

CFR 47 FCC PART 15 SUBPART C(DTS)

TEST REPORT

For

Treat Arcade

MODEL NUMBER: P301201, P301XXX ("X" represent "0-9" or "A-Z")

REPORT NUMBER: E04A24080488F00702

ISSUE DATE: October 11, 2024

FCC ID: Z63-P301201

Prepared for

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Prepared by

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This report is based on a single evaluation of the submitted sample(s) of the above mentioned product, it does not imply an assessment of the production of the products. This report shall not be reproduced, except in full, without the written approval of Guangdong Global Testing Technology Co., Ltd.

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	October 11, 2024	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c)	Complianc e
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.1.3	FCC Part 15.247 (b)(3)	Pass
6dB Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2)	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.2	FCC Part 15.247 (e)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d)	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.11 & Clause 11.12	FCC Part 15.205/15.209	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C(DTS)> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	SHENZHEN AONI ELECTRONIC CO., LTD.	
Address:	No.5,Bldg.,Honghui Industrial Park,2nd Liuxian Road,Xin'An streets, Bao'an District, ShenZhen, China	

Manufacturer Information

Company Name:	SHENZHEN AONI ELECTRONIC CO., LTD.
Address:	No.5,Bldg.,Honghui Industrial Park,2nd Liuxian Road,Xin'An
	streets. Bao'an District. ShenZhen. China

EUT Information

Treat Arcade P301201 P301XXX ("X" represent "0-9" or "A-Z")
/
August 19, 2024
Normal
A24080488 007
August 19, 2024 to September 11, 2024

APPLICABLE STANDARDS

STANDARD

TEST RESULTS Pass

CFR 47 FCC PART 15 SUBPART C(DTS)

Prepared By:

Win Huang

Checked By:

San Le

Alan He Laboratory Leader



2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C(DTS)

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity		
	Assessment Body Identifier (CABID) is CN0148.		
Note: All tests measurement facilities use to collect the measurement data are located at			

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

1.96 1.96	±9.2 PPM
1 96	
1.00	±9.2 PPM
1.96	±9.2 PPM
1.96	±0.57%
1.96	±1.5 dB
1.96	±1.9 dB
1.96	9 kHz-30 MHz: ± 0.95 dB 30 MHz-1 GHz: ± 1.5 dB 1GHz-12.75GHz: ± 1.8 dB 12.75 GHz-26.5 GHz: ± 2.1dB
	1.96 1.96 1.96

95% confidence level using a coverage factor of k=1.96.

Test Item	Measurement Frequency Range	К	U(dB)	
Conducted emissions from the AC mains power ports (AMN)	150 kHz ~ 30 MHz	2	3.37	
Radiated emissions	9 kHz ~ 30 MHz	2	4.16	
Radiated emissions	30 MHz ~ 1 GHz	2	3.79	
Radiated emissions	1 GHz ~ 18 GHz	2	5.62	
Radiated emissions	18 GHz ~ 40 GHz	2	5.54	
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.				

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		Treat Arcade		
Model		P301201		
Series Model		P301XXX ("X" represent "0-9" or "A-Z")		
Model Difference		Note: All models are identical except model name.		
Hardware Version		V1.5		
Software Version	I	V1.0.3		
Ratings		Input: 5V-2A		
	AC	100-240V~ 50/60Hz 0.35A Max		
Power Supply	DC	5V		

Frequency Band:	2400 MHz to 2483.5 MHz		
Frequency Range:	2412 MHz to 2462 MHz		
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20		
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK)		
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n: Up to MCS7		
Number of Channels:	IEEE 802.11b/g/n-HT20: 11		
Maximum Peak Power:	IEEE 802.11b: 20.26 dBm IEEE 802.11g: 18.96 dBm IEEE 802.11n-HT20: 18.55 dBm		
Antenna Type:	Integral Antenna		
Antenna Gain:	4.5 dBi		
Normal Test Voltage:	5 Vdc		
EUT Test software:	SecureCRT		
Note:	The Antenna Gain was provided by customer, and this information may affect the validity of the results, customer should be responsible for this.		

5.2. CHANNEL LIST

	Channel List for 802.11b/g/n (20 MHz)							
Channel Frequency (MHz) Channel		Frequency (MHz)	Channel	Frequency (MHz) Channel	Frequency (MHz)			
1	2412	4	2427	7	2442	10	2457	
2	2417	5	2432	8	2447	11	2462	
3	2422	6	2437	9	2452	/	/	

5.3. MAXIMUM EIRP

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted Output Power (dBm)	Maximum EIRP (dBm)
b	2412 ~ 2462	1-11[11]	20.26	/
g	2412 ~ 2462	1-11[11]	18.96	/
n HT20	2412 ~ 2462	1-11[11]	18.55	/

5.4. TEST CHANNEL CONFIGURATION

IEEE Std. 802.11	Test Channel Number	Frequency
b	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
g	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Softw	/are	Secu			reCRT		
	Transmit			Test C	Channel		
Modulation Mode	Antenna	1	NCB: 20MH	lz	٩	ICB: 40MHz	
Mode	Number	CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	1	16 16 16					
802.11g	1	9	9	9 /			
802.11n HT20	1	9	9	9			

WORST-CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps 802.11g mode: 6 Mbps 802.11n HT20 mode: MCS0

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

	Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
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TRF No.: 04-E001-0B

1	2412-2462	Integral	4.5

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	⊠TX, RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11g	⊠TX, RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	⊠TX, RX	ANT 1 can be used as transmitting/receiving antenna.
Note:		

5.7. EUT ACCESSORY

	Adapter			
Model No.:	KA12C-0502000US			
Input:	100-240V~ 50/60Hz 0.35A Max			
Output:	5V 2000mA			
AC Cable:	/			
DC Cable:	1.5 Meter Unshielded without ferrite			

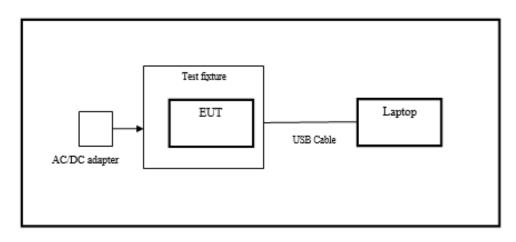
5.8. SUPPORT UNITS FOR SYSTEM TEST

The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Laptop	Lenovo	Thinkpad T14	PF-3EAKYR	GTG Support

5.9. SETUP DIAGRAM

Radiated emissions & AC Power Line Conducted Emission:



6. MEASURING EQUIPMENT AND SOFTWARE USED

	Test Equipment of Conducted RF								
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date				
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2023/09/18	2024/09/17				
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2023/09/18	2024/09/17				
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2023/09/18	2024/09/17				
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2023/09/18	2024/09/17				
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2023/09/18	2024/09/17				
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2023/09/18	2024/09/17				
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2023/09/18	2024/09/17				
temperature humidity chamber	Espec	SH-241	SH-241-2014	2023/09/18	2024/09/17				
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A				

	Test Equipment of Radiated emissions below 1GHz							
Equipment	Manufacturer	Model No.	Last Cal.	Due Date				
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29			
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2023/09/18	2024/09/17			
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2023/09/18	2024/09/17			
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2023/09/18	2024/09/17			
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09			
Biconilog Antenna	ETS	3142E	00243646	2022/03/23	2025/03/22			
Loop Antenna	ETS	6502	243668	2022/03/30	2025/03/29			
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A			

Test Equipment of Radiated emissions above 1GHz							
Equipment	Equipment Manufacturer Model No. Serial No. Last Cal.						
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2149	2022/08/30	2025/08/29		
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2023/09/18	2024/09/17		
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2023/09/18	2024/09/17		
Pre-Amplifier	A-INFO	HPA-1G1850	HYPA21003	2023/09/18	2024/09/17		
Horn antenna	A-INFO	3117	246069	2022/03/11	2025/03/10		
Pre-Amplifier	ZKJC	HPA-184057	HYPA21004	2023/09/18	2024/09/17		

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Global Testing , Great Quality.

Horn antenna	ZKJC	3116C	246265	2022/03/29	2025/03/28
Test Software	Farad	EZ-EMC (Ver.FA-03A2	N/A	N/A	N/A
		`RE+)			

Test Equipment of Conducted emissions						
Equipment Manufacturer Model No. Serial No. Last Cal. Due Dat						
Shielded Room	CHENG YU	8m*5m*4m	N/A	2022/10/29	2025/10/28	
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2023/09/18	2024/09/17	
LISN/AMN	Rohde & Schwarz	ENV216	102843	2023/09/18	2024/09/17	
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2023/09/18	2024/09/17	
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A	

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

<u>LIMITS</u>

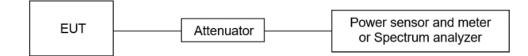
CFR 47 FCC Part15 (15.247) Subpart C			
Section Test Item Limit Frequency Range (MHz)			
CFR 47 FCC 15.247(b)(3)	Peak Conduct Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.8°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.2. 6DB BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C				
Section Test Item Limit Frequency Range (MHz)				
CFR 47 FCC 15.247(a)(2)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5	

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission
Detector	Peak
RBW	For 6 dB Bandwidth: 100 kHz
VBW	For 6 dB Bandwidth: ≥3 × RBW
Trace	Max hold
Sweep	Auto couple

a) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.8°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

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7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	PEAK
RBW	3 kHz ≤ RBW ≤ 100 kHz
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.8°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

<u>LIMITS</u>

CFR 47 FCC Part15 (15.247) Subpart C			
Section Test Item Limit			
CFR 47 FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power	

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

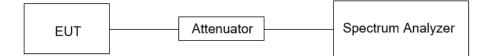
Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measuremer	Change the set	tings for e	mission leve	I measurement:
---	----------------	-------------	--------------	----------------

	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.8°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.5. DUTY CYCLE

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.8°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz					
Frequency Range (MHz)			gth Limit at 3 m		
		Quasi-Peak			
30 - 88	100	40			
88 - 216	150	43.5			
216 - 960	200	46			
Above 960	500	54			
Above 1000	500	Peak	Average		
	500	74	54		

FCC Emissions radiated outside of the specified frequency bands below 30 MHz					
Frequency (MHz) Field strength (microvolts/meter) Measurement distance (meters)					
0.009-0.490	2400/F(kHz)	300			
0.490-1.705	24000/F(kHz)	30			
1.705-30.0	30	30			

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6c

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TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.

5. The radiated emission limits 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.

6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode remeasured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

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

5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1G

The setting of the spectrum analyser

RBW	MHz		
IVBW	PEAK: 3 MHz AVG: see note 6		
Sweep	Auto		
Detector	Peak		
Trace	Max hold		

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

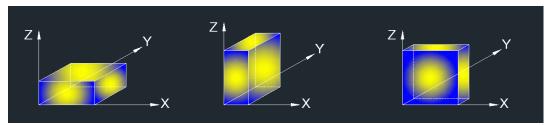
3. The EUT was placed on a turntable with 1.5 m above ground.

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

5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

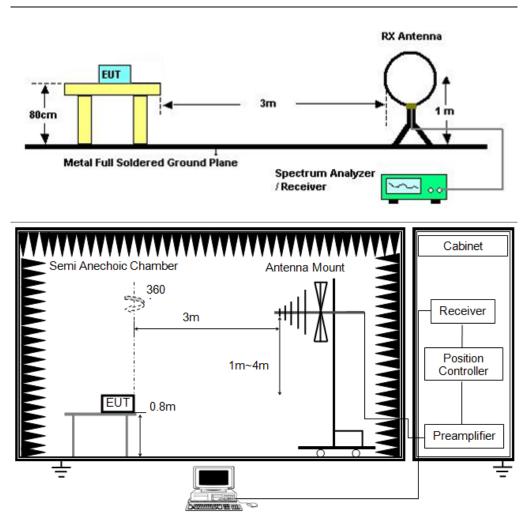
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

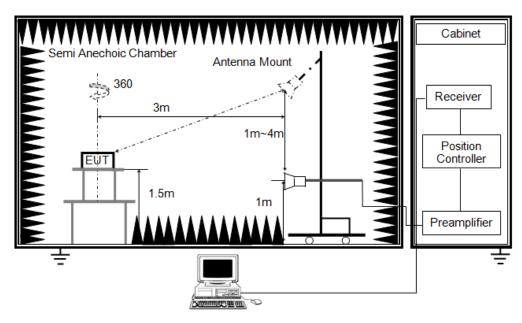
X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST SETUP





TEST ENVIRONMENT

Temperature	24.3°C	Relative Humidity	52%
Atmosphere Pressure	101kPa		

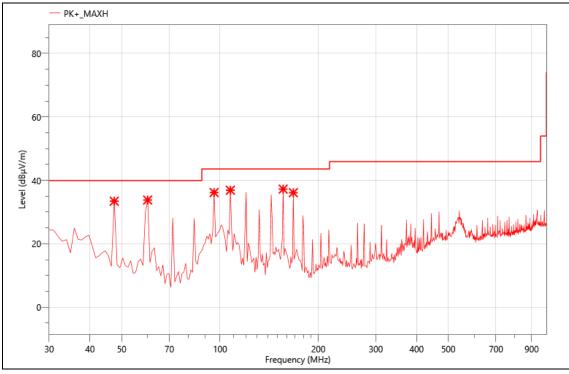
TEST RESULTS

8.1. RADIATED BAND EDGE AND SPURIOUS EMISSION

Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)

All modes have been tested and the worst result as bellow:

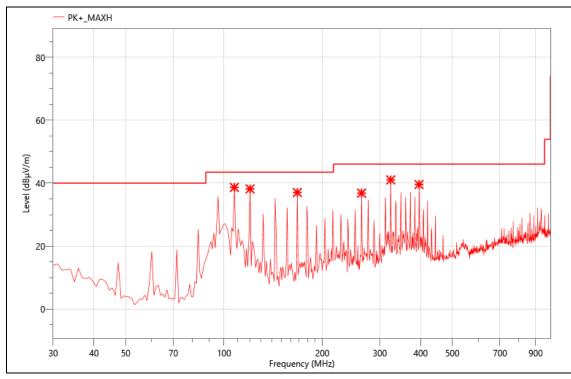
Mode:	11B 2412
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	47.460	56.71	-23.3	33.41	40.00	6.59	PK+	V
2	60.070	58.29	-24.49	33.80	40.00	6.20	PK+	V
3	95.960	60.65	-24.49	36.16	43.50	7.34	PK+	V
4	107.600	60.54	-23.65	36.89	43.50	6.61	PK+	V
5	156.100	58.47	-21.24	37.23	43.50	6.27	PK+	V
6	167.740	58.81	-22.7	36.11	43.50	7.39	PK+	V

Mode:	11B 2412
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa

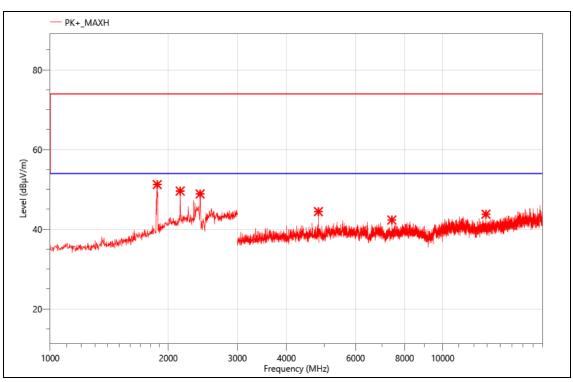


No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	107.600	62.30	-23.65	38.65	43.50	4.85	PK+	Н
2	120.210	62.76	-24.59	38.17	43.50	5.33	PK+	Н
3	167.740	59.73	-22.7	37.03	43.50	6.47	PK+	Н
4	263.770	55.16	-18.32	36.84	46.00	9.16	PK+	Н
5	323.910	58.74	-17.69	41.05	46.00	4.95	PK+	Н
6	395.690	53.72	-14.14	39.58	46.00	6.42	PK+	Н

Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

Mode:	11B 2412
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa

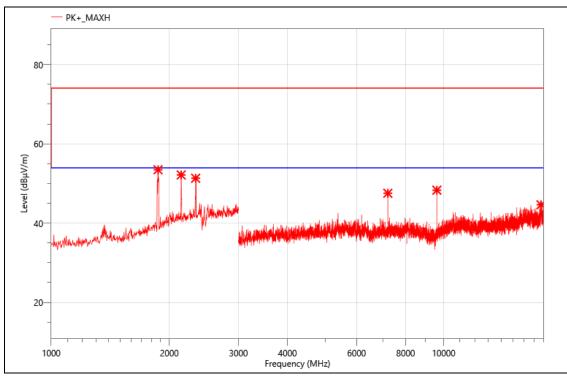
All modes have been tested and the worst result as bellow:



Critical_Freqs

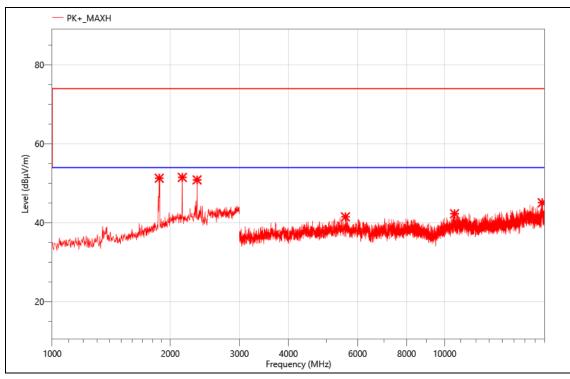
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1874.000	61.55	-10.35	51.20	74.00	22.80	PK+	Н
2	2144.000	58.62	-9.05	49.57	74.00	24.43	PK+	Н
3	2410.000	57.37	-8.52	48.85	74.00	25.15	PK+	Н
4	4824.000	55.88	-11.47	44.41	74.00	29.59	PK+	Н
5	7423.500	50.29	-7.98	42.31	74.00	31.69	PK+	Н
6	12889.500	48.23	-4.47	43.76	74.00	30.24	PK+	Н

Mode:	11B 2412
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



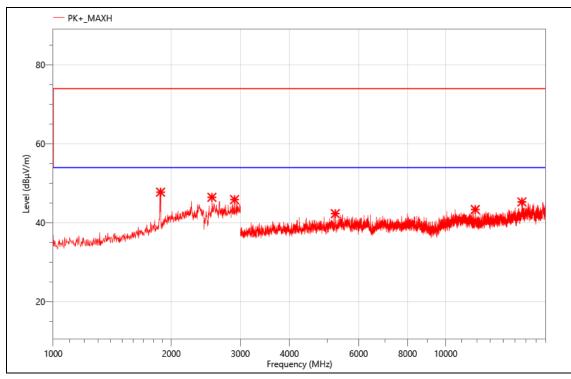
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1872.000	63.84	-10.36	53.48	74.00	20.52	PK+	V
2	2144.000	61.21	-9.05	52.16	74.00	21.84	PK+	V
3	2334.000	60.06	-8.73	51.33	74.00	22.67	PK+	V
4	7206.000	55.54	-8	47.54	74.00	26.46	PK+	V
5	9607.500	55.38	-7.06	48.32	74.00	25.68	PK+	V
6	17691.000	44.41	0.23	44.64	74.00	29.36	PK+	V

Mode:	11B 2437
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



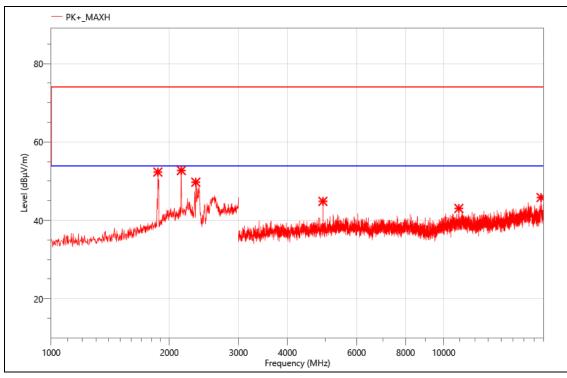
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1874.000	61.60	-10.35	51.25	74.00	22.75	PK+	V
2	2146.000	60.51	-9.05	51.46	74.00	22.54	PK+	V
3	2340.000	59.45	-8.62	50.83	74.00	23.17	PK+	V
4	5587.500	50.65	-9.19	41.46	74.00	32.54	PK+	V
5	10597.500	47.50	-5.26	42.24	74.00	31.76	PK+	V
6	17725.500	45.39	-0.35	45.04	74.00	28.96	PK+	V

Mode:	11B 2437
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



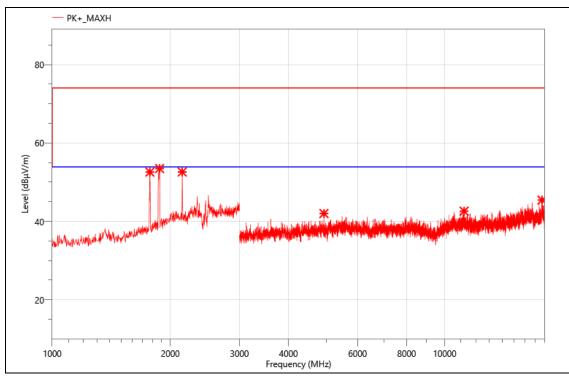
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1878.000	58.05	-10.33	47.72	74.00	26.28	PK+	Н
2	2538.000	54.87	-8.46	46.41	74.00	27.59	PK+	Н
3	2898.000	53.74	-7.91	45.83	74.00	28.17	PK+	Н
4	5232.000	52.44	-10.18	42.26	74.00	31.74	PK+	Н
5	11895.000	47.51	-4.2	43.31	74.00	30.69	PK+	Н
6	15642.000	47.28	-2.04	45.24	74.00	28.76	PK+	Н

Mode:	11B 2462
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1870.000	62.70	-10.37	52.33	74.00	21.67	PK+	Н
2	2146.000	61.78	-9.05	52.73	74.00	21.27	PK+	Н
3	2336.000	58.43	-8.69	49.74	74.00	24.26	PK+	Н
4	4924.500	55.96	-11.1	44.86	74.00	29.14	PK+	Н
5	10932.000	47.97	-4.92	43.05	74.00	30.95	PK+	Н
6	17701.500	45.69	0.14	45.83	74.00	28.17	PK+	Н

Mode:	11B 2462
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1774.000	63.79	-11.2	52.59	74.00	21.41	PK+	V
2	1878.000	63.83	-10.33	53.50	74.00	20.50	PK+	V
3	2144.000	61.66	-9.05	52.61	74.00	21.39	PK+	V
4	4924.500	53.11	-11.1	42.01	74.00	31.99	PK+	V
5	11208.000	46.88	-4.27	42.61	74.00	31.39	PK+	V
6	17695.500	45.23	0.21	45.44	74.00	28.56	PK+	V

Note : [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Note:

1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

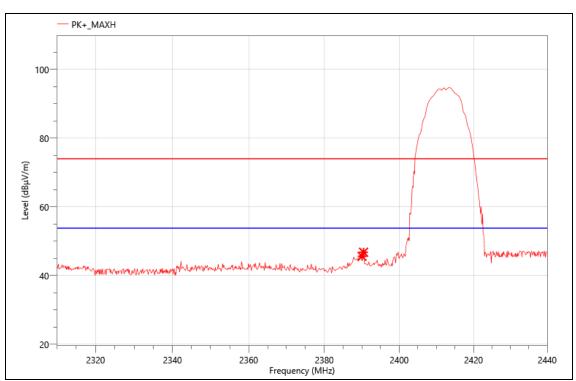
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

For the frequency above 18 GHz, a pre-scan was performed, and the result was 20 dB lower than the limit line, the test data was not shown in the report.

Band Edge

Mode:	11B 2412
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa

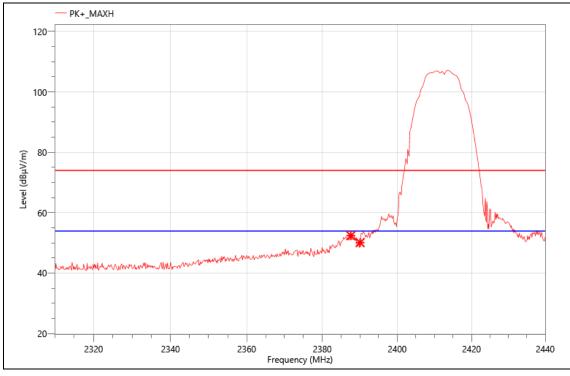
All modes have been tested and the worst result as bellow:



Critical_Freqs

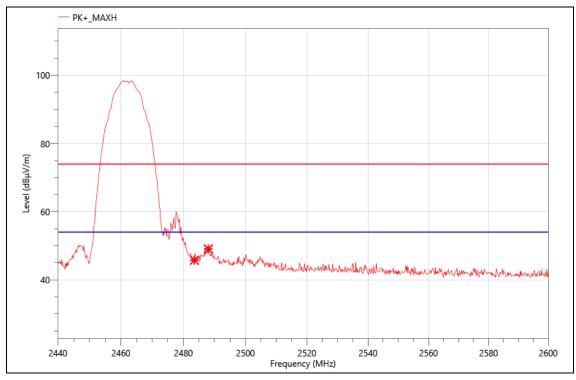
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2390.080	22.91	22.72	45.63	74.00	28.37	PK+	V
2	2390.470	24.11	22.73	46.84	74.00	27.16	PK+	V

Mode:	11B 2412
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



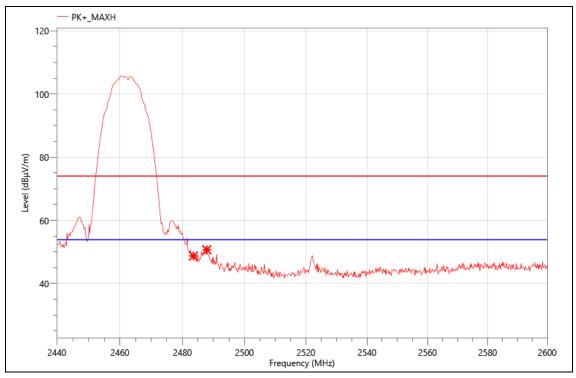
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2387.610	29.73	22.67	52.40	74.00	21.60	PK+	Н
2	2390.080	27.40	22.72	50.12	74.00	23.88	PK+	Н
N 1 4 .	FRA 1 1 1 1.			0 1				

Mode:	11B 2462
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2483.520	22.57	23.15	45.72	74.00	28.28	PK+	V
2	2488.000	25.91	23.14	49.05	74.00	24.95	PK+	V
N 1 4 .	FRA 1 1 1 1			0 1				

Mode:	11B 2462
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2483.520	25.58	23.15	48.73	74.00	25.27	PK+	Н
2	2487.840	27.57	23.14	50.71	74.00	23.29	PK+	Н

9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC §15.203

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

Please refer to FCC §15.247(b)(4)

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.

DESCRIPTION

Compliance.

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a)

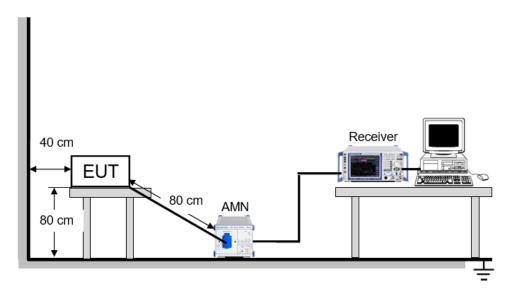
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

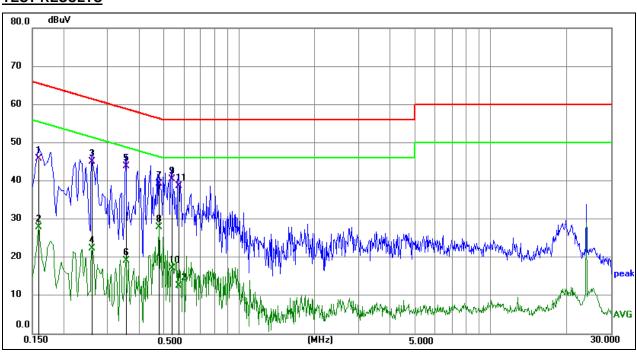
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	52%
Atmosphere Pressure	100kPa		

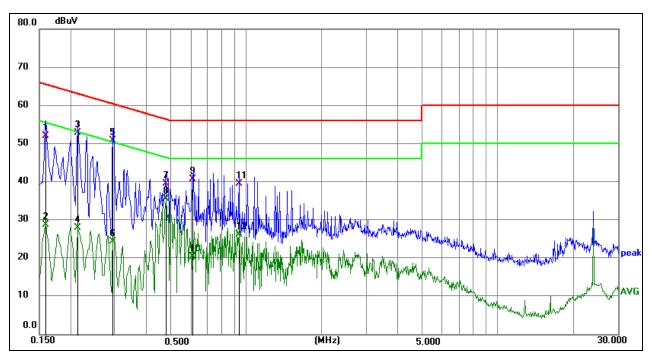


TEST RESULTS

Phase:	Ν		

Mode: 11B 2412MHz

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1590	35.82	9.97	45.79	65.52	-19.73	QP
2	0.1590	17.99	9.97	27.96	55.52	-27.56	AVG
3	0.2580	35.11	9.91	45.02	61.50	-16.48	QP
4	0.2580	12.47	9.91	22.38	51.50	-29.12	AVG
5	0.3525	34.06	9.91	43.97	58.90	-14.93	QP
6	0.3525	9.32	9.91	19.23	48.90	-29.67	AVG
7	0.4785	29.35	9.97	39.32	56.37	-17.05	QP
8	0.4785	18.08	9.97	28.05	46.37	-18.32	AVG
9	0.5370	30.59	9.99	40.58	56.00	-15.42	QP
10	0.5370	7.20	9.99	17.19	46.00	-28.81	AVG
11	0.5730	28.76	9.99	38.75	56.00	-17.25	QP
12	0.5730	2.59	9.99	12.58	46.00	-33.42	AVG



Phase: L1	Mada, 11D 0110MU-
Phase. LI	Mode: 11B 2412MHz

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1590	42.10	9.90	52.00	65.52	-13.52	QP
2	0.1590	18.87	9.90	28.77	55.52	-26.75	AVG
3	0.2130	42.96	9.91	52.87	63.09	-10.22	QP
4	0.2130	18.01	9.91	27.92	53.09	-25.17	AVG
5	0.2940	41.05	9.84	50.89	60.41	-9.52	QP
6	0.2940	14.50	9.84	24.34	50.41	-26.07	AVG
7	0.4785	29.64	9.84	39.48	56.37	-16.89	QP
8	0.4785	25.60	9.84	35.44	46.37	-10.93	AVG
9	0.6134	30.79	9.98	40.77	56.00	-15.23	QP
10	0.6134	10.42	9.98	20.40	46.00	-25.60	AVG
11	0.9375	29.41	10.05	39.46	56.00	-16.54	QP
12	0.9375	16.05	10.05	26.10	46.00	-19.90	AVG

Note: 1. Result = Reading + Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

11. TEST DATA - Appendix A

Duty Cycle

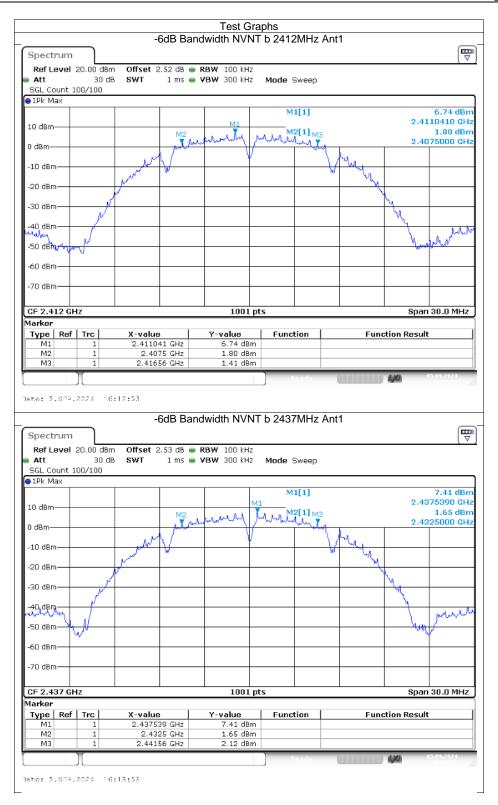
Condition	Mode	Frequency (MHz)	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Final settingFor VBW (kHz)
NVNT	b	2412	Ant1	8.19	8.21	99.76	0	0.12	1
NVNT	b	2437	Ant1	8.19	8.21	99.76	0	0.12	1
NVNT	b	2462	Ant1	8.19	8.21	99.76	0	0.12	1
NVNT	g	2412	Ant1	1.36	1.41	96.45	0.16	0.73	1
NVNT	g	2437	Ant1	1.36	1.41	96.45	0.16	0.73	1
NVNT	g	2462	Ant1	1.36	1.41	96.45	0.16	0.73	1
NVNT	n20	2412	Ant1	1.27	1.32	96.21	0.17	0.79	1
NVNT	n20	2437	Ant1	1.27	1.32	96.21	0.17	0.79	1
NVNT	n20	2462	Ant1	1.27	1.32	96.21	0.17	0.79	1

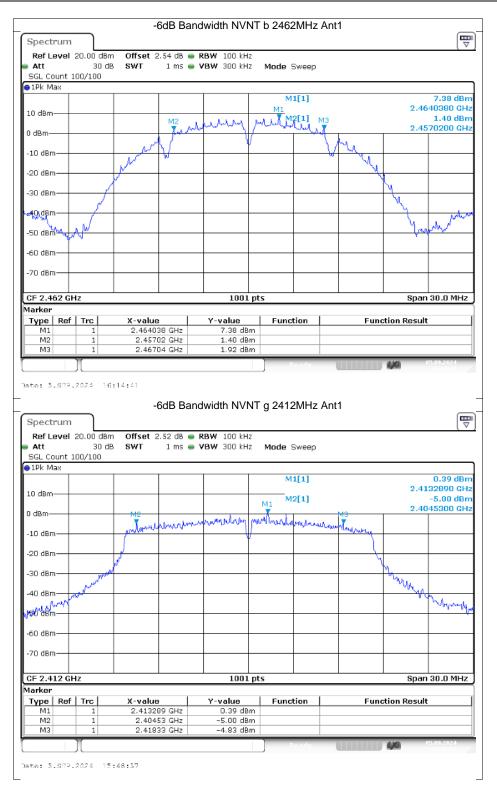
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	19.63	0	19.63	30	Pass
NVNT	b	2437	Ant1	19.78	0	19.78	30	Pass
NVNT	b	2462	Ant1	20.26	0	20.26	30	Pass
NVNT	g	2412	Ant1	18.55	0.16	18.71	30	Pass
NVNT	g	2437	Ant1	18.8	0.16	18.96	30	Pass
NVNT	g	2462	Ant1	18.42	0.16	18.58	30	Pass
NVNT	n20	2412	Ant1	18.2	0.17	18.37	30	Pass
NVNT	n20	2437	Ant1	18.38	0.17	18.55	30	Pass
NVNT	n20	2462	Ant1	18.09	0.17	18.26	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.06	0.5	Pass
NVNT	b	2437	Ant1	9.06	0.5	Pass
NVNT	b	2462	Ant1	10.02	0.5	Pass
NVNT	g	2412	Ant1	13.8	0.5	Pass
NVNT	g	2437	Ant1	14.43	0.5	Pass
NVNT	g	2462	Ant1	13.77	0.5	Pass
NVNT	n20	2412	Ant1	10.17	0.5	Pass
NVNT	n20	2437	Ant1	14.97	0.5	Pass
NVNT	n20	2462	Ant1	13.77	0.5	Pass

-6dB Bandwidth





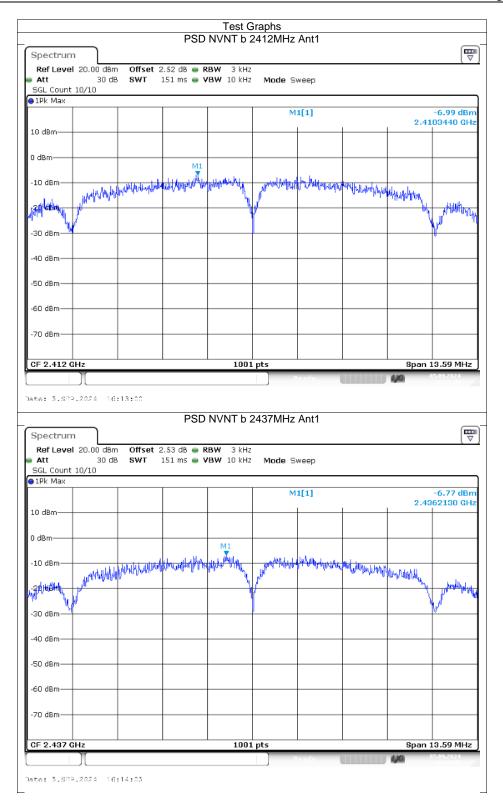
		-6	ир рап	dwidth NVN	5 g 2437MHz	z Ant1	
Spectrum					0		
Ref Level		n Offset 2.	.53 dB 👄	RBW 100 kHz			(•
Att 🗧	30 dE	B SWT	1 ms 👄	VBW 300 kHz	Mode Sweep		
SGL Count : 9 1Pk Max	100/100						
UPK Max					M1[1]		-1.00 dBm
10 dBm							2.4420350 GHz
TO UBIII					M2[1]	M1	-6.79 dBm
0 dBm		M2		and share as the total loss	manufation	-	2.4297400 GHz
-10 dBm		mount	Marthalpute.	annound he	a leaser and had been	When when the	
				I I			
-20 dBm		1				4	
-30 dBm	- M	<u>//</u>					Muc -
	hoursell						North Contraction
-40 dBm	A Contraction of the second se						WWWWWWWWWWW
~stolash							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
-60 dBm							
-70 dBm							
CF 2.437 G	Hz			1001 p	ts		Span 30.0 MHz
Marker							
Type Ref M1	1 Trc	X-value 2,44203		Y-value -1.00 dBm	Function	Fund	tion Result
M2	1	2.4297		-6.79 dBm			
M3	1	2.4441	7 GHz	-6.87 dBm			
					Ready		05.09.2024
Spectrum		-0		dwidth NVN	y 2402111112		_
	20.00 dBm			RBW 100 kHz	Made Swoon		
Ref Level Att SGL Count 1	20.00 dBm 30 dB			RBW 100 kHz VBW 300 kHz	Mode Sweep	1	
Att	20.00 dBm 30 dB				Mode Sweep		
Att SGL Count :	20.00 dBm 30 dB				Mode Sweep M1[1]		(⊽ -0.67 dBm
Att SGL Count :	20.00 dBm 30 dB			VBW 300 kHz	M1[1]		[⊽
● Att SGL Count : ● 1Pk Max 10 dBm	20.00 dBm 30 dB			VBW 300 kHz	M1[1]		(⊽ -0.67 dBm 2.4595120 GHz
Att SGL Count : 1Pk Max 10 dBm- 0 dBm-	20.00 dBm 30 dB	3 SWT	1 ms 🖷	VBW 300 kHz	M1[1]		-0.67 dBm 2.4595120 GHz -6.24 dBm
● Att SGL Count : ● 1Pk Max 10 dBm	20.00 dBm 30 dB	3 SWT		VBW 300 kHz	M1[1]		-0.67 dBm 2.4595120 GHz -6.24 dBm
Att SGL Count : 1Pk Max 10 dBm- 0 dBm-	20.00 dBm 30 dB	3 SWT	1 ms 🖷	VBW 300 kHz	M1[1]		-0.67 dBm 2.4595120 GHz -6.24 dBm
• Att SGL Count : • 1Pk Max 10 dBm • 10 dBm -10 dBm -20 dBm	20.00 dBm 30 dB	3 SWT	1 ms 🖷	VBW 300 kHz	M1[1]		-0.67 dBm 2.4595120 GHz -6.24 dBm 2.4551300 GHz
Att SGL Count : 1Pk Max 10 dBm 0 dBm -10 dBm	20.00 dBm 30 dB	3 SWT	1 ms 🖷	VBW 300 kHz	M1[1]		-0.67 dBm 2.4595120 GHz -6.24 dBm 2.4551300 GHz
Att SGL Count 1 SGL Count 1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	20.00 dBm 30 dE 100/100	3 SWT	1 ms 🖷	VBW 300 kHz	M1[1]		-0.67 dBm 2.4595120 GHz -6.24 dBm 2.4551300 GHz
Att SGL Count 1 SGL Count 1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	20.00 dBm 30 dE 100/100	3 SWT	1 ms 🖷	VBW 300 kHz	M1[1]		-0.67 dBm 2.4595120 GHz -6.24 dBm 2.4551300 GHz
Att SGL Count 1 SGL Count 1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	20.00 dBm 30 dE 100/100	3 SWT	1 ms 🖷	VBW 300 kHz	M1[1]		-0.67 dBm 2.4595120 GHz -6.24 dBm
Att SGL Count 1 SGL Count 1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	20.00 dBm 30 dE 100/100	3 SWT	1 ms 🖷	VBW 300 kHz	M1[1]		-0.67 dBm 2.4595120 GHz -6.24 dBm 2.4551300 GHz
Att SGL Count 1 SGL Count 1 SG	20.00 dBm 30 dE 100/100	3 SWT	1 ms 🖷	VBW 300 kHz	M1[1]		-0.67 dBm 2.4595120 GHz -6.24 dBm 2.4551300 GHz
Att SGL Count 1 SGL Count 1 SGL Count 1 IV Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -40 dBm -40 dBm	20.00 dBm 30 dE 100/100	3 SWT	1 ms 🖷	VBW 300 kHz	M1[1]		-0.67 dBm 2.4595120 GHz -6.24 dBm 2.4551300 GHz
Att SGL Count 1 SGL Count 1 SGL Count 1 SGL Count 1 O dBm -0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -70 dBm -70 dBm	20.00 dBm 30 dE 100/100	3 SWT	1 ms 🖷	VBW 300 kHz	M1[1] M2[1] %%~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		-0.67 dBm 2.4595120 GHz -6.24 dBm 2.4551300 GHz
Att SGL Count 1 SGL Count 1 SGL Count 1 SGL Count 1 SGL Count 1 O dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -60 dBm -70 dBm -70 dBm -70 dBm	20.00 dBm 30 dE 100/100	3 SWT	1 ms 🖷	VBW 300 kHz	M1[1] M2[1] %%~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		-0.67 dBm 2.4595120 GHz -6.24 dBm 2.4551300 GHz
Att SGL Count 1 SGL Count 1 SGL Count 1 ID dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm	20.00 dBm 30 dE 100/100	M2 M2 M2 M2 M2 M2	1 ms	VBW 300 kHz	M1[1] M2[1] White Ward Ard Capa S	Manna	-0.67 dBm 2.4595120 GHz -6.24 dBm 2.4551300 GHz
Att SGL Count 1 SGL Count 1 SGL Count 1 SGL Count 1 SGL Count 1 Att Anno 1 CBM SGL Count 1 Anno 1 SGL Count 1 Anno 1 SGL Count 1 Anno 1 SGL Count 1 SGL Count 1 Anno 1 SGL Count 1 SGL	20.00 dBm 30 dE 100/100	3 SWT	2 GHz	VBW 300 kHz	M1[1] M2[1] %%~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Manna	-0.67 dBm 2.4595120 GHz -6.24 dBm 2.4551300 GHz
Att SGL Count 1 SGL Count 1 SGL Count 1 SGL Count 1 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -40 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -80 dBm -80 dBm -80 dBm -90 dBm -	20.00 dBm 30 dE 100/100	3 SWT	1 ms	VBW 300 kHz	M1[1] M2[1] White Ward Ard Capa S	Manna	-0.67 dBm 2.4595120 GHz -6.24 dBm 2.4551300 GHz
Att SGL Count 1 SGL Count 1 SGL Count 1 SGL Count 1 SGL Count 1 Att Anno 1 CBM SGL Count 1 Anno 1 SGL Count 1 Anno 1 SGL Count 1 Anno 1 SGL Count 1 SGL Count 1 Anno 1 SGL Count 1 SGL	20.00 dBm 30 dE 100/100	3 SWT	2 GHz	VBW 300 kHz	M1[1] M2[1] White Ward Ard Capa S	Manna	-0.67 dBm 2.4595120 GHz -6.24 dBm 2.4551300 GHz
Att SGL Count 1 SGL Count 1 SGL Count 1 SGL Count 1 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -40 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -80 dBm -80 dBm -80 dBm -90 dBm -	20.00 dBm 30 dE 100/100	3 SWT	1 ms	VBW 300 kHz	M1[1] M2[1] White Ward Ard Laya S	Manna	-0.67 dBm 2.4595120 GHz -6.24 dBm 2.4551300 GHz
Att SGL Count 1 SGL Count 1 SGL Count 1 SGL Count 1 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -40 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -80 dBm -80 dBm -80 dBm -90 dBm -	20.00 dBm 30 dE 100/100	3 SWT	1 ms	VBW 300 kHz	M1[1] M2[1] White Ward Ard Laya S	Manna	-0.67 dBm 2.4595120 GHz -6.24 dBm 2.4551300 GHz

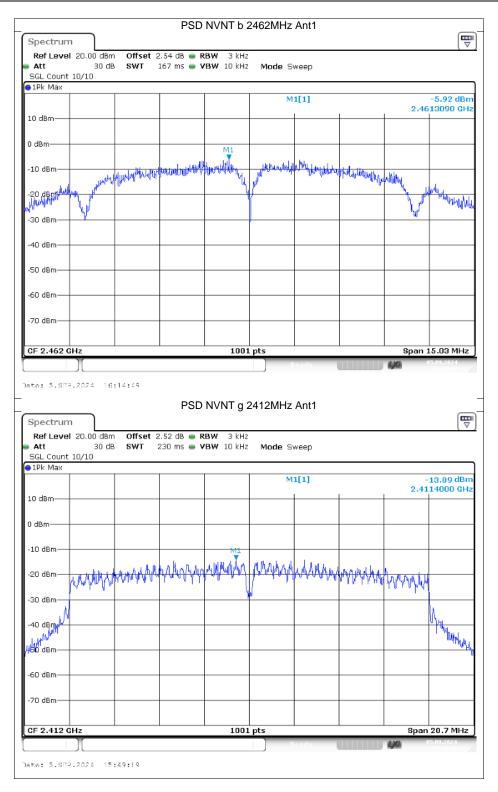
		-60	dB Band	width NVN	T n20 241	2MHz	Ant1		
Spectrum									E ▼
Ref Level	20.00 dBm	Offset 2	2.52 dB 👄	RBW 100 kH	Z				(•
Att	30 dB	SWT	1 ms 👄	VBW 300 kH:	Z Mode ⊆	Sweep			
SGL Count 1 9 1Pk Max	100/100								
					Mi	l[1]			0.71 dBm
10 dBm						2[1]		2.41	.07710 GHz -4.21 dBm
				M1	MI2	41]		2.40	-4.21 aBm 69600 GHz
0 dBm			- Marine	immarkar	parameter	when?	3		
-10 dBm		purphone	-0.00			1.1.000	mannham		
-20 dBm									
-20 UBIII	. d							η.	
-30 dBm	V and V							Mr.A.	Muhun
-40 dBm	N							When we have	
LECTOBIN								'	When
450'dBm									
-60 dBm									
-70 dBm									
CF 2.412 GH Marker	ΗZ			1001	pts			Span	30.0 MHz
Type Ref	Trc	X-value		Y-value	Funct	ion	Fun	ction Result	
M1	1	2.41077	71 GHz	0.71 dB	m				
M2 M3	1		96 GHz 13 GHz	-4.21 dB -5.23 dB					
INIO	7	2.417.		5.25 db		_		4.66	5.09.2024
								and the second sec	
ate: 5.SRP.	.2024 15:		dB Band	dwidth NVN	T n20 243	7MHz	Ant1		
ste: 5.SRP. Spectrum		-60				37MHz	Ant1		
Spectrum Ref Level Att	20.00 dBm 30 dB	-60 Offset 2	2.53 dB 👄	width NVN	2		Ant1		
Spectrum Ref Level Att SGL Count 1	20.00 dBm 30 dB	-60 Offset 2	2.53 dB 👄	RBW 100 kH:	2		Ant1		
Spectrum Ref Level Att SGL Count 1	20.00 dBm 30 dB	-60 Offset 2	2.53 dB 👄	RBW 100 kH:	² Z Mode ≘	weep	Ant1		.06 dBm
Spectrum Ref Level Att SGL Count 1 1Pk Max	20.00 dBm 30 dB	-60 Offset 2	2.53 dB 👄	RBW 100 kH:	² Z Mode ≘		Ant1	2.43	.06 dBm 57410 GHz
Spectrum Ref Level Att SGL Count 1 1Pk Max	20.00 dBm 30 dB	-60 Offset 2	2.53 dB 👄	RBW 100 kH:	Z Mode S	weep	Ant1		57410 GHz -4.79 dBm
Spectrum Ref Level Att SGL Count 1 1Pk Max	20.00 dBm 30 dB	-60 Offset 2 SWT	2.53 dB • 1 ms •	RBW 100 kH; VBW 300 kH;	Z Mode S M1	weep ([1] 2[1]			57410 GHz
Spectrum Ref Level Att SGL Count 1 PIPk Max 10 dBm 0 dBm	20.00 dBm 30 dB	-60 Offset 2 SWT	2.53 dB 👄	RBW 100 kH; VBW 300 kH;	Z Mode S	weep ([1] 2[1]			57410 GHz -4.79 dBm
Spectrum Ref Level Att SGL Count 1	20.00 dBm 30 dB	-60 Offset 2 SWT	2.53 dB • 1 ms •	RBW 100 kH; VBW 300 kH;	Z Mode S M1	weep ([1] 2[1]			57410 GHz -4.79 dBm
Spectrum Ref Level Att SGL Count 1 1Pk Max 10 dBm 0 dBm -10 dBm	20.00 dBm 30 dB	-60 Offset 2 SWT	2.53 dB • 1 ms •	RBW 100 kH; VBW 300 kH;	Z Mode S M1	weep ([1] 2[1]			57410 GHz -4.79 dBm
Spectrum Ref Level Att SGL Count 1 SGL Count 1 ID dBm 0 dBm -10 dBm -20 dBm	20.00 dBm 30 dB	-60 Offset 2 SWT	2.53 dB • 1 ms •	RBW 100 kH; VBW 300 kH;	Z Mode S M1	weep ([1] 2[1]		2.42	57410 GHz -4.79 dBm 95300 GHz
Spectrum Ref Level Att SGL Count 1 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	20.00 dBm 30 dB	-60 Offset 2 SWT	2.53 dB • 1 ms •	RBW 100 kH; VBW 300 kH;	Z Mode S M1	weep ([1] 2[1]		2.42	957410 GHz -4.79 dBm 95300 GHz
Spectrum Ref Level Att SGL Count 1 ID dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	20.00 dBm 30 dB	-60 Offset 2 SWT	2.53 dB • 1 ms •	RBW 100 kH; VBW 300 kH;	Z Mode S M1	weep ([1] 2[1]			57410 GHz -4.79 dBm 95300 GHz
Spectrum Ref Level SGL Count 1 SGL Count 1 IPk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -40 dBm -40 dBm	20.00 dBm 30 dB	-60 Offset 2 SWT	2.53 dB • 1 ms •	RBW 100 kH; VBW 300 kH;	Z Mode S M1	weep ([1] 2[1]		2.42	957410 GHz -4.79 dBm 95300 GHz
Spectrum Ref Level Att SGL Count 1 IPk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	20.00 dBm 30 dB	-60 Offset 2 SWT	2.53 dB • 1 ms •	RBW 100 kH; VBW 300 kH;	Z Mode S M1	weep ([1] 2[1]		2.42	57410 GHz -4.79 dBm 95300 GHz
Spectrum Ref Level Att SGL Count 1 IPk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	20.00 dBm 30 dB	-60 Offset 2 SWT	2.53 dB • 1 ms •	RBW 100 kH; VBW 300 kH;	Z Mode S M1	weep ([1] 2[1]		2.42	57410 GHz -4.79 dBm 95300 GHz
Spectrum Ref Level Att SGL Count 1 ID dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	20.00 dBm 30 dB	-60 Offset 2 SWT	2.53 dB • 1 ms •	RBW 100 kH; VBW 300 kH;	Z Mode S M1	weep ([1] 2[1]		2.42	57410 GHz -4.79 dBm 95300 GHz
Spectrum Ref Level SGL Count 1 SGL Count 1 ID dBm 10 dBm 10 dBm 20 dBm 20 dBm 40 dBm 60 dBm 60 dBm	20.00 dBm 30 dB	-60 Offset 2 SWT	2.53 dB • 1 ms •	RBW 100 kH; VBW 300 kH;	Z Mode S M1	weep ([1] 2[1]		2.42	57410 GHz -4.79 dBm 95300 GHz
Spectrum Ref Level SGL Count 1 SGL Count 1 ID dBm 10 dBm 10 dBm 20 dBm -20 dBm -30 dBm -40 dBm -60 dBm -60 dBm	20.00 dBm 30 dB 100/100	-60 Offset 2 SWT	2.53 dB • 1 ms •	RBW 100 kH; VBW 300 kH;	2 Mode S M1 M2 א2 א2 א2 א2	weep ([1] 2[1]		2.42	57410 GHz -4.79 dBm 95300 GHz
Spectrum Ref Level Att SGL Count 1 SGL Count 1 IPk Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -70 dBm -70 dBm -70 dBm -70 dBm	20.00 dBm 30 dB 100/100	-60 Offset 2 SWT	2.53 dB • 1 ms •	RBW 100 kH:	Z Mode ⊆ M3 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M3 M2 M3 M3 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	>weep [[1] 2[1] ภูณิ/เป็นปร		2.42	57410 GHz -4.79 dBm 95300 GHz
Spectrum Ref Level Att SGL Count 1 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -60 dBm -70 dBm -70 dBm CF 2.437 GF Jarker Type	20.00 dBm 30 dB 100/100	-60 Offset 2 SWT	2.53 dB • 1 ms •	RBW 100 kH: VBW 300 kH: M1 M1 M1 M1 M1 M1 M1 M1 M1 M1	2 Mode S	>weep [[1] 2[1] ภูณิ/เป็นปร		2.42	57410 GHz -4.79 dBm 95300 GHz
Spectrum Ref Level Att SGL Count 1 SGL Count 1 IPk Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -60 dBm -60 dBm -70 dBm CF 2.437 GH Aarker Type Ref M1 M2	20.00 dBm 30 dB 100/100	-60	2.53 dB • 1 ms • 	RBW 100 kH: VBW 300 kH: M1 M1 M1 M1 M1 M1 M1 M1 M1 M1	2 Mode S M3 	>weep [[1] 2[1] ภูณิ/เป็นปร		2.42	57410 GHz -4.79 dBm 95300 GHz
Spectrum Ref Level Att SGL Count 1 SGL Count 2 IPk Max 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -60 dBm -60 dBm -70 dBm	20.00 dBm 30 dB 100/100	-60	2.53 dB • 1 ms •	RBW 100 kH: VBW 300 kH: M1 M1 M1 M1 M1 M1 M1 M1 M1 M1	2 Mode S M3 	>weep [[1] 2[1] ภูณิ/เป็นปร		2.42	57410 GHz -4.79 dBm 95300 GHz

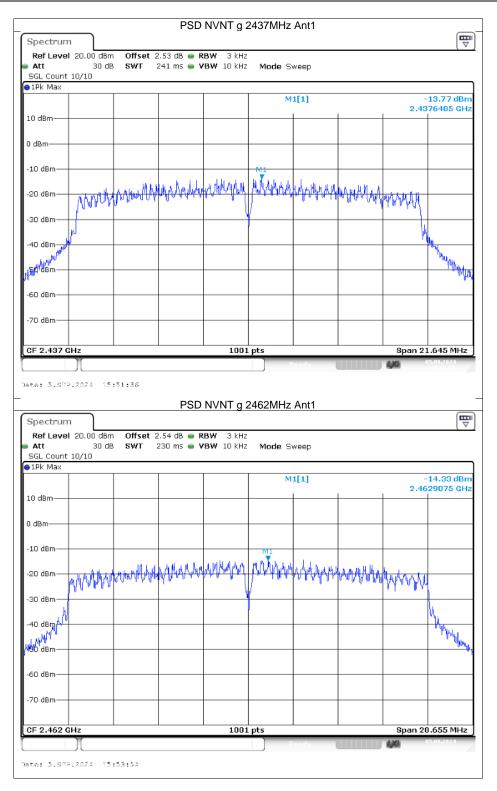
	-6d	IB Bandw	idth NVNT	n20 246	62MHz	z Ant1		_
Spectrum								[₩]
Ref Level 20.00 0	Bm Offset 2.	54 dB 😐 RI	BW 100 kHz					,
■ Att 30	db SWT	1 ms 👄 🛛	BW 300 kHz	Mode 9	Sweep			
SGL Count 100/100								
😑 1Pk Max								
				М	1[1]			-0.58 dBm
10 dBm								95120 GHz
			M1	M	2[1]			-6.43 dBm
0 dBm	MO					1 1/13	2.45	57600 GHz
	T.	whenty	Munhung	whennes	man	mmuntung		
-10 dBm	Mana Managarana	•						
	ſ		ľ					
-20 dBm	1						h	
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-30 dBm	·						Vu _k	
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-60 dBm-								
-70 dBm								
-70 0611								
25.0.160.011								
CF 2.462 GHz			1001	pts			span	30.0 MHz
Marker	Marah		V	Func	I	F	ation Descrit	
Type Ref Trc	X-value 2.45951	2 CH2	<u>Y-value</u> -0.58 dBn		tion	Fun	ction Result	
M2 1	2.4557		-6.43 dBn					
M3 1	2.4695		-5.33 dBn					
					oadv		110	5.09.2024
							age to a	
ate: 5.SRP.2024	16:00:54							

Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-6.99	0	-6.99	8	Pass
NVNT	b	2437	Ant1	-6.77	0	-6.77	8	Pass
NVNT	b	2462	Ant1	-5.92	0	-5.92	8	Pass
NVNT	g	2412	Ant1	-14.05	0.16	-13.89	8	Pass
NVNT	g	2437	Ant1	-13.93	0.16	-13.77	8	Pass
NVNT	g	2462	Ant1	-14.49	0.16	-14.33	8	Pass
NVNT	n20	2412	Ant1	-12.8	0.17	-12.63	8	Pass
NVNT	n20	2437	Ant1	-13.38	0.17	-13.21	8	Pass
NVNT	n20	2462	Ant1	-13.84	0.17	-13.67	8	Pass



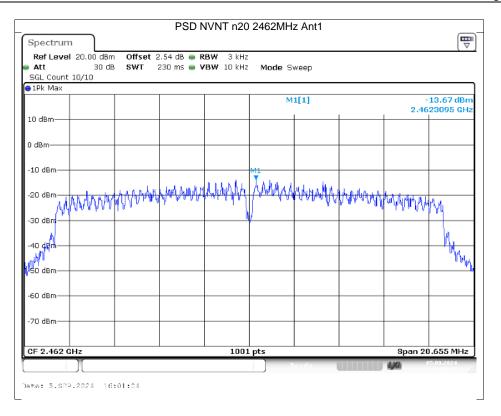




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Spectrun			PSD N	IVNT n20	2412MH	z Ant1			
	1 20.00 dBm	Offset 2	2.52 dB 👄 R	BW 3 kHz					(🗢
Att SGL Count	30 dB		170 ms 👄 V		Mode S	weep			
) 1Pk Max	. 10/10								
					м	1[1]			12.63 dBm
10 dBm								2.41	26705 GHz
0 dBm									
-10 dBm					M1				
-10 080				L . B .	T	ы. Б. Т. – – – – – – – – – – – – – – – – – –	r de		
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-30 dBm									
-40 dBm									
-50 dBm									
-60 dBe-									
-60 dBm									
-70 dBm									
CF 2.412 (GHz			1001	. pts			Span 1	5.255 MHz
					E E	leady 👘		4,40	
	9,2024 15	:57:04	PSD N	IVNT n20	2437MH	z Ant1			(III
Spectrun	n					z Ant1			
Spectrun		Offset 2	PSD N 2.53 dB • R 250 ms • V	BW 3 kHz					(III)
Spectrun Ref Leve Att SGL Count	n 1 20.00 dBm 30 dB	Offset 2	2.53 dB 👄 R	BW 3 kHz					(IIII)
Spectrun Ref Leve Att	n 1 20.00 dBm 30 dB	Offset 2	2.53 dB 👄 R	BW 3 kHz	Mode S	weep			
Spectrun Ref Leve Att SGL Count 1Pk Max	n 1 20.00 dBm 30 dB	Offset 2	2.53 dB 👄 R	BW 3 kHz	Mode S				13.21 dBn
Spectrun Ref Leve Att SGL Count	n 1 20.00 dBm 30 dB	Offset 2	2.53 dB 👄 R	BW 3 kHz	Mode S	weep			13.21 dBn
Spectrun Ref Leve Att SGL Count 1Pk Max	n 1 20.00 dBm 30 dB	Offset 2	2.53 dB 👄 R	BW 3 kHz	Mode S	weep			13.21 dBn
Spectrun Ref Leve Att SGL Count IPk Max	n 1 20.00 dBm 30 dB	Offset 2	2.53 dB 👄 R	BW 3 kHz	Mode S	weep			13.21 dBn
Spectrun Ref Leve Att SGL Count IPk Max	n 30 dB 1 20.00 dBm 30 dB 1 10/10	Offset 2 SWT 2	2.53 dB • R 250 ms • V	BW 3 kHz BW 10 kHz	Mode S	weep 1[1]		2.45	13.21 dBn 73145 GH:
Spectrum Ref Leve Att SGL Count 10 dBm 0 dBm -10 dBm	n 30 dB 1 20.00 dBm 30 dB 1 10/10	Offset 2 SWT 2	2.53 dB • R 250 ms • V	BW 3 kHz BW 10 kHz	Mode S	weep 1[1]		2.45	13.21 dBn 73145 GH:
Spectrun Ref Leve Att SGL Count IPk Max 10 dBm	n 30 dB 1 20.00 dBm 30 dB 1 10/10	Offset 2 SWT 2	2.53 dB • R 250 ms • V	BW 3 kHz BW 10 kHz	Mode S	weep 1[1]	**************************************	2.45	13.21 dBn 73145 GH:
Spectrum Ref Leve Att SGL Count 10 dBm 0 dBm -10 dBm	n 30 dB 1 20.00 dBm 30 dB 1 10/10	Offset 2 SWT 2	2.53 dB 👄 R	BW 3 kHz BW 10 kHz	Mode S	weep 1[1]	follory to the t	2.45	13.21 dBn 73145 GH:
Spectrun Ref Leve Att SGL Count 10 dBm	n 30 dB 1 20.00 dBm 30 dB 1 10/10	Offset 2 SWT 2	2.53 dB • R 250 ms • V	BW 3 kHz BW 10 kHz	Mode S	weep 1[1]	_የ ሌሌ የስት የሆኑ	2.45	13.21 dBm 73145 GHz
Spectrum Ref Leve Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm	n 30 dB 1 20.00 dBm 30 dB 1 10/10	Offset 2 SWT 2	2.53 dB • R 250 ms • V	BW 3 kHz BW 10 kHz	Mode S	weep 1[1]	<u>የ</u> ዋቀታለዋ በ	2.45	13.21 dBn 73145 GH:
Spectrun Ref Leve Att SGL Count 10 dBm	n 30 dB 1 20.00 dBm 30 dB 1 10/10	Offset 2 SWT 2	2.53 dB • R 250 ms • V	BW 3 kHz BW 10 kHz	Mode S	weep 1[1]	Potter upor to to	2.45	13.21 dBn 73145 GH:
Spectrun Ref Leve Att SGL Count 10 dBm	n 30 dB 1 20.00 dBm 30 dB 1 10/10	Offset 2 SWT 2	2.53 dB • R 250 ms • V	BW 3 kHz BW 10 kHz	Mode S	weep 1[1]	ብ <mark>ታትዮ</mark> ኒቲታሊላ _ው ን	2.45	13.21 dBm 73145 GHz
Spectrun Ref Leve Att SGL Count 10 dBm	n 30 dB 1 20.00 dBm 30 dB 1 10/10	Offset 2 SWT 2	2.53 dB • R 250 ms • V	BW 3 kHz BW 10 kHz	Mode S	weep 1[1]	<u>^</u>	2.45	13.21 dBn 73145 GH
Spectrum Ref Leve Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -40 dBm -40 dBm -50 dBm -50 dBm	n 30 dB 1 20.00 dBm 30 dB 1 10/10	Offset 2 SWT 2	2.53 dB • R 250 ms • V	BW 3 kHz BW 10 kHz	Mode S	weep 1[1]	<u>^</u> ***\1	2.45	13.21 dBn 73145 GH:
Spectrun Ref Leve Att SGL Count 10 dBm	n 30 dB 1 20.00 dBm 30 dB 1 10/10	Offset 2 SWT 2	2.53 dB • R 250 ms • V	BW 3 kHz BW 10 kHz	Mode S	weep 1[1]	<u>*</u> ***	2.45	13.21 dBn 73145 GH:
Spectrun Ref Leve Att SGL Count ID dBm	n 30 dB 30 dB 1 20.00 dBm 30 dB	Offset 2 SWT 2	2.53 dB • R 250 ms • V	BW 3 kHz	Mode S	weep 1[1]	**************************************	2.45	13.21 dBn 73145 GH:
Spectrum Ref Leve Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -40 dBm -40 dBm -50 dBm -50 dBm	n 30 dB 30 dB 1 20.00 dBm 30 dB	Offset 2 SWT 2	2.53 dB • R 250 ms • V	BW 3 kHz BW 10 kHz	Mode S	weep 1[1]	²	2.45	13.21 dBn 73145 GH:

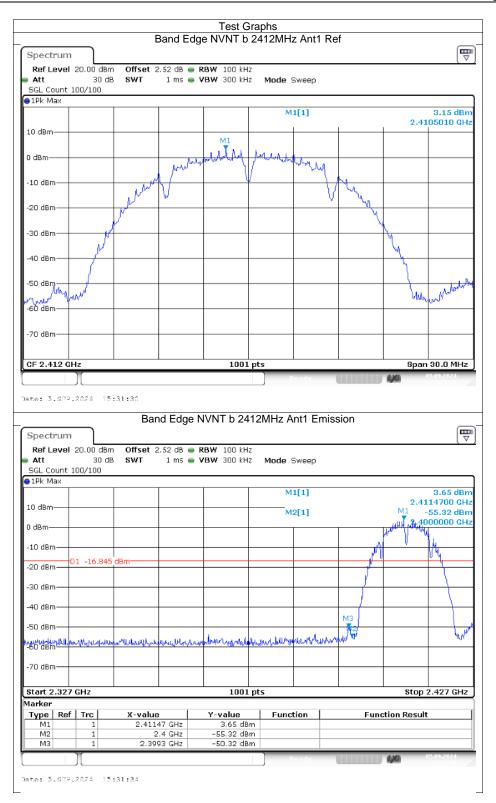
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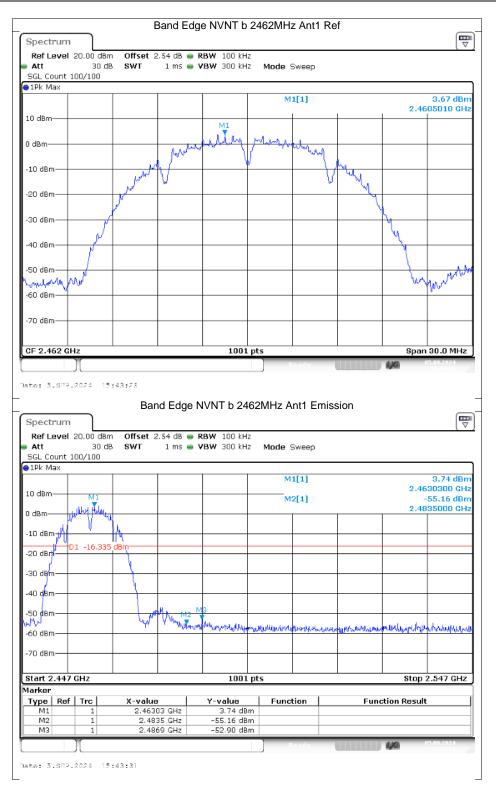


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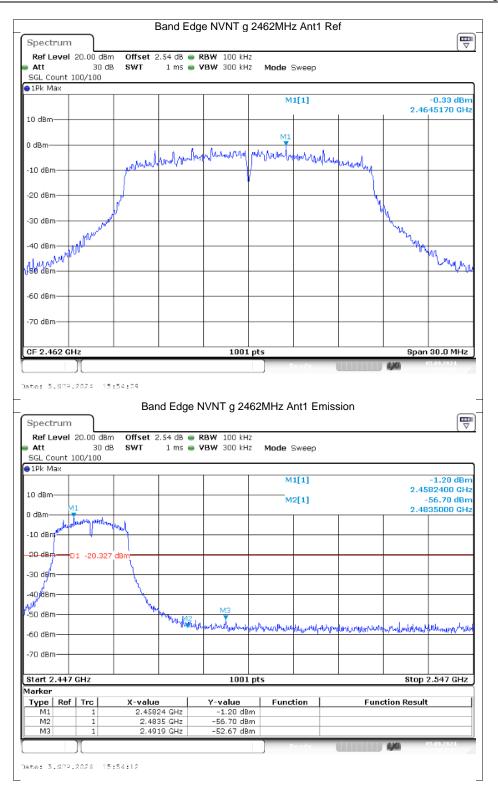
Band Edge

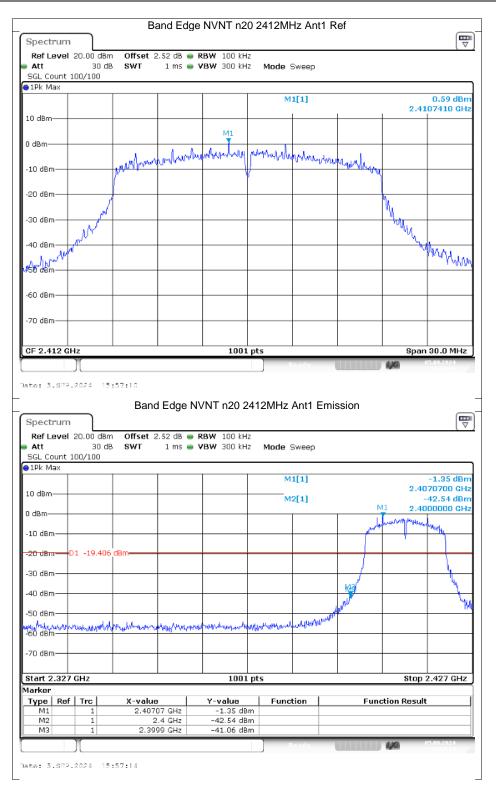
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-53.47	-20	Pass
NVNT	b	2462	Ant1	-56.57	-20	Pass
NVNT	g	2412	Ant1	-41.84	-20	Pass
NVNT	g	2462	Ant1	-52.34	-20	Pass
NVNT	n20	2412	Ant1	-41.65	-20	Pass
NVNT	n20	2462	Ant1	-51.03	-20	Pass

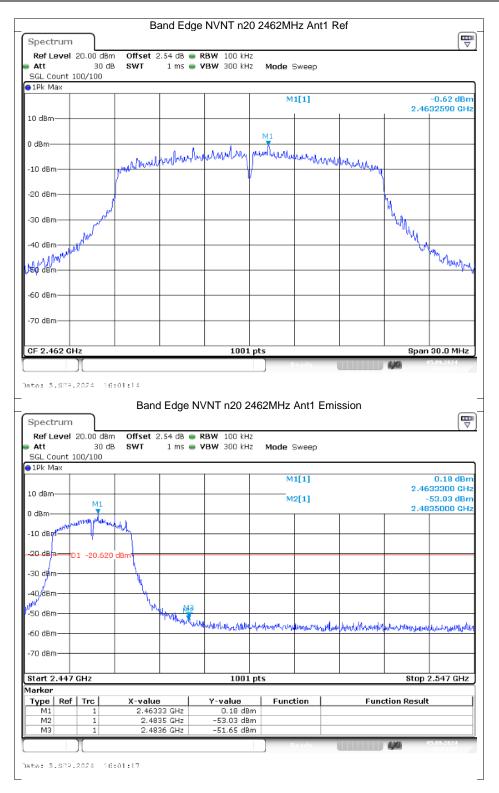




		E	Band Edo	e NVNT g	2412MH	z Ant1 Re	ef		
Spectrun	n)	-		o g					
	 Il 20.00 dBm	Offset 2	2.52 dB 💼 I	RBW 100 kH:	2				[]
Att	30 dB			/BW 300 kH:		Sweep			
SGL Count	100/100								
TEK Max					м	1[1]			-1.31 dBm
							1	2.41	57460 GHz
10 dBm									
0 dBm						M1			
o donn			mound	munny	MAMMAN	wheelse			
-10 dBm—		provement	- W - P				many		
-20 dBm—		1					1		
-30 dBm	N	ŕ					ч	Ψ.	
	march							WUNN N	h the way the
-40 dBm	Collow March								
addition	(ř								MAMMANH.
ւթ⊎ ^ւ ներ ա									1010
-60 dBm—									
-70 dBm									
-70 0811									
CF 2.412 (011-			1001				0	00.0 Mile
GF 2.412 (1001	pts			span	30.0 MHz
	1 20.00 dBm			RBW 100 kH:					$\overline{\nabla}$
Att SGL Count	30 dB : 100/100	SWT	1 ms 🖷 י	/BW 300 kH:	Z Mode S	Sweep			
🔵 1Pk Max									
					м	1[1]		2.40	-0.23 dBm 95700 GHz
10 dBm					м	2[1]			44.33 dBm
0 dBm									00000 GHz
10 48-							ملمع	weatweeptudies	ind
-10 dBm								, ,	
-20 dBm	D1 -21.310	dBm							
-30 dBm									
							N2		N.
-40 dBm—									"Hhu
							Left.		4
-50 dBm						1.10			
-50 dBm ավակություն -60 dBm	Hourington	www.hum	Marina	elland when an or	(kunuulumahud	and any have made and			
-50 dBm ապահություն -60 dBm	Hourseyu	ann hain	e/wee/nhaveau	shaadhamadaa	(kun-urunahud	a harata malalad			
-50 dBm ապահանություն -60 dBm -70 dBm	boundation	www.hum	h. The state of the second	tillaugh tur Managaine	(Kumanananana)	alurgeneralited			
-60 dBm -70 dBm		With Michaelery	hrintennen en e			ulunparenalahod	20 Y	Ston	2 427 CHz
-60 dBm		www.huim	, when the second se	ilhad ^{hauhh} handra 1001		alangkapan alah d		Stop	2.427 GHz
-60 dBm -70 dBm Start 2.32 Marker Type Re	7 GHz f Trc	X-value		1001 Y-value	pts Func			Stop	
-70 dBm -70 dBm Start 2.32 Marker Type Re M1	7 GHz	X-value 2.409	3 57 GHz	1001 Y-value -0.23 dB	pts Func				
-60 dBm -70 dBm Start 2.32 Marker Type Re	7 GHz f Trc	X-value 2.409 2		1001 Y-value	pts Func m				
4000000000000000000000000000000000000	7 GHz	X-value 2.409 2	57 GHz 2.4 GHz	1001 Y-value -0.23 dB -44.33 dB	pts Func m				
-70 dBm -70 dBm Start 2.32 Marker Type Re M1 M2 M3	7 GHz	X-value 2.409 2.39	57 GHz 2.4 GHz	1001 Y-value -0.23 dB -44.33 dB	pts Func m				

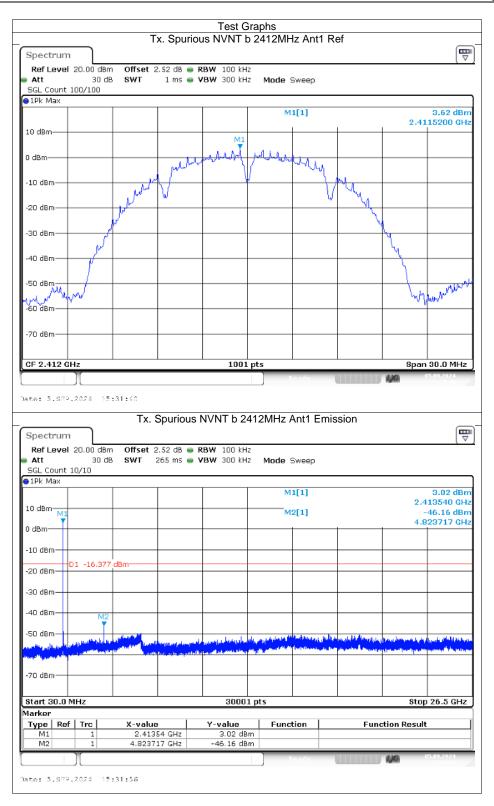


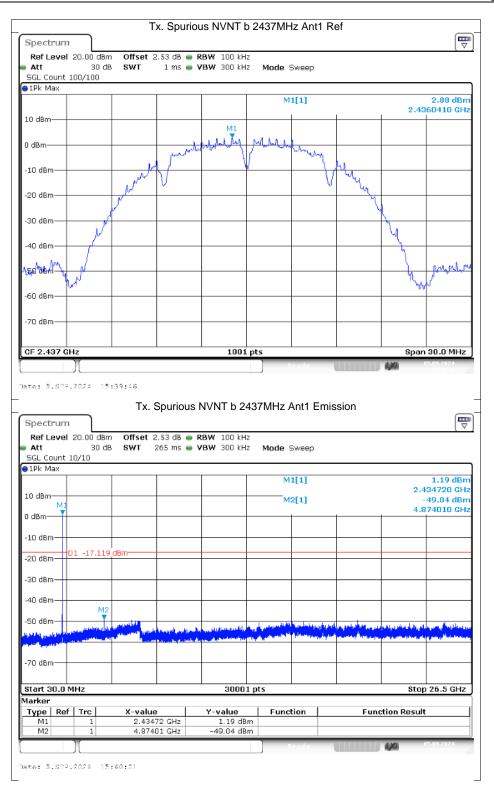


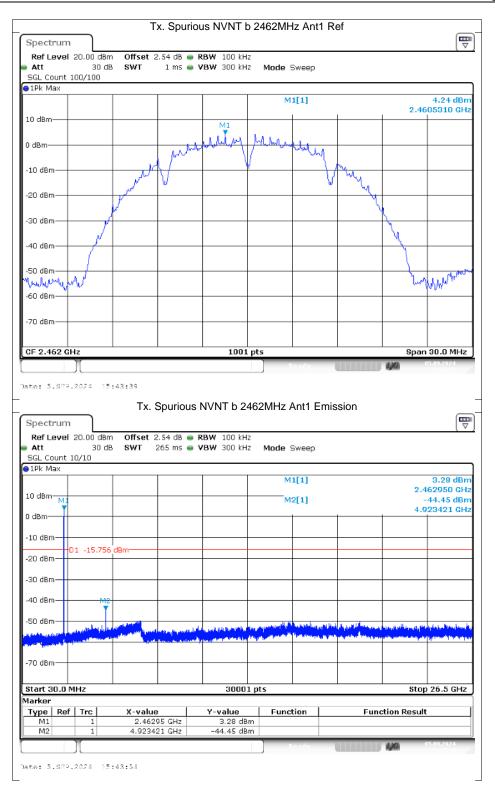


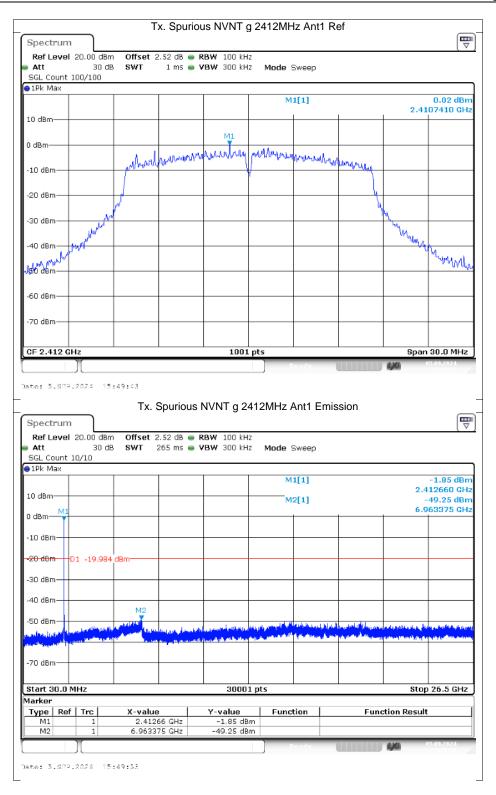
Conducted RF Spurious Emission

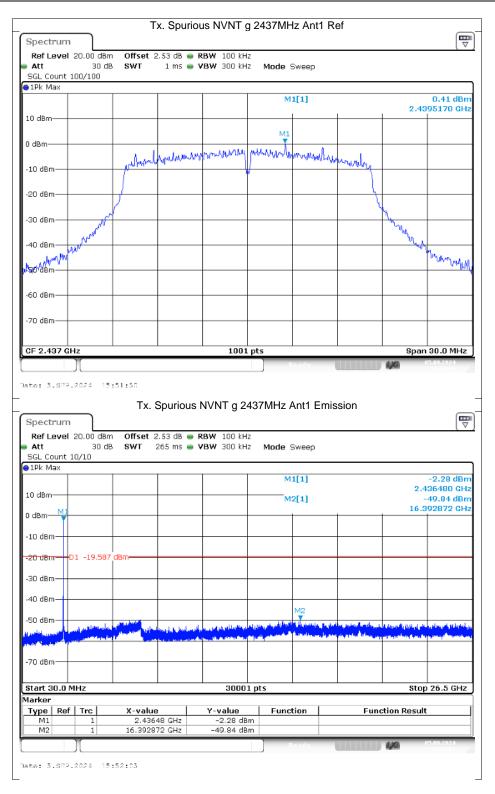
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.78	-20	Pass
NVNT	b	2437	Ant1	-51.92	-20	Pass
NVNT	b	2462	Ant1	-48.69	-20	Pass
NVNT	g	2412	Ant1	-49.27	-20	Pass
NVNT	g	2437	Ant1	-50.25	-20	Pass
NVNT	g	2462	Ant1	-48.54	-20	Pass
NVNT	n20	2412	Ant1	-48.88	-20	Pass
NVNT	n20	2437	Ant1	-48.47	-20	Pass
NVNT	n20	2462	Ant1	-49.9	-20	Pass

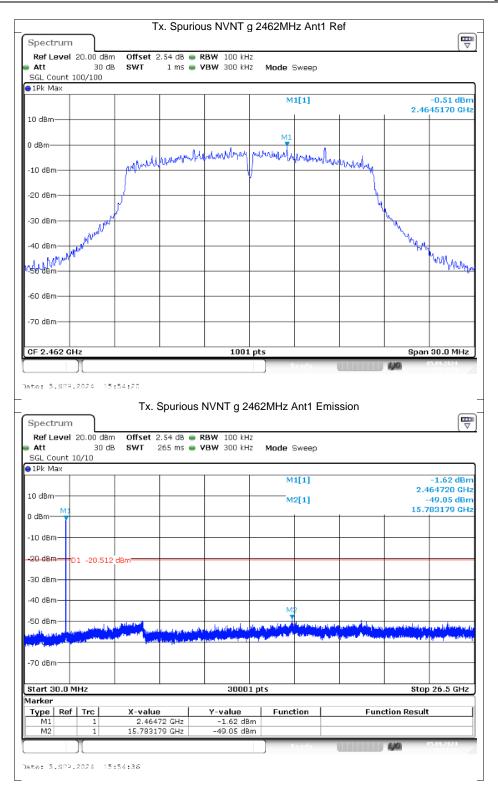


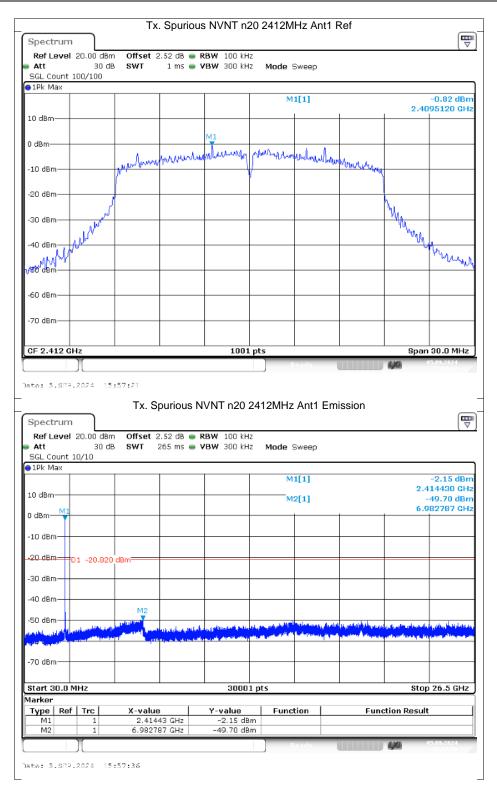




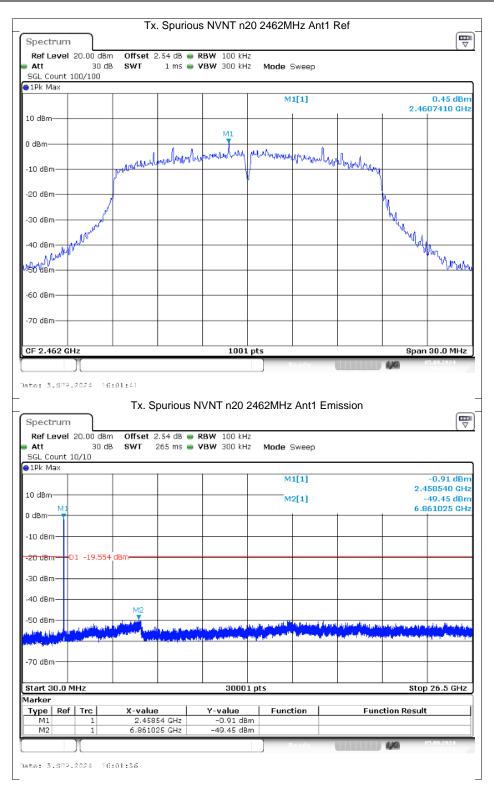








Spectrun	1)	17.		s NVNT n2(
Ref Leve Att	l 20.00 dBr 30 dB			RBW 100 kHz VBW 300 kHz	Mode 9	Sweep			
SGL Count 1Pk Max	100/100								
					M	1[1]			-0.92 dBr
10 dBm							_	2.4	1332540 GH
0 dBm			M1						_
		Marshall	whendre	annow may m	and the second	magan	manusle.		
-10 dBm—		page 11		V V			- · · · 4	^w w(
-20 dBm									_
	J H	n i						h.	
-30 dBm	and N							- Ma	N. Marina
	Ann							- Well	A I
-40 dBm	v ^m								The
,₩^^ Ago/dBm—									_ minter 1
-60 dBm									
-70 dBm									
CF 2.437 (BHz			1001 p	ots			Spa	an 30.0 MHz
	2024 15 1		urious N	VNT n20 24	437MHz	oady Ant1 E	mission	4)4	05.09.2024
Spectrun Ref Leve Att	n I 20.00 dBn 30 df	Tx. Sp	53 dB 👄 F	VNT n20 24 RBW 100 kHz 7BW 300 kHz	437MHz Mode S		mission	1.jKl)	05.03.2024
Spectrun Ref Leve	n I 20.00 dBn 30 df	Tx. Sp	53 dB 👄 F	RBW 100 kHz			Emission	4)K)	C.09.2024
Spectrun Ref Leve Att SGL Count	n I 20.00 dBn 30 df	Tx. Sp	53 dB 👄 F	RBW 100 kHz	Mode S		mission		-2.24 dBr
Spectrun Ref Leve Att SGL Count	n I 20.00 dBn 30 df	Tx. Sp	53 dB 👄 F	RBW 100 kHz	Mode 9	Gweep 1[1]	mission	2	-2.24 dBr .439130 GH
Spectrun Ref Leve Att SGL Count 1Pk Max 10 dBm	n I 20.00 dBn 30 df	Tx. Sp	53 dB 👄 F	RBW 100 kHz	Mode 9	Gweep	mission		-2.24 dBr
Spectrun Ref Leve Att SGL Count IPk Max	n I 20.00 dBn 30 df	Tx. Sp	53 dB 👄 F	RBW 100 kHz	Mode 9	Gweep 1[1]	Emission		-2.24 dBr .439130 GH -49.39 dBr
Spectrun Ref Leve Att SGL Count 1Pk Max 10 dBm	n I 20.00 dBn 30 df	Tx. Sp	53 dB 👄 F	RBW 100 kHz	Mode 9	Gweep 1[1]	Emission		-2.24 dBr .439130 GH -49.39 dBr
Spectrun Ref Leve Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm	n I 20.00 dBr 30 di 10/10	Tx. Sp	53 dB 👄 F	RBW 100 kHz	Mode 9	Gweep 1[1]			-2.24 dBr .439130 GH -49.39 dBr
Spectrun Ref Leve Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm	n I 20.00 dBn 30 df	Tx. Sp	53 dB 👄 F	RBW 100 kHz	Mode 9	Gweep 1[1]			-2.24 dBr .439130 GH -49.39 dBr
Spectrun Ref Leve Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm	n I 20.00 dBr 30 di 10/10	Tx. Sp	53 dB 👄 F	RBW 100 kHz	Mode 9	Gweep 1[1]			-2.24 dBr .439130 GH -49.39 dBr
Spectrun Ref Leve Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm	n I 20.00 dBr 30 di 10/10	Tx. Sp n Offset 2. B SWT 2t	53 dB 👄 F	RBW 100 kHz	Mode 9	Gweep 1[1]			-2.24 dBr .439130 GH -49.39 dBr
Spectrun Ref Leve SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	n I 20.00 dBr 30 di 10/10	Tx. Sp	53 dB 👄 F	RBW 100 kHz yBW 300 kHz	Mode S M: M:	Sweep 1[1] 2[1]		6	-2.24 dBr .439130 GH -49.39 dBr .854848 GH
Spectrun Ref Leve Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	D1 -20.915	Tx. Sp	53 dB 👄 F	RBW 100 kHz YBW 300 kHz	Mode S M: M:	Sweep 1[1] 2[1]		6	-2.24 dBr .439130 GH -49.39 dBr .854848 GH
Spectrun Ref Leve Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	n I 20.00 dBr 30 di 10/10	Tx. Sp	53 dB 👄 F	RBW 100 kHz YBW 300 kHz	Mode S M: M:	Sweep 1[1] 2[1]		6	-2.24 dBr .439130 GH -49.39 dBr .854848 GH
Spectrun Ref Leve Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	D1 -20.915	Tx. Sp	53 dB 👄 F	RBW 100 kHz YBW 300 kHz	Mode S M: M:	Sweep 1[1] 2[1]		6	-2.24 dBr .439130 GH -49.39 dBr .854848 GH
Spectrun Ref Leve Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm	D1 -20.919	Tx. Sp	53 dB 👄 F	RBW 100 kHz YBW 300 kHz	Mode S M: M:	Sweep 1[1] 2[1]			-2.24 dBr .439130 GH -49.39 dBr .854848 GH
Spectrun Ref Leve Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -70 dBm -70 dBm -70 dBm	D1 -20.919	Tx. Sp	53 dB 👄 F	RBW 100 kHz YBW 300 kHz	Mode S M: M:	Sweep 1[1] 2[1]			-2.24 dBr .439130 GH -49.39 dBr .854848 GH
Spectrun Ref Leve Att SGL Count 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm 30 dBm -70 dBm 50 d	D1 -20.919	Tx. Sp	53 dB 👄 F	RBW 100 kHz YBW 300 kHz	Mode S M: M:	Sweep 1[1] 2[1]			-2.24 dBr .439130 GH -49.39 dBr .854848 GH
Spectrun Ref Leve Att SGL Count IPk Max I0 dBm	The second secon	Tx. Sp	53 dB • • • •	BW 100 kHz BW 300 kHz Image: state stat	Mode S M M M M M M M M M M M M M M M M M M M	Sweep 1[1] 2[1]		6	-2.24 dBr .439130 GH -49.39 dBr .854848 GH
Spectrun Ref Leve Att SGL Count IPR Max I0 dBm ID dBm IO d	D1 -20.915	Tx. Sp	53 dB • • • •	RBW 100 kHz YBW 300 kHz	Mode S M M M M M M M M M M M M M M M M M M M	Sweep 1[1] 2[1]		6	-2.24 dBr .439130 GH -49.39 dBr .854848 GH



APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

Please refer to the report: E04A24080488F00701.

APPENDIX: PHOTOGRAPHS OF THE EUT

Please refer to the report: E04A24080488F00701.

END OF REPORT