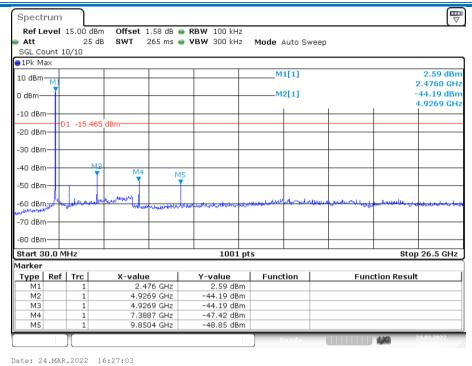


Tx. Spurious NVNT b 2437MHz Ant1 Emission

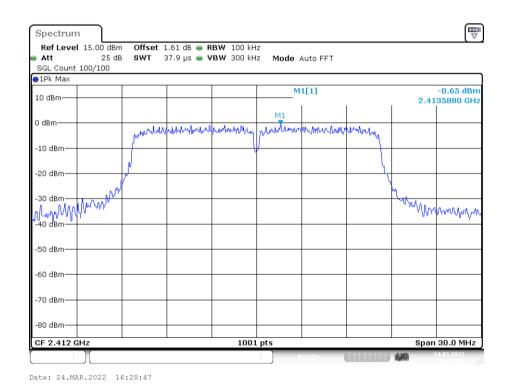


Tx. Spurious NVNT b 2462MHz Ant1 Ref



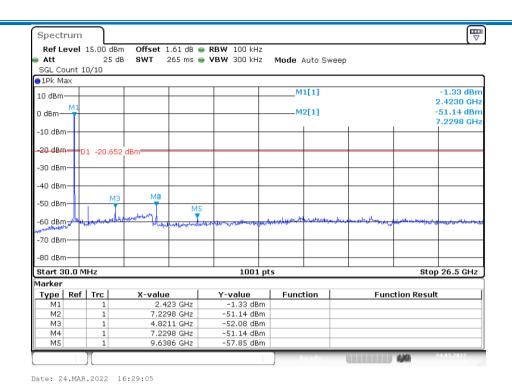


Tx. Spurious NVNT b 2462MHz Ant1 Emission

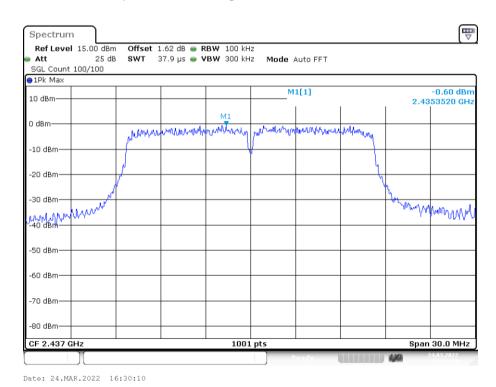


Tx. Spurious NVNT g 2412MHz Ant1 Ref





Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref