

# TEST REPORT

Applicant Name : SHENZHEN VST LIGHTING CO., LTD  
Address : No.17, Century Industrial Zone, Hutian Rd., Pinghu Town, Longgang District, Shenzhen City, P.R.C.  
Report Number : SZNS1220427-17044E-RF  
FCC ID: 2A6TH-TS14

**Test Standard (s)**  
FCC PART 15.247

## Sample Description

Product Type: 2.4G wireless remote control  
Model No.: TS14  
Date Received: 2022-04-27  
Date of Test: 2022-05-06 to 2022-05-07  
Report Date: 2022-05-09

Test Result:	Pass*
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\* In the configuration tested, the EUT complied with the standards above.

**Prepared and Checked By:**

*Black Ding*

Black Ding  
EMC Engineer

**Approved By:**

*Candy Li*

Candy Li  
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk “\* ”.

Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk “\*”. Customer model name, addresses, names, trademarks etc. are not considered data.

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**GENERAL INFORMATION**

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**Product Description for Equipment under Test (EUT)**

Product	2.4G wireless remote control
Tested Model No.	TS14
Frequency Range	2.4G SRD : 2407~2478MHz
Maximum conducted Peak output power	1.53dBm
Modulation Technique	GFSK
Antenna Specification*	Internal Antenna: 0dBi(provided by the applicant)
Voltage Range	DC 3V from battery.
Sample number	SZNS1220427-17044E-RF-S1(Low channel) SZNS1220427-17044E-RF-S2(Middle channel) SZNS1220427-17044E-RF-S3(High channel)
Sample/EUT Status	Good condition

**Objective**

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.209 and 15.247 rules.

**Test Methodology**

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

## Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		5%
RF output power, conducted		0.73dB
Unwanted Emission, conducted		1.6dB
AC Power Lines Conducted Emissions		2.72dB
Emissions, Radiated	30MHz - 1GHz	4.28dB
	1GHz - 18GHz	4.98dB
	18GHz - 26.5GHz	5.06dB
Temperature		1°C
Humidity		6%
Supply voltages		0.4%

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor  $K$  with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISED), the Registration Number is 5077A.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

For 2.4G SRD mode, 72 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2407	37	2443
2	2408	38	2444
...	...	...	...
...	...	...	...
...	...	...	...
35	2441	71	2477
36	2442	72	2478

EUT was tested with Channel 1, 36 and 72

### EUT Exercise Software

No software was used during testing and the power level was default\*.

### Special Accessories

No special accessory.

### Equipment Modifications

No modification was made to the EUT tested.

### Support Equipment List and Details

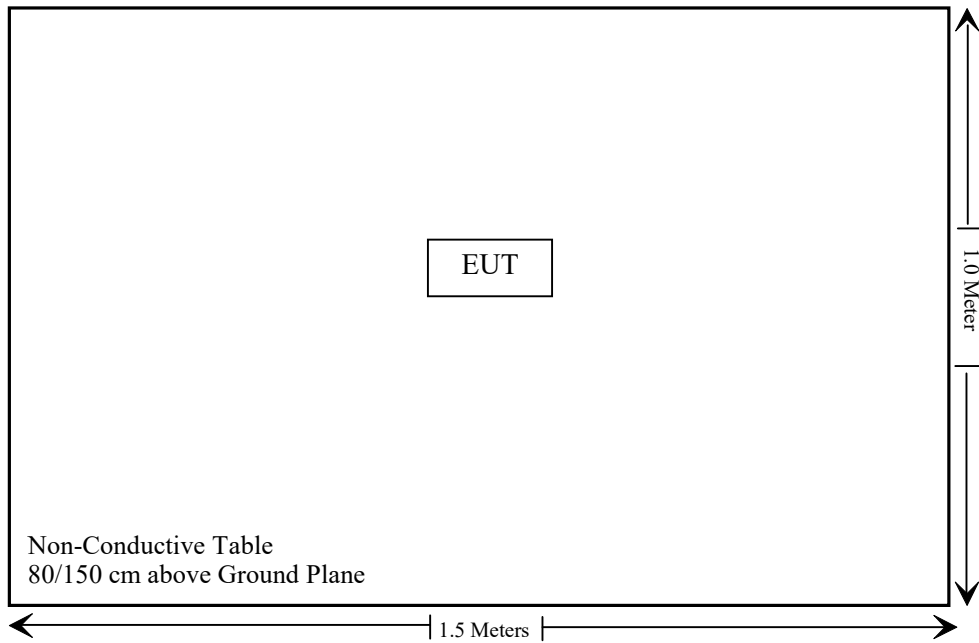
Manufacturer	Description	Model	Serial Number
/	/	/	/

### External I/O Cable

Cable Description	Length (m)	From/Port	To
/	/	/	/

## Block Diagram of Test Setup

For radiated emission:



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**SUMMARY OF TEST RESULTS**

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FCC Rules	Description of Test	Result
§1.1310, §2.1091	Maximum Permissible Exposure (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Not Applicable
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth & Occupied Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

Note: This product is powered by battery only.

**TEST EQUIPMENT LIST**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emissions Test					
Rohde & Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08
Quinstar	Amplifier	QLW-184055 36-J0	15964001002	2021/11/11	2022/11/10
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.16	N650	2021/12/14	2022/12/13
Radiated Emission Test Software: e3 19821b (V9)					
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2021/12/13	2022/12/12
Rohde & Schwarz	Open Switch and Control Unit	OSP120 + OSP-B157	101244 + 100866	2021/12/13	2022/12/12
WEINSCHL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.31	RF-01	Each time	

**\* Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).



## FCC §1.1310 & §2.1091 – MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### Applicable Standard

According to subpart §2.1091 and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; \* = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$  = power density (in appropriate units, e.g. mW/cm<sup>2</sup>);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

### Test Result:

For worst case:

Frequency (MHz)	Maximum Antenna Gain		Tune up conducted power		Evaluation Distance (cm)	Power Density (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )
	(dBi)	(numeric)	(dBm)	(mW)			
2407-2478	0	1	2	1.58	20	0.0003	1

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

**Result:** Compliant.

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## FCC §15.203 – ANTENNA REQUIREMENT

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### Applicable Standard

According to § 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### Antenna Connector Construction

The EUT has one internal antenna arrangement, which was permanently attached and the antenna gain is 0dBi, fulfill the requirement of this section. Please refer to the EUT photos.

**Result:** Compliant.

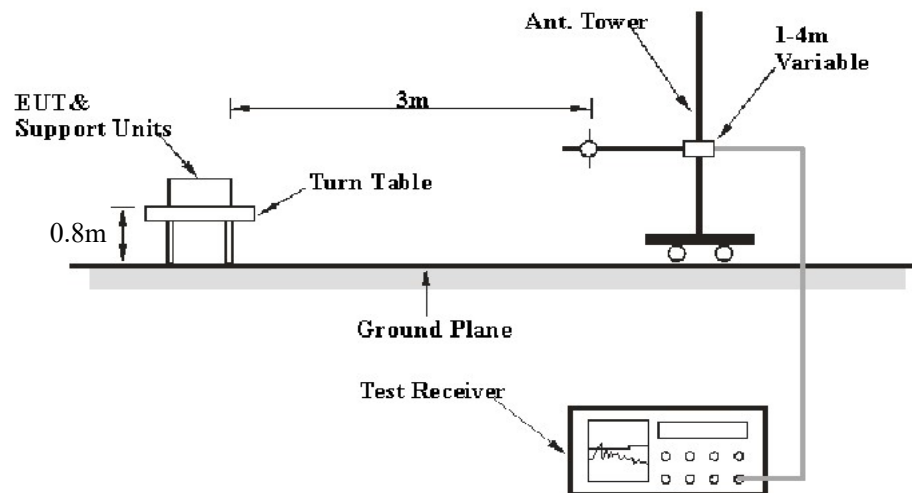
## FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

### Applicable Standard

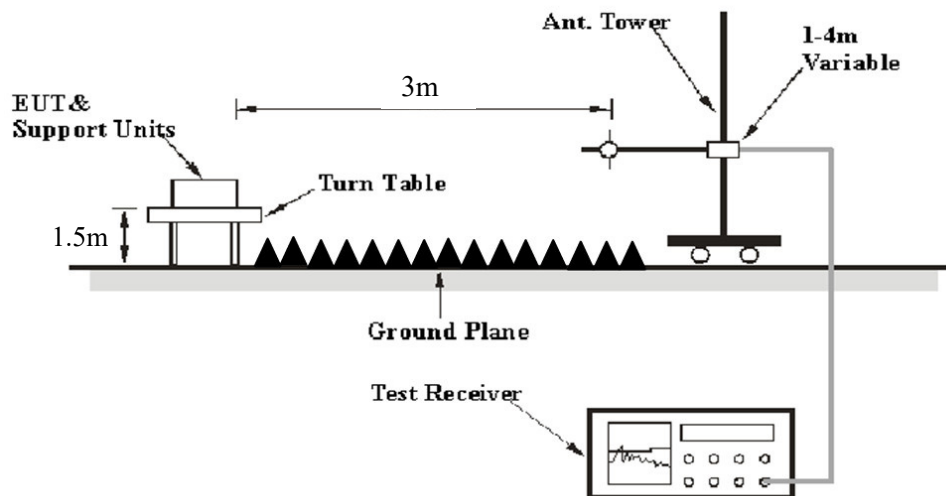
FCC §15.205; §15.209; §15.247(d)

### EUT Setup

#### Below 1 GHz:



#### Above 1GHz:



The radiated emission performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, FCC 15.247 limits.

## EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz <sup>Note 1</sup>	/	Average
	1MHz	> 1/T <sup>Note 2</sup>	/	Average

Note 1: when duty cycle is no less than 98%

Note 2: when duty cycle is less than 98%

If the maximized peak measured value complies with the limit, then it is unnecessary to perform an QP/Average measurement

## Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

## Factor & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned} \text{Over Limit/Margin} &= \text{Level} / \text{Corrected Amplitude} - \text{Limit} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

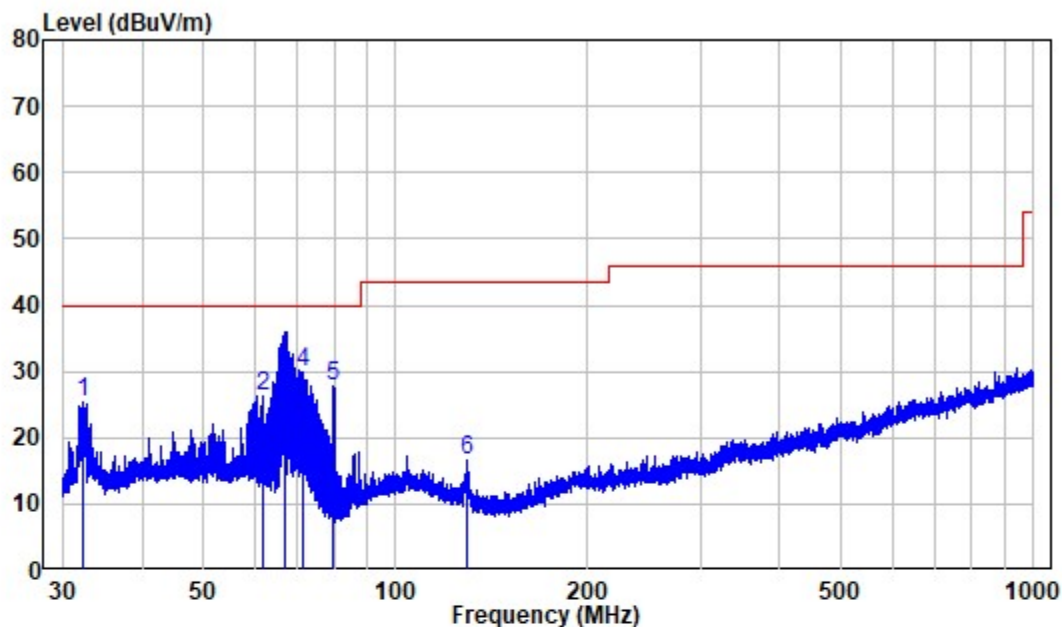
## Test Data

### Environmental Conditions

Temperature:	24 °C
Relative Humidity:	53 %
ATM Pressure:	101.1kPa

*The testing was performed by Leo Li on 2022-05-06.*

*EUT operation mode: Transmitting (Pre-scan in the X, Y and Z axes of orientation, the worst case X-axis of orientation was recorded)*

**Below 1GHz: High Channel (worst case)****Horizontal**

Site : chamber

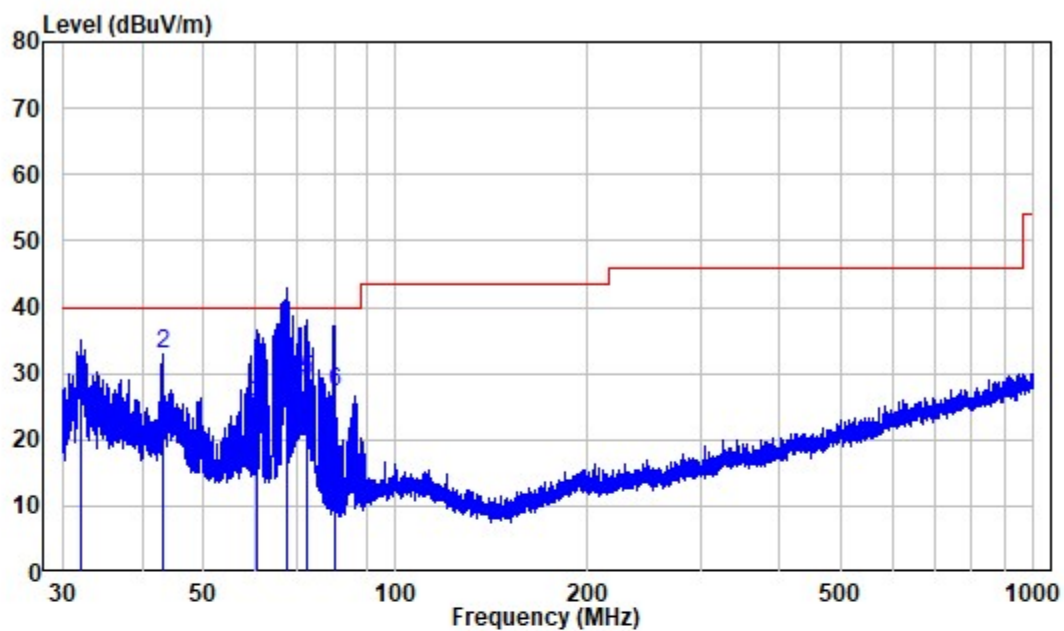
Condition: 3m Horizontal

Job No. : SZNS1220427-17044E-RF

Test Mode: Transmitting

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	32.321	-12.12	37.44	25.32	40.00	-14.68	Peak
2	61.805	-11.36	37.69	26.33	40.00	-13.67	Peak
3	67.084	-13.40	34.40	21.00	40.00	-19.00	QP
4	71.299	-15.32	45.20	29.88	40.00	-10.12	Peak
5	79.975	-16.79	44.71	27.92	40.00	-12.08	Peak
6	129.184	-14.82	31.54	16.72	43.50	-26.78	Peak

## Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : SZNS1220427-17044E-RF  
Test Mode: Transmitting

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Level	Line	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	32.137	-12.15	40.24	28.09	40.00	-11.91 QP
2	43.277	-9.94	42.99	33.05	40.00	-6.95 Peak
3	60.545	-10.85	36.31	25.46	40.00	-14.54 QP
4	67.291	-13.49	40.19	26.70	40.00	-13.30 QP
5	72.528	-15.74	44.73	28.99	40.00	-11.01 QP
6	80.010	-16.79	43.81	27.02	40.00	-12.98 QP

**Above 1GHz:**

Frequency (MHz)	Receiver		Turntable Angle	Rx Antenna		Factor (dB/m)	Absolute Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
	Reading (dBuV)	PK/AV	Degree	Height	Polar				
				(m)	(H/V)				
Low Channel									
2310	53.61	PK	239	1.8	H	-7.23	46.38	74	-27.62
2310	50.21	PK	210	1.5	V	-7.23	42.98	74	-31.02
2390	53.44	PK	54	1.4	H	-7.21	46.23	74	-27.77
2390	50.46	PK	214	1.6	V	-7.21	43.25	74	-30.75
4814	60.17	PK	181	1.5	H	-3.52	56.65	74	-17.35
4814	54.20	Ave	181	1.5	H	-3.52	50.68	54	-3.32
4814	54.69	PK	178	1.6	V	-3.52	51.17	74	-22.83
Middle Channel									
4884	60.45	PK	120	2.1	H	-3.37	57.08	74	-16.92
4884	54.94	AV	120	2.1	H	-3.37	51.57	54	-2.43
4884	55.59	PK	41	1.3	V	-3.37	52.22	74	-21.78
High Channel									
2483.5	53.29	PK	250	1.8	H	-7.2	46.09	74	-27.91
2483.5	52.48	PK	85	2.0	V	-7.2	45.28	74	-28.72
2500	50.05	PK	222	1.5	H	-7.18	42.87	74	-31.13
2500	51.7	PK	157	1.6	V	-7.18	44.52	74	-29.48
4956	61.41	PK	79	1.4	H	-3.02	58.39	74	-15.61
4956	55.34	AV	79	1.4	H	-3.02	52.32	54	-1.68
4956	56.31	PK	209	1.7	V	-3.02	53.29	74	-20.71

**Note:**

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Absolute Level (Corrected Amplitude) = Factor + Reading

Margin = Absolute Level - Limit

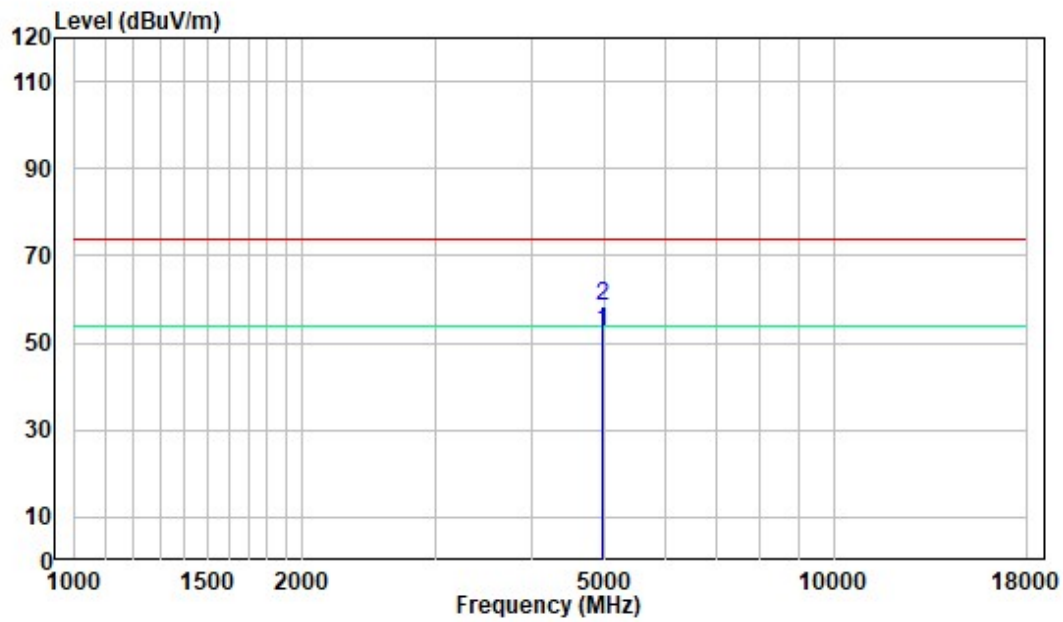
The other spurious emission which is in the noise floor level was not recorded.

For above 1GHz, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

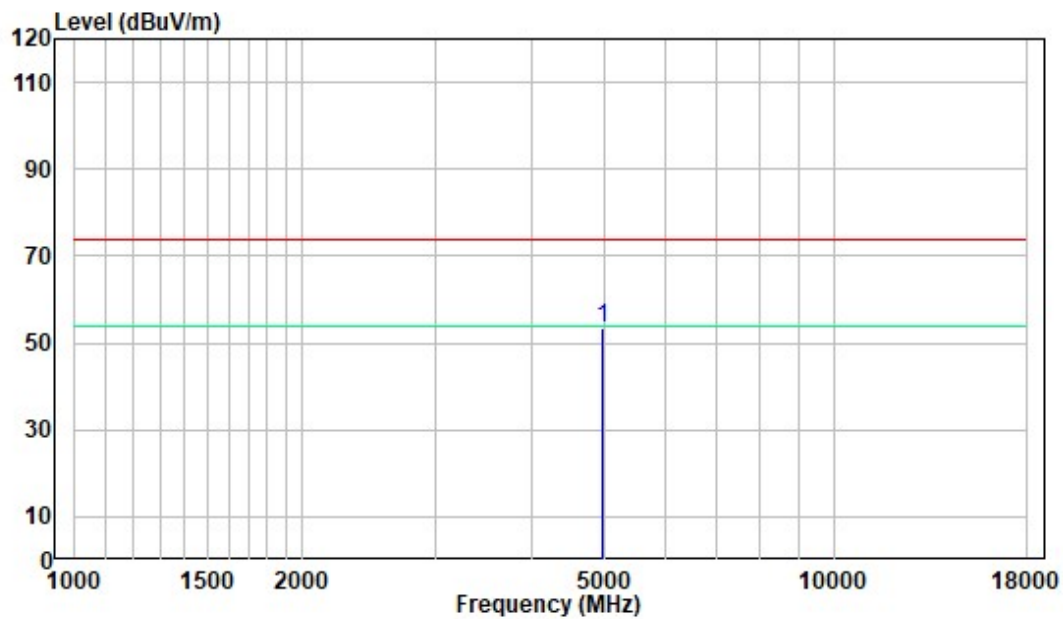
1 GHz - 18 GHz: (Pre-Scan plots)

### High Channel

#### Horizontal



#### Vertical

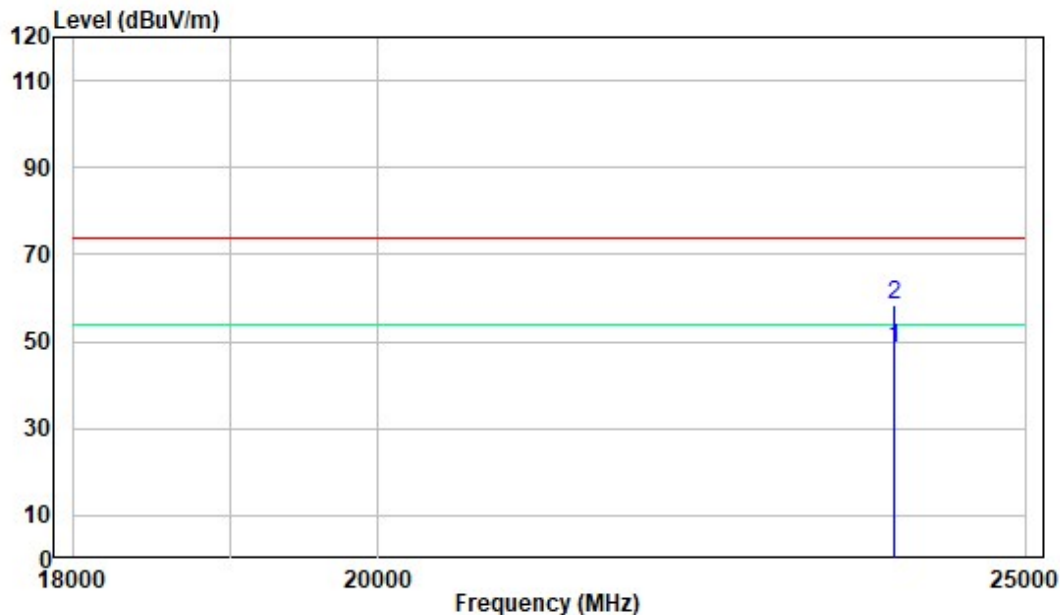




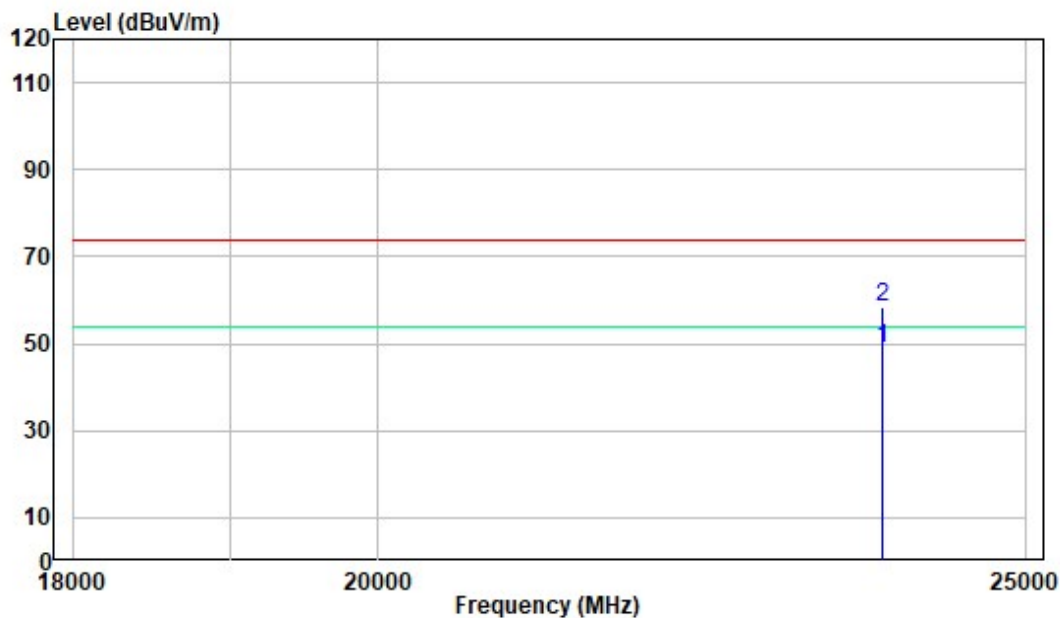
18-25GHz: (Pre-Scan plots)

High Channel

Horizontal



Vertical



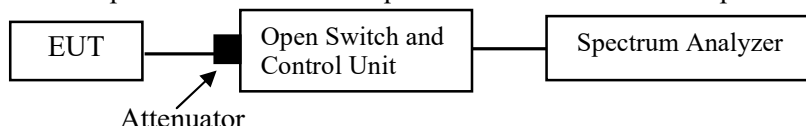
## FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

### Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



### Test Data

#### Environmental Conditions

Temperature:	21 °C
Relative Humidity:	49 %
ATM Pressure:	100.9 kPa

The testing was performed by Level Li on 2022-05-07.

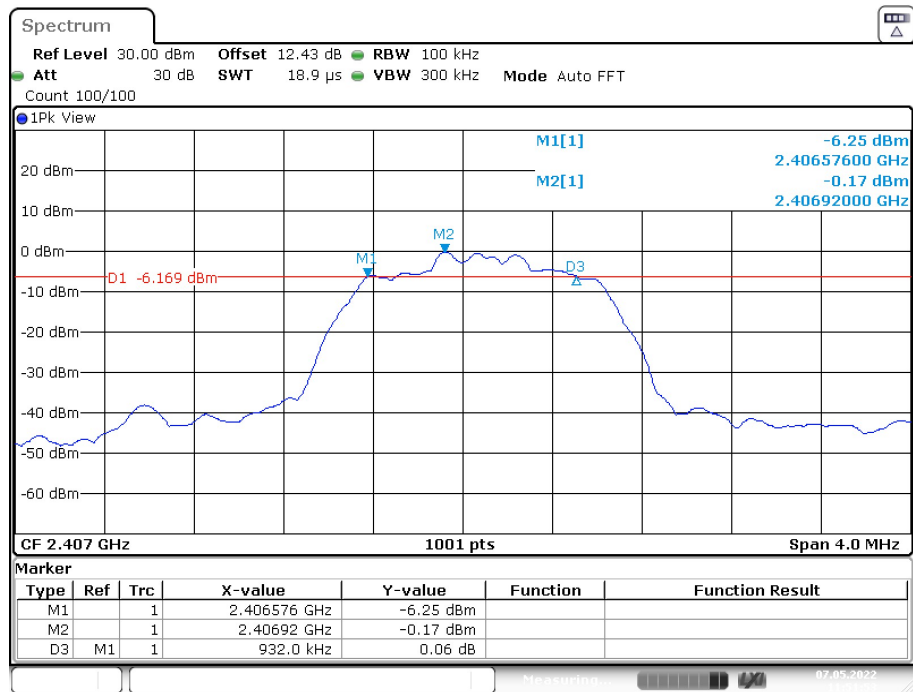
EUT operation mode: Transmitting

### Test Result

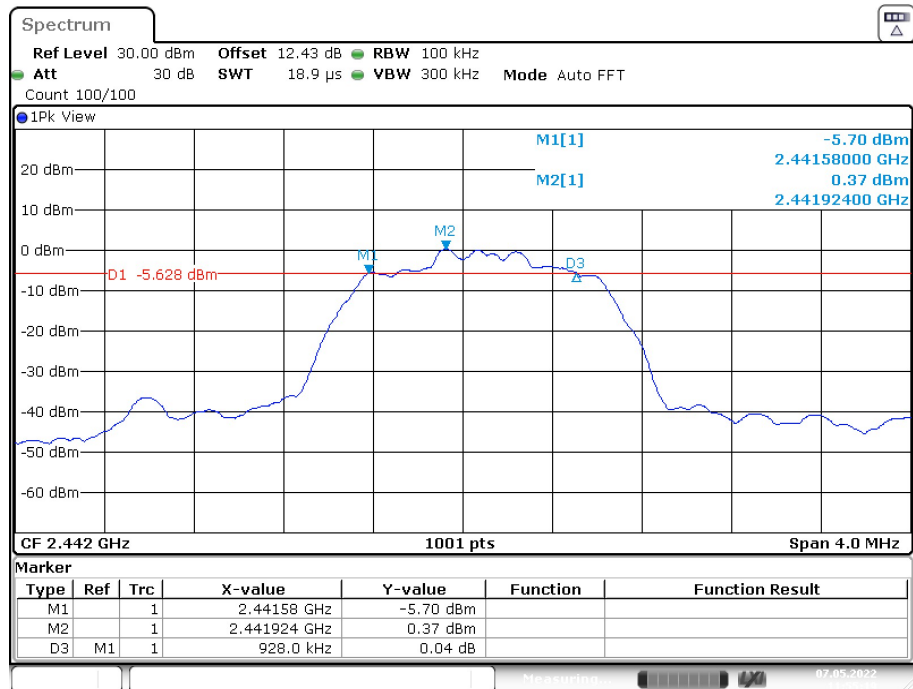
Test Mode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
2.4G SRD	Ant1	2407	0.932	0.5	PASS
		2442	0.928	0.5	PASS
		2478	0.928	0.5	PASS

Test Mode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
2.4G SRD	Ant1	2407	1.167	---	PASS
		2442	1.167	---	PASS
		2478	1.167	---	PASS

Please refer to the below plots:

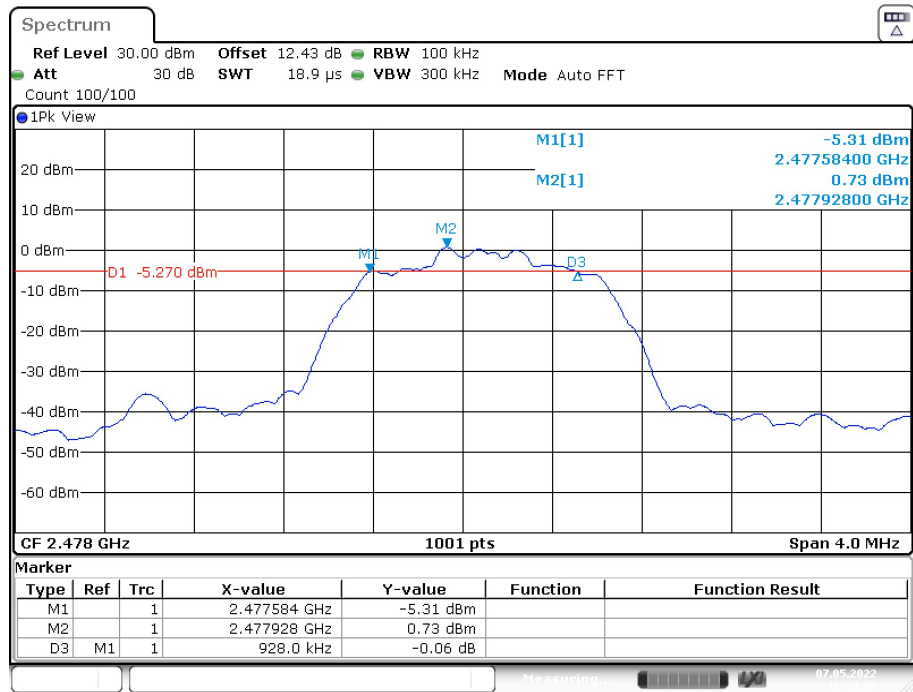
**6 dB EMISSION BANDWIDTH****Low Channel**

Date: 7.MAY.2022 11:51:53

**Middle Channel**

Date: 7.MAY.2022 11:55:19

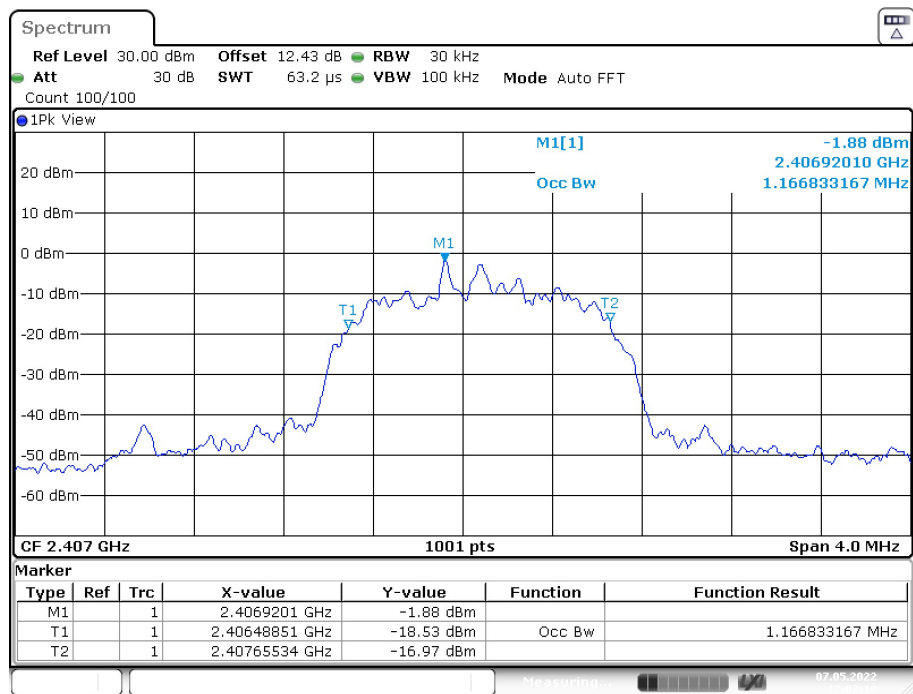
## High Channel



Date: 7.MAY.2022 16:38:09

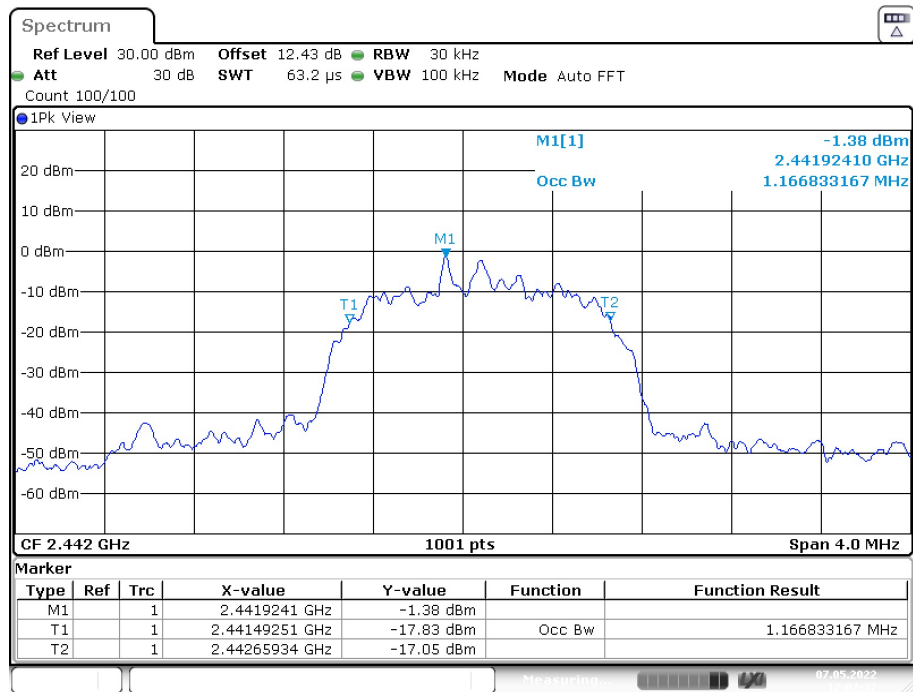
## OCCUPIED BANDWIDTH

## Low Channel



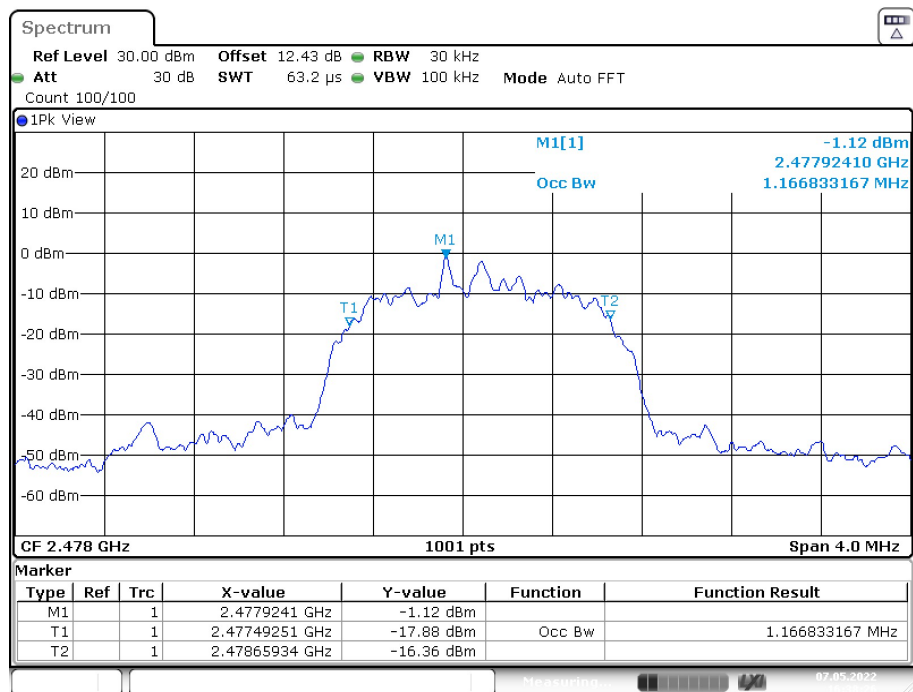
Date: 7.MAY.2022 12:02:10

## Middle Channel



Date: 7.MAY.2022 12:02:37

## High Channel



Date: 7.MAY.2022 16:38:26

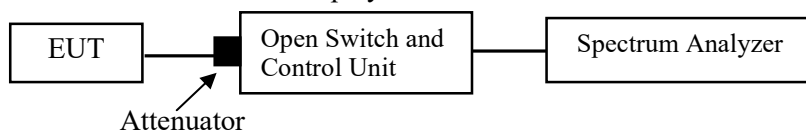
## FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

### Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

### Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



### Test Data

#### Environmental Conditions

Temperature:	21 °C
Relative Humidity:	49 %
ATM Pressure:	100.9 kPa

The testing was performed by Level Li on 2022-05-07.

EUT operation mode: Transmitting

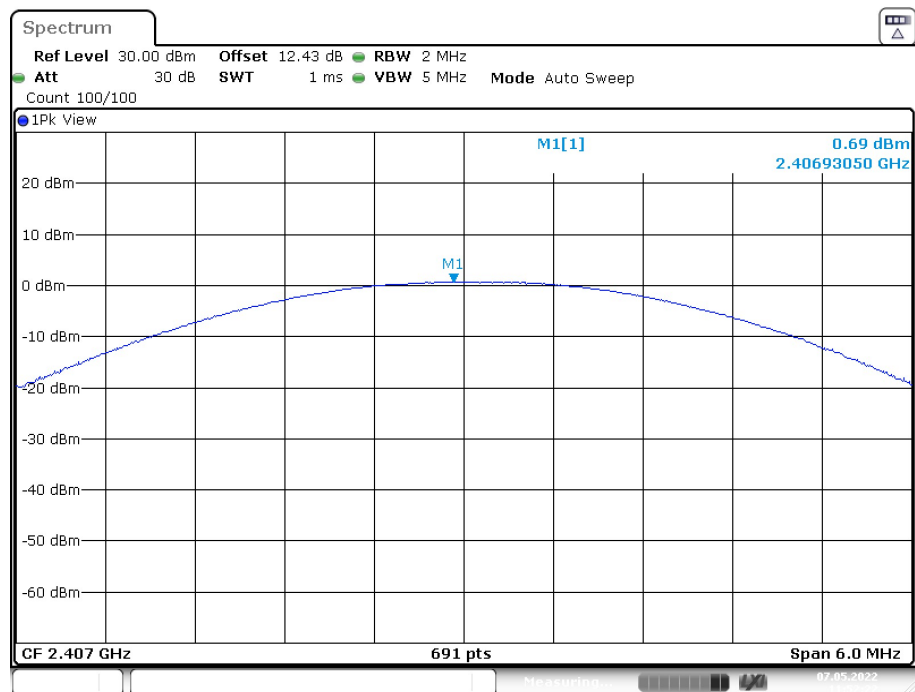
### Test Result

Test Mode	Antenna	Channel	Conducted peak output power [dBm]	Limit[dBm]	Verdict
2.4G SRD	Ant1	2407	0.69	≤30	PASS
		2442	1.2	≤30	PASS
		2478	1.53	≤30	PASS

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
2.4G SRD	Ant1	2407	0.38	1.24	30.65
		2442	0.38	1.24	30.65
		2478	0.38	1.24	30.65

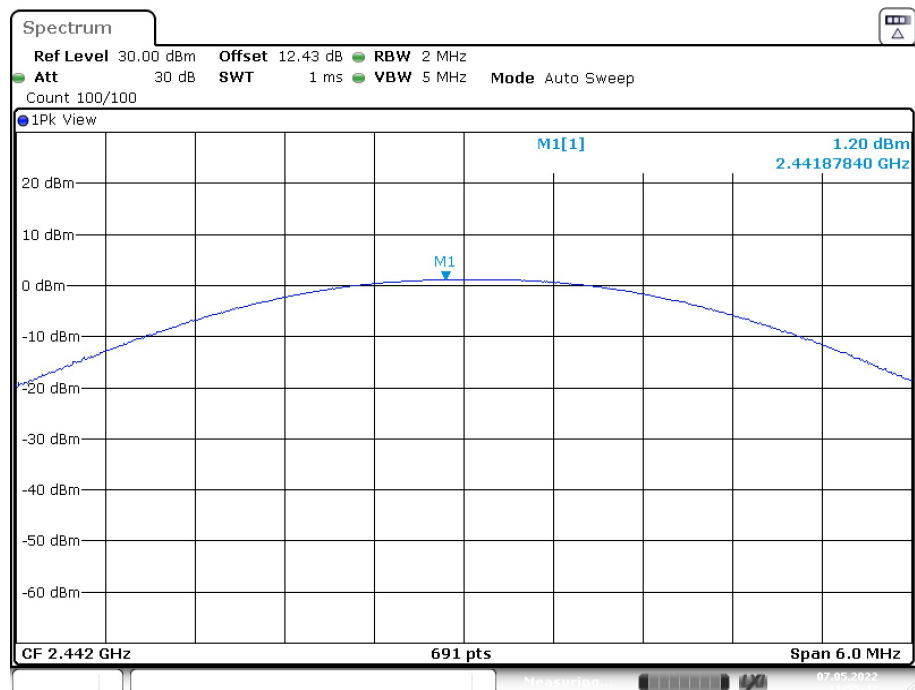
Please refer to the below plots:

## Low Channel



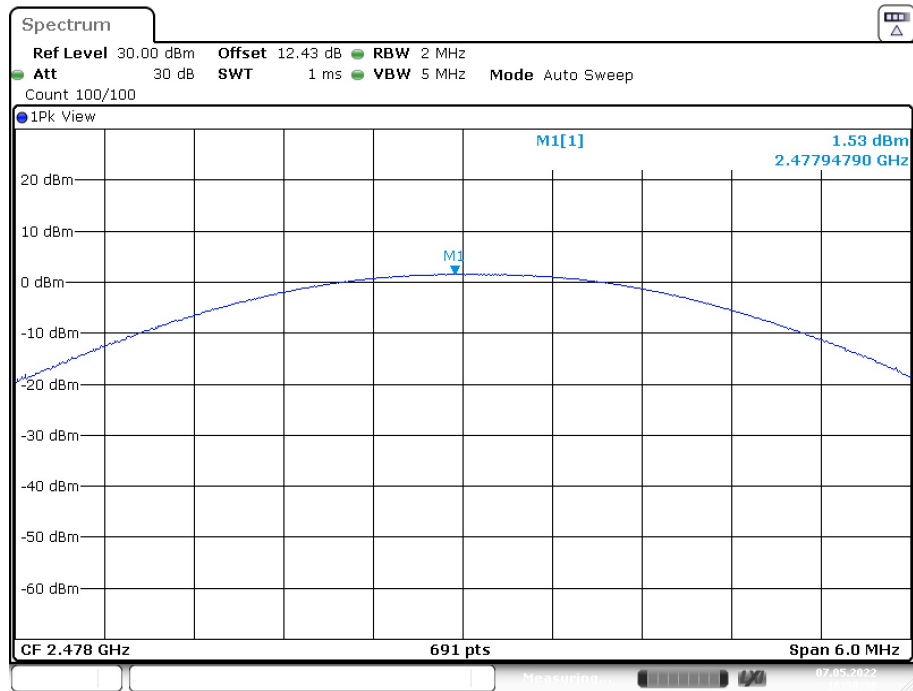
Date: 7.MAY.2022 11:52:22

## Middle Channel



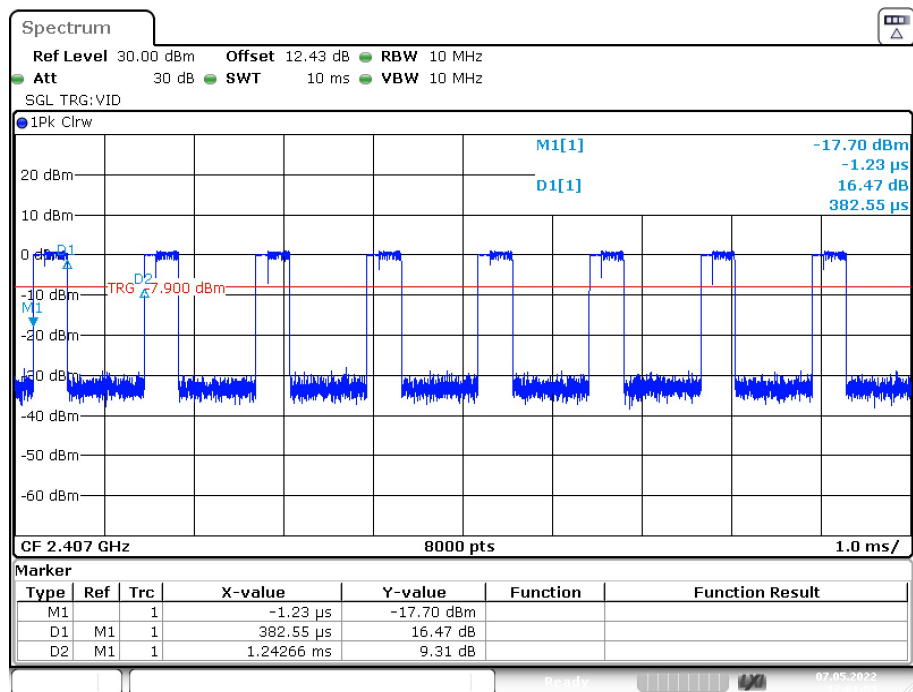
Date: 7.MAY.2022 11:55:48

## High Channel



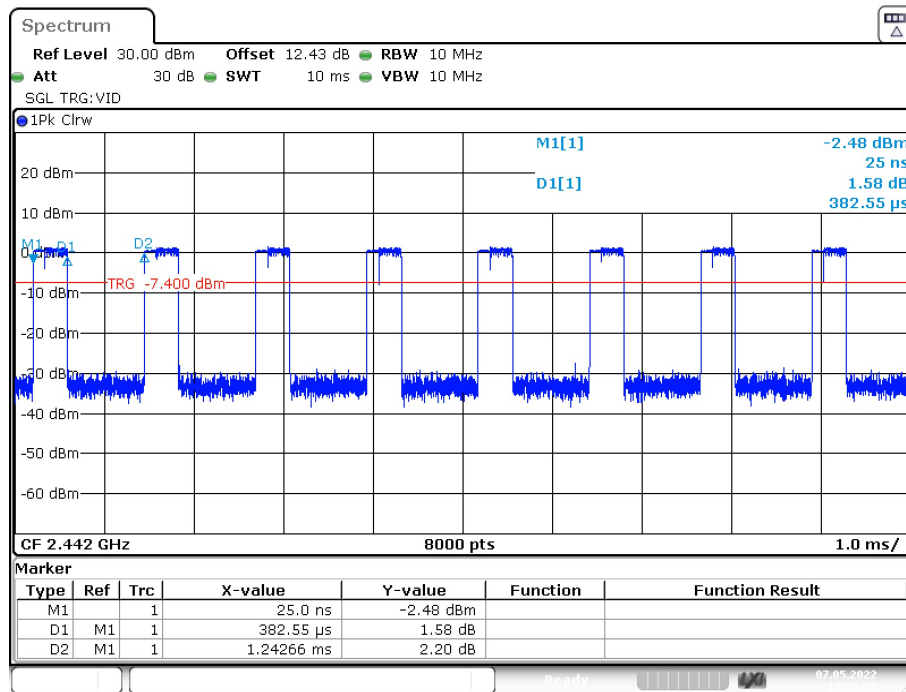
## Duty Cycle

## Low Channel



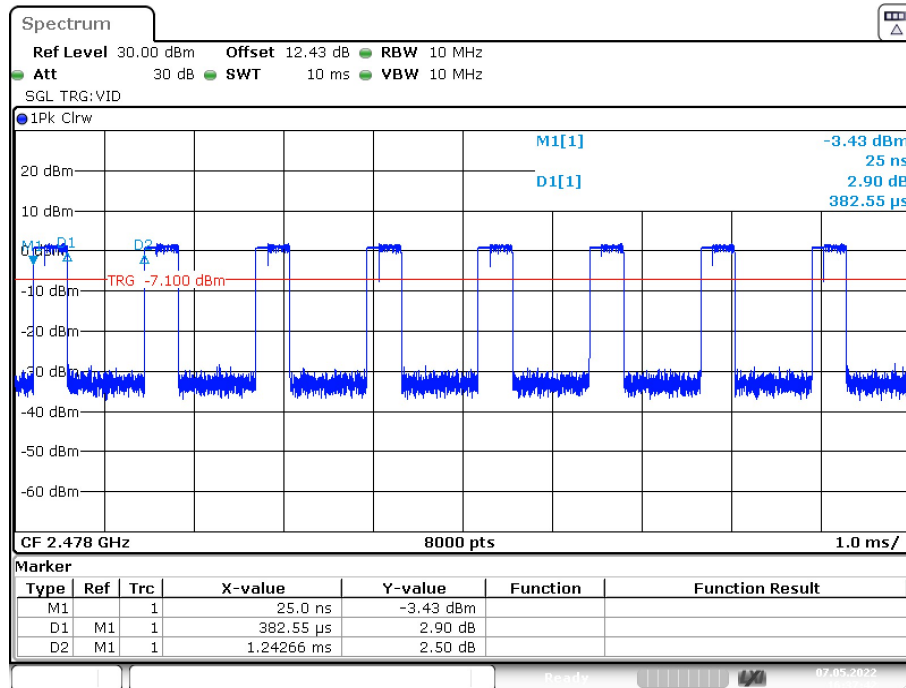


## Middle Channel



Date: 7.MAY.2022 11:54:53

## High Channel



Date: 7.MAY.2022 16:37:43

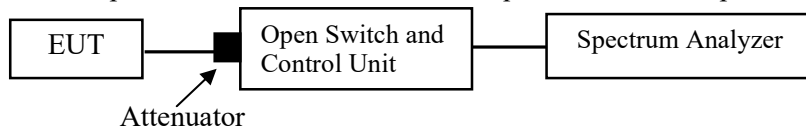
## FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

### Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



### Test Data

#### Environmental Conditions

Temperature:	21 °C
Relative Humidity:	49 %
ATM Pressure:	100.9 kPa

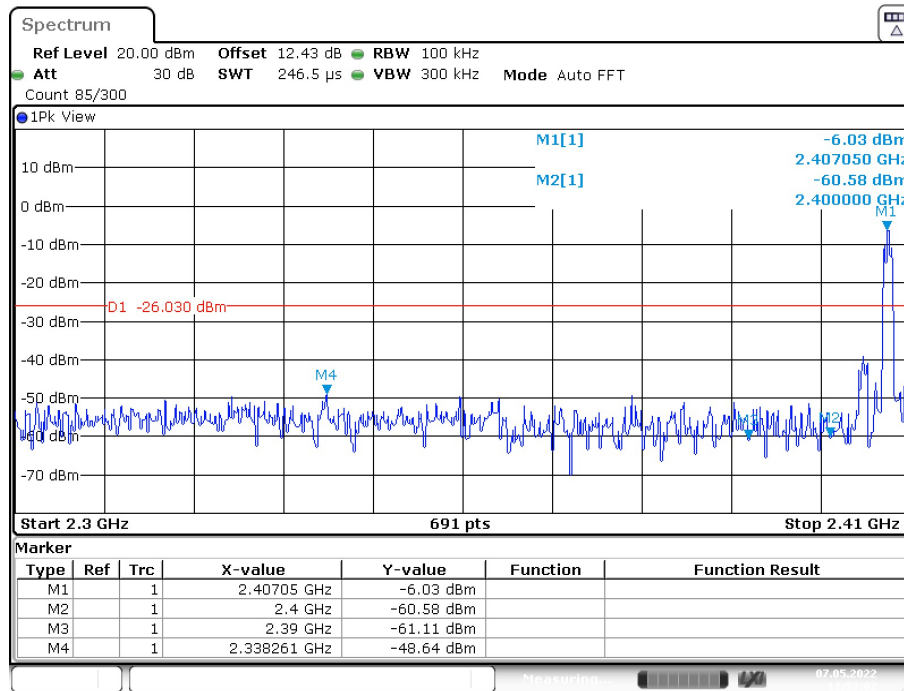
*The testing was performed by Level Li on 2022-05-07.*

*EUT operation mode: Transmitting*

Test Result: Compliant.

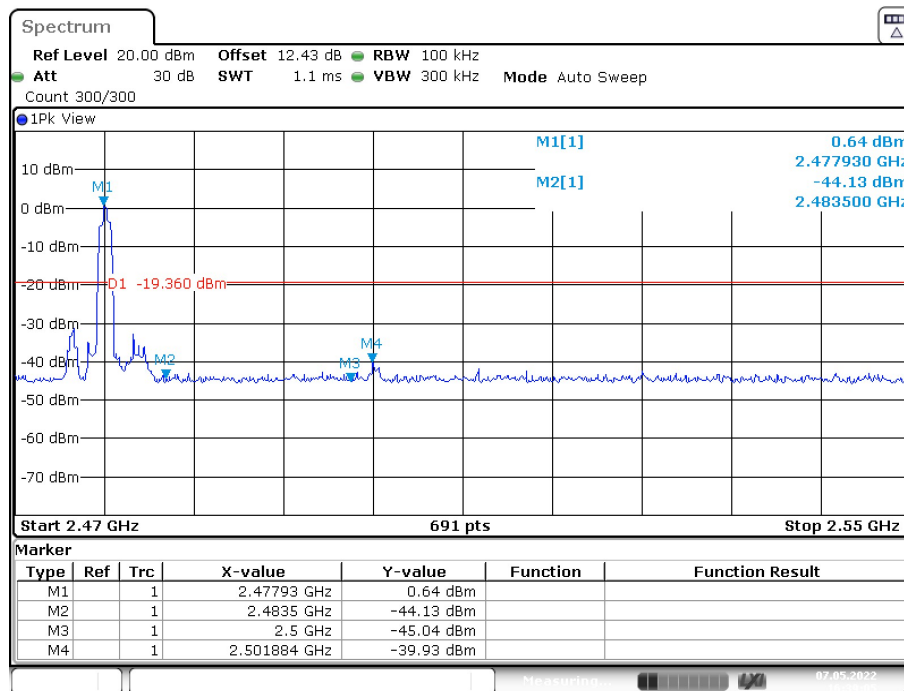
Please refer to the below plots:

## Low Channel



Date: 7.MAY.2022 11:53:02

## High Channel



Date: 7.MAY.2022 16:39:06

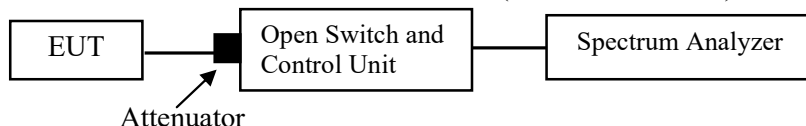
## FCC §15.247(e) - POWER SPECTRAL DENSITY

### Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW to:  $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$ .
3. Set the VBW  $\geq 3 \times \text{RBW}$ .
4. Set the span to 1.5 times the DTS bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



### Test Data

#### Environmental Conditions

Temperature:	21 °C
Relative Humidity:	49 %
ATM Pressure:	100.9 kPa

The testing was performed by Level Li on 2022-05-07.

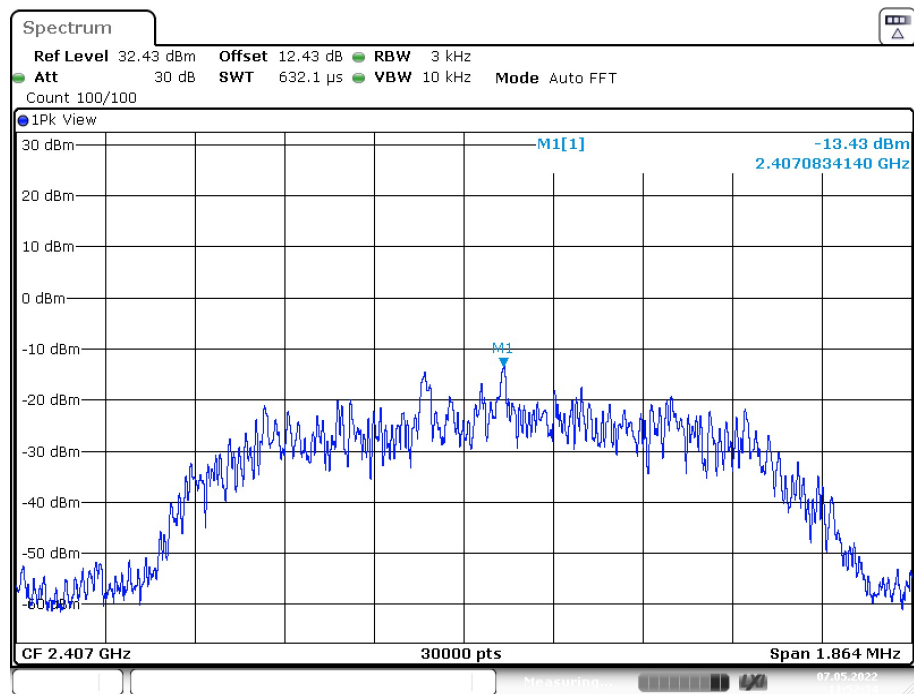
EUT operation mode: Transmitting

### Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
2.4G SRD	Ant1	2407	-13.43	$\leq 8$	PASS
		2442	-12.93	$\leq 8$	PASS
		2478	-12.35	$\leq 8$	PASS

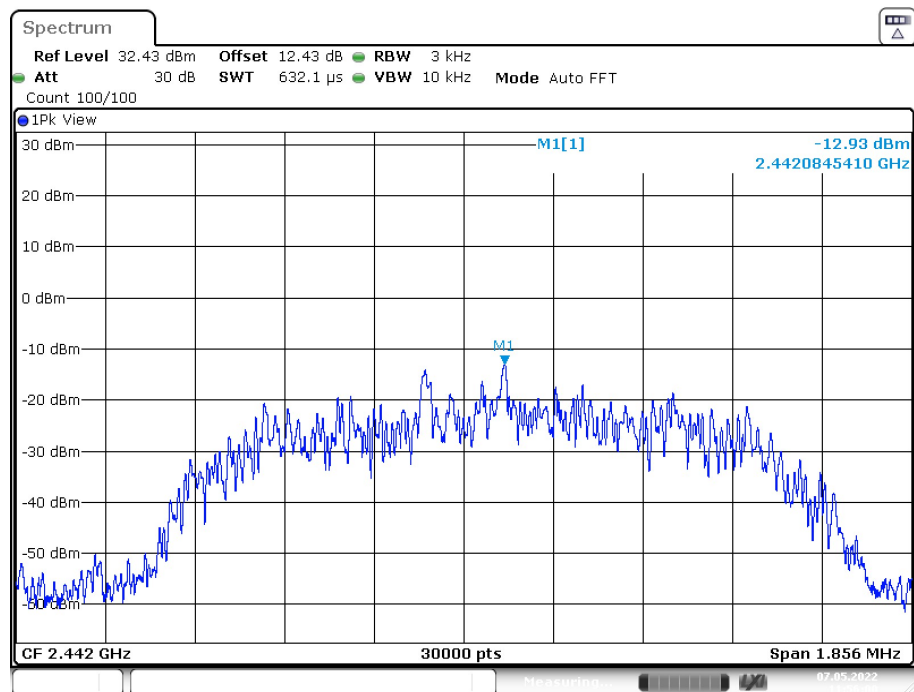
Please refer to the below plots:

## Low Channel

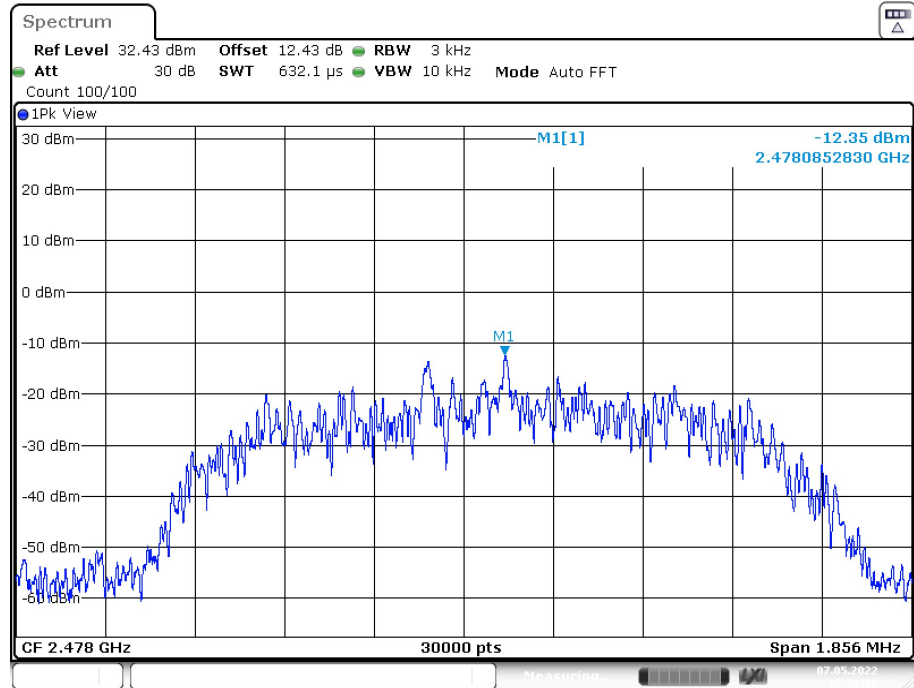


Date: 7.MAY.2022 11:52:34

## Middle Channel



Date: 7.MAY.2022 11:56:00

**High Channel**

Date: 7.MAY.2022 16:38:50

**\*\*\*\*\* END OF REPORT \*\*\*\*\***