

CFR 47 FCC PART 15 SUBPART C(DTS)

TEST REPORT

For

RV Propane Gas Detector

MODEL NUMBER: ICGD-2023

REPORT NUMBER: E01A23030778F00102

ISSUE DATE: March 28, 2023

FCC ID:2A3BE-ICGD-2023

Prepared for

**Wuhu Youfan E-Commerce Co.,Ltd.
No. 369 industrial Road, Anhui Xinwu Economic Development Zone, Wuhu County,
Wuhu City, China**

Prepared by

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Dong Guan Anci Electronic Technology Co., Ltd.**

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	March 28, 2023	Initial Issue	Duke

Summary of Test Results

Summary of Test Results			
Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c)	Pass
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 and 99% Occupied 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

*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: Wuhu Youfan E-Commerce Co.,Ltd.
Address: No. 369 industrial Road, Anhui Xinwu Economic Development Zone, Wuhu County, Wuhu City, China

Manufacturer Information

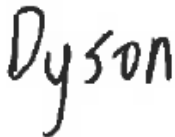
Company Name: Wuhu Youfan E-Commerce Co.,Ltd.
Address: No. 369 industrial Road, Anhui Xinwu Economic Development Zone, Wuhu County, Wuhu City, China

EUT Information

EUT Name: RV Propane Gas Detector
Model: ICGD-2023
Brand: Shyion
Sample Received Date: March 22, 2023
Sample Status: Normal
Sample ID: A23030778 001
Date of Tested: March 23, 2023 to March 28, 2023

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C(DTS)	Pass

Prepared By:



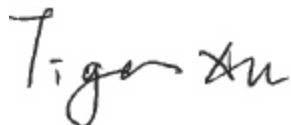
Dyson
Project Engineer

Checked By:



Duke
Project Engineer

Approved By:



Tiger
Laboratory Supervisor

2. TEST METHODOLOGY

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

3. FACILITIES AND ACCREDITATION

Site Description

Name of Firm : Dong Guan Anci Electronic Technology Co., Ltd.
Site Location : 1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan,
Lake Hi-tech Industrial Development Zone, Dongguan
City, evelopment Zone, Dongguan City, Guangdong Pr., China.

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:

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

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions from the AC mains power ports	0.009 MHz ~ 0.15 MHz	2	4.00
Conducted emissions from the AC mains power ports	0.15 MHz ~ 30 MHz	2	3.62
Radiated emissions	9kHz ~ 30MHz	2	2.20
Radiated emissions	30 MHz ~ 1 GHz	2	3.16
Radiated emissions	1 GHz ~ 18 GHz	2	5.64
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		RV Propane Gas Detector
Model		ICGD-2023
Ratings		DC 12V
Power Supply	DC	12V

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2412 MHz to 2462 MHz
Support Standards:	802.11 b/g/n
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 IEEE 802.11n-HT40: 7
Maximum Peak Power:	IEEE 802.11b: 15.91dBm IEEE 802.11g: 6.25 dBm IEEE 802.11n-HT20: 6.04 dBm IEEE 802.11n-HT40: 4.96 dBm
Antenna Type:	PCB antenna
Antenna Gain:	1.37 dBi

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	/	/

Channel List for 802.11n (40 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	5	2432	7	2442	9	2452
4	2427	6	2437	8	2447	/	/

5.3. MAXIMUM AVERAGE EIRP

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)	Maximum AVG EIRP (dBm)
b	2412 ~ 2462	1-11[11]	15.91	17.21
g	2412 ~ 2462	1-11[11]	6.25	7.55
n HT20	2412 ~ 2462	1-11[11]	6.04	7.34
n HT40	2422 ~ 2452	3-9[7]	4.96	6.26

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
n HT40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Software		Wifi Test Tool v1.6.0 release					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		
		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	1	30	30	30	/		
802.11g	1	15	15	15			
802.11n HT20	1	15	15	15			
802.11n HT40	1	/			15	15	15

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

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802.11g mode: 6 Mbps
 802.11n HT20 mode: MCS0
 802.11n HT40 mode: MCS0

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	PCB antenna	1.3

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
IEEE 802.11g	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
Note: 1.BT&WLAN 2.4G can't transmit simultaneously. (declared by client)		

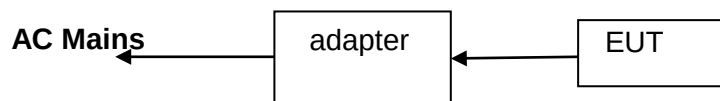
Note: The value of the antenna gain was declared by customer.

5.7. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit

Equipment	Manufacturer	Model No.
Adapter	GQ	GQ18-120150-CC

5.8. SETUP DIAGRAM



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	US40240623	2022-10-29	2023-10-28
RF Test Software	MWRF-test	MTS 8310	N/A	N/A	N/A
Radio Frequency control box	MWRF-test	MW200-RFCB	MW220111 ANCI	2022-05-13	2023-05-12
Radio Frequency control box	MWRF-test	MW200-RFCB 2#	/	2022-05-13	2023-05-12

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	100302	2022/5/13	2023/5/12
Bilog Antenna	Schwarzbeck	VULB9163	VULB9163-1290	2022/12/12	2023/12/11
RF Cable	ZKJC	ZT06S-NJ-NJ-11M	19060398	2022/5/13	2023/5/12
RF Cable	ZKJC	ZT06S-NJ-NJ-0.5M	19060400	2022/5/13	2023/5/12
RF Cable	ZKJC	ZT06S-NJ-NJ-2.5M	19060404	2022/5/13	2023/5/12
EMI Test Receiver	ROHDE&SCHWARZ	ESPI7	100502	2022/10/8	2023/10/7
3m Semi-anechoic Chamber	Keysight	9m*6m*6m	N/A	2021/11/13	2024/11/12

Test Equipment of Radiated emissions above 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Low noise Amplifiers	A-INFO	LA1018N4009	J1013130524001	2022/5/13	2023/5/12
Horn antenna	A-INFO	LB-10180-SF	J2031090612123	2022/5/15	2023/5/14
RF Cable	ZKJC	ZT26-NJ-NJ-11M	19060401	2022/5/13	2023/5/12
RF Cable	ZKJC	ZT26-NJ-NJ-2.5M	19060402	2022/5/13	2023/5/12
RF Cable	ZKJC	ZT26-NJ-NJ-0.5M	19060403	2022/5/13	2023/5/12
Spectrum Analyzer	Rohde & Schwarz	FSV40	US40240623	2022-10-29	2023-10-28
3m Semi-anechoic Chamber	Keysight	9m*6m*6m	N/A	2021/11/13	2024/11/12
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 Date
EMI Test Receiver	ROHDE&SCH WARZ	ESCI	101358	2022/5/13	2023/5/12
1# Shielded Room	chengyu	8m*4m*3.3m	N/A	2022/11/22	2025/11/21
LISN	ROHDE&SCH WARZ	ENV216	101413	2022/10/8	2023/10/7
Test Software	Farad	EZ-EMC (Ver.ANCI-3A1)	N/A	N/A	N/A
RF Cable	N/A	ZT06S-NJ-NJ-2.5M	19044022	2022/05/13	2023/05/12

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

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 ENVIRONMENT

Temperature	23.1°C	Relative Humidity	50%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data"

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
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Trace	Max hold
Sweep	Auto couple

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) 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 ENVIRONMENT

Temperature	24°C	Relative Humidity	52%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data"

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	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{DTS bandwidth}$
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 ENVIRONMENT

Temperature	24°C	Relative Humidity	52%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data"

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

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

LIMITS

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	$\geq 3 \times \text{RBW}$
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 measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
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 ENVIRONMENT

Temperature	23.5°C	Relative Humidity	52.6%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data"

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 ENVIRONMENT

Temperature	24°C	Relative Humidity	52%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data"

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)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) 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
		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
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

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 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 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), 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.

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.

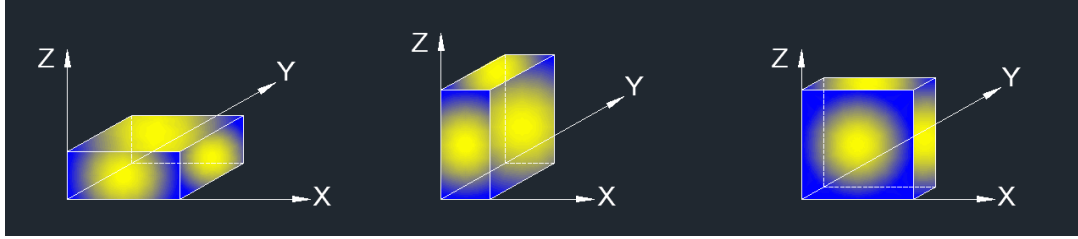
Above 1G

The setting of the spectrum analyser

RBW	1 MHz
VBW	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.

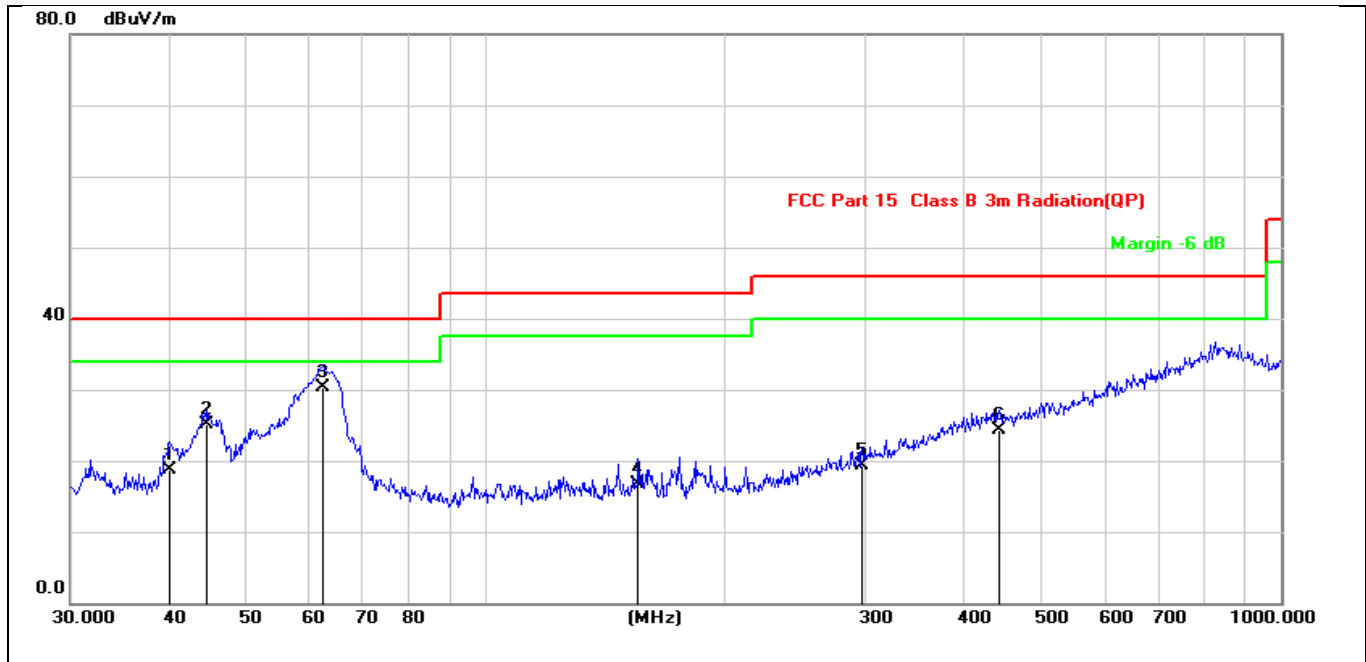
TEST ENVIRONMENT

Temperature	24°C	Relative Humidity	52%
Atmosphere Pressure	101kPa		

TEST RESULTS

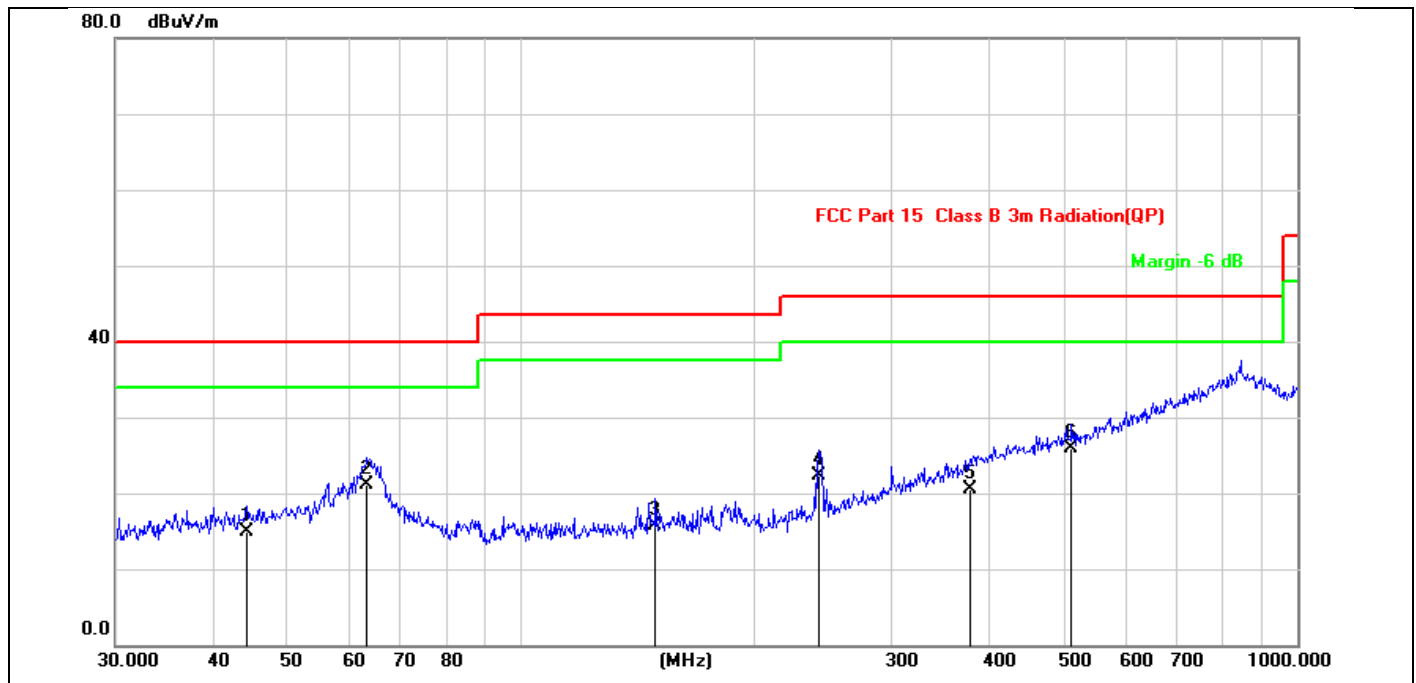
Radiated Spurious Emission :

The data of the mode (IEEE802.11b 2412MHz) are recorded in the following pages.



Site:	ChamberA-2	Antenna::	Vertical	Temperature(C):	24(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)	Test Time:		Humidity(%):	52%
EUT:	RV Propane Gas Detector	Power Rating:		2023/03/28 0:54:16	
M/N.:	ICGD-2023	Test Engineer:		AC 120V/60Hz	
Mode:	TX2412			Sunshine	
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	39.9942	29.20	-10.44	18.76	40.00	-21.24	QP	100	42	
2	44.5868	35.14	-10.12	25.02	40.00	-14.98	QP	100	135	
3 *	62.4314	39.20	-8.96	30.24	40.00	-9.76	QP	100	140	
4	155.3644	28.23	-11.58	16.65	43.50	-26.85	QP	100	120	
5	297.2241	26.37	-7.10	19.27	46.00	-26.73	QP	100	131	
6	441.7426	26.55	-2.23	24.32	46.00	-21.68	QP	100	147	



Site:	ChamberA-2	Antenna:: Horizontal	Temperature(C): 24(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)		Humidity(%): 52%
EUT:	RV Propane Gas Detector	Test Time:	2023/03/28 0:55:41
M/N.:	ICGD-2023	Power Rating:	AC 120V/60Hz
Mode:	TX2412	Test Engineer:	Sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	44.2752	25.06	-10.12	14.94	40.00	-25.06	QP	200	120	
2 *	63.3132	30.00	-8.97	21.03	40.00	-18.97	QP	200	134	
3	148.9625	26.90	-11.26	15.64	43.50	-27.86	QP	200	78	
4	241.6763	32.28	-10.05	22.23	46.00	-23.77	QP	200	75	
5	378.5843	24.67	-4.07	20.60	46.00	-25.40	QP	200	214	
6	511.8352	26.87	-1.06	25.81	46.00	-20.19	QP	200	203	

Above 1GHz:

All the modulation modes were tested the data of the worst mode (TX 802.11b) are recorded in the following pages and the others modulation methods do not exceed the limits. The frequency range from 1GHz to 25GHz is investigated.

Operation Mode: 802.11g Lowest

Test Date : 2023/03/28

Test Voltage: AC 120V/60Hz

Test by: Sunshine

Freq. (MHz)	Ant. Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4824	V	65.3	45.69	74	54	-8.7	-8.31
7236	V	60.32	41.36	74	54	-13.68	-12.64
9648	V	58.6	40.66	74	54	-15.4	-13.34
12060	V	55.69	41.25	74	54	-18.31	-12.75
14472	V	55.32	40.25	74	54	-18.68	-13.75
16884	V	55.69	39.58	74	54	-18.31	-14.42
4824	H	65.8	45.96	74	54	-8.2	-8.04
7236	H	60.35	41.58	74	54	-13.65	-12.42
9648	H	58.47	40.23	74	54	-15.53	-13.77
12060	H	57.69	38.71	74	54	-16.31	-15.29
14472	H	55.32	36.48	74	54	-18.68	-17.52
16884	H	56.32	38.69	74	54	-17.68	-15.31

Operation Mode: 802.11g Middle

Test Date : 2023/03/28

Test Voltage: AC 120V/60Hz

Test by: Sunshine

Freq. (MHz)	Ant. Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4874	V	64.32	44.99	74	54	-9.68	-9.01
7311	V	61.02	42.52	74	54	-12.98	-11.48
9688	V	59.63	40.69	74	54	-14.37	-13.31
12185	V	58.63	40.36	74	54	-15.37	-13.64
14622	V	58.47	40.69	74	54	-15.53	-13.31
17059	V	57.63	38.96	74	54	-16.37	-15.04
4874	H	63.14	64.32	74	54	-10.86	10.32
7311	H	61.23	42.58	74	54	-12.77	-11.42
9688	H	59.65	41.32	74	54	-14.35	-12.68
12185	H	58.47	40.02	74	54	-15.53	-13.98
14622	H	58.78	39.47	74	54	-15.22	-14.53
17059	H	58.18	39.65	74	54	-15.82	-14.35

Operation Mode: 802.11g Highest

Test Date : 2023/03/28

Test Voltage: AC 120V/60Hz

Test by: Sunshine

Freq. (MHz)	Ant. Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4924	V	63.02	43.19	74	54	-10.98	-10.81
7386	V	60.36	41.38	74	54	-13.64	-12.62
9848	V	58.69	40.25	74	54	-15.31	-13.75
12310	V	59.3	40.36	74	54	-14.7	-13.64
14772	V	58.47	39.85	74	54	-15.53	-14.15
17234	V	58.31	39.69	74	54	-15.69	-14.31
4924	H	62.96	43.69	74	54	-11.04	-10.31
7386	H	61.35	42.47	74	54	-12.65	-11.53
9848	H	59.03	40.36	74	54	-14.97	-13.64
12310	H	58.14	39.02	74	54	-15.86	-14.98
14772	H	58.63	39.47	74	54	-15.37	-14.53
17234	H	58.19	39.6	74	54	-15.81	-14.4

No others harmonics emissions are higher than 20 dB below the limits of 47 CFR Part 15.247.

Note: (1) All Readings are Peak Value and AV.

(2) Emission Level= Reading Level+Probe Factor +Cable Loss.

(3) Data of measurement within this frequency range shown “ – ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Band edge:

Spectrum Detector:

PK/AV

Test Date :

2023/03/28

Test By:

Sunshine

Temperature :

24 °C

Humidity :

52 %

IEEE 802.11b SISO Ant1										
Freq.	Ant. Pol.	Reading Level(dBuV/m)		Correct Factor	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
(MHz)	H/V	PK	AV	dB	PK	AV	PK	AV	PK	AV
<2400	H	84.36	63.69	-26.3	60.35	42.11	74	54	-13.65	-11.89
<2400	V	85.02	64.32	-26.1	59.55	39.49	74	54	-14.45	-14.51
>2483.5	H	84.36	65.47	-26.3	61.79	41.22	74	54	-12.21	-12.78
>2483.5	V	85.03	64.85	-26.1	60.36	39.08	74	54	-13.64	-14.92

IEEE 802.11g SISO Ant1										
Freq.	Ant. Pol.	Reading Level(dBuV/m)		Correct Factor	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
(MHz)	H/V	PK	AV	dB	PK	AV	PK	AV	PK	AV
<2400	H	84.02	63.36	-26.3	64.15	44.25	74	54	-9.85	-9.75
<2400	V	83.02	63.02	-26.1	60.69	40.69	74	54	-13.31	-13.31
>2483.5	H	84.13	63.18	-26.3	61.59	41.48	74	54	-12.41	-12.52
>2483.5	V	84.58	64.02	-26.1	60.33	42.79	74	54	-13.67	-11.21

IEEE 802.11n(HT20) SISO										
Freq.	Ant. Pol.	Reading Level(dBuV/m)		Correct Factor	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
(MHz)	H/V	PK	AV	dB	PK	AV	PK	AV	PK	AV
<2400	H	83.14	63.69	-26.3	62.97	44.02	74	54	-11.03	-9.98
<2400	V	83.69	64.02	-26.1	60.11	42.15	74	54	-13.89	-11.85
>2483.5	H	83.56	63.78	-26.3	62.46	42.34	74	54	-11.54	-11.66
>2483.5	V	84.03	64.58	-26.1	61.36	41.64	74	54	-12.64	-12.36

IEEE 802.11n(H40) SISO										
Freq.	Ant. Pol.	Reading Level(dBuV/m)		Correct Factor	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
(MHz)	H/V	PK	AV	dB	PK	AV	PK	AV	PK	AV
<2400	H	82.63	63.69	-26.3	62.97	44.02	74	54	-11.03	-9.98
<2400	V	81.12	64.02	-26.1	60.11	42.15	74	54	-13.89	-11.85
>2483.5	H	76.69	63.78	-26.3	62.46	42.34	74	54	-11.54	-11.66
>2483.5	V	75.99	64.58	-26.1	61.36	41.64	74	54	-12.64	-12.36

9. ANTENNA REQUIREMENT

REQUIREMENT

The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and 15.247.

FCC part 15C section 15.247 requirements:

Systems operating in the 2402-2480MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

DESCRIPTION

Pass

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

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

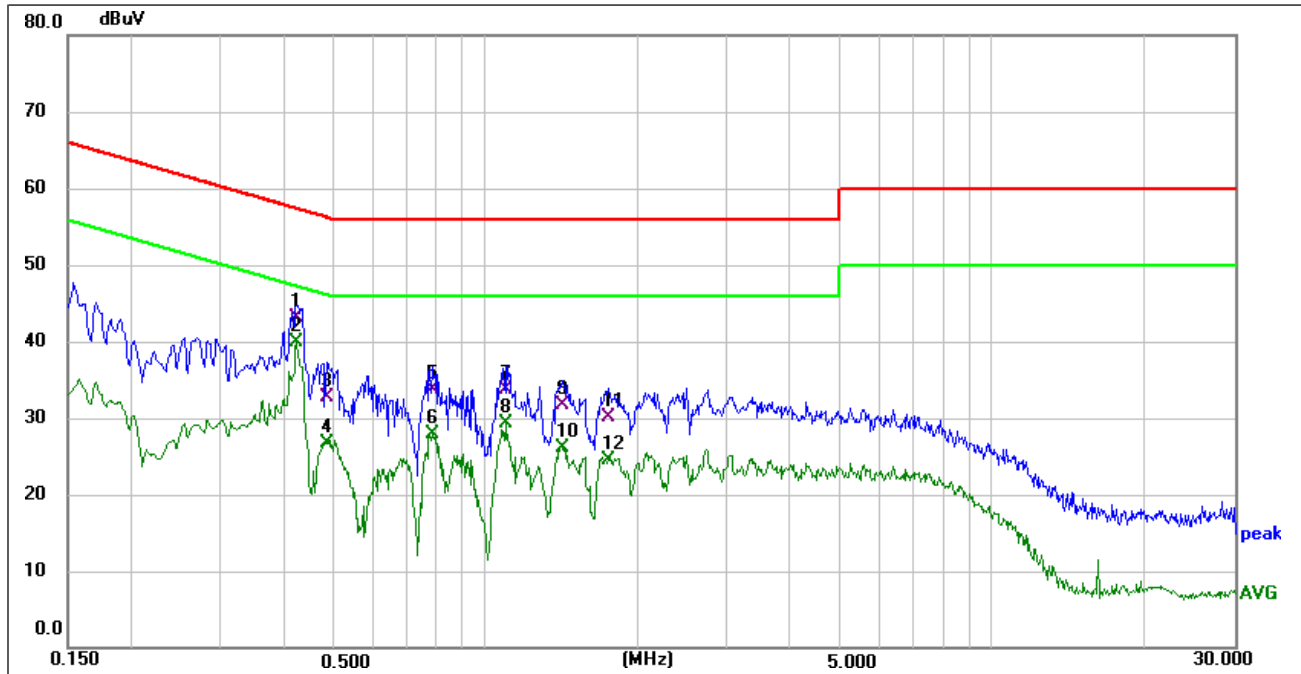
TEST PROCEDURE

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.

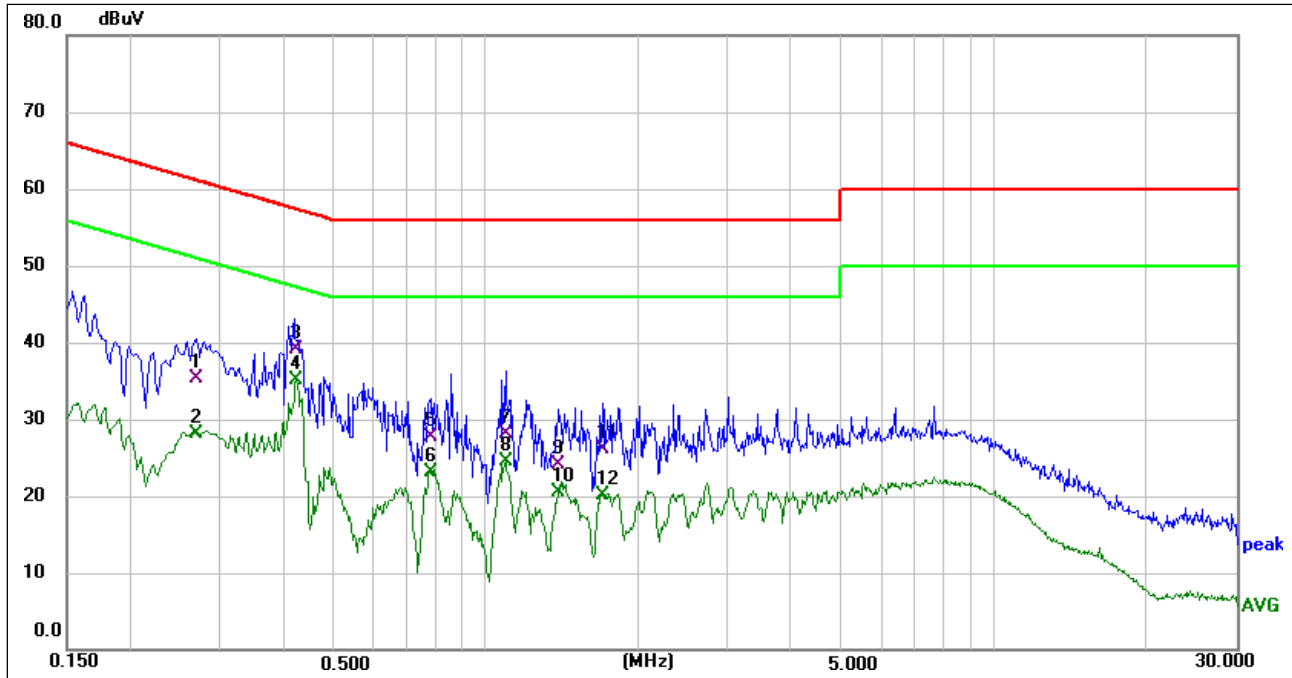
TEST ENVIRONMENT

Temperature	25°C	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

Site:		Phase: L1	Temperature(C): 23.5(C)
Limit:	FCC Part 15 C Conduction(QP)		Humidity(%): 52.6%
EUT:	RV Propane Gas Detector	Test Time:	2023-03-27 19:17:14
M/N.:	ICGD-2023	Power Rating:	AC 120V/60Hz
Mode:	WIFI mode	Test Engineer:	Sunshine
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.4220	32.55	10.60	43.15	57.41	-14.26	QP	
2 *	0.4220	29.22	10.60	39.82	47.41	-7.59	AVG	
3	0.4860	22.02	10.68	32.70	56.24	-23.54	QP	
4	0.4860	16.03	10.68	26.71	46.24	-19.53	AVG	
5	0.7860	23.96	9.79	33.75	56.00	-22.25	QP	
6	0.7860	18.16	9.79	27.95	46.00	-18.05	AVG	
7	1.0940	23.68	9.93	33.61	56.00	-22.39	QP	
8	1.0940	19.44	9.93	29.37	46.00	-16.63	AVG	
9	1.4220	21.65	10.00	31.65	56.00	-24.35	QP	
10	1.4220	16.01	10.00	26.01	46.00	-19.99	AVG	
11	1.7460	20.06	10.04	30.10	56.00	-25.90	QP	
12	1.7460	14.56	10.04	24.60	46.00	-21.40	AVG	



Site:	Phase:N	Temperature(C):23.5(C)
Limit: FCC Part 15 C Conduction(QP)	Test Time:	Humidity(%):52.6%
EUT: RV Propane Gas Detector	Power Rating:	2023-03-27 19:20:55
M/N.: ICGD-2023	Test Engineer:	AC 120V/60Hz
Mode: WIFI mode		Sunshine
Note:		

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.2700	24.99	10.32	35.31	61.12	-25.81	QP	
2	0.2700	17.86	10.32	28.18	51.12	-22.94	AVG	
3	0.4220	28.50	10.67	39.17	57.41	-18.24	QP	
4 *	0.4220	24.46	10.67	35.13	47.41	-12.28	AVG	
5	0.7820	17.98	9.77	27.75	56.00	-28.25	QP	
6	0.7820	13.30	9.77	23.07	46.00	-22.93	AVG	
7	1.0940	18.14	9.96	28.10	56.00	-27.90	QP	
8	1.0940	14.53	9.96	24.49	46.00	-21.51	AVG	
9	1.3900	14.06	10.00	24.06	56.00	-31.94	QP	
10	1.3900	10.51	10.00	20.51	46.00	-25.49	AVG	
11	1.7020	16.19	9.97	26.16	56.00	-29.84	QP	
12	1.7020	10.23	9.97	20.20	46.00	-25.80	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.

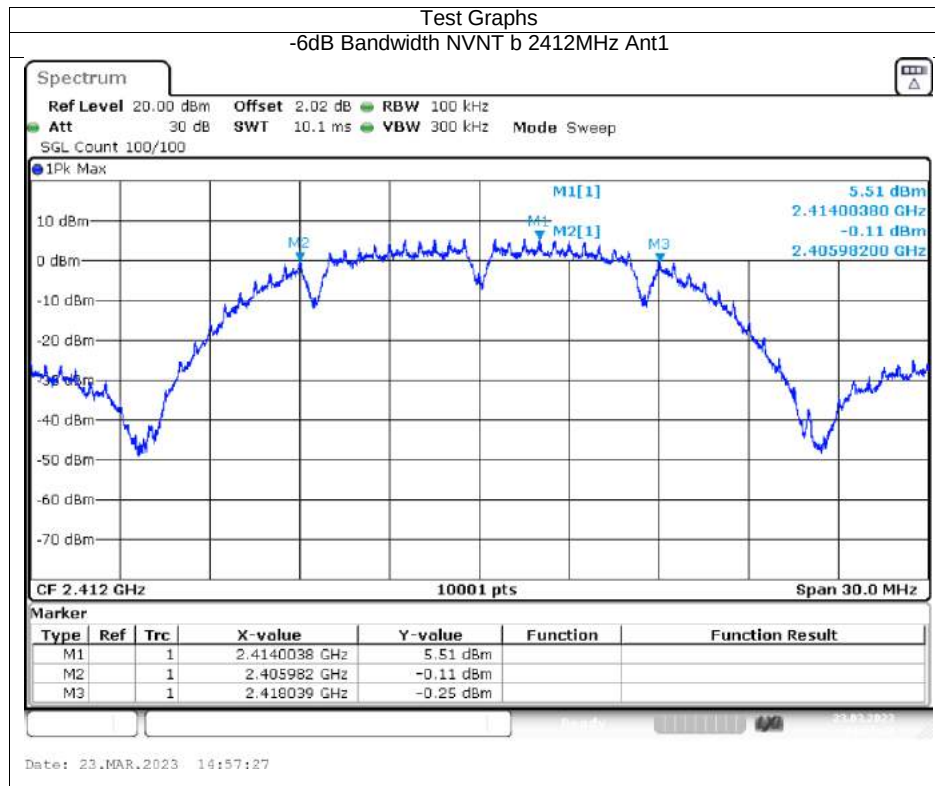
11. TEST DATA

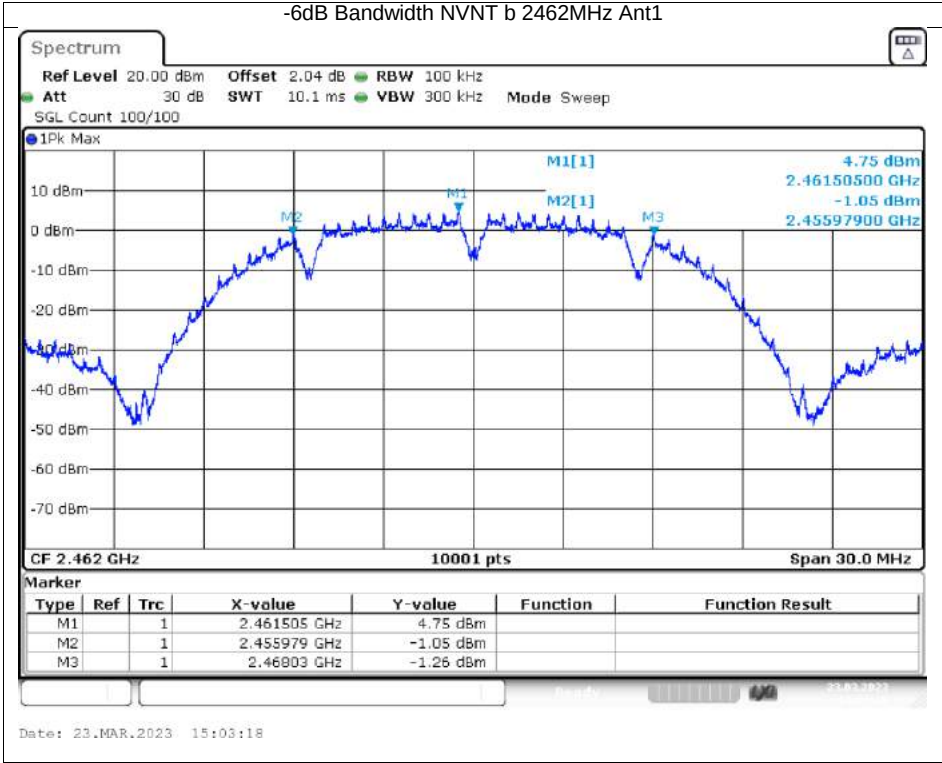
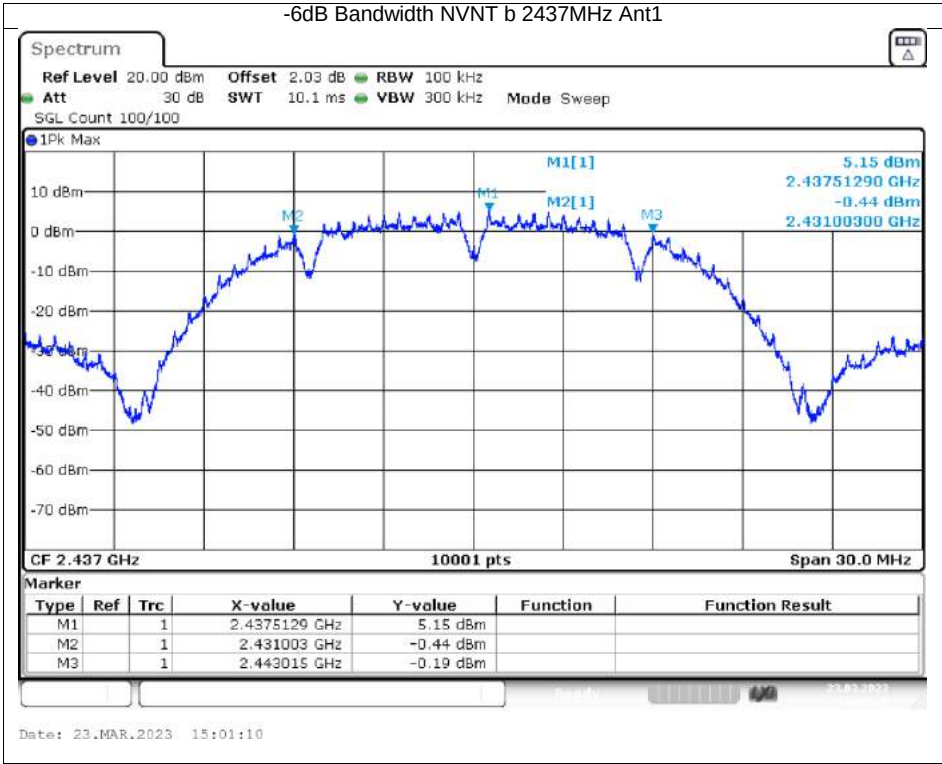
Maximum Conducted Output Power

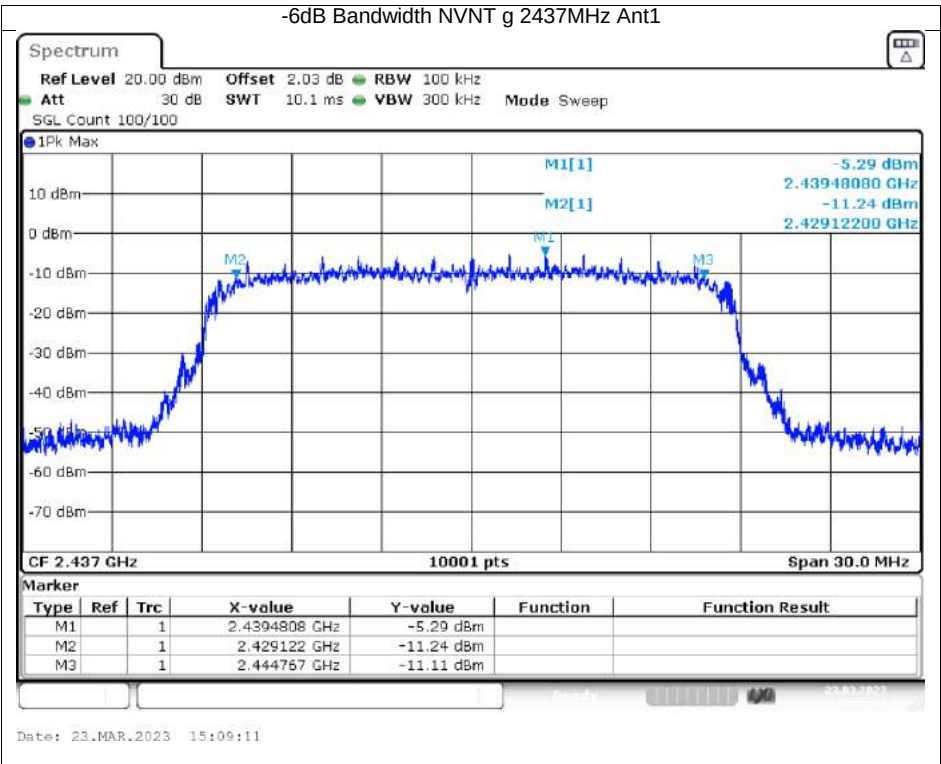
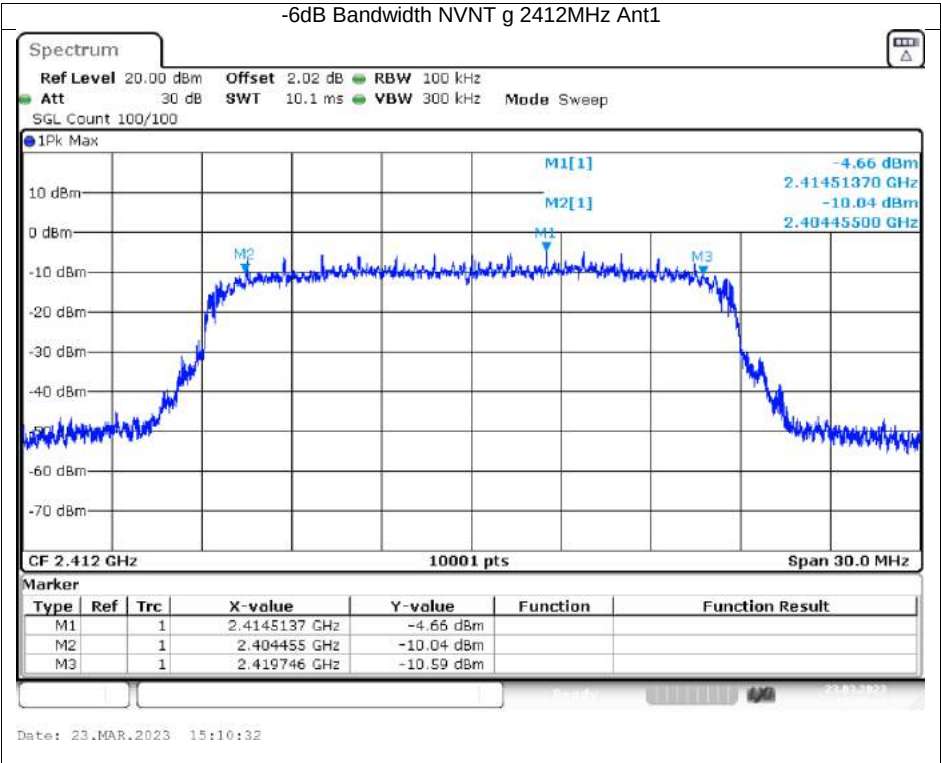
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.91	0	15.91	30	Pass
NVNT	b	2437	Ant1	15.37	0	15.37	30	Pass
NVNT	b	2462	Ant1	15.04	0	15.04	30	Pass
NVNT	g	2412	Ant1	6.25	0	6.25	30	Pass
NVNT	g	2437	Ant1	6.11	0	6.11	30	Pass
NVNT	g	2462	Ant1	5.5	0	5.5	30	Pass
NVNT	n20	2412	Ant1	6.04	0	6.04	30	Pass
NVNT	n20	2437	Ant1	5.81	0	5.81	30	Pass
NVNT	n20	2462	Ant1	5.29	0	5.29	30	Pass
NVNT	n40	2422	Ant1	4.96	0	4.96	30	Pass
NVNT	n40	2437	Ant1	4.54	0	4.54	30	Pass
NVNT	n40	2452	Ant1	3.92	0	3.92	30	Pass

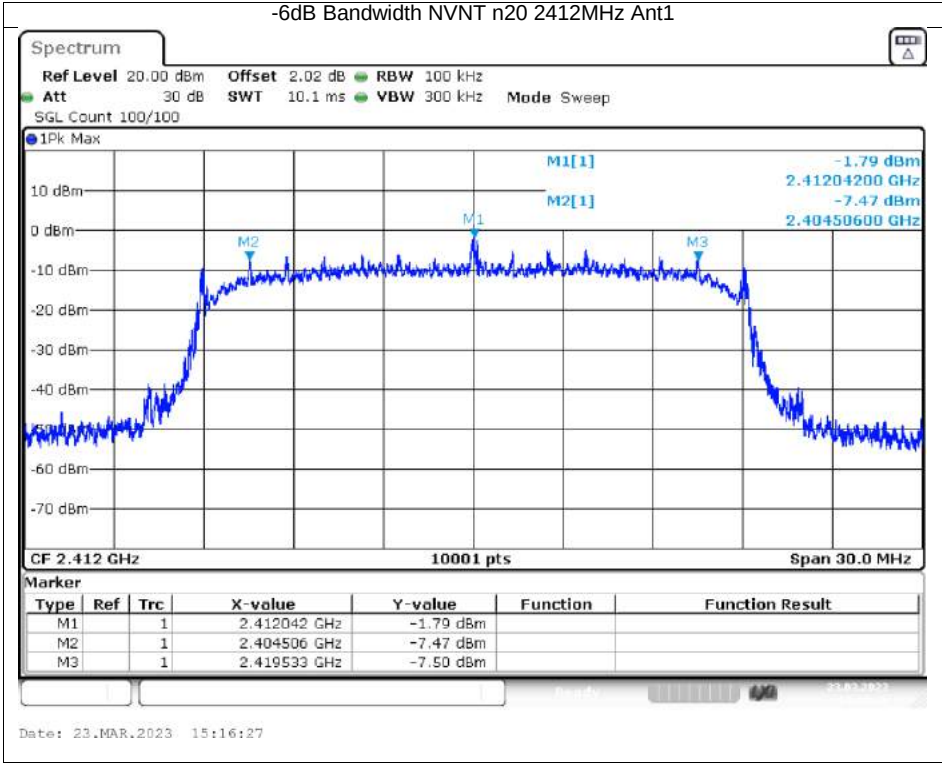
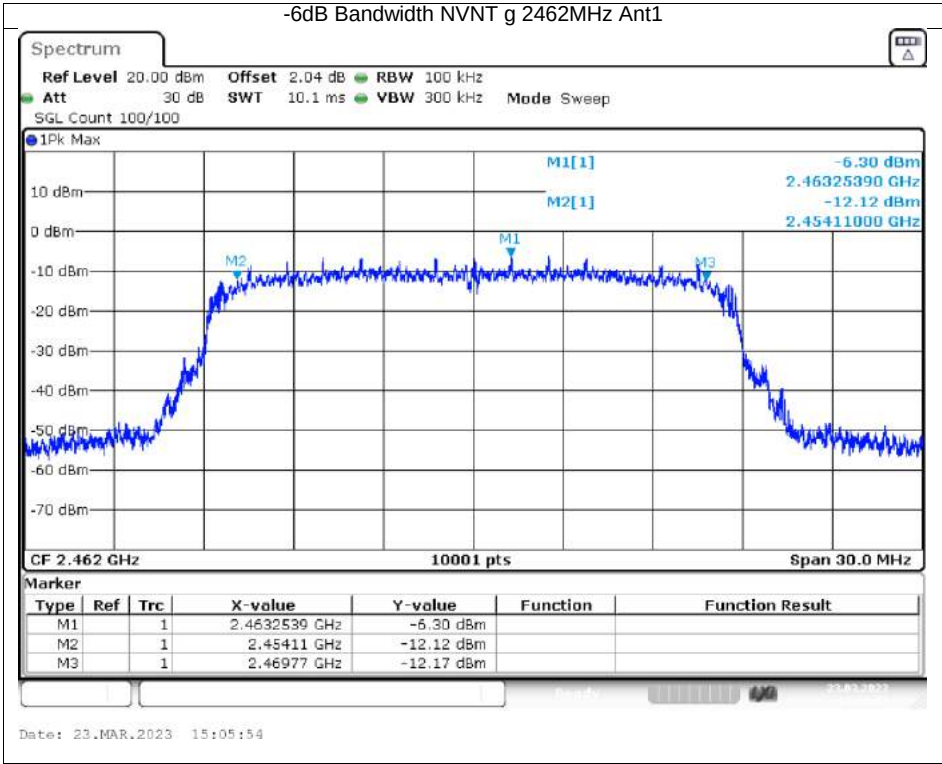
-6dB Bandwidth

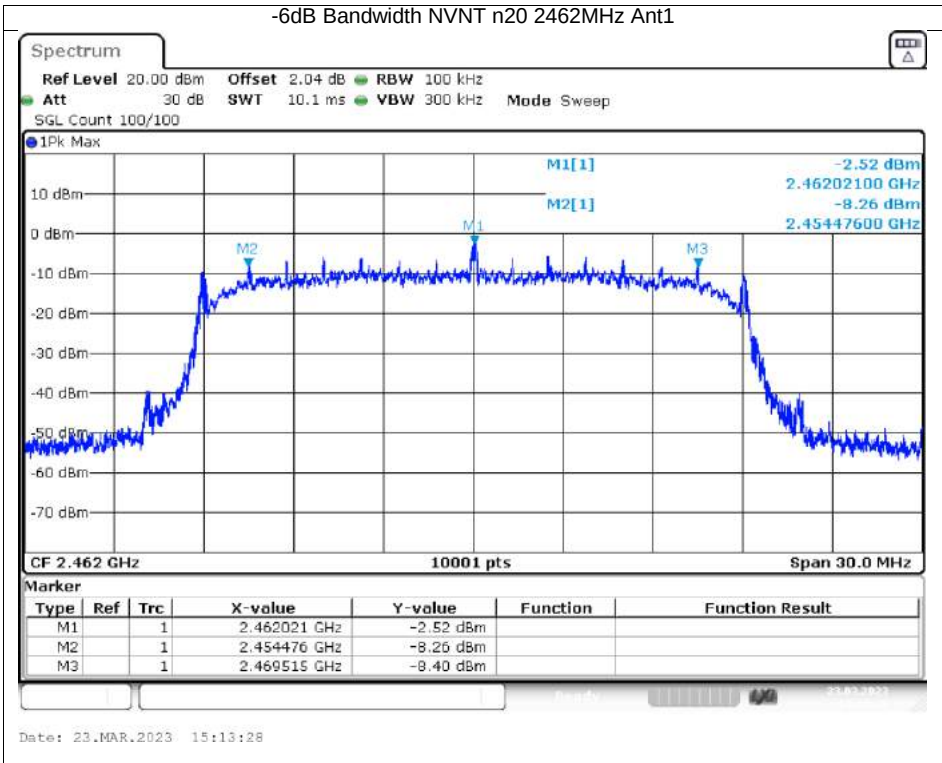
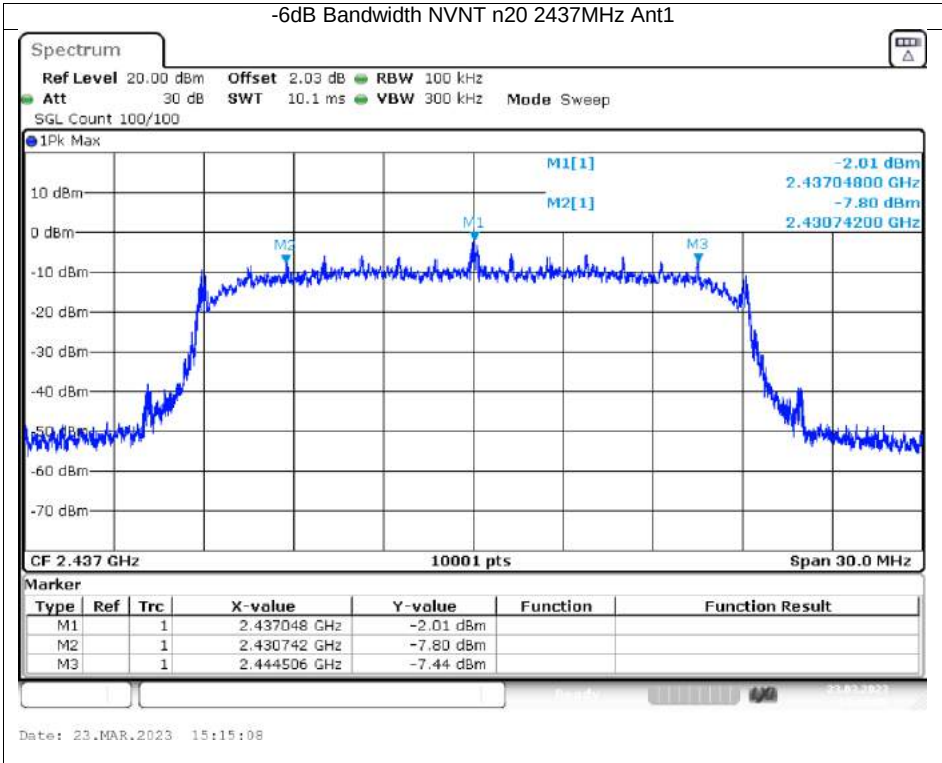
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	12.057	0.5	Pass
NVNT	b	2437	Ant1	12.012	0.5	Pass
NVNT	b	2462	Ant1	12.051	0.5	Pass
NVNT	g	2412	Ant1	15.291	0.5	Pass
NVNT	g	2437	Ant1	15.645	0.5	Pass
NVNT	g	2462	Ant1	15.66	0.5	Pass
NVNT	n20	2412	Ant1	15.027	0.5	Pass
NVNT	n20	2437	Ant1	13.764	0.5	Pass
NVNT	n20	2462	Ant1	15.039	0.5	Pass
NVNT	n40	2422	Ant1	35.106	0.5	Pass
NVNT	n40	2437	Ant1	35.094	0.5	Pass
NVNT	n40	2452	Ant1	35.01	0.5	Pass

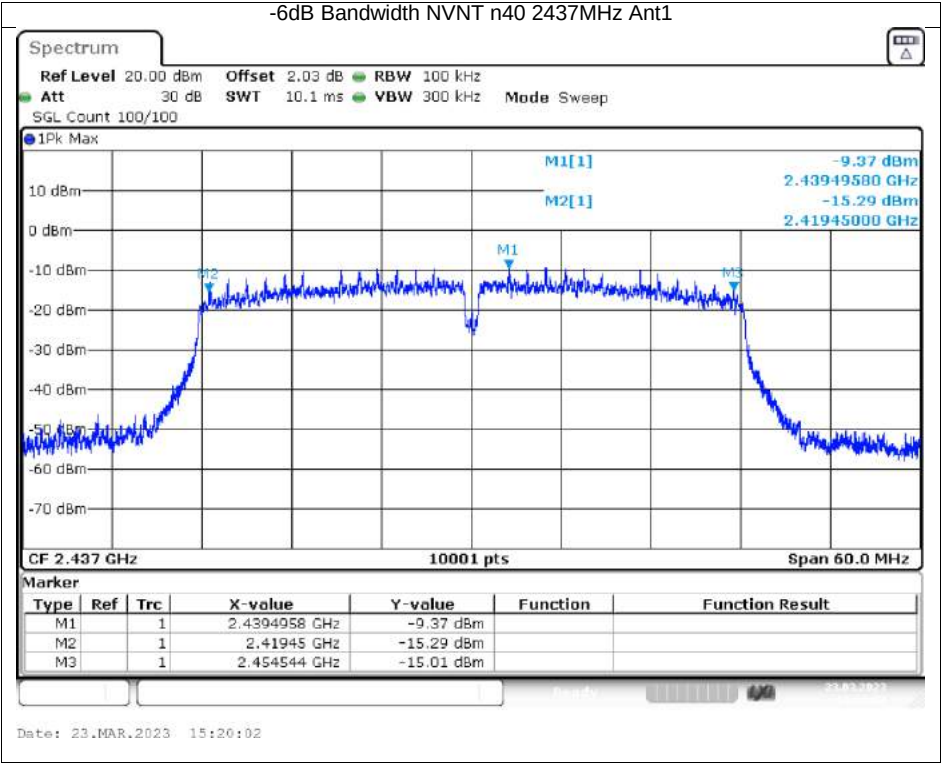
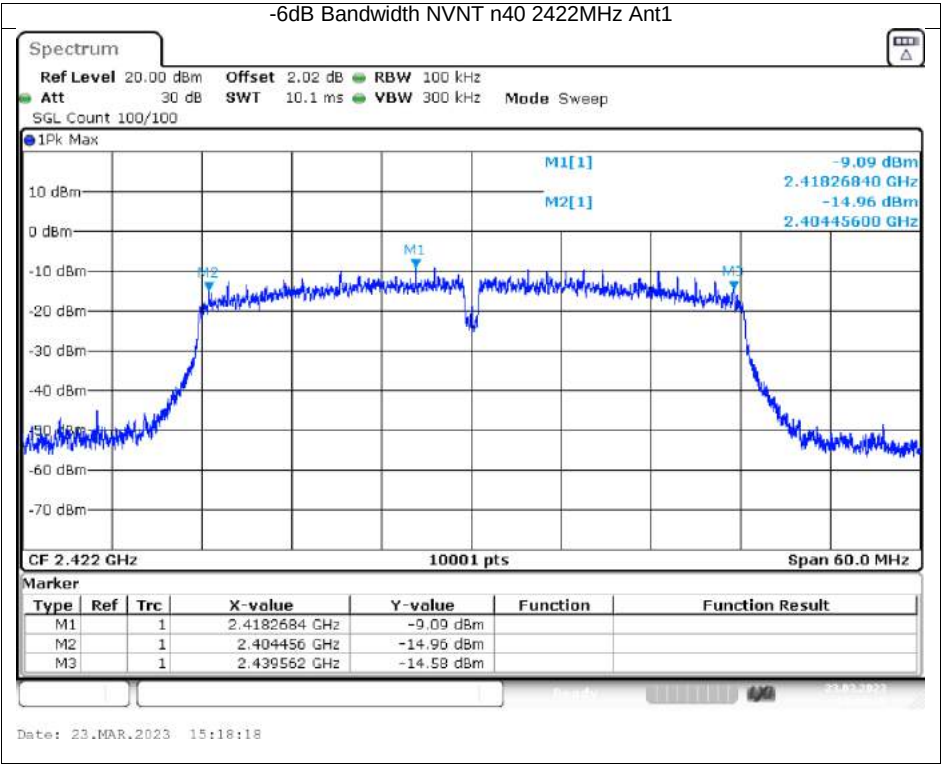


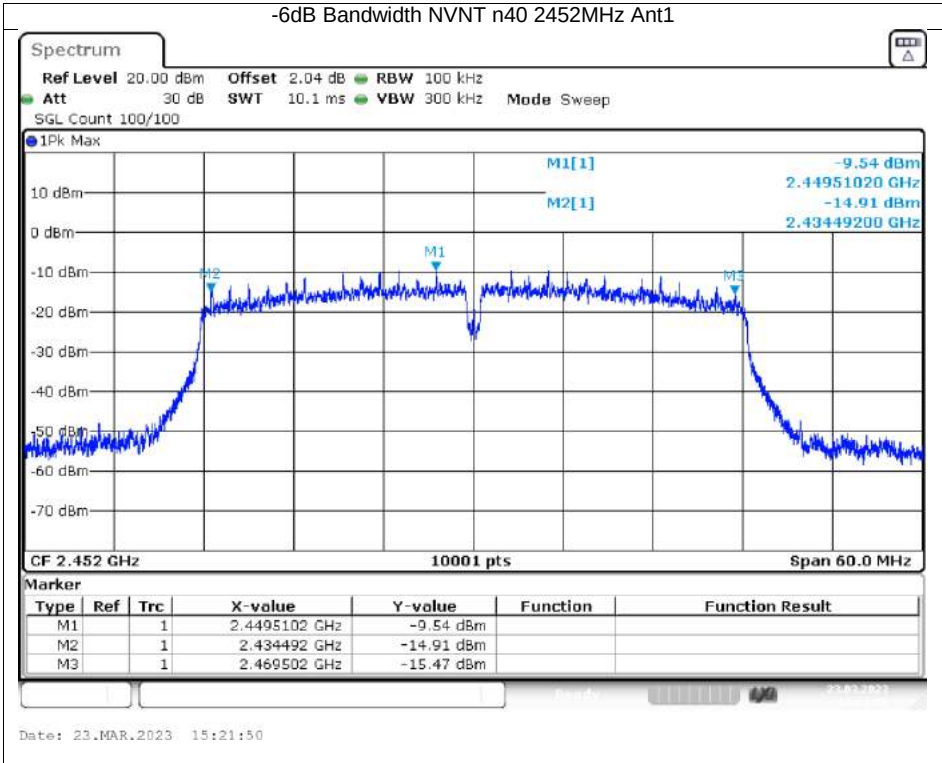






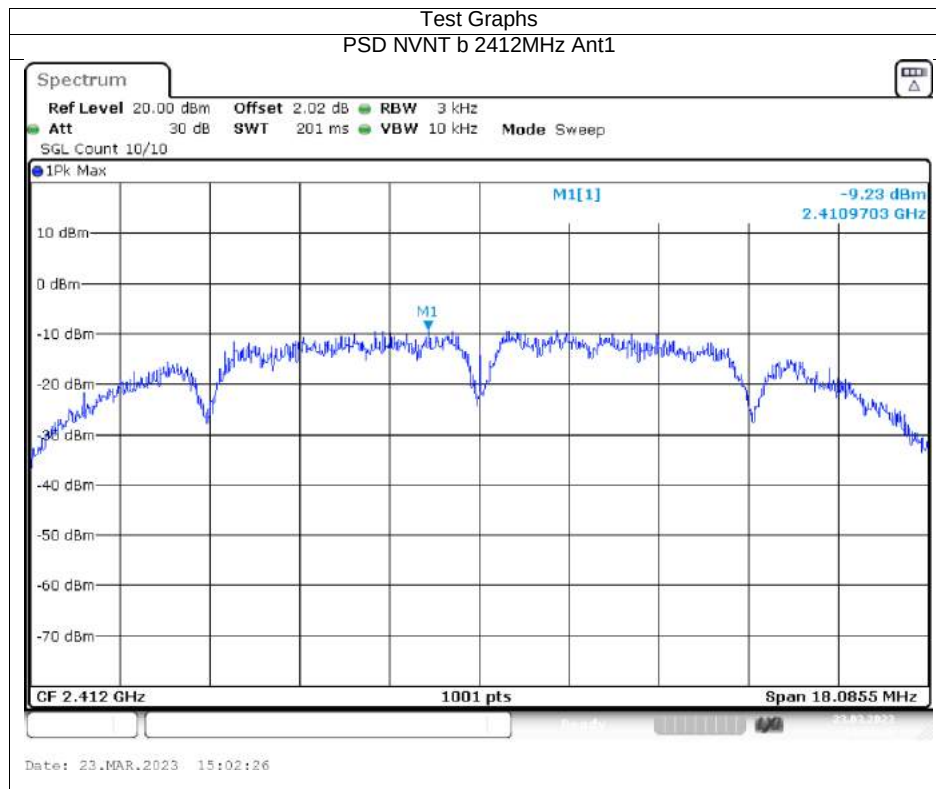


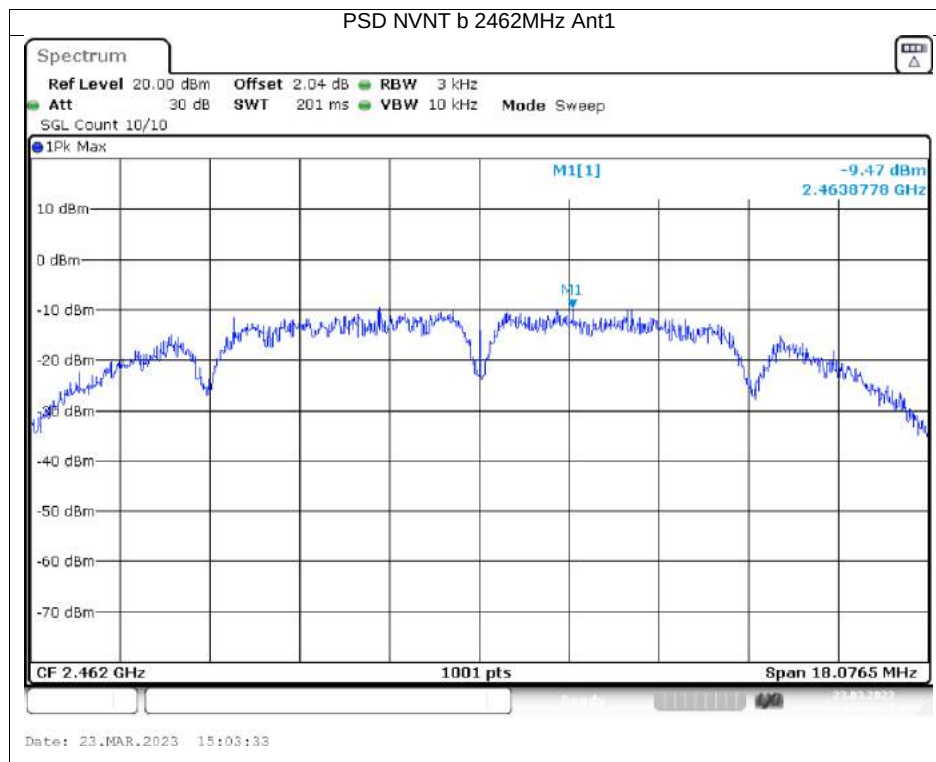
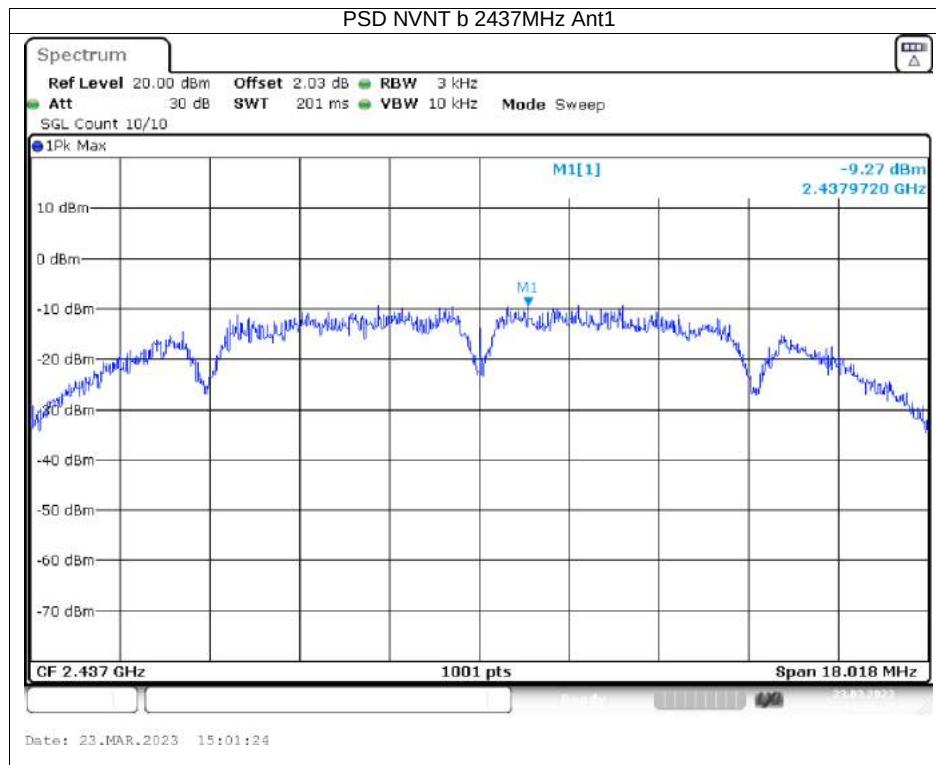


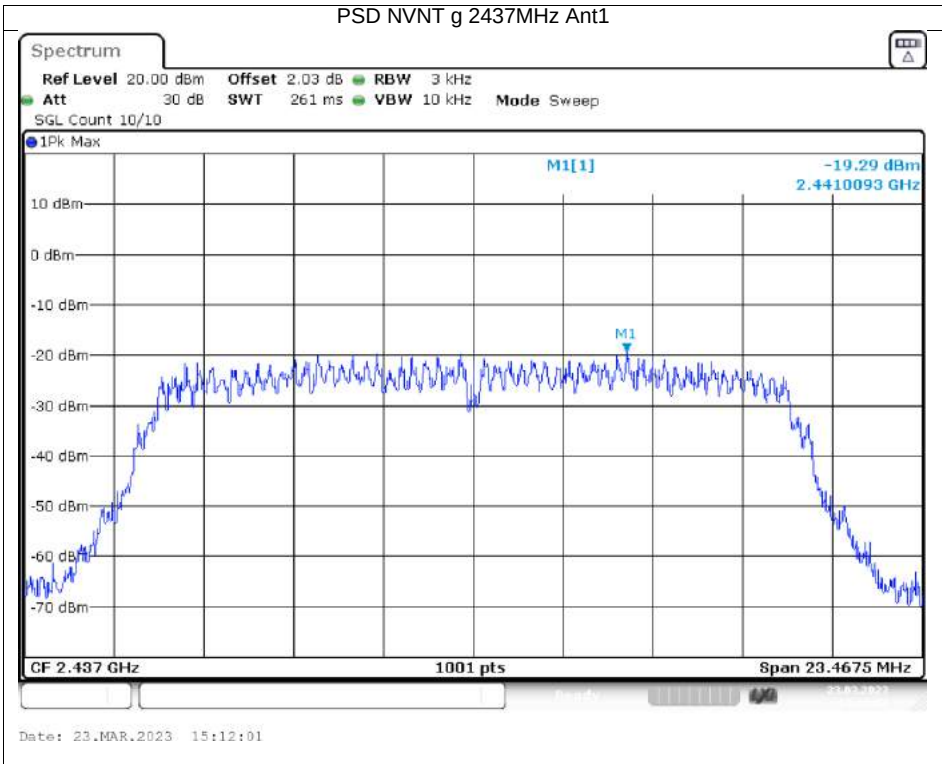
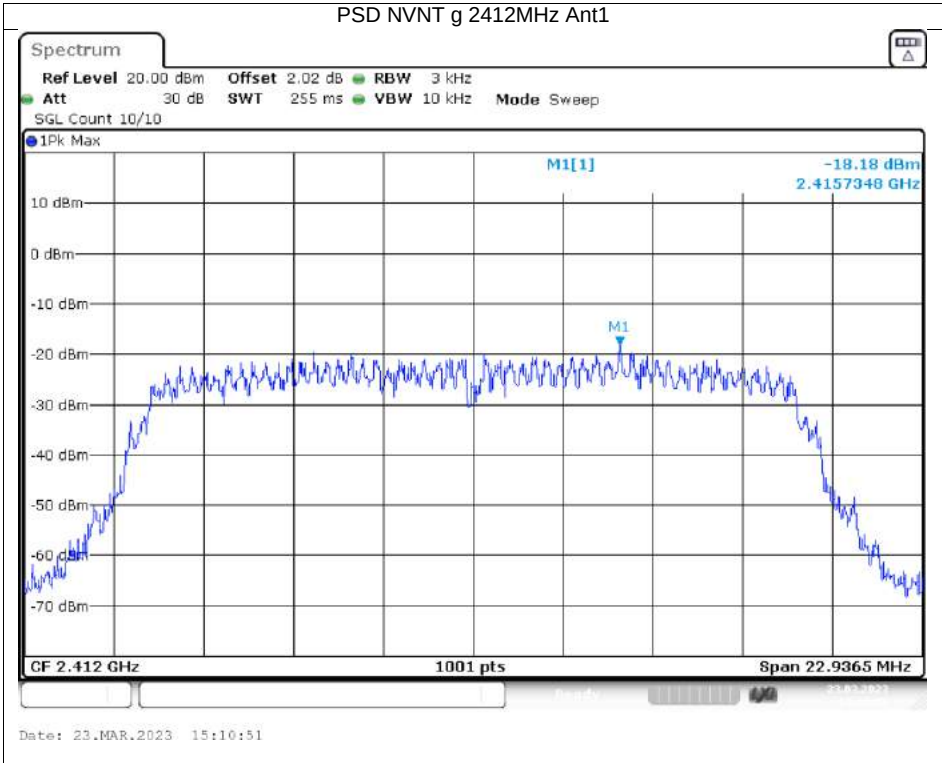


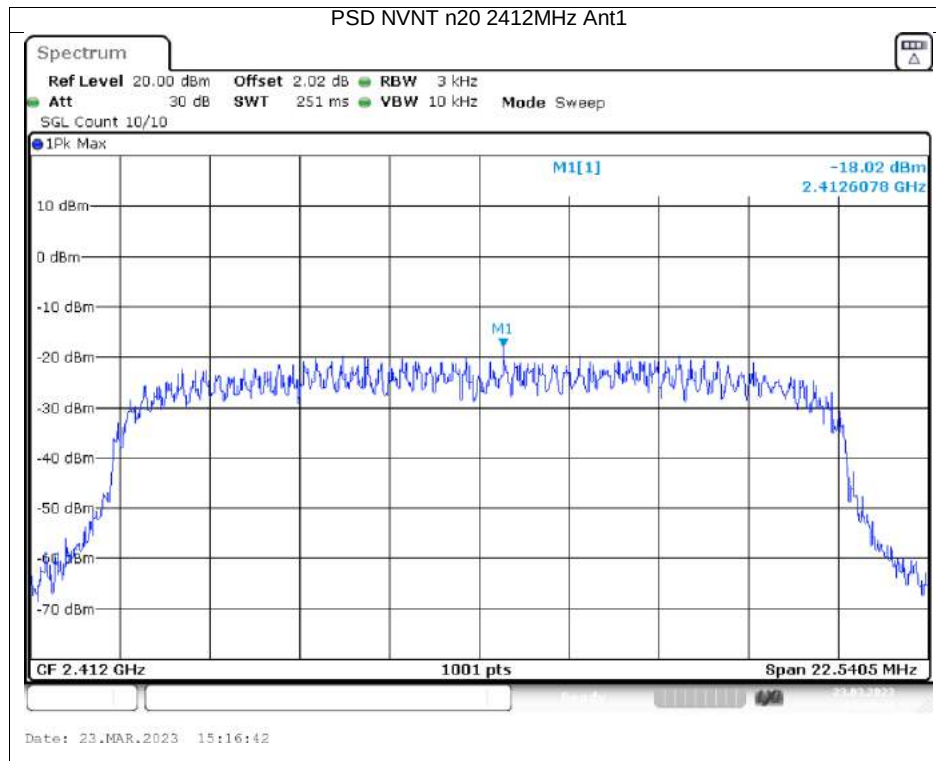
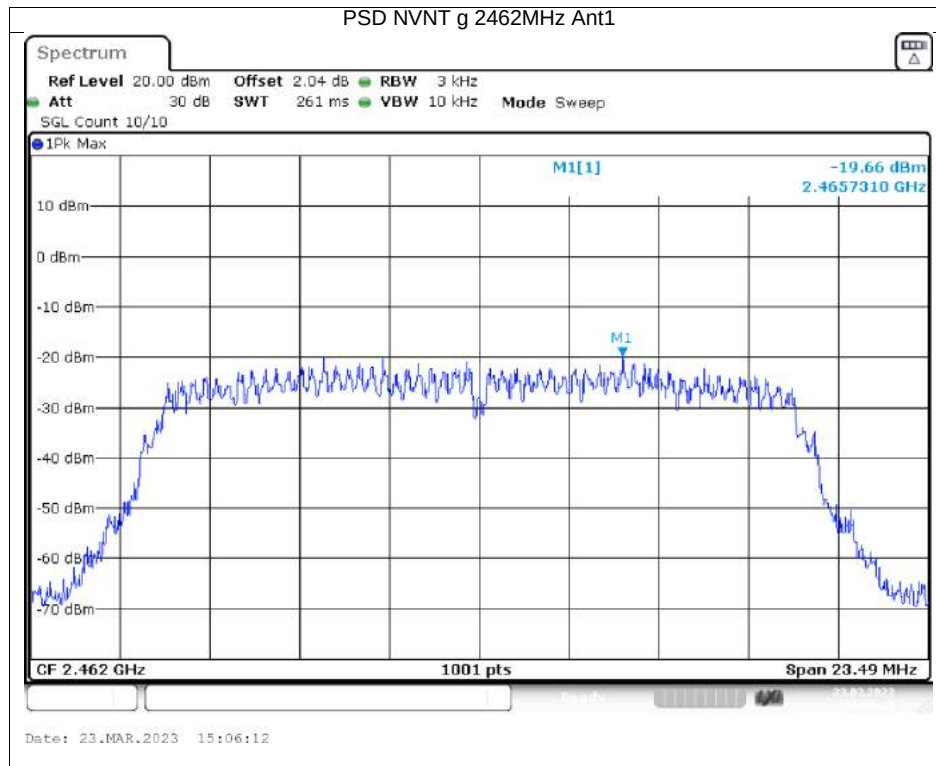
Maximum Power Spectral Density Level

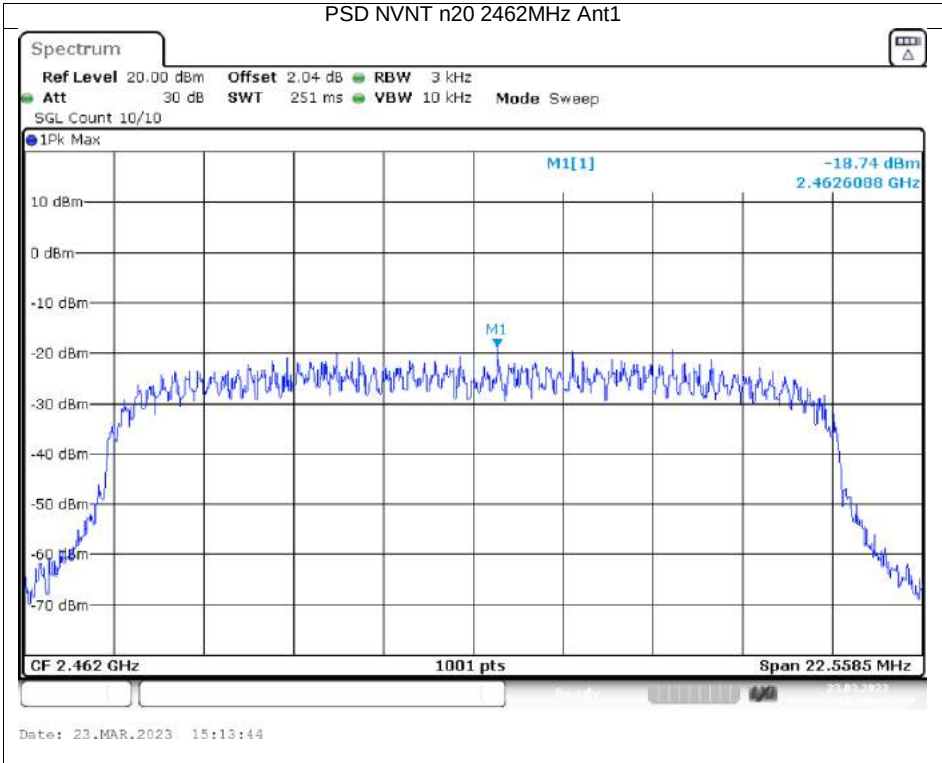
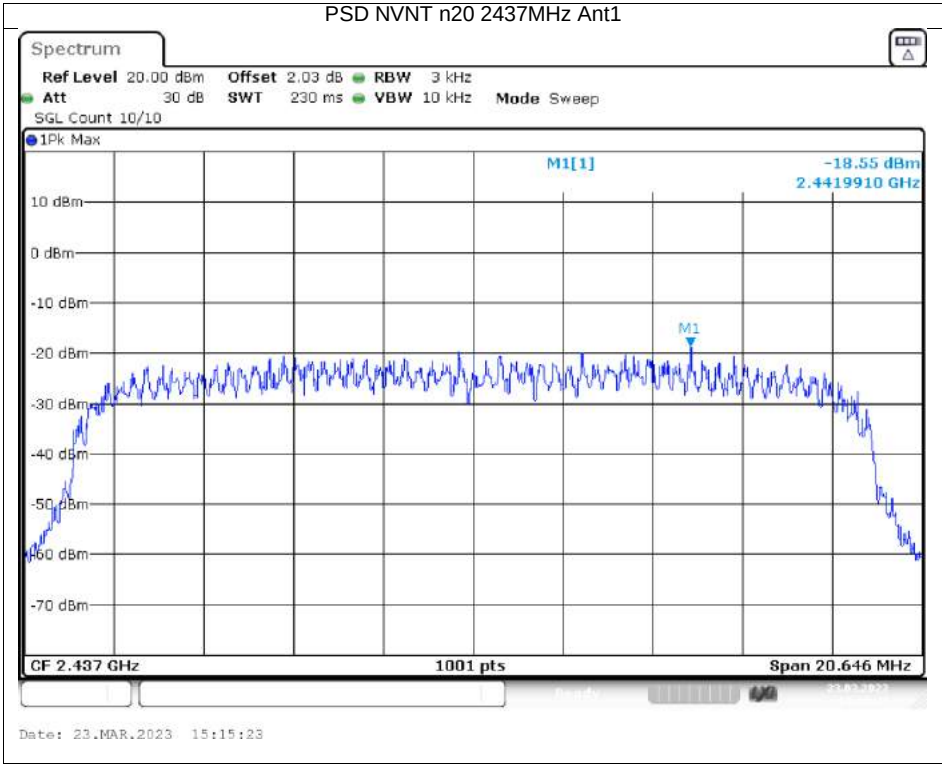
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-9.23	0	-9.23	8	Pass
NVNT	b	2437	Ant1	-9.27	0	-9.27	8	Pass
NVNT	b	2462	Ant1	-9.47	0	-9.47	8	Pass
NVNT	g	2412	Ant1	-18.18	0	-18.18	8	Pass
NVNT	g	2437	Ant1	-19.29	0	-19.29	8	Pass
NVNT	g	2462	Ant1	-19.66	0	-19.66	8	Pass
NVNT	n20	2412	Ant1	-18.02	0	-18.02	8	Pass
NVNT	n20	2437	Ant1	-18.55	0	-18.55	8	Pass
NVNT	n20	2462	Ant1	-18.74	0	-18.74	8	Pass
NVNT	n40	2422	Ant1	-22.17	0	-22.17	8	Pass
NVNT	n40	2437	Ant1	-22.97	0	-22.97	8	Pass
NVNT	n40	2452	Ant1	-23.53	0	-23.53	8	Pass

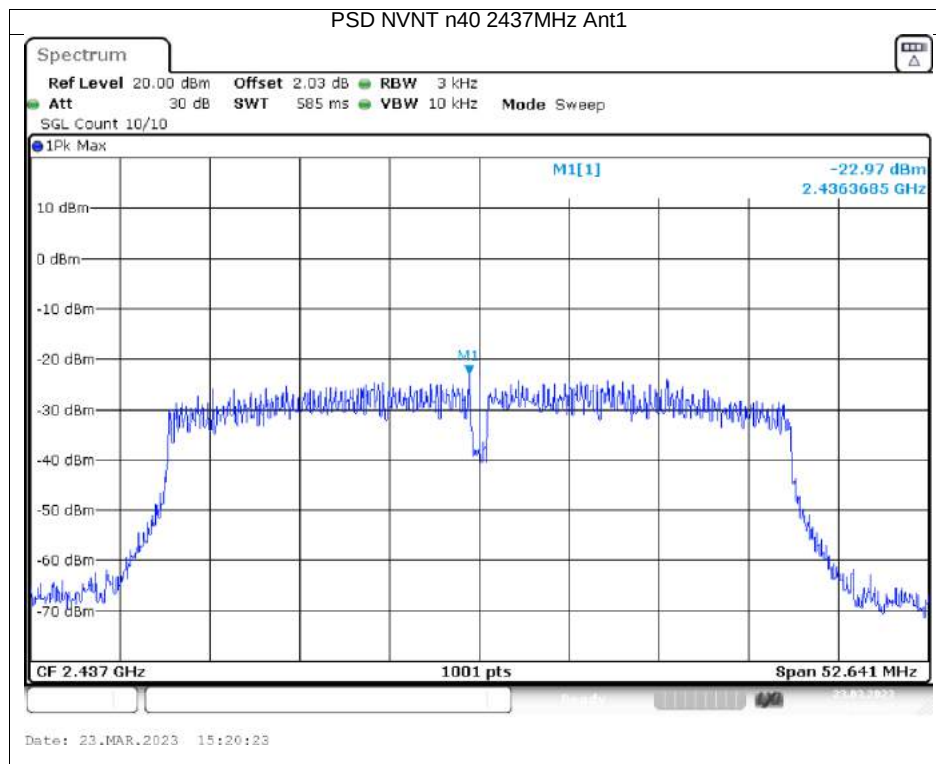
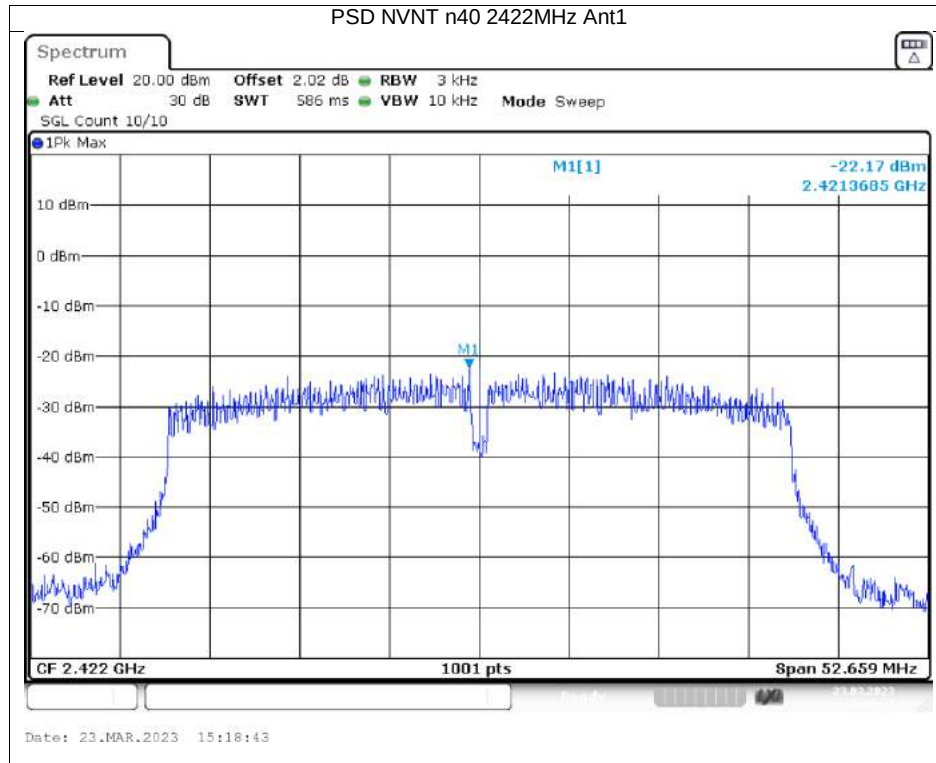


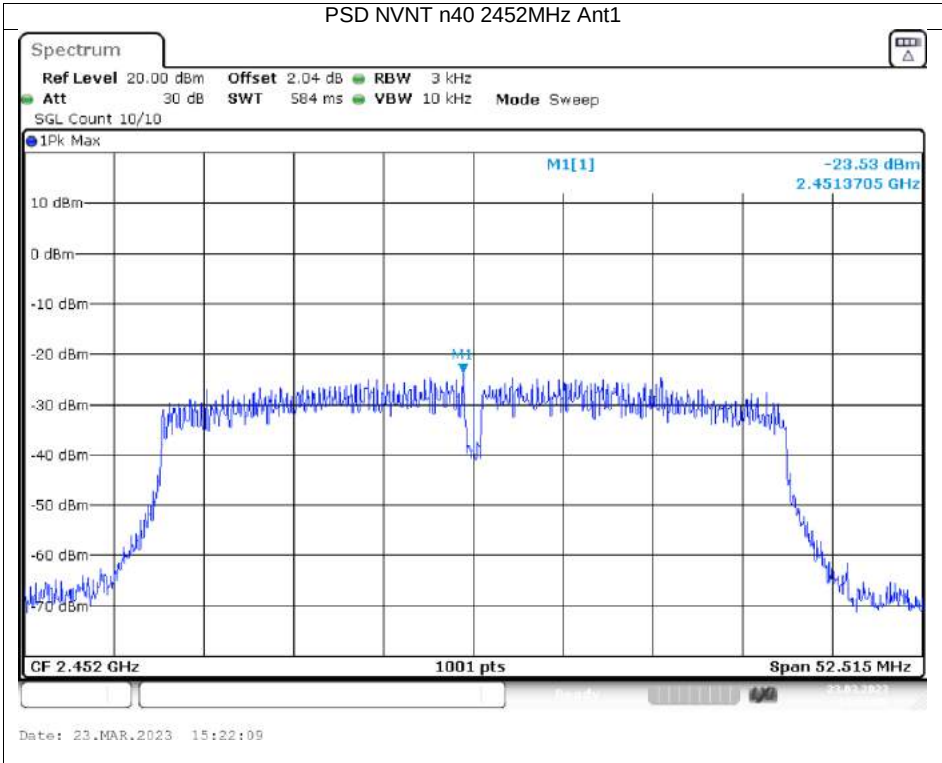






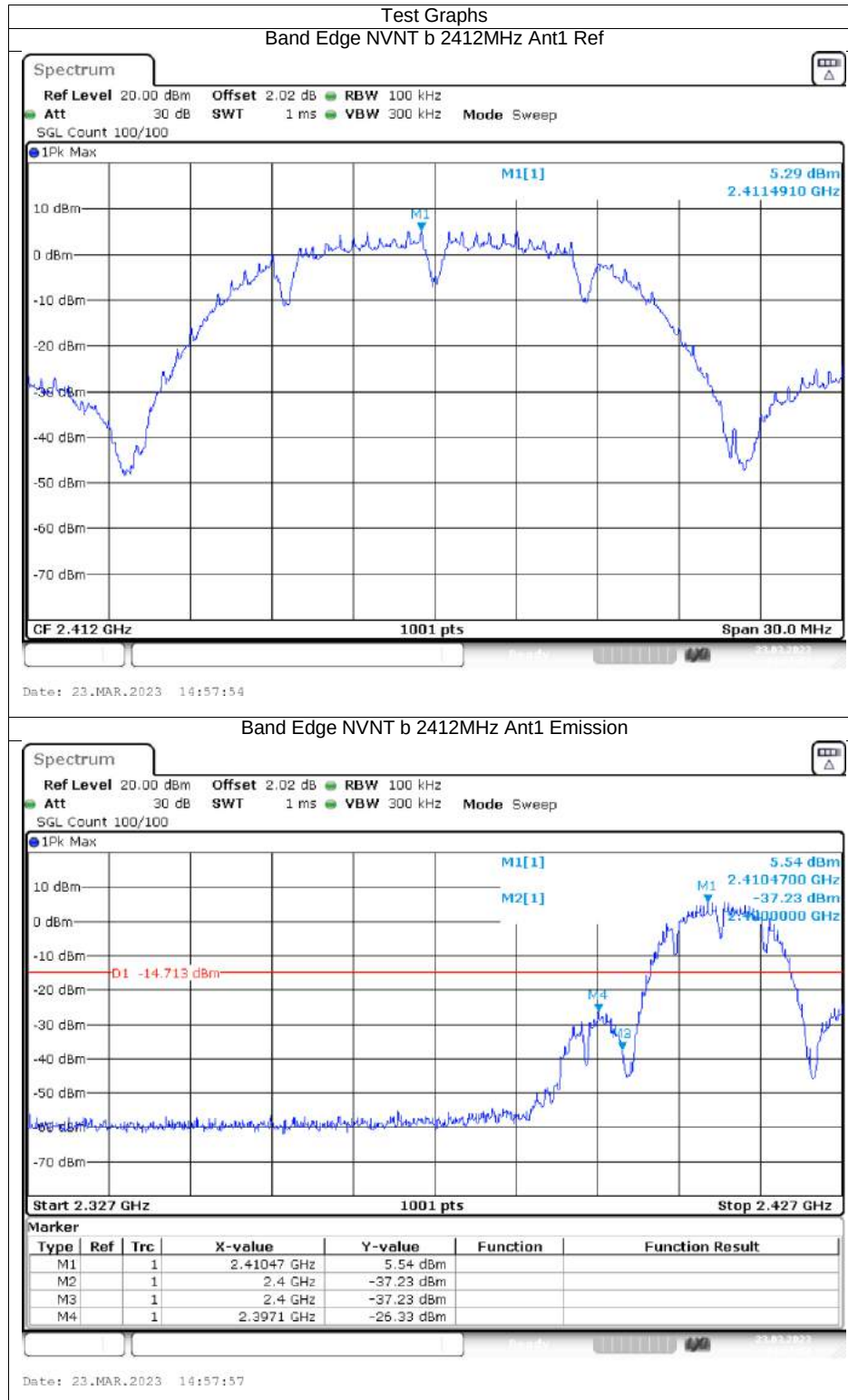


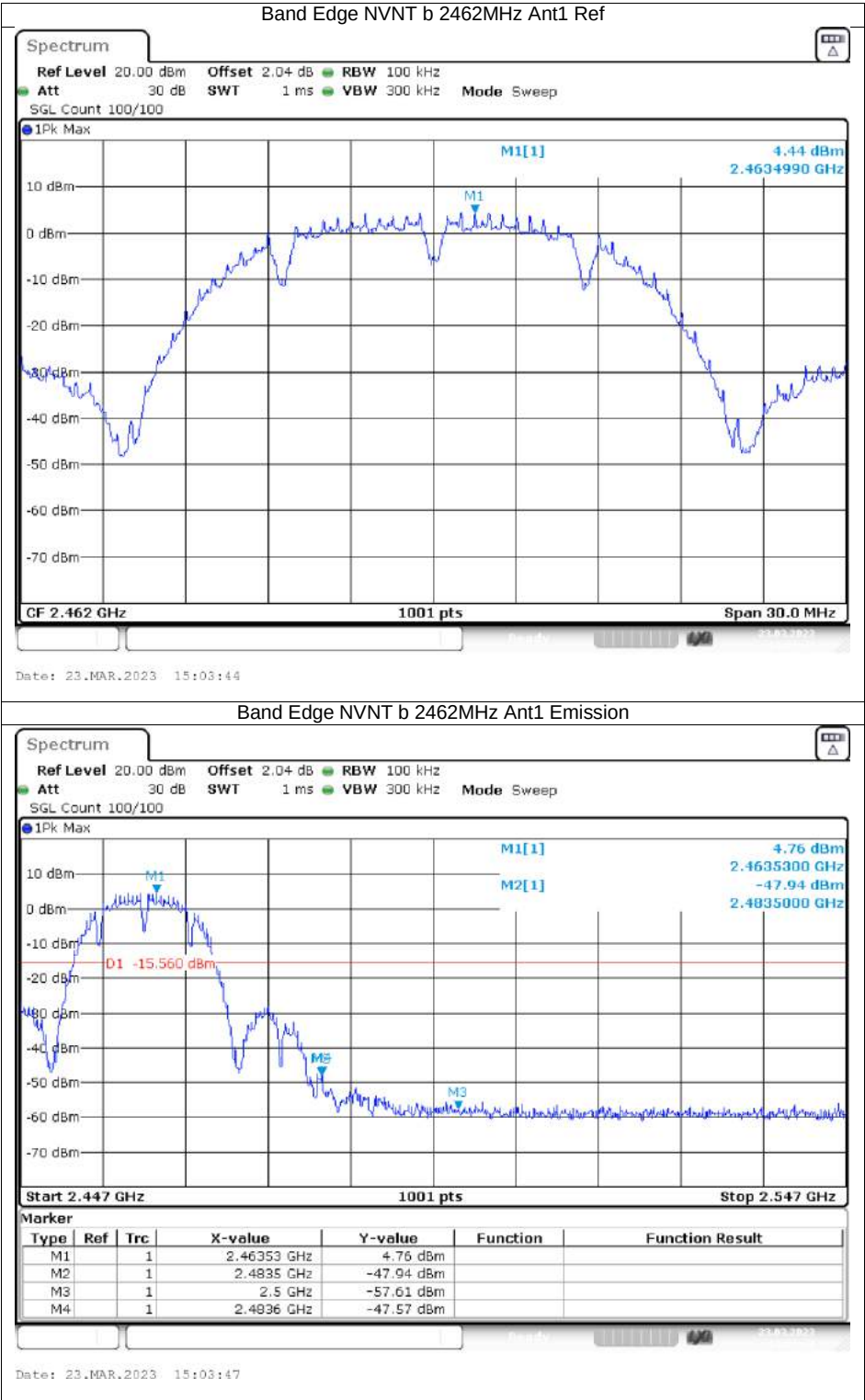


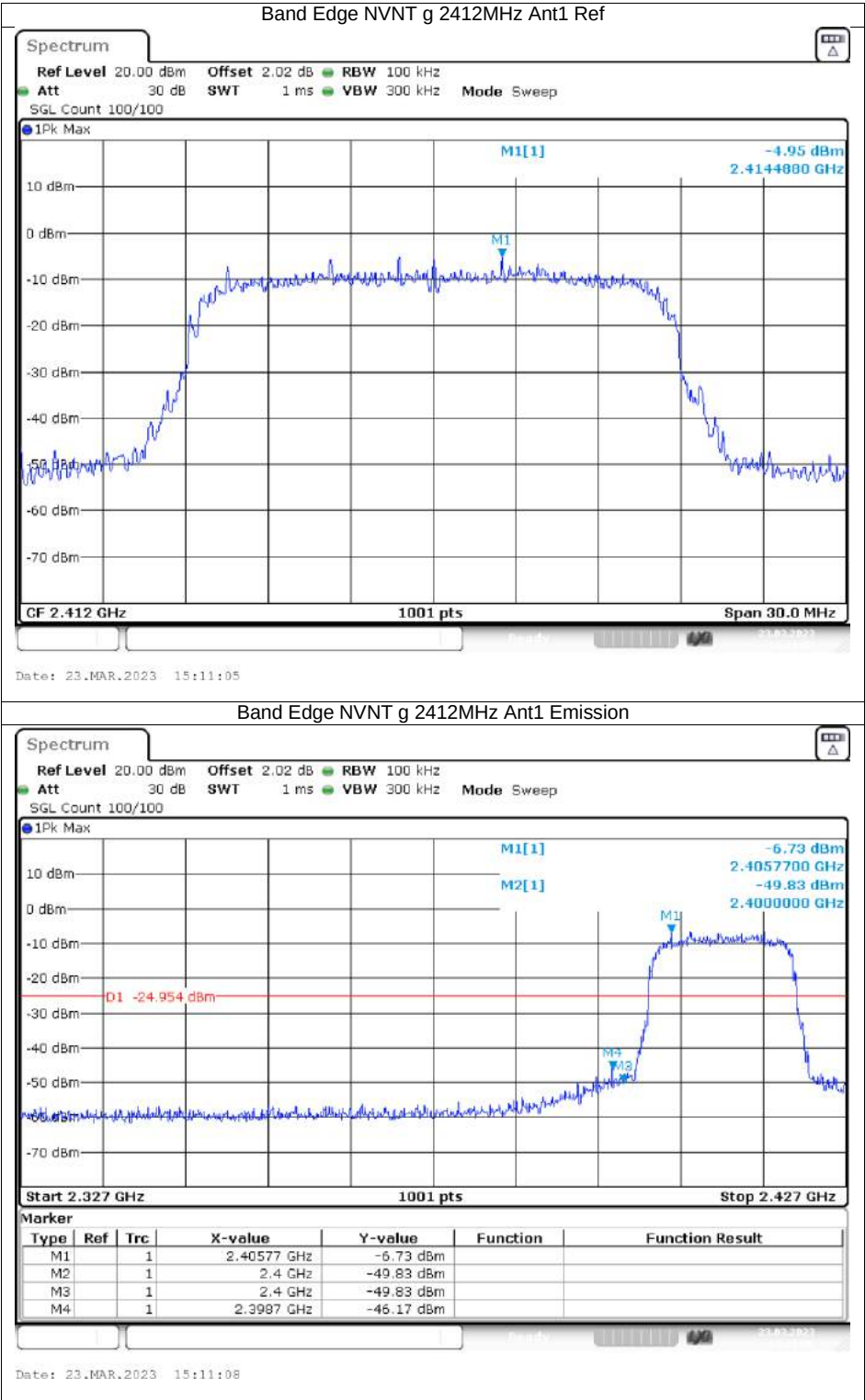


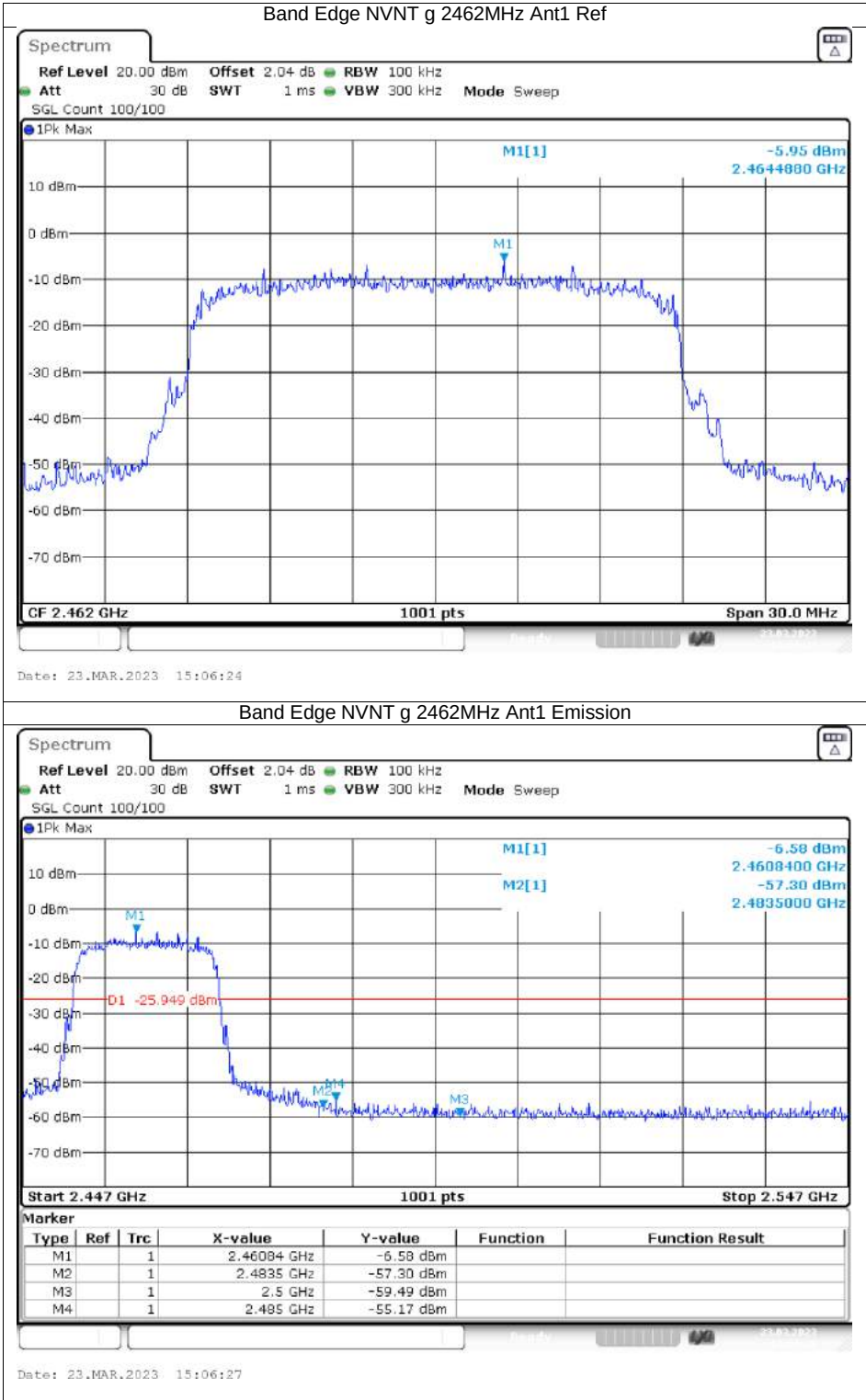
Band Edge

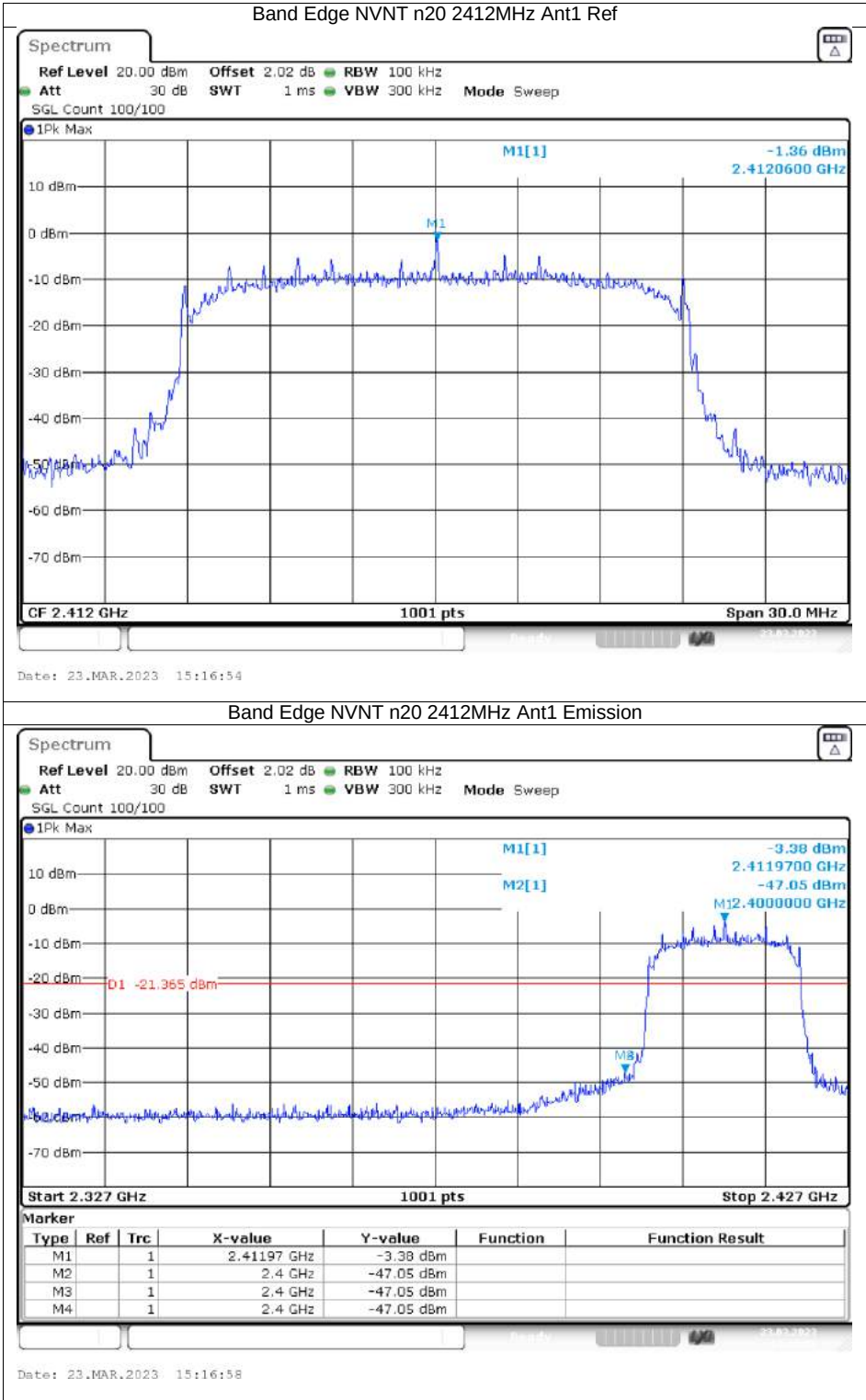
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-31.62	-20	Pass
NVNT	b	2462	Ant1	-52	-20	Pass
NVNT	g	2412	Ant1	-41.21	-20	Pass
NVNT	g	2462	Ant1	-49.22	-20	Pass
NVNT	n20	2412	Ant1	-45.68	-20	Pass
NVNT	n20	2462	Ant1	-51.22	-20	Pass
NVNT	n40	2422	Ant1	-37.66	-20	Pass
NVNT	n40	2452	Ant1	-43.02	-20	Pass

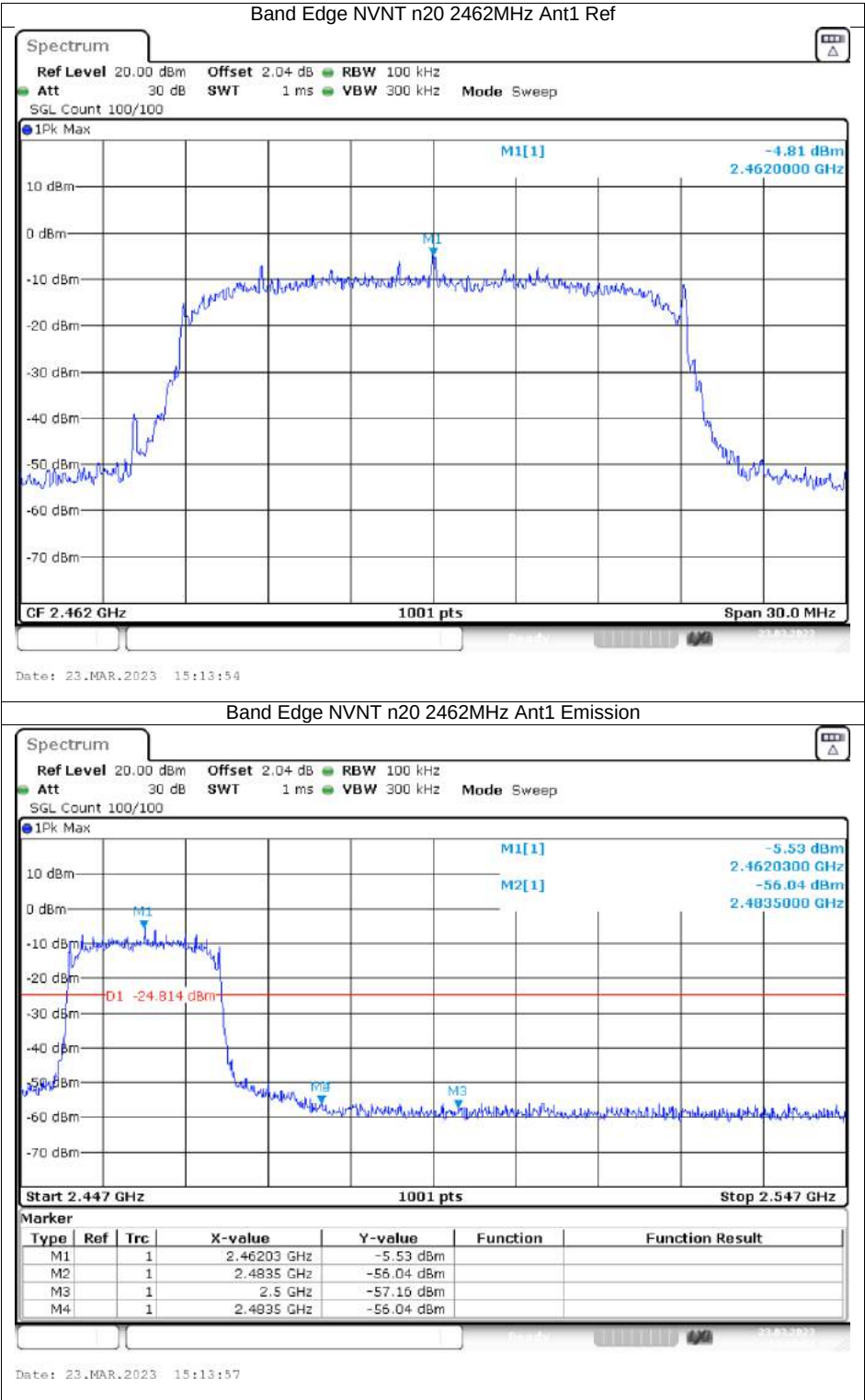


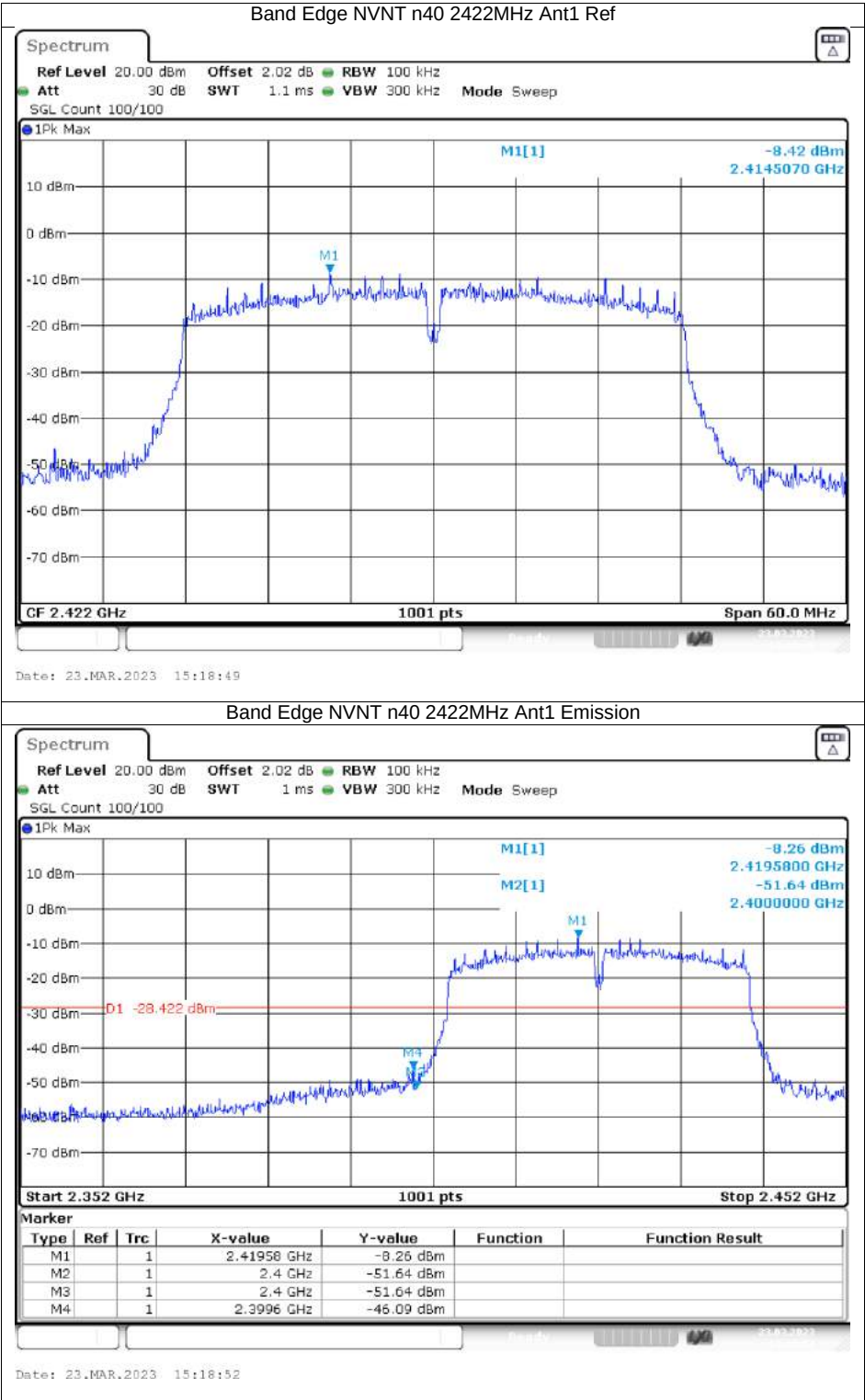


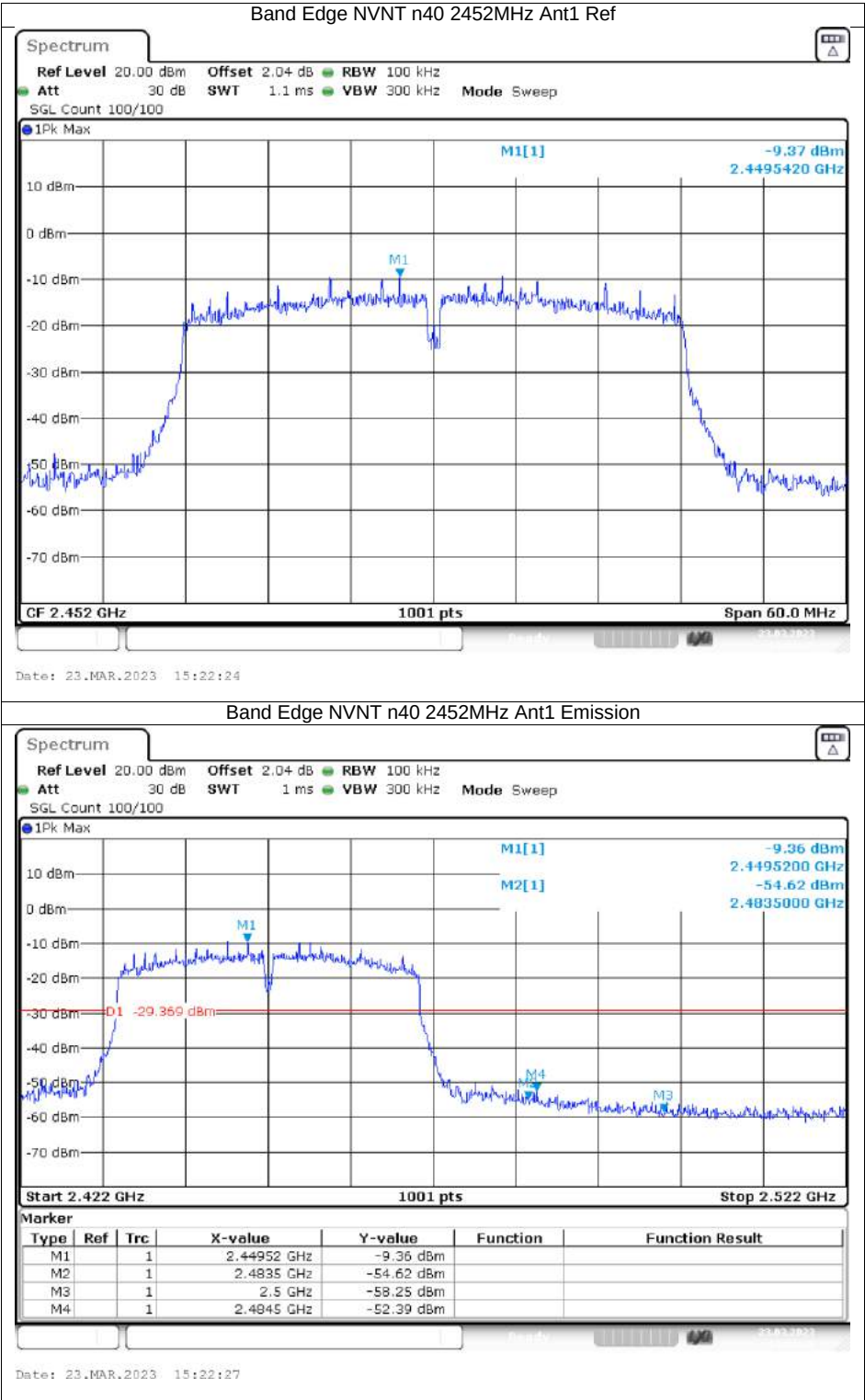






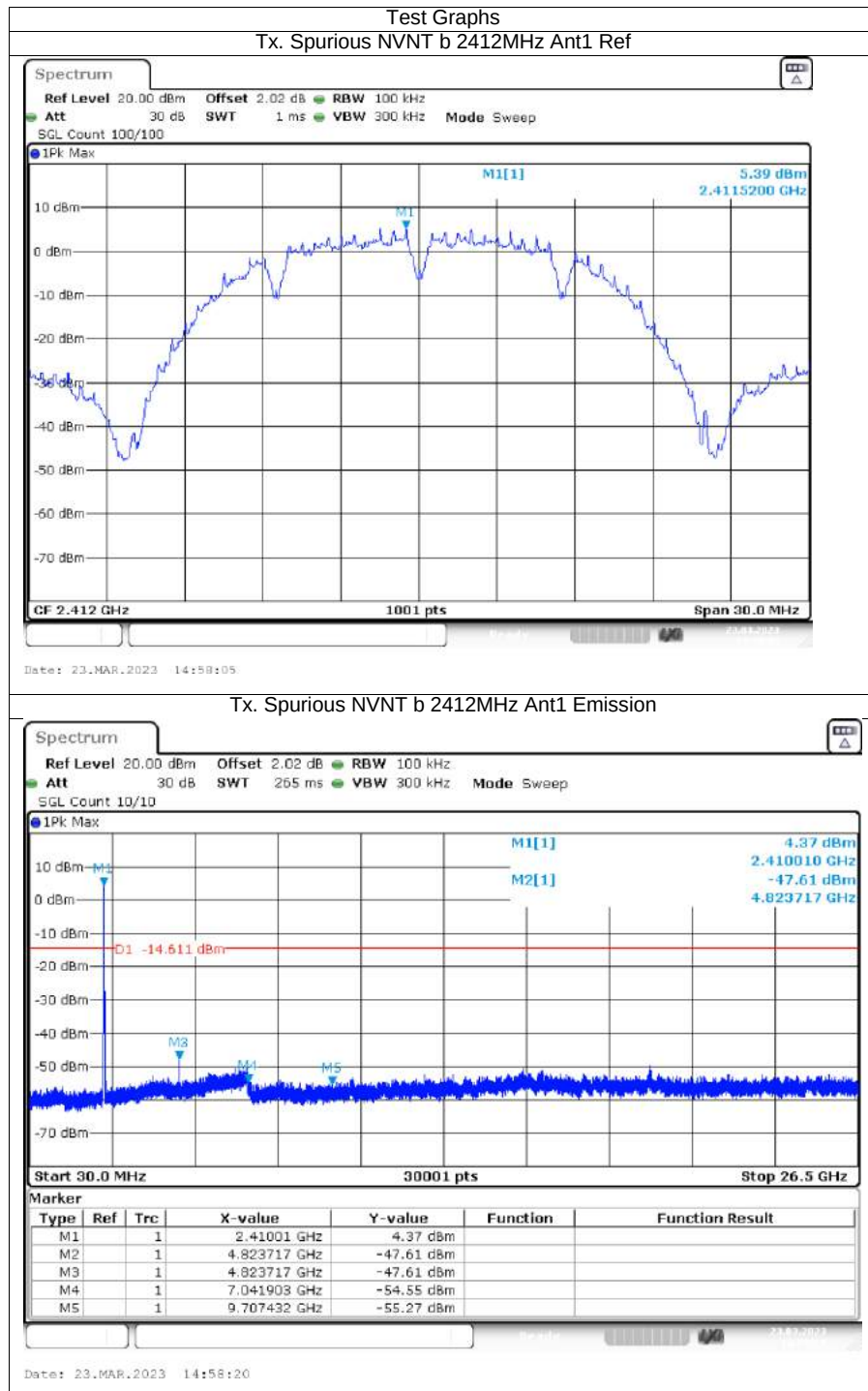


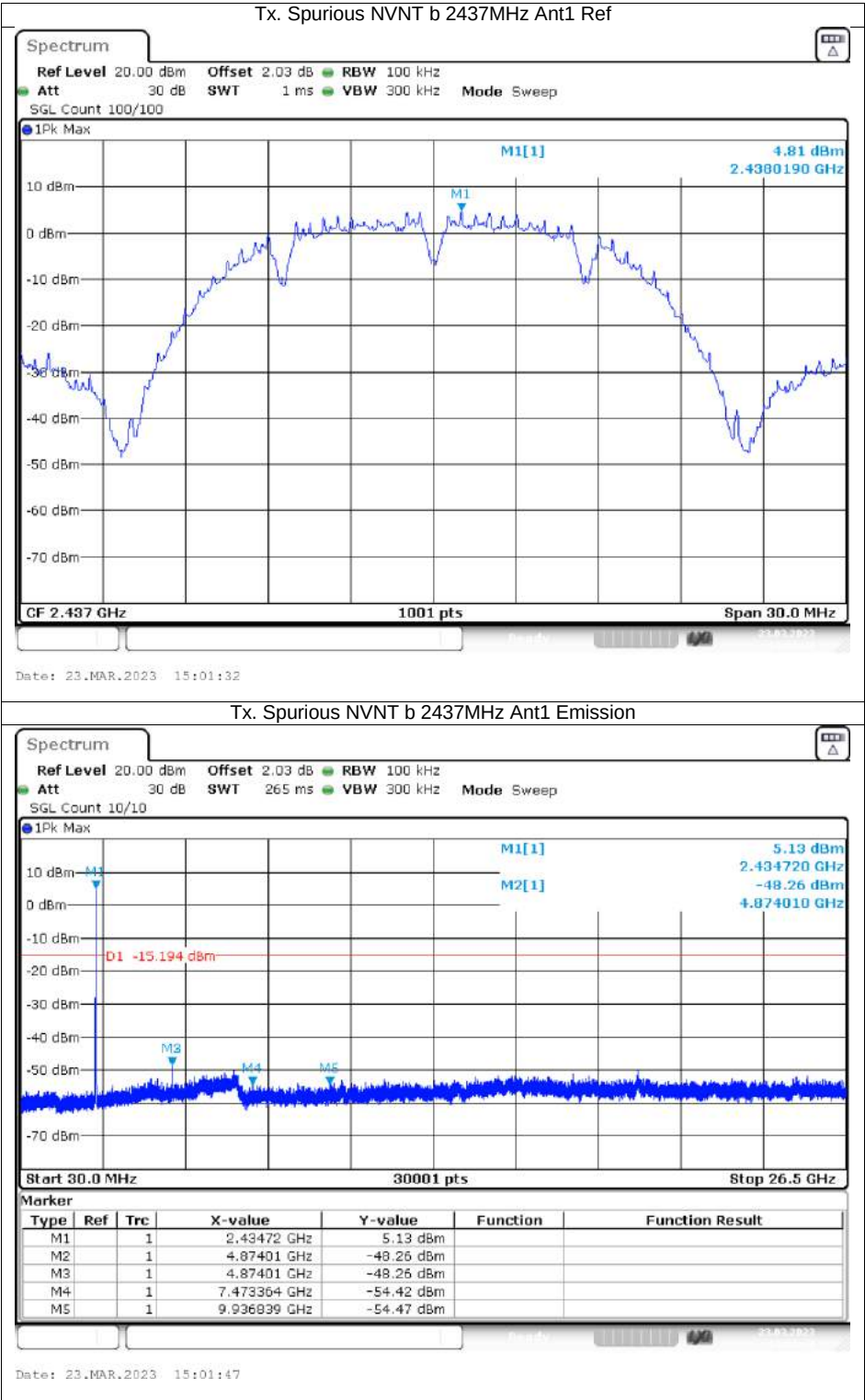


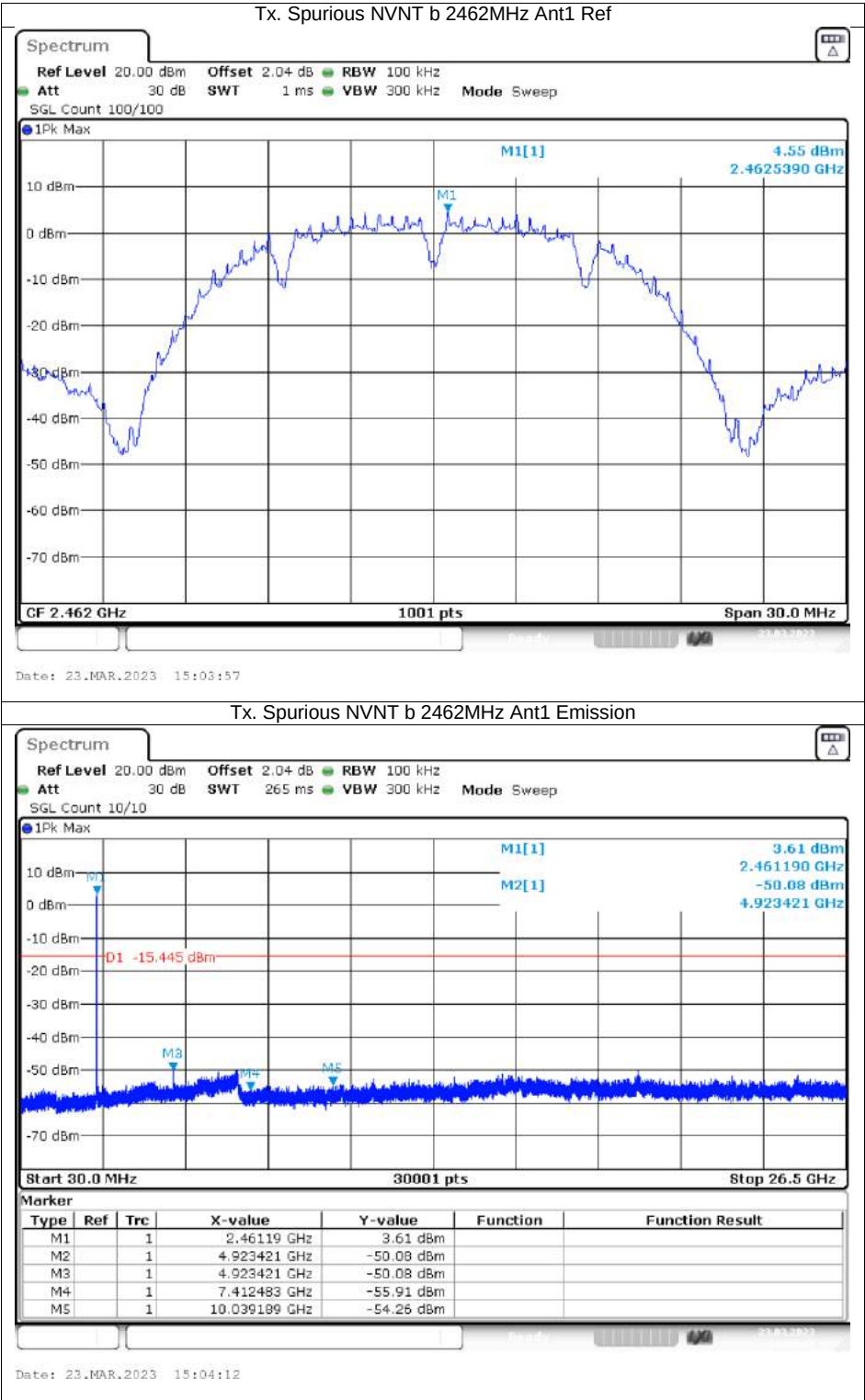


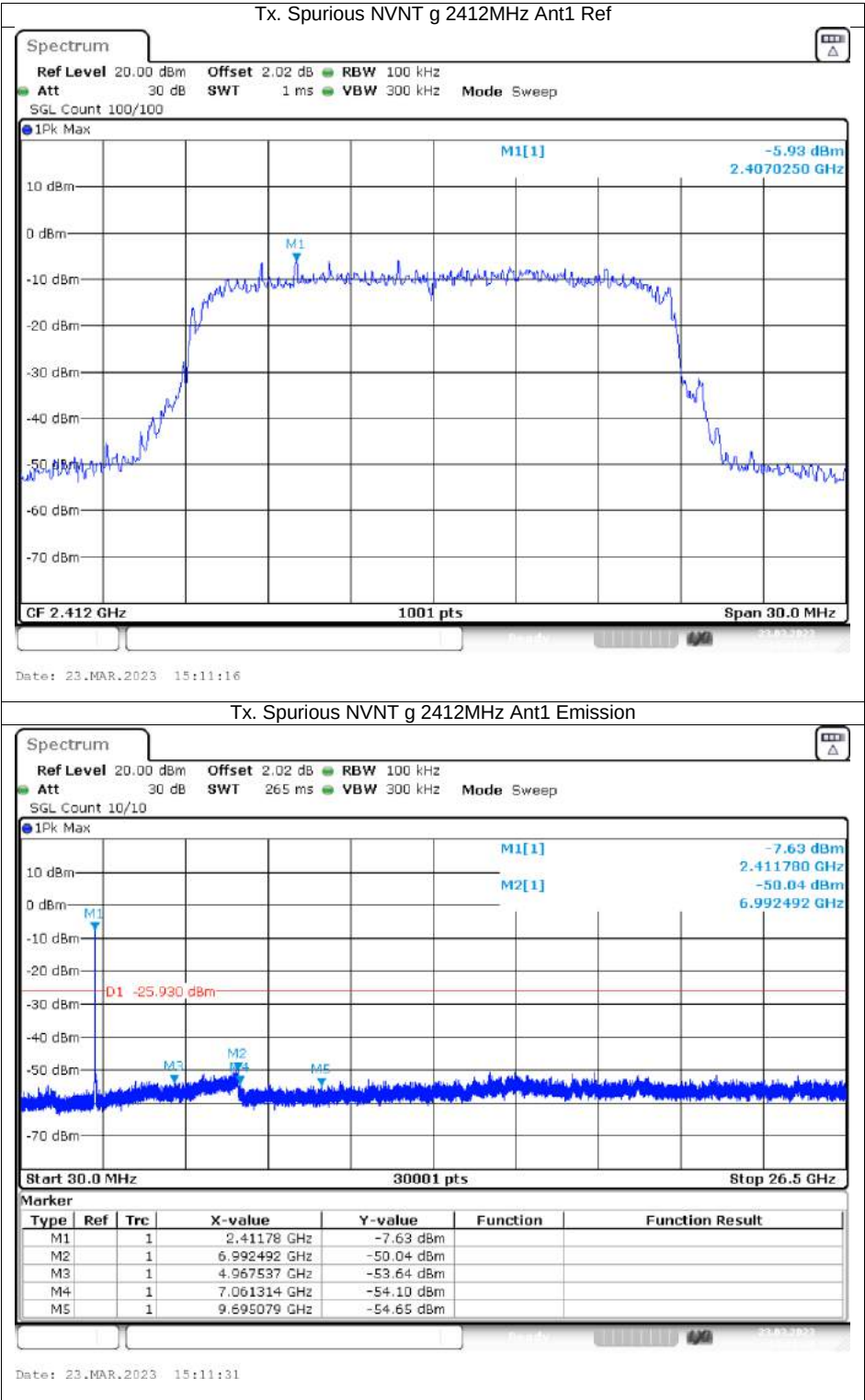
Conducted RF Spurious Emission

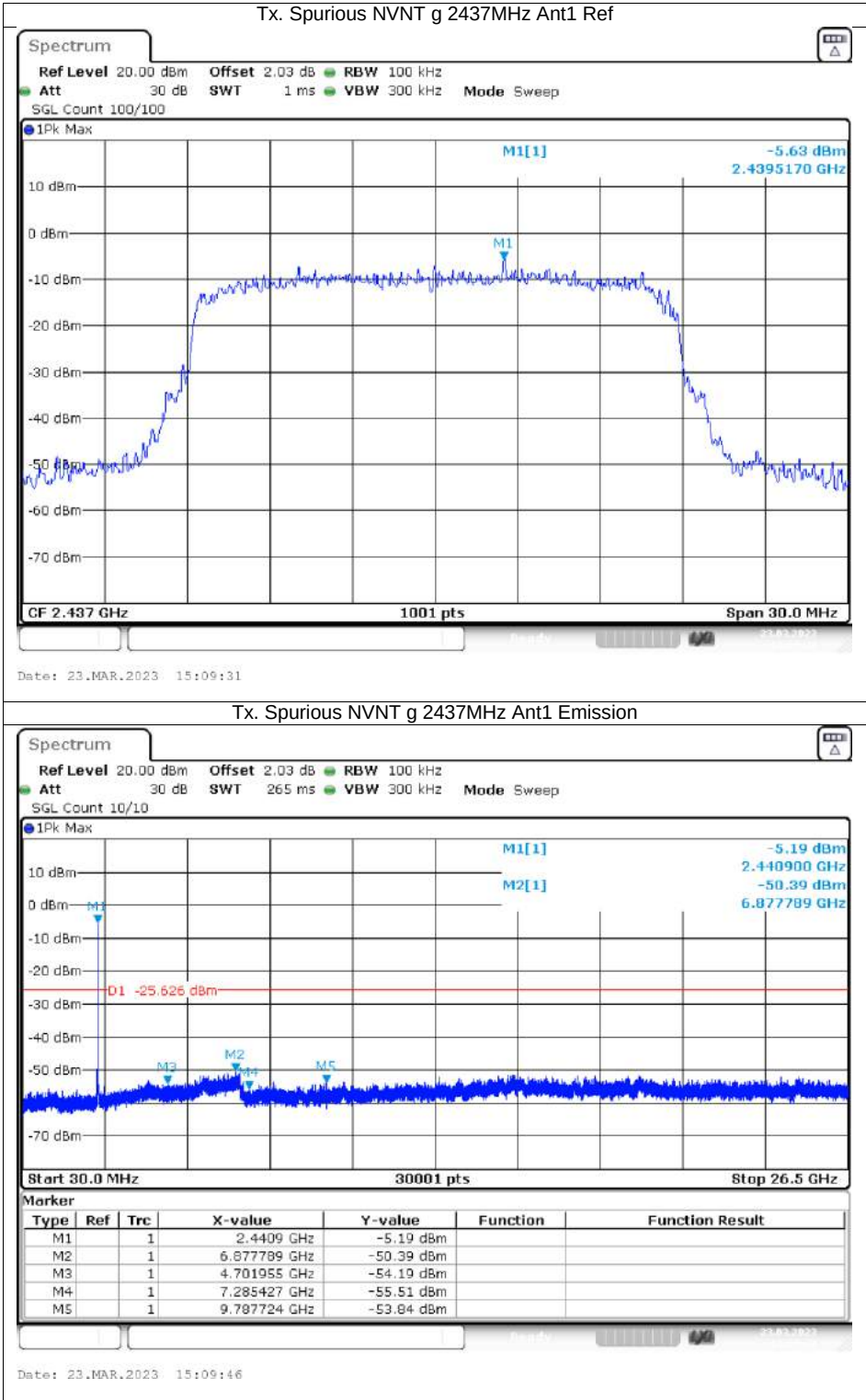
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-52.99	-20	Pass
NVNT	b	2437	Ant1	-53.06	-20	Pass
NVNT	b	2462	Ant1	-54.63	-20	Pass
NVNT	g	2412	Ant1	-44.1	-20	Pass
NVNT	g	2437	Ant1	-44.75	-20	Pass
NVNT	g	2462	Ant1	-43.8	-20	Pass
NVNT	n20	2412	Ant1	-44.94	-20	Pass
NVNT	n20	2437	Ant1	-45.47	-20	Pass
NVNT	n20	2462	Ant1	-44.86	-20	Pass
NVNT	n40	2422	Ant1	-41.92	-20	Pass
NVNT	n40	2437	Ant1	-29.86	-20	Pass
NVNT	n40	2452	Ant1	-40.03	-20	Pass

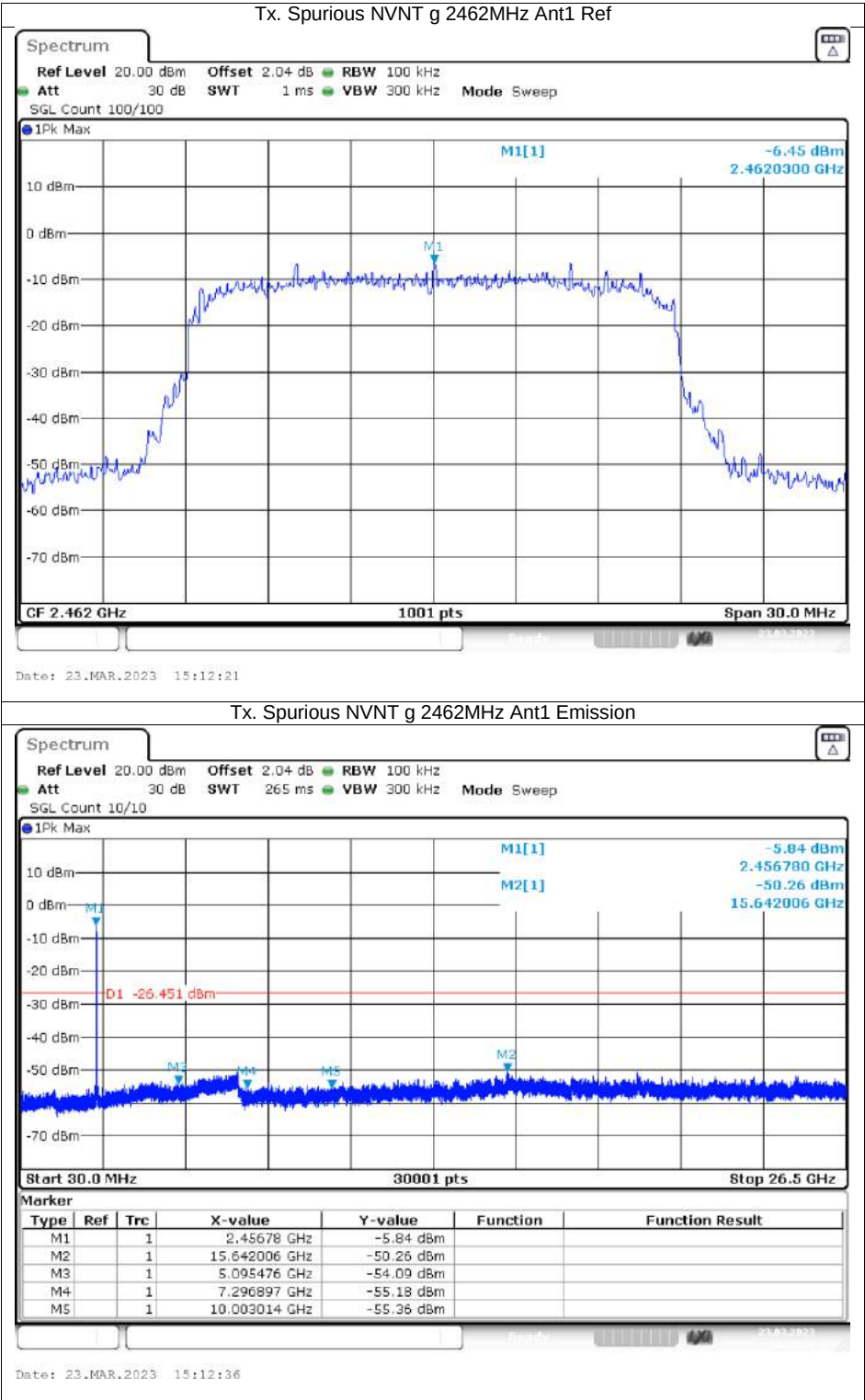


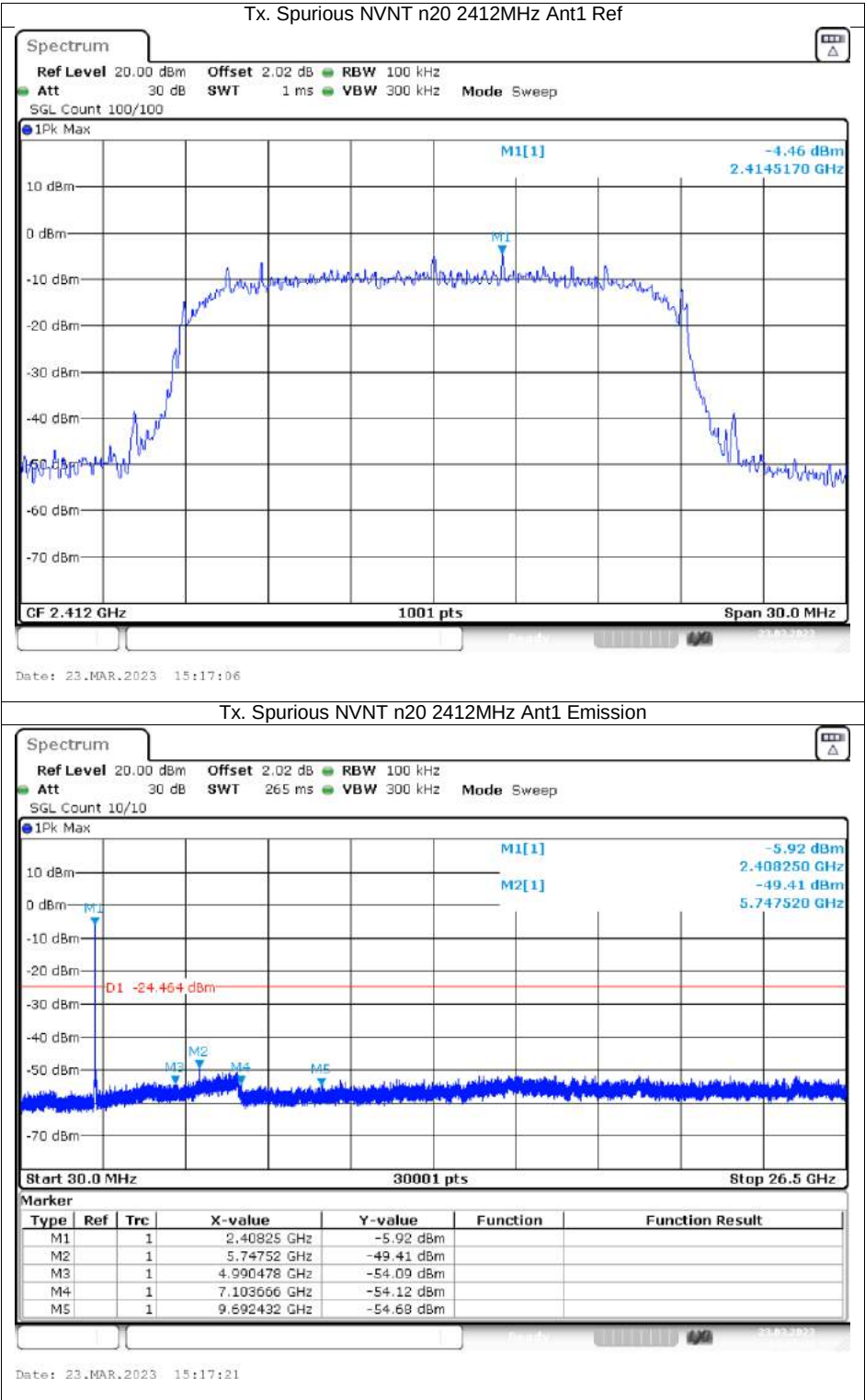


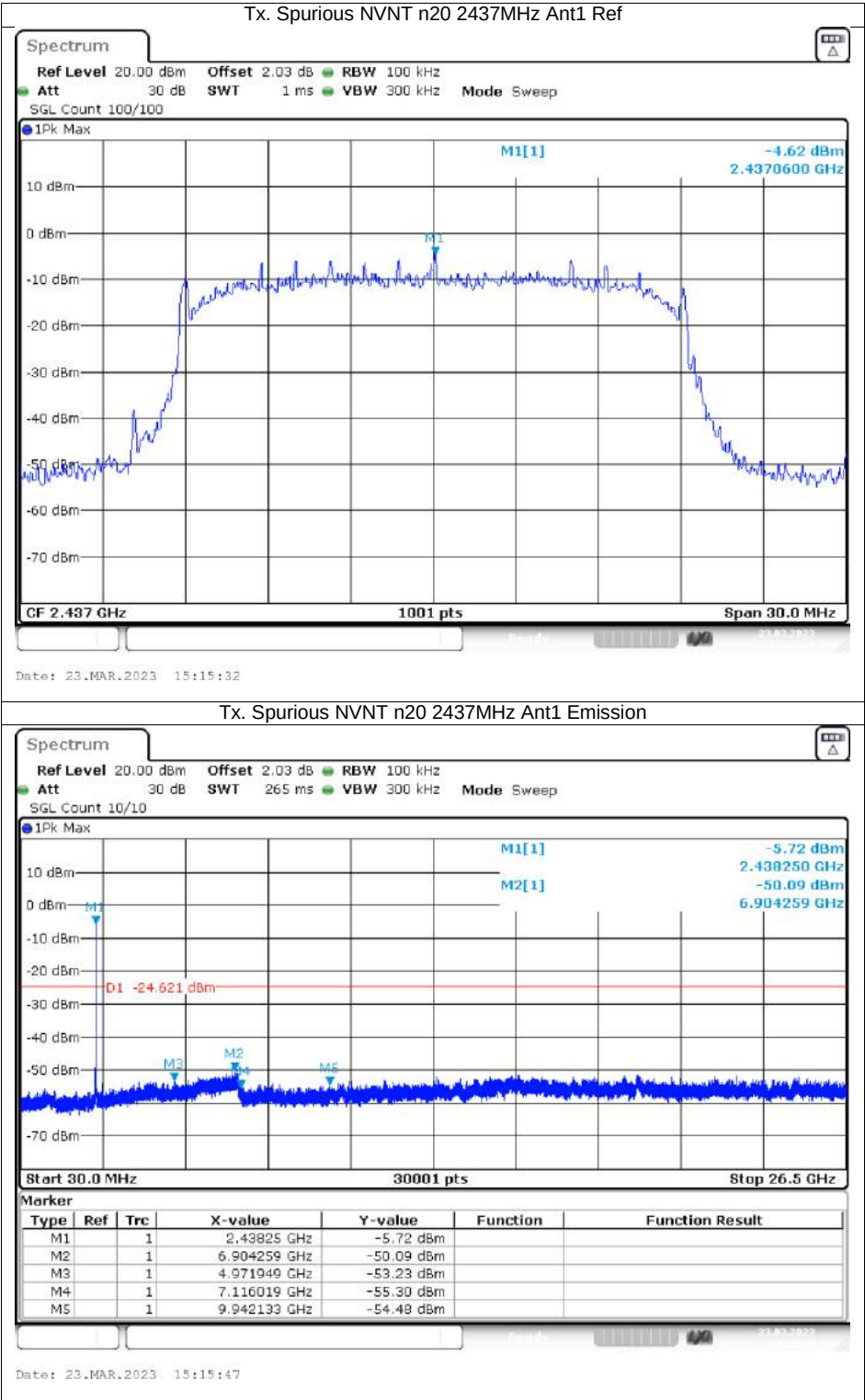


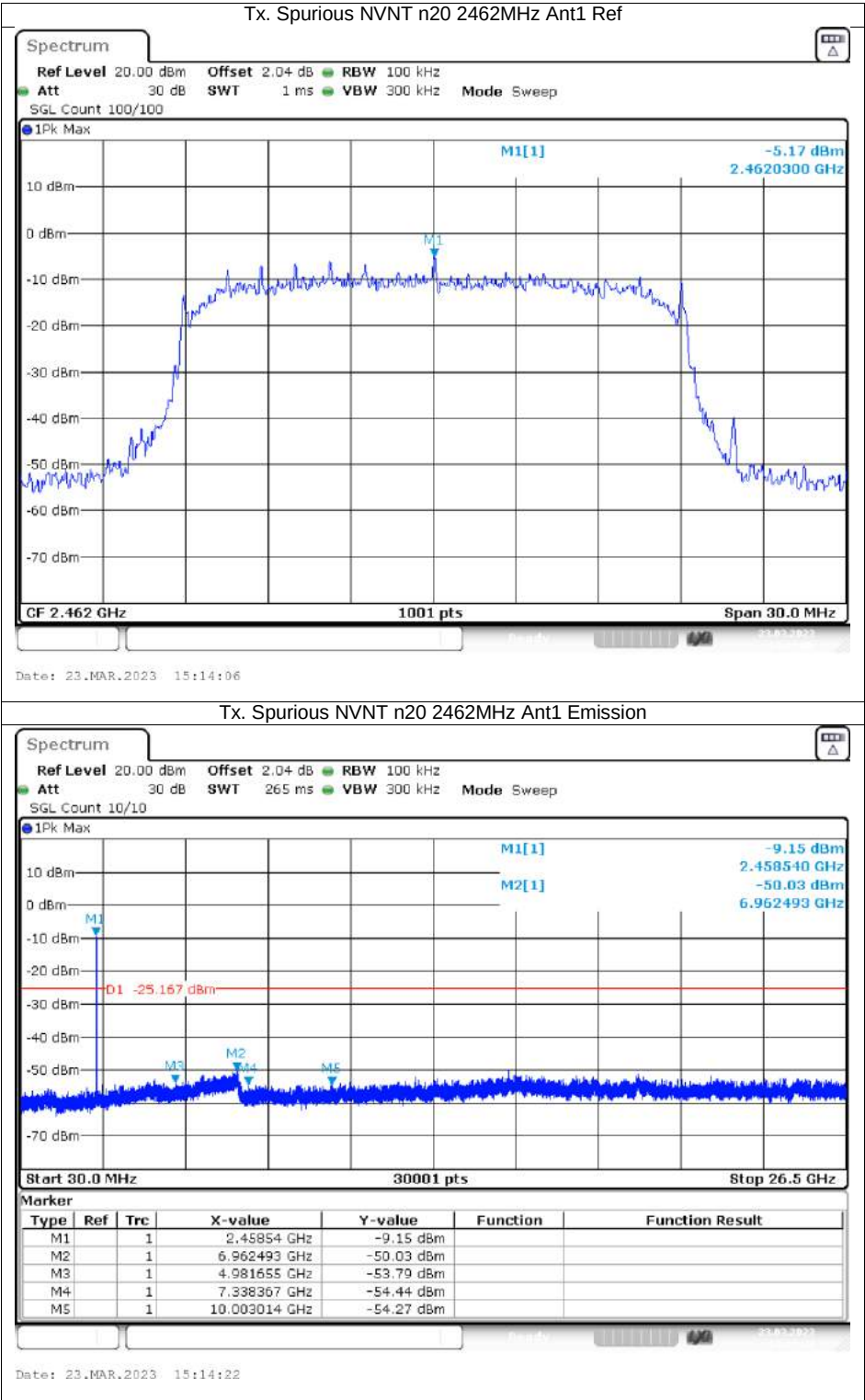


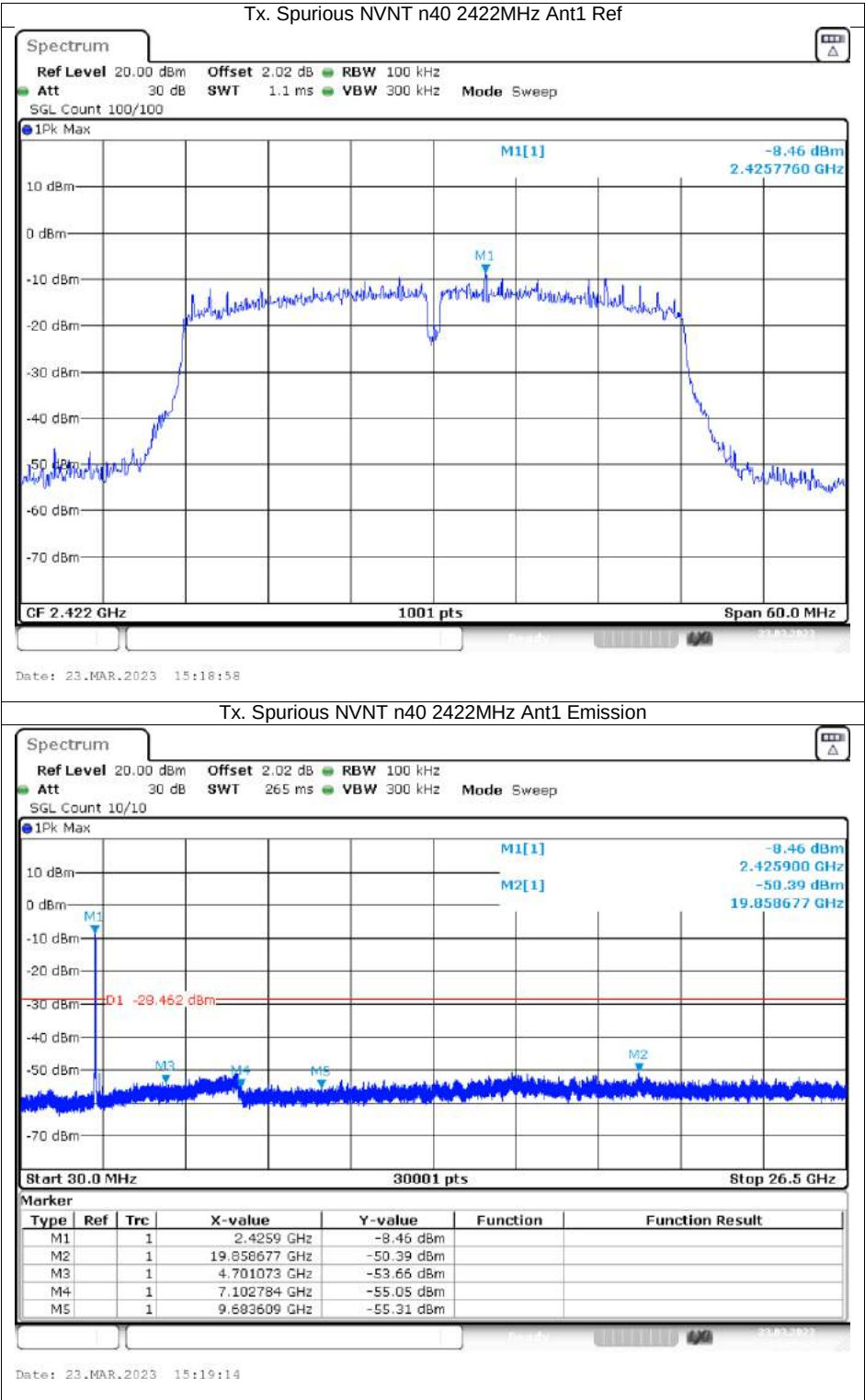


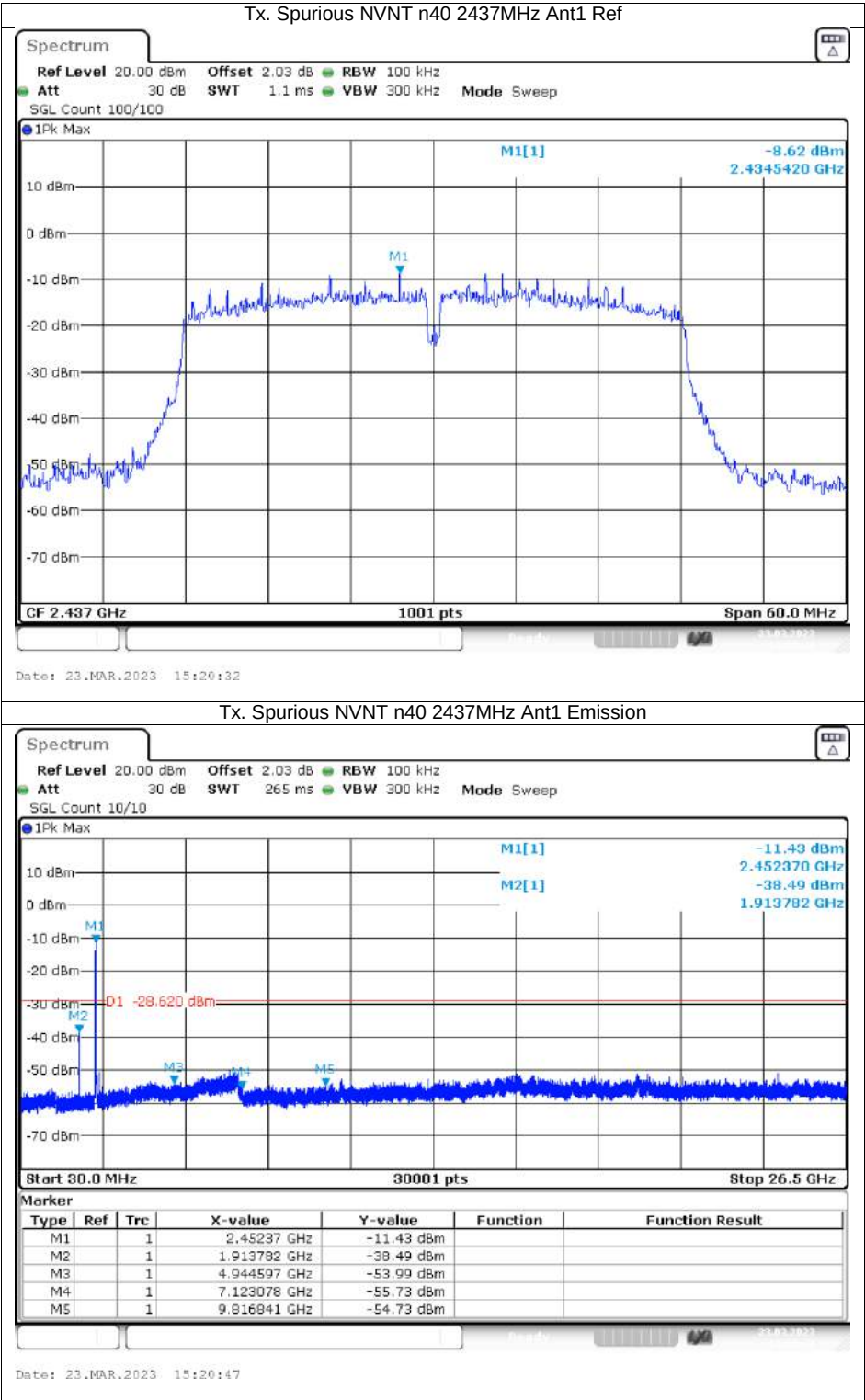


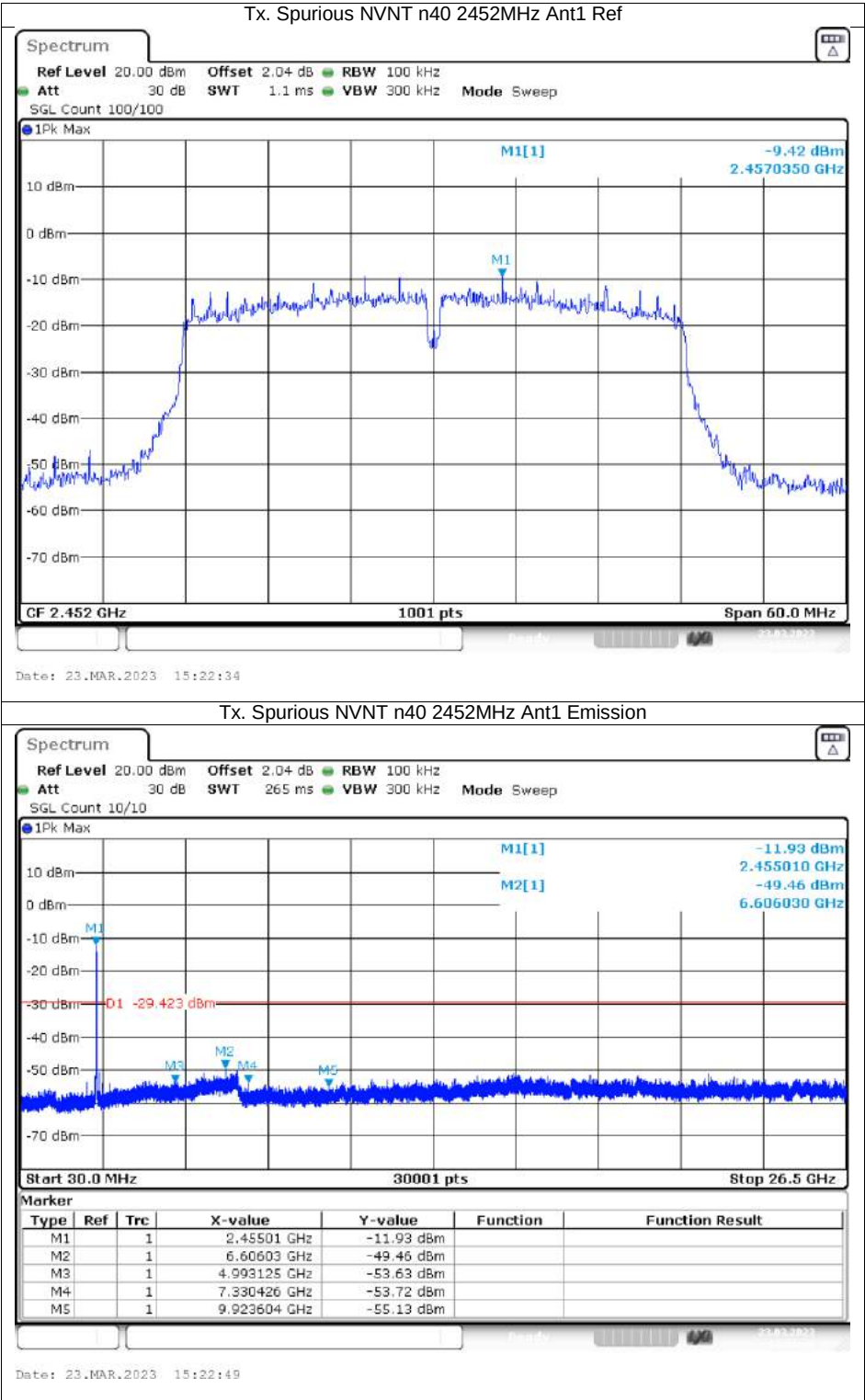












Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.01	0	0.12
NVNT	b	2437	Ant1	98.99	0	0.12
NVNT	b	2462	Ant1	98.98	0	0.12
NVNT	g	2412	Ant1	99.01	0	0.72
NVNT	g	2437	Ant1	98.87	0	0.72
NVNT	g	2462	Ant1	98.87	0	0.72
NVNT	n20	2412	Ant1	98.79	0	0.77
NVNT	n20	2437	Ant1	98.79	0	0.77
NVNT	n20	2462	Ant1	98.79	0	0.77
NVNT	n40	2422	Ant1	98.48	0	1.54
NVNT	n40	2437	Ant1	99.09	0	1.54
NVNT	n40	2452	Ant1	99.09	0	1.53

APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

Radiated emissions below 1GHz



Radiated emissions above 1GHz



Conducted emissions



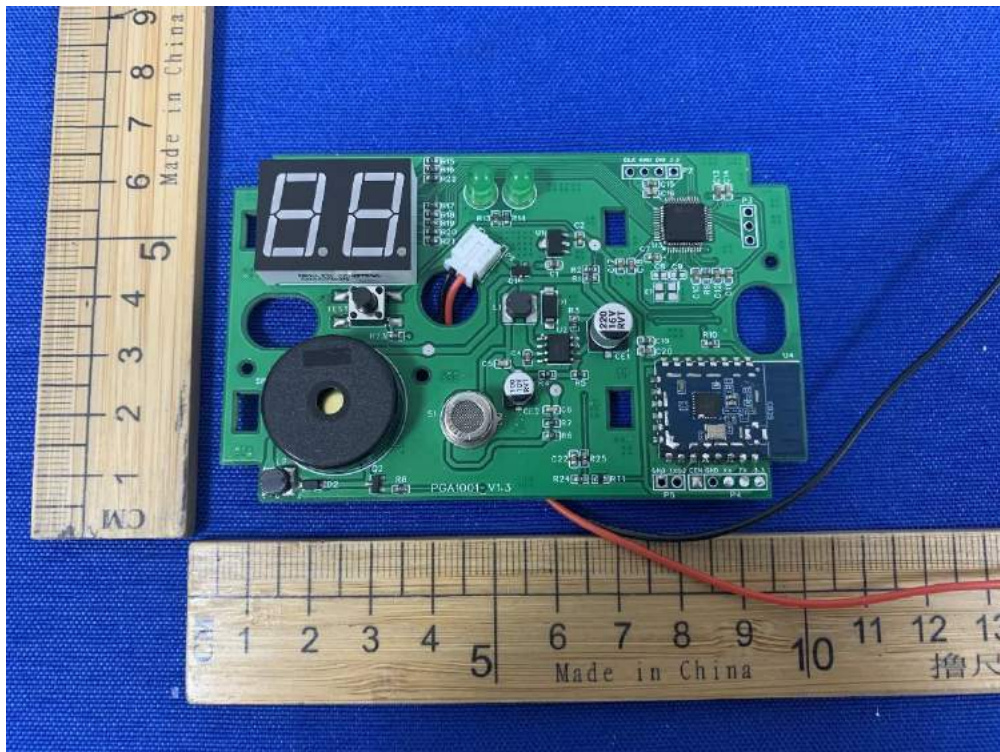
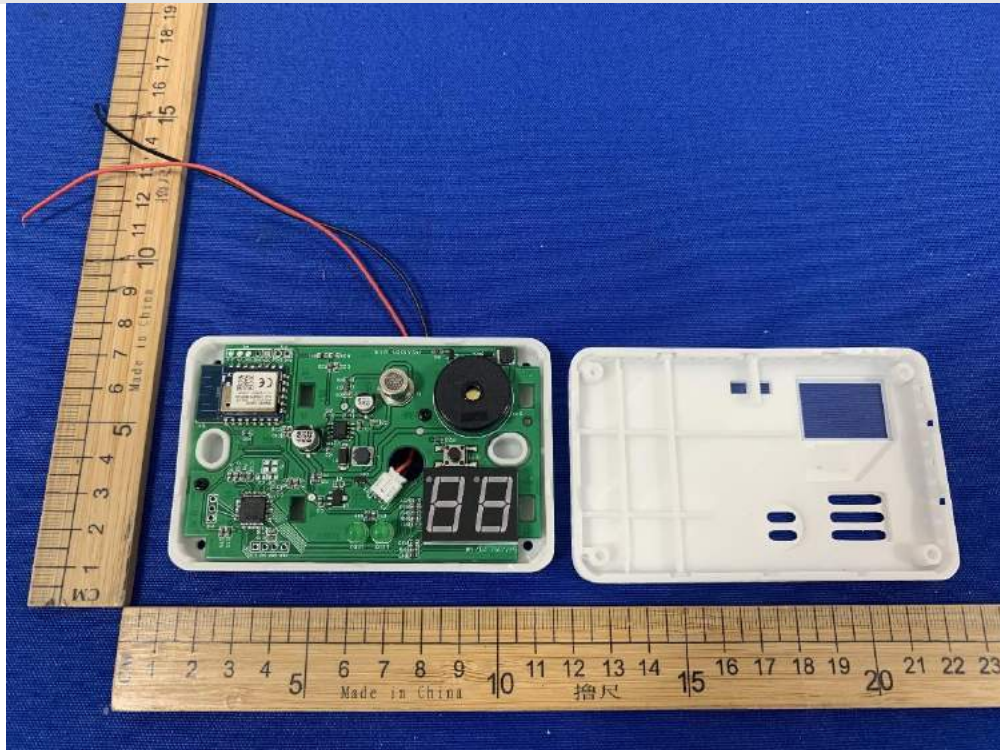
APPENDIX: PHOTOGRAPHS OF THE EUT

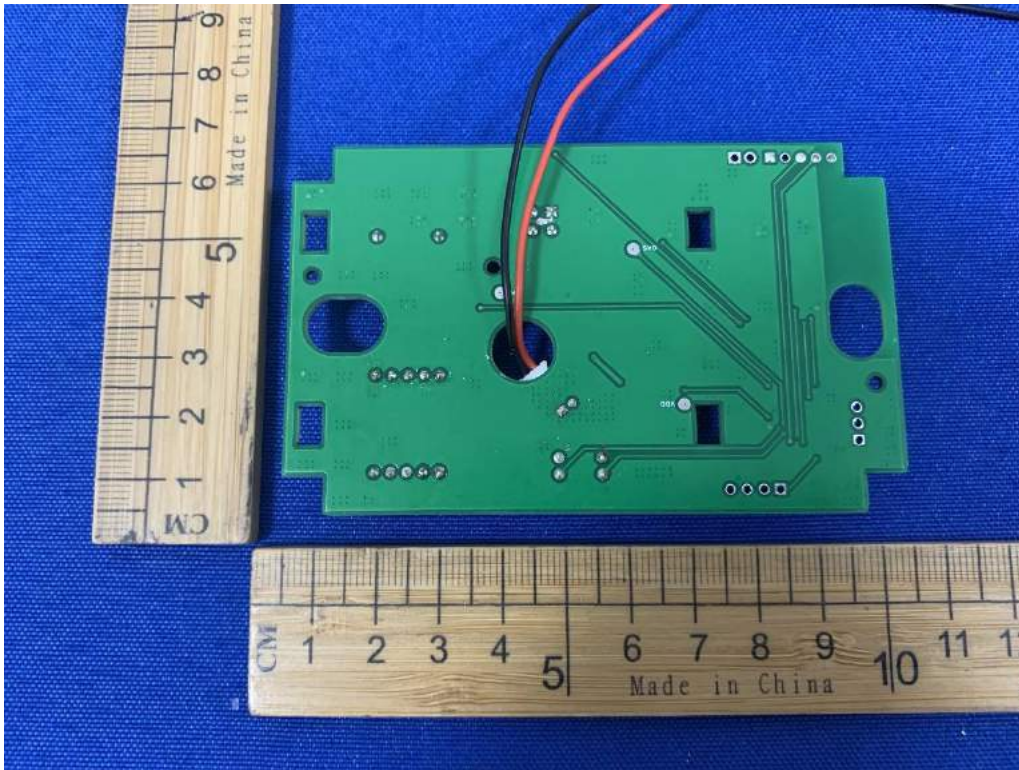
External





Internal





---END OF REPORT---