



RADIO TEST REPORT-BLE

Article 2 paragraph 1 item (19)

MIC Notice No.88 Appendix No.43

Product : SwitchBot Thermometer and Hygrometer Plus

Trade Mark : SwitchBot

Model Name : W2201500

Family Model : W2201501, W2201502, W2201503, W2201504,
W2201505, W2201500-GH, W22000016

Report No. : N26060505402E

Prepared for

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TEST RESULT CERTIFICATION

Applicant's name Woan Technology (Shenzhen) Co., Ltd.

Address Room 1101, Qiancheng Commercial Center, No. 5 Haicheng Road, Mabu Community, Xixiang Sub-district, Bao'an District, Shenzhen, Guangdong, P.R.China, 518100

Manufacturer's Name..... Woan Technology (Shenzhen) Co., Ltd.

Address Room 1101, Qiancheng Commercial Center, No. 5 Haicheng Road, Mabu Community, Xixiang Sub-district, Bao'an District, Shenzhen, Guangdong, P.R.China, 518100

Test specification:

Standard Article 2 paragraph 1 item (19)
MIC Notice No.88 Appendix No.43

Test item description

Product name SwitchBot Thermometer and Hygrometer Plus

Model and/or type W2201500, W2201501, W2201502, W2201503, W2201504, W2201505,
reference W2201500-GH, W22000016

Rating(s) DC 3V powered by Battery

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with MIC requirements. And it is applicable only to the tested sample identified in the report.

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Testing

Date (s) of performance of tests Nov 11. 2021 ~ Nov 26. 2021

Date of Issue..... Jun 15. 2026

Test Result..... **Pass**

Note: All test data of this report are based on the original test report S21102504209001, dated by Nov 26. 2021

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※ ※ Revision History ※ ※

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--	N26060505402E	Rev.02	Jun 15. 2026	Add new model W22000016

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Standard	Method	Description of Test	Result
Article 2 paragraph 1 item (19)	MIC Notice No.88 Appendix No.43.3	Frequency Error	Complies
	MIC Notice No.88 Appendix No.43.4	Occupied Bandwidth (99%) and	Complies
	MIC Notice No.88 Appendix No.43.5	Unwanted Emission Intensity	Complies
	MIC Notice No.88 Appendix No.43.6	Antenna Power Error	Complies
	MIC Notice No.88 Appendix No.43.7	Limitation of Collateral Emission of Receiver	Complies
	MIC Notice No.88 Annex No.43.10	Transmission Antenna Gain (EIRP Antenna Power)	Complies
	MIC Notice No.88 Annex No.43.11	Transmission Radiation Angle Width (3dB Beamwidth)	N/A
	MIC Notice No.88 Annex No.43.12	Radio Interference Prevention Capability	Complies
	MIC Notice No.88 Appendix No.43.13	Spreading Factor	N/A
	MIC Notice No.88 Appendix No.43.8	Carrier Sense Capability ^{Note(3)}	N/A
	Note 2	Construction Protection Confirmation	Please refer to Japan Radio Protection Declaration

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

(2) MIC Ordinance Regulating Radio Equipment Section 1.A of Article 49.20

1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd
Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street
Bao'an District, Shenzhen 518126 P.R. China
FCC Registration No.:463705; IC Registration No.:9270A-1
CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.2\text{dB}$
2	Radiated Emission Test	$\pm 4.7\text{dB}$
3	RF power,conducted	$\pm 0.16\text{dB}$
4	Spurious emissions,conducted	$\pm 0.21\text{dB}$
5	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
6	All emissions,radiated(>1G)	$\pm 5.0\text{dB}$
7	Radio Frequency	$\pm 1 \times 10^{-6}$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	SwitchBot Thermometer and Hygrometer Plus	
Model Name	W2201500	
Trade Mark	SwitchBot	
Family Model	W2201501, W2201502, W2201503, W2201504, W2201505, W2201500-GH, W22000016	
Model Difference	All the model are the same circuit and RF module,except the Model names.	
Product Description	The EUT is a SwitchBot Thermometer and Hygrometer Plus	
	Operation Frequency:	2402~2480MHz
	Modulation Type:	GFSK
	Number Of Channel	40CH
	Antenna Designation:	Ceramic Antenna
	Antenna Gain (dBi)	0.5 dBi
Channel List	Please refer to the Note 2.	
Rating(s)	DC 3V powered by Battery	
Adapter	N/A	
Battery	DC 1.5V*2AAA	
Hardware Version	V1.0	
Software Version	V1.0	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Channel	Frequency (MHz)
00	2402
01	2404
.....	
.....	
...	...
.....	
38	2478
39	2480

3. Table for Filed Antenna

Antenna	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	Ceramic Antenna	N/A	0.5	BT Antenna

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH00
Mode 2	CH19
Mode 3	CH39

Final Test Mode	Description
Mode 1	CH00
Mode 2	CH19
Mode 3	CH39

2.3 TEST CONDITIONS

The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all Modes to determine worst case levels.

Power Supply Voltage Fluctuation Test

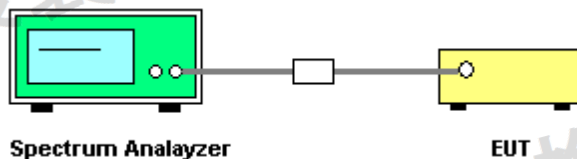
Voltage Fluctuation Test	Normal Voltage	High Voltage + 10% of Normal Voltage	Low Voltage - 10% of Normal Voltage
DC Power	DC 3V	DC 3.3V	DC 2.7V
RF Chip	DC 3.3V	DC 3.3V	DC 3.3V

NOTE:

Voltage Variation (%)

= (Output high or Low Voltage - Output Normal Voltage) / Output Normal Voltage * 100

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, + / - 10% of the external power change, will not affect the voltage of the RF, so only operated in normal voltage to test all regulations.

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)**

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
E-1	SwitchBot Thermometer and Hygrometer Plus	W2201500	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	SPECTRUM ANALYZER	AGLIENT	E4440A	MY41000130	2021.04.27	2022.04.26	1 year
2	SPECTRUM ANALYZER	AGILENT	N9020A	MY49100060	2021.04.27	2022.04.26	1 year
3	TEST RECEIVER	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
4	50Ω COAXIAL SWITCH	ANRITSU	MP59B	6200983705	2020.05.11	2023.05.10	3 year
5	HORN ANTENNA	EM	EM-AH-10180	2011071402	2021.03.29	2022.03.28	1 year
6	HORN ANT	SCHWARZBECK	BBHA 9170	9170-181	2021.04.27	2022.04.26	1 year
7	PRE-AMPLIFIER	EMC	EMC051835SE	980246	2021.07.01	2022.06.30	1 year
8	POWER METER	DARE	RPR3006W	15100041SN084	2021.07.01	2022.06.30	1 year
9	TEMPORARY ANTENNA CONNECTOR (NOTE)	NTS	R001	N/A	N/A	N/A	N/A
10	DC POWER SUPPLY	ZHAOXIN	PS-6005D	20170402923	2020.05.11	2023.05.10	3 year

Note: All the equipments for Guangzhou Lisai Calibration.

3. TEST RESULT FOR BT

3.1 FREQUENCY ERROR

3.2 LIMIT

Item	Limits
Frequency Error	±50ppm

3.3 MEASURING INSTRUMENTS AND SETTING

The following table is the setting of Spectrum Analyzer.

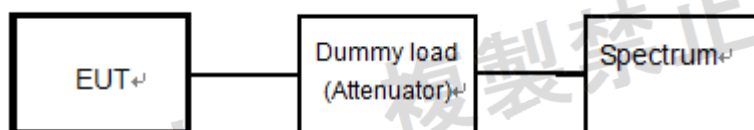
Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	10/30KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.4 TEST PROCEDURES

- (1) In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.
- (2) In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.
- (3) In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.
- (4) In the cases above, if the frequency equivalent to the test frequency is not directly measured in principle, it shall be obtained by necessary calculation.

In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized). That is, observe a signal of the signal generator concurrently (or alternately) with the tested signal using the spectrum analyzer while setting the frequency of the signal generator to the position of the dip on the screen of the spectrum analyzer, and determine the frequency of the signal generator at the time as a measured value.

3.5 TEST SETUP LAYOUT



4.1.5. EUT OPERATION DURING TEST

The EUT was placed on the test table and programmed in un-modulation function.

3.5.1 TEST RESULT

EUT :	SwitchBot Thermometer and Hygrometer Plus	Model:	W2201500
Temperature:	25°C	Tested by:	Mukzi Lee
Humidity:	55 % RH	Test Voltage	DC 3V
Operation Mode:	unmodulated		

Test data reference attachment

4. ANTENNA POWER

4.1 LIMIT

Modulation	Frequency band	Antenna power	Max EIRP		Antenna power Tolerance
			Non-directional	Beam directional ^{Note1}	
DS	2,400-2,483.5MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz	+20% No lower limit
OFDM1 ^{Note2}	2,400-2,483.5MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz	
OFDM2	2,400-2,483.5MHz	5mW/MHz	9.13dBm/MHz	19.13dBm/MHz	
FH,DS-FH,F H-OFDM	2,400-2,483.5MHz	3mW/MHz	6.91dBm/MHz	16.91dBm/MHz	
	2,427-2,470.75MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz	
Other than those above	2,400-2,483.5MHz	10mW	12.14dBm	22.14dBm	

Note 1: The half-value angle of the beam directivity must be less than $360 \div A$ degrees. A shall be the rate at which the EIRP exceeds the upper limit of the omnidirectional EIRP.

Note 2: OFDM 1 in the modulation method column indicates that the occupied frequency band width is 26 MHz or less, and OFDM 2 indicates the occupied frequency bandwidth exceeding 26 MHz and 40 MHz or less.

4.2 TEST PROCEDURES

1. Step 1:

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

- Centre Frequency: The centre frequency of the channel under test.
- Resolution BW: 1 MHz.
- Video BW: 3 MHz.
- Span: Twice of the occupied bandwidth
- Detector: Peak.
- Trace Mode: Max Hold

2. When the trace is complete, find the peak value of the power envelope and record the frequency.

3. Make the following changes to the settings of the spectrum analyser:

- Centre Frequency: Equal to the frequency recorded in step 2.
- Span: 0 MHz.
- Resolution BW: 1 MHz.
- Video BW: 1 MHz.
- Sweep time: 1 minute.
- Detector: Peak.
- Trace Mode: Max Hold.

4. When the trace is complete, capture the trace, for example using the "View" option on the spectrum analyser.

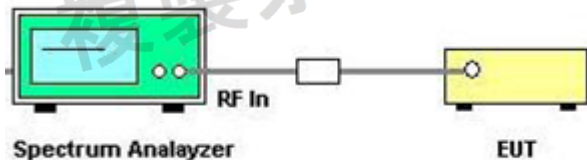
Find the peak value of the trace and place the analyser marker on this peak. This level is recorded as the highest mean power D in a 1 MHz band.

Alternatively, where a spectrum analyser is equipped with a facility to measure power, this facility may be used to display the D in dBm/MHz.

D shall be recorded in the test report

between + 20% to - 80% power range that base on manufacturer declare the conducted power density.

4.3 TEST SETUP LAYOUT



4.4 TEST DEVIATION

There is no deviation with the original standard.

4.5 TEST RESULT

EUT :	SwitchBot Thermometer and Hygrometer Plus	Model:	W2201500
Temperature:	25°C	Tested by:	Mukzi Lee
Humidity:	55 % RH	Test Voltage	DC 3V
Operation Mode:	Transmit-GFSK		

Test data reference attachment

5. OCCUPIED BANDWIDTH

5.1 LIMIT

Item	Limits
Occupied Band Width:	FH 83.5MHz; OFDM1,DS $\leq$ 26MHz; 26MHz $\leq$ OFDM 40MHz system $\leq$ 40MHz.; Others $\leq$ 26MHz

6.1.2. MEASURING INSTRUMENTS AND SETTING

6.1.3. TEST PROCEDURES

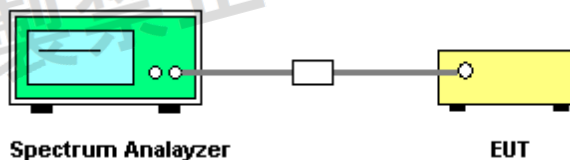
Set the spectrum analyzer as follows :

Center frequency:	Test frequency
Frequency sweep width:	About 2~3.5 times of the Nominal bandwidth
Resolution bandwidth:	3% or less of the Nominal bandwidth
Video bandwidth:	Equal to RBW
Sweep time:	Minimum time to ensure the measuring accuracy (In the case of burst wave, one burst shall be included per data point.)
Sweep mode:	Continuous sweep
Detection mode:	Positive peak
Display mode:	Maximum hold

Note: 1. Spread Spectrum Factor = Spread Spectrum Bandwidth / modulation rate of EUT.

2. Spread Spectrum Factor limit is greater than 5

6.1.4. TEST SETUP LAYOUT



6.1.5. TEST DEVIATION

There is no deviation with the original standard.

6.1.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

5.2 TEST RESULT

EUT:	SwitchBot Thermometer and Hygrometer Plus	Model:	W2201500
Temperature:	25°C	Tested by:	Mukzi Lee
Humidity:	55 % RH	Test Voltage	DC 3V
Operation Mode:	Transmit-GFSK		

Test data reference attachment

6. UNWANTED EMISSION INTENSITY MEASUREMENT

6.1 LIMIT

Item	Limits
TX Spurious Emission	$\leq 2.5 \mu\text{W}$ ($30\text{MHz} \leq f \leq 1000\text{MHz}$)
	$\leq 2.5 \mu\text{W}$ ($1000\text{MHz} < f \leq 2387\text{MHz}$)
	$\leq 25 \mu\text{W}$ ($2387\text{MHz} < f \leq 2400\text{MHz}$)
	$\leq 25 \mu\text{W}$ ($2483.5\text{MHz} \leq f < 2496.5\text{MHz}$)
	$\leq 2.5 \mu\text{W}$ ($2496.5\text{MHz} \leq f < 12500\text{MHz}$)

6.2 MEASURING INSTRUMENTS AND SETTING

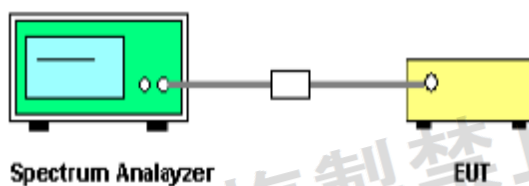
Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	Below 1GHz RB:100KHz / VB:100KHz Above 1GHz RB:1MHz / VB:1MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.3 TEST PROCEDURES

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: Below 1GHz RB:100KHz / VB:100KHz
Above 1GHz RB:1MHz / VB:1MHz / AT: 10dB Ref: 0dBm / Sweep time: Auto
Sweep Mode: Continuous sweep / Detect mode: Positive peak
Trace mode: Max hold
3. Setting of SA is following as 30MHz and stop frequency 1000MHz Then to mark peak reading value + cable loss shall be less than 2.5μW.
4. Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5μW.
5. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25μW.
6. SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25μW
7. SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5μW
8. Measure side band spurious as follows: For 2.4GHz band: 2374MHz~2400MHz and 2483.5MHz~2509.5MHz RBW = VBW = 30kHz, Result_Value = Measured_Value + 15.2 [dBm]
9. If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result_Value.

6.4 TEST SETUP LAYOUT



6.5 TEST DEVIATION

There is no deviation with the original standard.

6.6 TEST RESULT

EUT :	SwitchBot Thermometer and Hygrometer Plus	Model:	W2201500
Temperature:	25°C	Tested by:	Mukzi Lee
Humidity:	55 % RH	Test Voltage	DC 3V
Operation Mode:	Transmit-GFSK (CH00, CH19, CH39)		

Test data reference attachment

7. IMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT

7.1 LIMIT

Item	Limits
RX Spurious Emission:	$\leq 4\text{nW}$ ($f < 1\text{GHz}$)
	$\leq 20\text{nW}$ ($1\text{GHz} \leq f$)

7.2 MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
VB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.3 TEST PROCEDURES

- EUT have the continuous reception mode and fixed only one channelize.
- Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) /
AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
- SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW
- If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

7.4 TEST RESULT

EUT :	SwitchBot Thermometer and Hygrometer Plus	Model:	W2201500
Temperature:	25°C	Tested by:	Mukzi Lee
Humidity:	55 % RH	Test Voltage	DC 3V
Operation Mode:	Receiver-GFSK (CH00, CH19, CH39)		

Test data reference attachment

8. TRANSMISSION ANTENNA GAIN (EIRP ANTENNA POWER) MEASUREMENT

8.1 LIMIT

Modulation	Frequency band	Antenna power	Max EIRP	
			Non-directional	Beam directional ^{Note1}
DS	2,400-2,483.5MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz
OFDM1 ^{Note2}	2,400-2,483.5MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz
OFDM2	2,400-2,483.5MHz	5mW/MHz	9.13dBm/MHz	19.13dBm/MHz
FH,DS-FH,FH-O FDM	2,400-2,483.5MHz	3mW/MHz	6.91dBm/MHz	16.91dBm/MHz
	2,427-2,470.75MHz z	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz
Other than those above	2,400-2,483.5MHz	10mW	12.14dBm	22.14dBm

Note 1: The half-value angle of the beam directivity must be less than $360 \div A$ degrees. A shall be the rate at which the EIRP exceeds the upper limit of the omnidirectional EIRP.

Note 2: OFDM 1 in the modulation method column indicates that the occupied frequency band width is 26 MHz or less, and OFDM 2 indicates the occupied frequency bandwidth exceeding 26 MHz and 40 MHz or less.

8.2 MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB/VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.3 TEST PROCEDURES

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Move the measuring antenna height up and down within ± 50 cm of EUT height and swing it to find the maximum output of the measuring antenna. The output level at the spectrum analyzer is read as "E".
3. Remove the EUT from the turn table and put the replacing antenna facing to measuring antenna at same height. Set the standard signal generator (SSG) at same frequency and transmit on then receive the signal
4. Swing the replacing antenna give a maximum receiving level.
5. Move the measuring antenna height up and down within ± 50 cm of replacing antenna height and swing it to find the maximum receiving level.
6. Set SSG output power at P_t to give the equivalent output level of "E" or calculate P_t with SSG output which gives the nearest of "E" and difference (± 1 dB). Record the P_t .
7. Calculate EIRP by the formula below $EIRP = G_t - L + P_t$.

Gt: gain of replacing antenna (dBi)

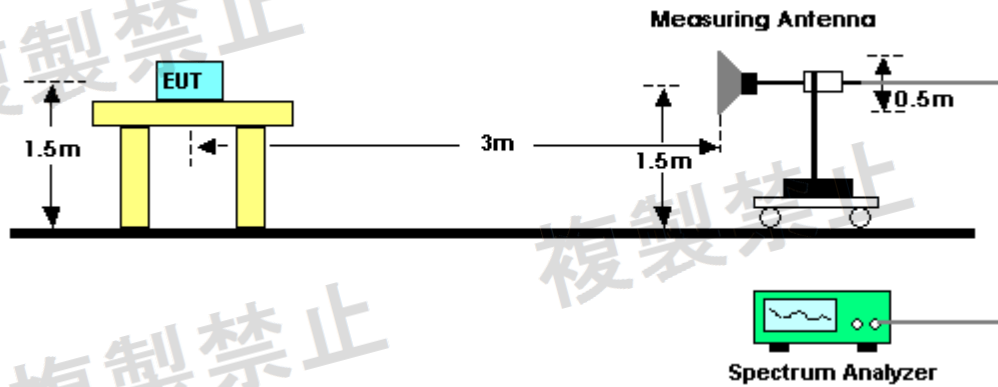
L: feeder loss between SSG and replacing antenna

Pt: Output power of the SSG

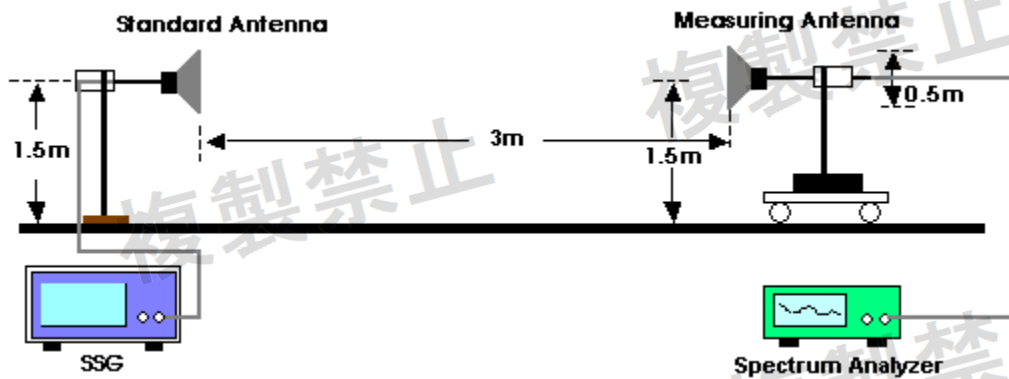
8. If the antenna for the EUT has circular polarization, sum of V-field and H-field will be result if measuring antenna is linear polarization.

8.4 TEST SETUP LAYOUT

For EUT radiation measurement



For standard antenna measurement



8.5 TEST DEVIATION

There is no deviation with the original standard.

8.6 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

8.7 RESULTS OF TRANSMISSION ANTENNA GAIN

EUT :	SwitchBot Thermometer and Hygrometer Plus	Model:	W2201500
Temperature:	25°C	Tested by:	N/A
Humidity:	55 % RH	Test Voltage	N/A
Operation Mode:	N/A		

Note: The peak antenna gain of the EUT which is less than 12.14dBi, Not applicable.

9. TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH) MEASUREMENT

9.1 LIMIT

Item	Limits
3dB antenna beam width	$360/A$ (If $A < 1$; then $A = 1$) $A = \{\text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM}\}$ or $A = \{\text{EIRP Power [mW]} / 4.9 \text{ for FH}\}$
Note: This test item is not applied for radio equipment with equivalent isotropic radiation power lower than 12.14dBm/MHz, but Antenna Power(Conducted) limit is 10 mW/MHz (10 dBm/MHz), So the test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less	

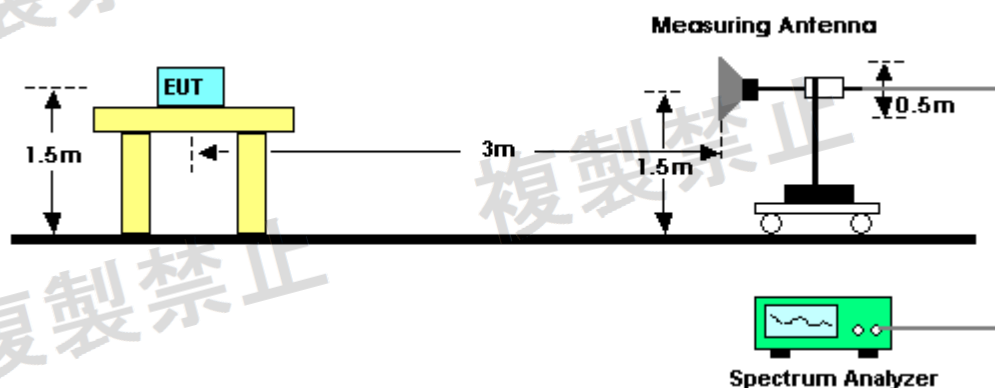
9.2 MEASURING INSTRUMENTS AND SETTING

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RB	1 MHz
VB	1 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

9.3 TEST PROCEDURES

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Set spectrum analyzer with condition in section 4.7.2 and tune reference level to observe receiving signal position.
3. Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
4. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of measuring antenna. The output level at the spectrum analyzer is read as "E"
5. Calculate permitted radiation angle in horizontal and vertical using EIRP measured in another test method.
6. Calculate 3dB antenna beam width by the formula below $360/A$ (If $A < 1$; then $A = 1$).
 $A = \{\text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM}\}$ or
 $A = \{\text{EIRP Power [mW]} / 4.9 \text{ for FH}\}$

9.4 TEST SETUP LAYOUT



9.5 TEST DEVIATION

There is no deviation with the original standard.

9.6 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

9.7 TEST RESULT OF TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH)

EUT :	SwitchBot Thermometer and Hygrometer Plus	Model:	W2201500
Temperature:	25°C	Tested by:	N/A
Humidity:	55 % RH	Test Voltage	N/A
Operation Mode:	N/A		

Note: This item is not applicable, when EIRP power is lower than the limit of 12.14dBm/MHz.

10. RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT**10.1 LIMIT**

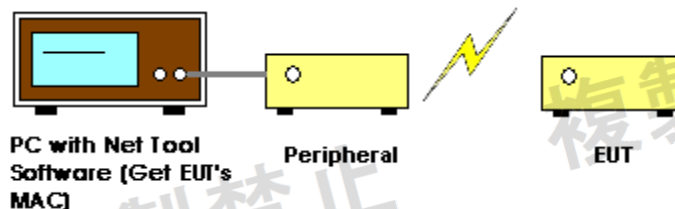
Item	Limits
Identification code	≥ 48 bits

10.2 MEASURING ID CODE SOFTWARE

Item	Limits
MAC IP List	MAC Scan

10.3 TEST PROCEDURES

1. In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the signals other than predetermined ID codes from the counterpart. d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

10.4 TEST SETUP LAYOUT**10.5 TEST DEVIATION**

There is no deviation with the original standard.

10.6 EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmitting mode.

10.7 TEST RESULT OF RADIO INTERFERENCE PREVENTION CAPABILITY

	Normal voltage	Low voltage	High voltage
Result	OK	OK	OK

Mac address: A4:C2:35:4A:03:52

Result: OK

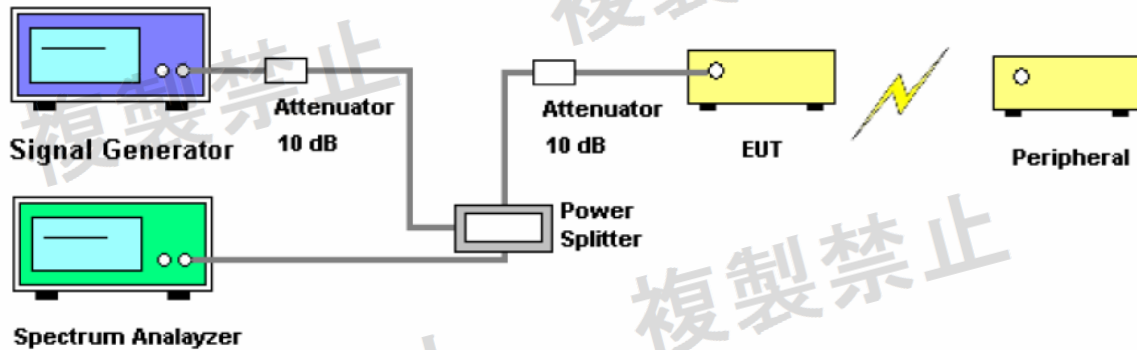
11. CARRIER SENSE CAPABILITY

Limit

EUT stop RF transmission signal after carrier inject to EUT

Test Procedure

Measurement System Diagram



1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is $(on\ 22.79 + G - 20 \cdot \log(f) \text{ dBm})$ (G is the antenna gain, f is the test frequency).
2. turn off the RF signal of the SG.
3. EUT have transmitted the maximum modulation signal and fixed channelize.
4. Setting of SA :RBW/VBW=1MHz/1MHz, Span=50MHz, Sweep time=auto, Sweep mode=continuous, Detect mode=positive peak
5. SG RF signal on.
6. EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous transmitted signal.

	Normal Voltage	High Voltage	Low Voltage
Result	N/A	N/A	N/A

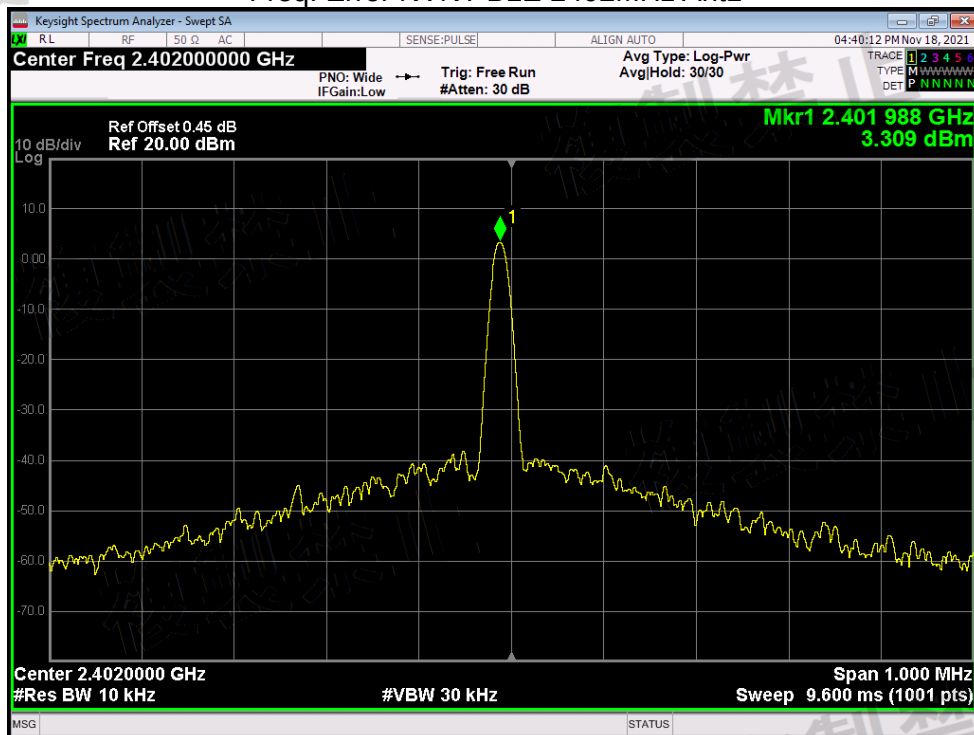
12. TEST RESULTS

1M

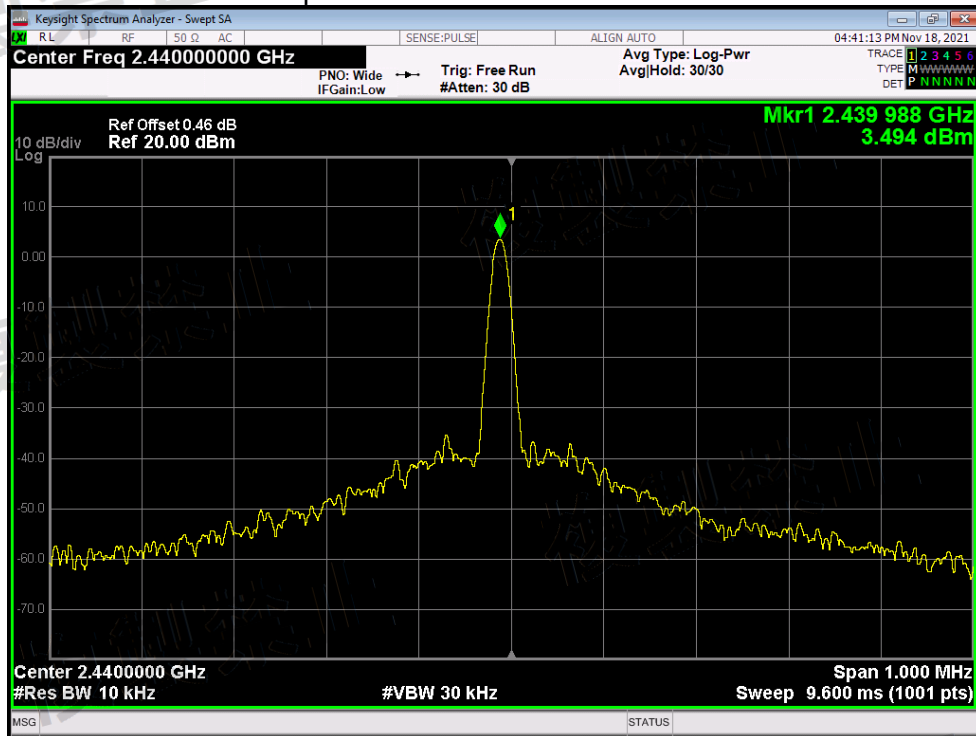
12.1 FREQUENCY ERROR

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	BLE	2402	Ant1	2401.988	-5	50	Pass
NVNT	BLE	2440	Ant1	2439.988	-4.92	50	Pass
NVNT	BLE	2480	Ant1	2479.988	-4.84	50	Pass

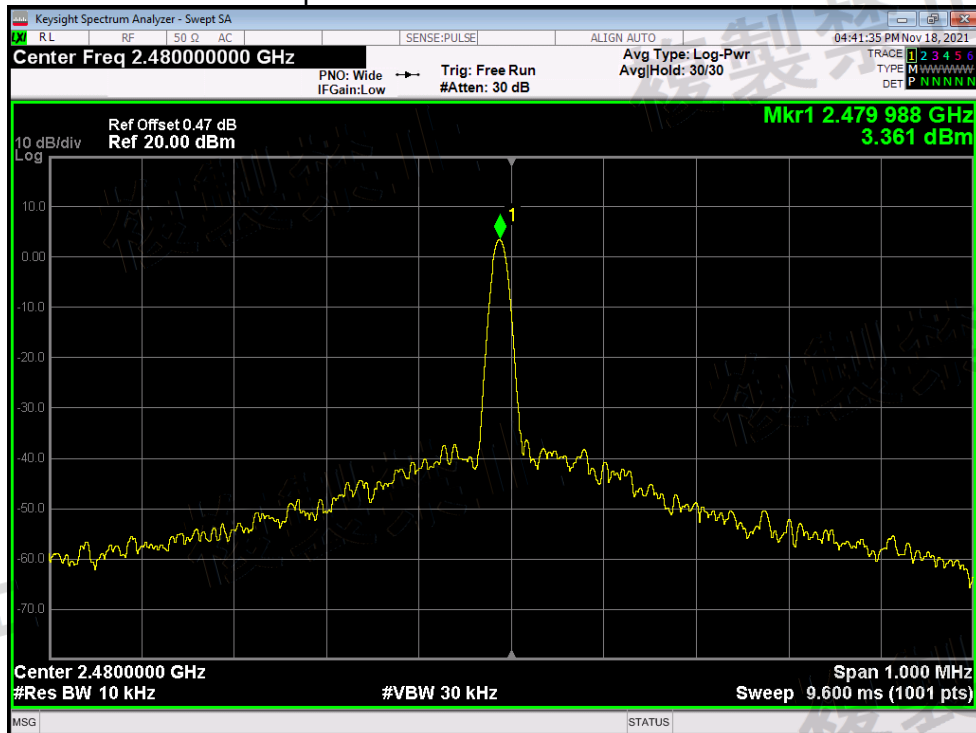
Freq. Error NVNT BLE 2402MHz Ant1



Freq. Error NVNT BLE 2440MHz Ant1



Freq. Error NVNT BLE 2480MHz Ant1



12.2 ANTENNA AND EIRP POWER

Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (mW)	Declared Power (mW)	Tolerance (%)	Upper Limit (%)	Verdict
NVNT	BLE	2402	Ant1	0.737	1	-26.3	20	Pass
NVNT	BLE	2440	Ant1	0.867	1	-13.3	20	Pass
NVNT	BLE	2480	Ant1	0.75	1	-25	20	Pass

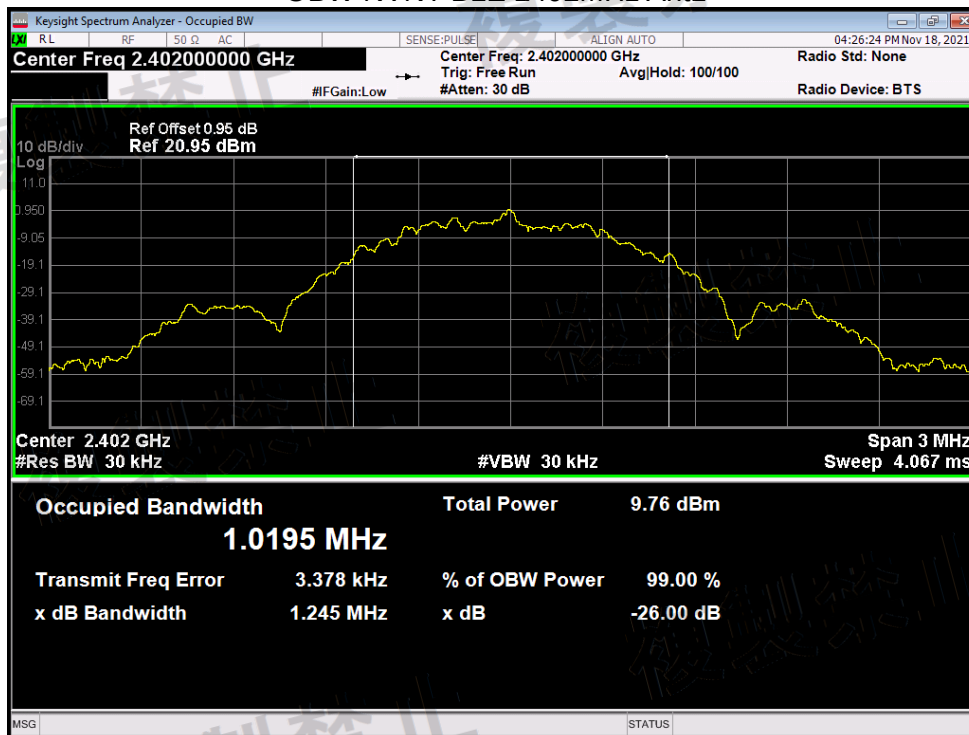
12.3 EIRP POWER

Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (dBm)	Gain (dBi)	EIRP Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	-1.328	0.5	-0.828	12.14	Pass
NVNT	BLE	2440	Ant1	-0.619	0.5	-0.119	12.14	Pass
NVNT	BLE	2480	Ant1	-1.249	0.5	-0.749	12.14	Pass

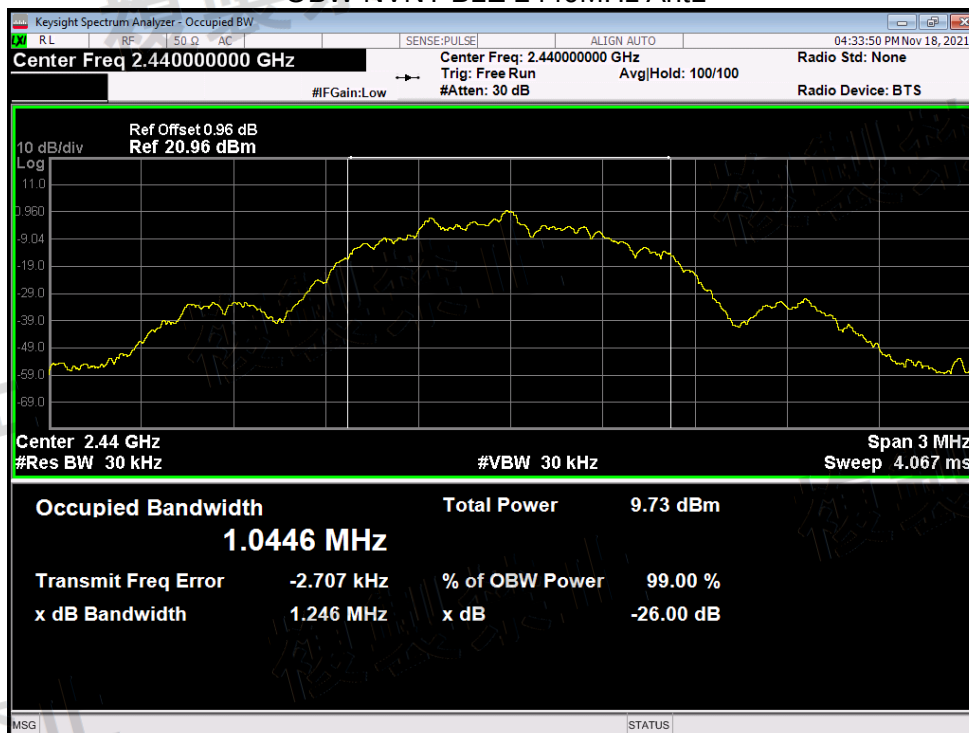
12.4 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE	2402	Ant1	1.02
NVNT	BLE	2440	Ant1	1.045
NVNT	BLE	2480	Ant1	1.049

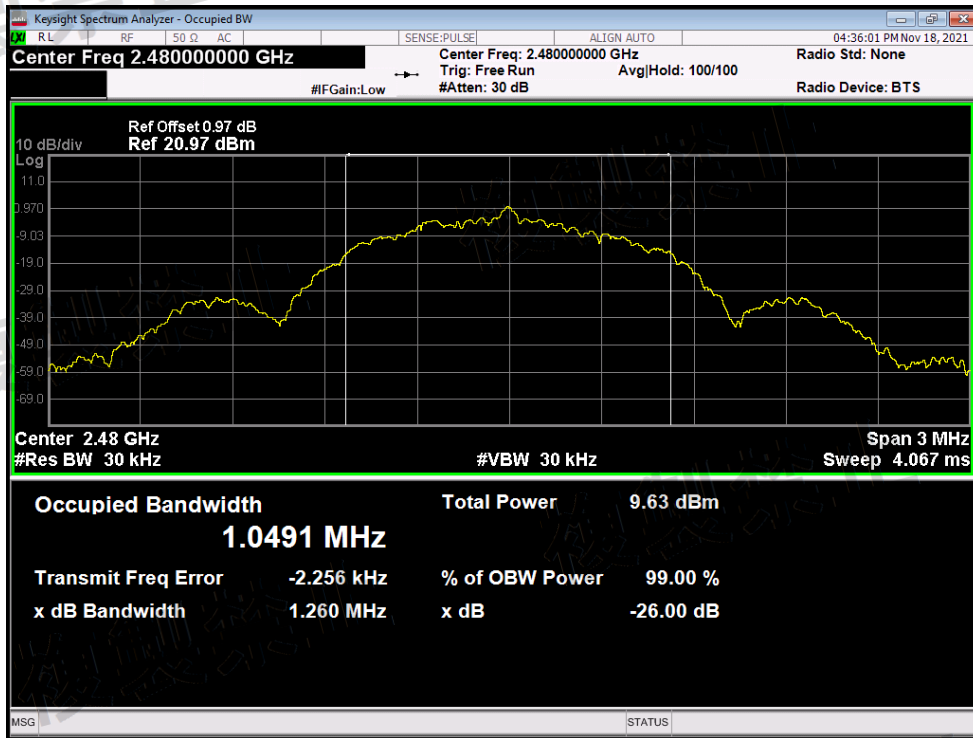
OBW NVNT BLE 2402MHz Ant1



OBW NVNT BLE 2440MHz Ant1



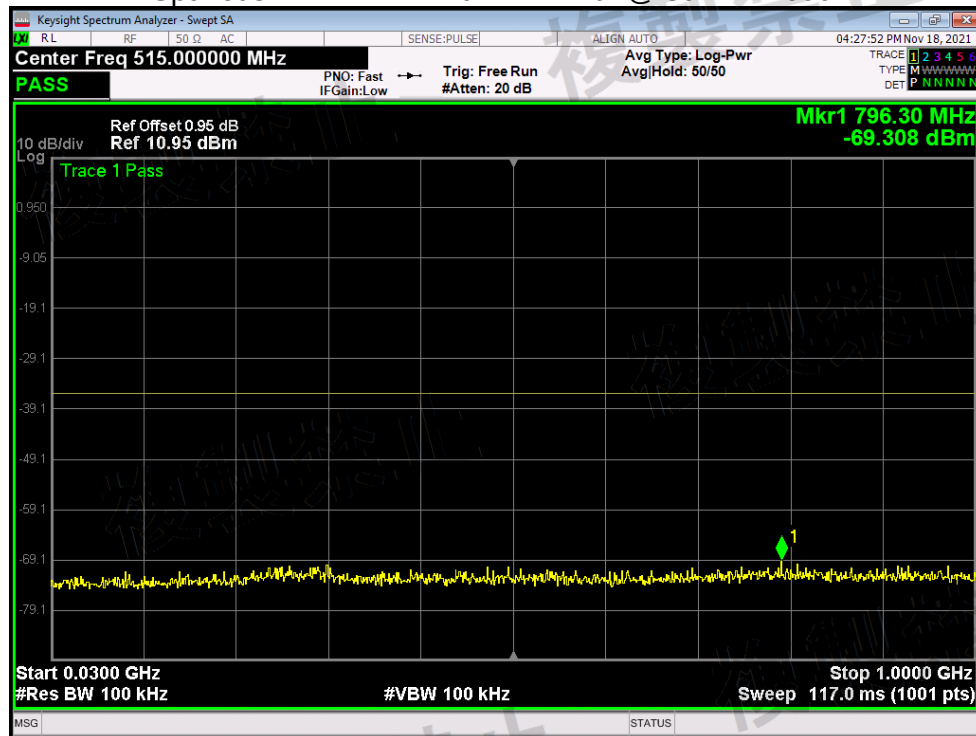
OBW NVNT BLE 2480MHz Ant1



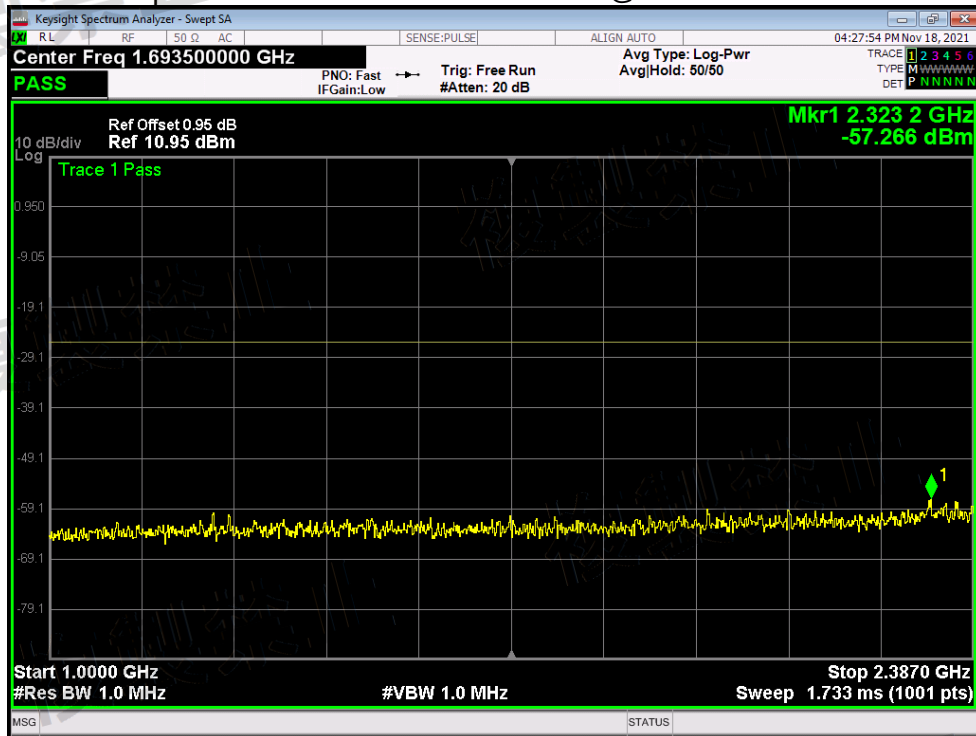
12.6 TX SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Max Value (uW)	Limit Start (uW)	Limit Stop (uW)	Verdict
NVNT	BLE	2402	Ant1	30-1000	796.3	-69.308	0.00012	0.25	0.25	Pass
NVNT	BLE	2402	Ant1	1000-2387	2323.198	-57.266	0.00188	2.5	2.5	Pass
NVNT	BLE	2402	Ant1	2387-2400	2400	-34.127	0.38663	25	25	Pass
NVNT	BLE	2402	Ant1	2483.5-2496.5	2492.47	-58.366	0.00146	25	25	Pass
NVNT	BLE	2402	Ant1	2496.5-13000	12947.483	-56.422	0.00228	2.5	2.5	Pass
NVNT	BLE	2440	Ant1	30-1000	305.48	-68.366	0.00015	0.25	0.25	Pass
NVNT	BLE	2440	Ant1	1000-2387	2352.325	-58.004	0.00158	2.5	2.5	Pass
NVNT	BLE	2440	Ant1	2387-2400	2399.155	-57.092	0.00195	25	25	Pass
NVNT	BLE	2440	Ant1	2483.5-2496.5	2495.031	-57.801	0.00166	25	25	Pass
NVNT	BLE	2440	Ant1	2496.5-13000	12191.231	-55.665	0.00271	2.5	2.5	Pass
NVNT	BLE	2480	Ant1	30-1000	291.9	-68.816	0.00013	0.25	0.25	Pass
NVNT	BLE	2480	Ant1	1000-2387	2201.142	-58.347	0.00146	2.5	2.5	Pass
NVNT	BLE	2480	Ant1	2387-2400	2399.935	-57.421	0.00181	25	25	Pass
NVNT	BLE	2480	Ant1	2483.5-2496.5	2484.397	-45.994	0.02515	25	25	Pass
NVNT	BLE	2480	Ant1	2496.5-13000	12233.244	-55.78	0.00264	2.5	2.5	Pass

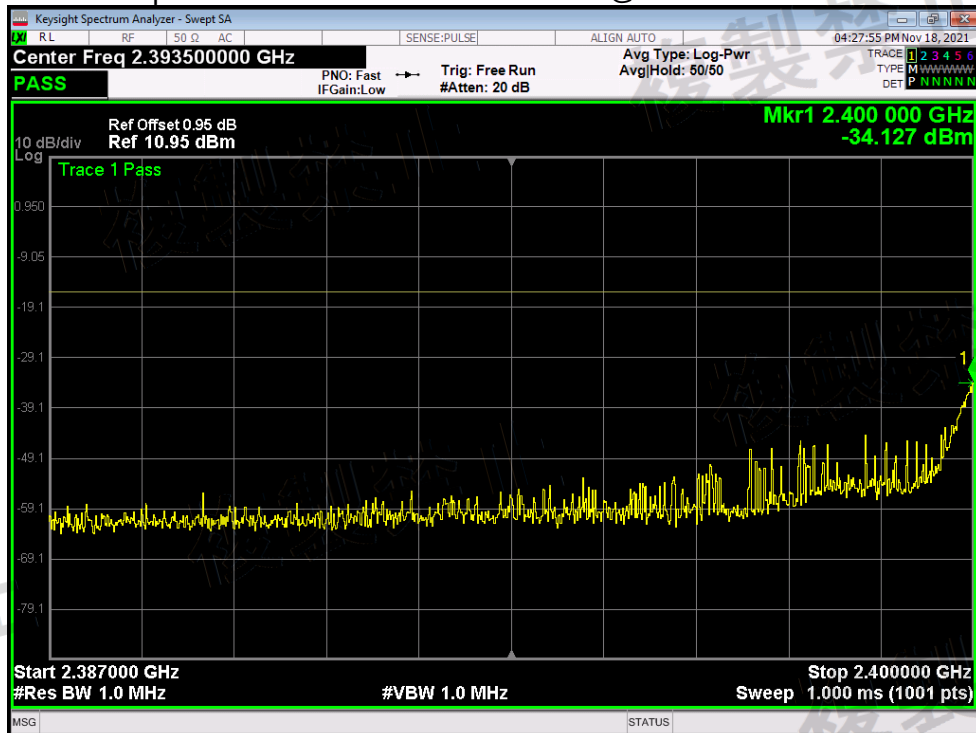
Tx. Spurious NVNT BLE 2402MHz Ant1 @ 30MHz-1000MHz



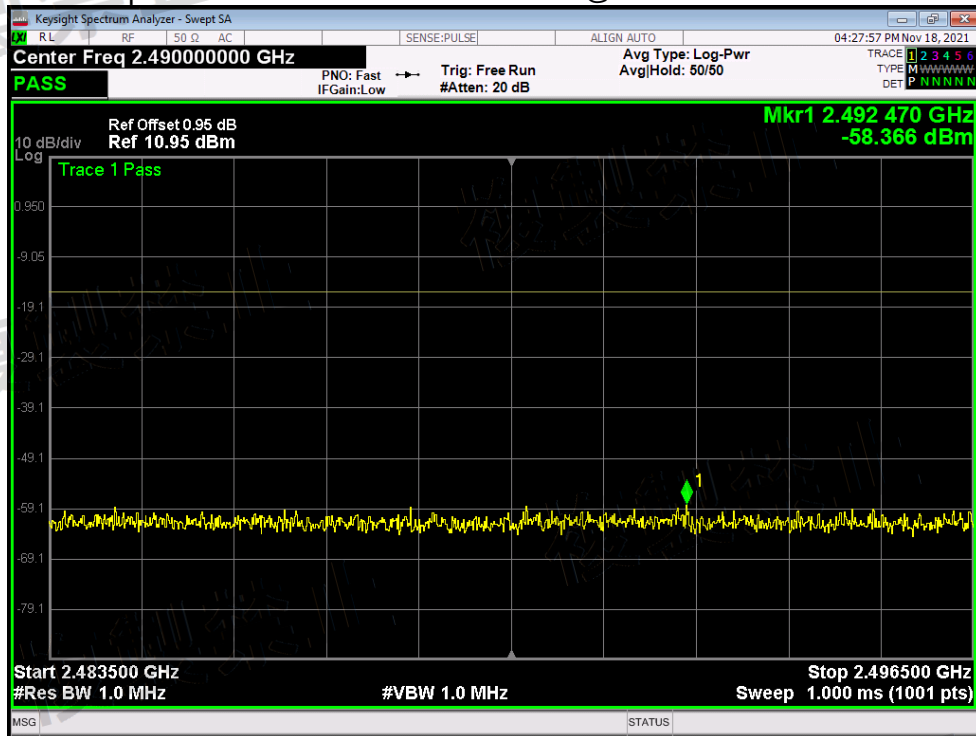
Tx. Spurious NVNT BLE 2402MHz Ant1 @ 1000MHz-2387MHz



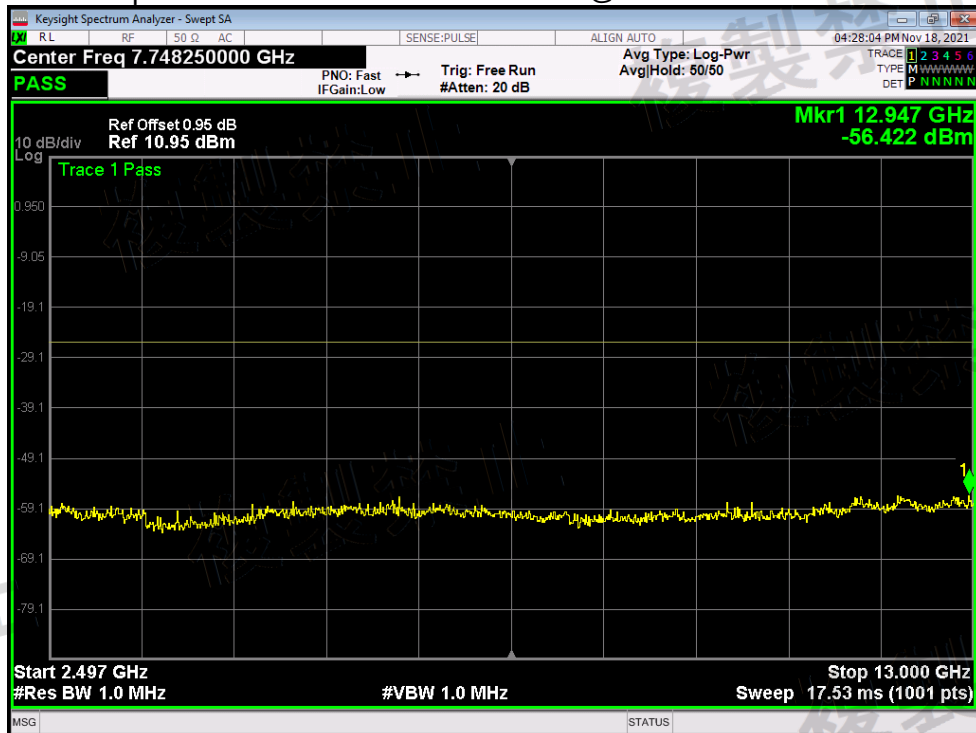
Tx. Spurious NVNT BLE 2402MHz Ant1 @ 2387MHz-2400MHz



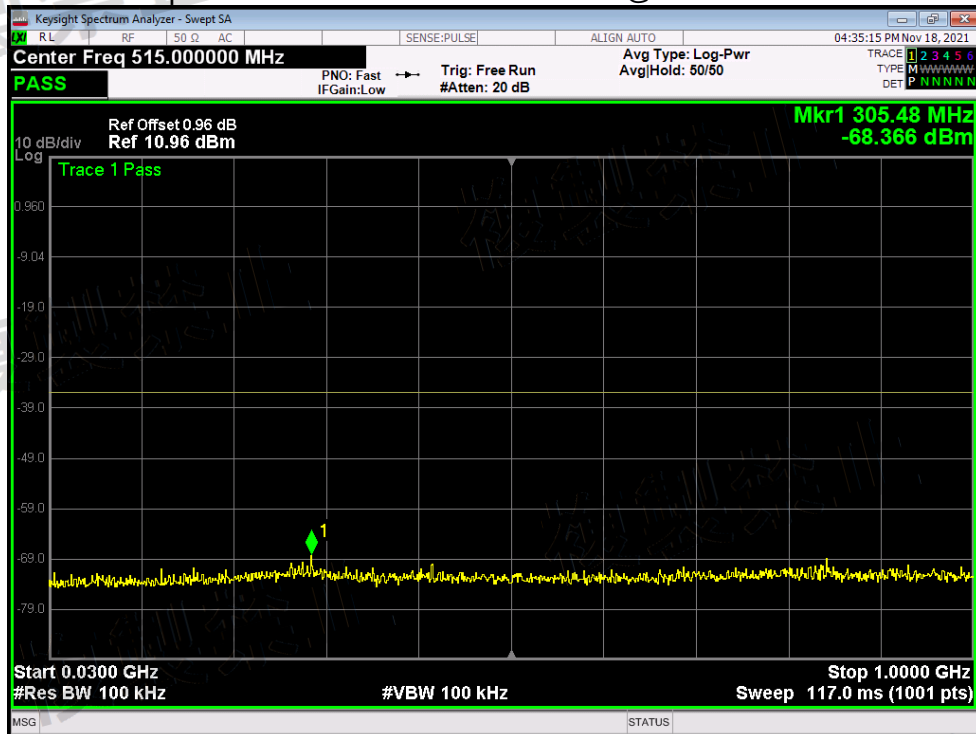
Tx. Spurious NVNT BLE 2402MHz Ant1 @ 2483.5MHz-2496.5MHz



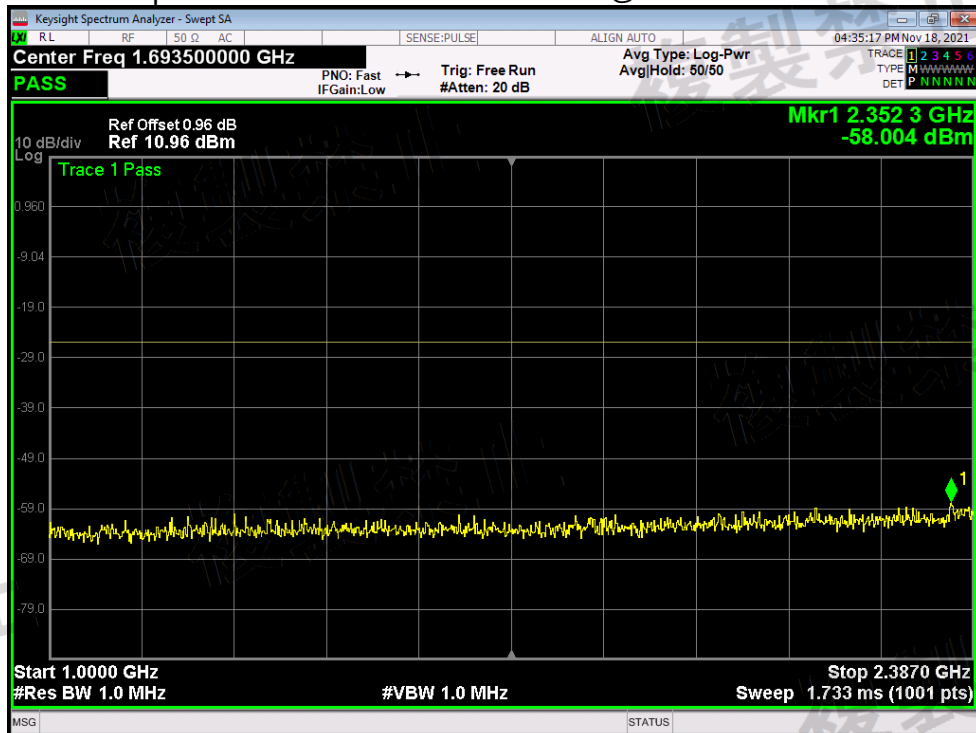
Tx. Spurious NVNT BLE 2402MHz Ant1 @ 2496.5MHz-13000MHz



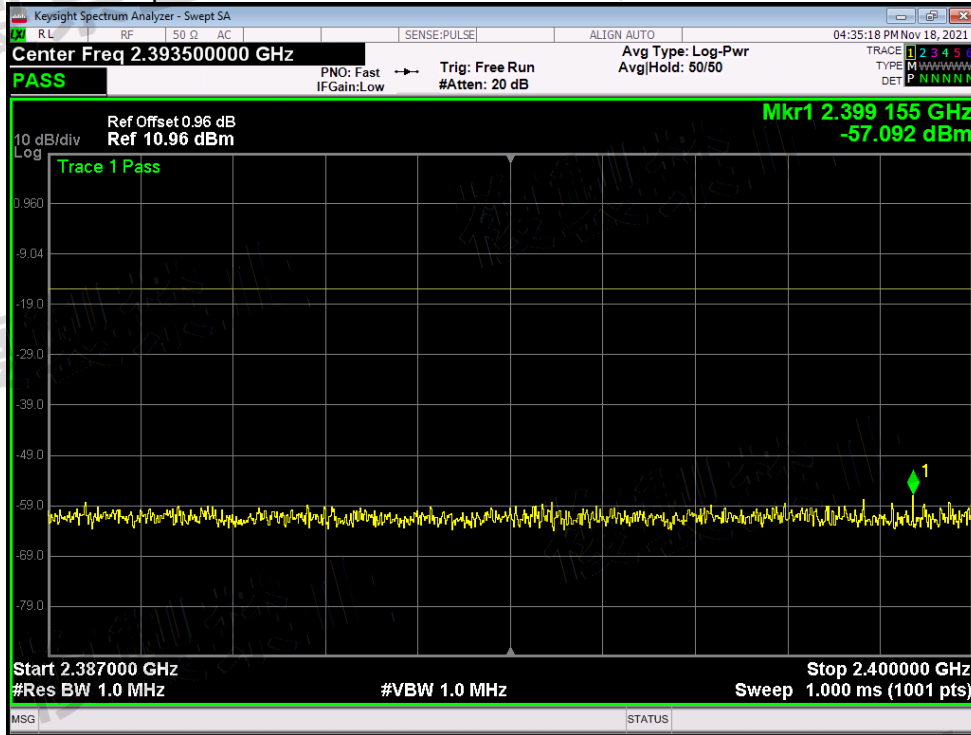
Tx. Spurious NVNT BLE 2440MHz Ant1 @ 30MHz-1000MHz



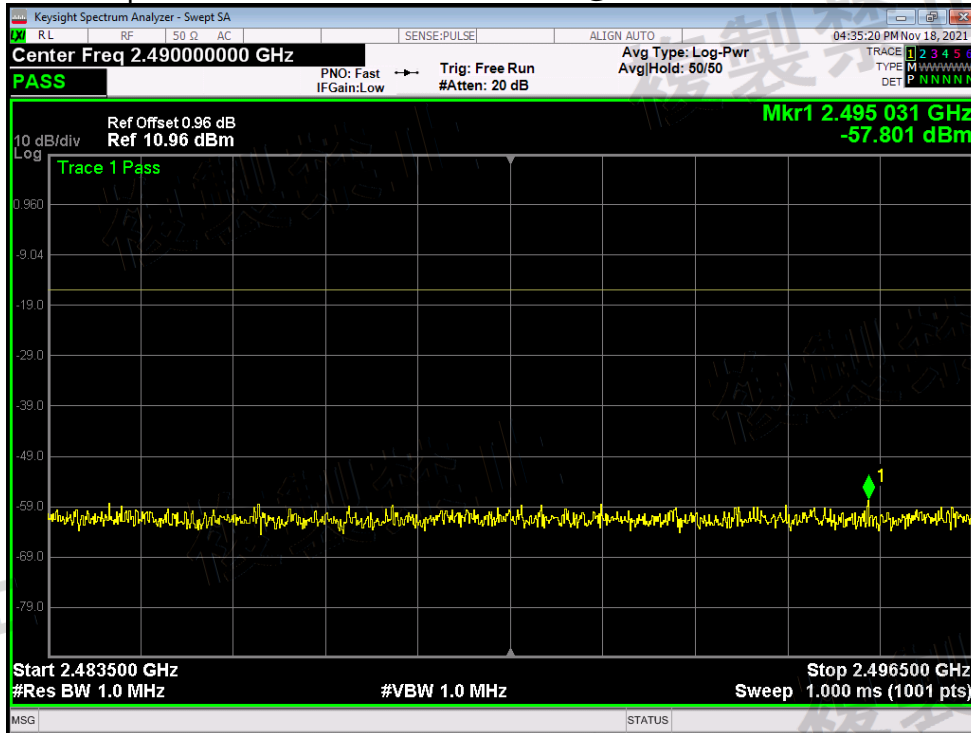
Tx. Spurious NVNT BLE 2440MHz Ant1 @ 1000MHz-2387MHz



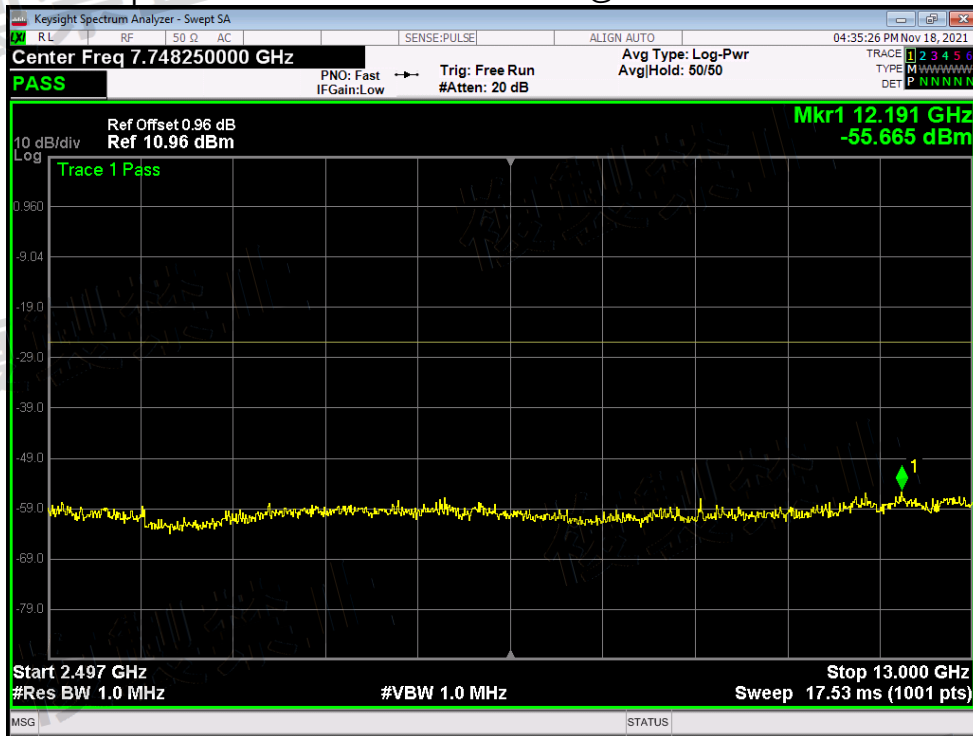
Tx. Spurious NVNT BLE 2440MHz Ant1 @ 2387MHz-2400MHz



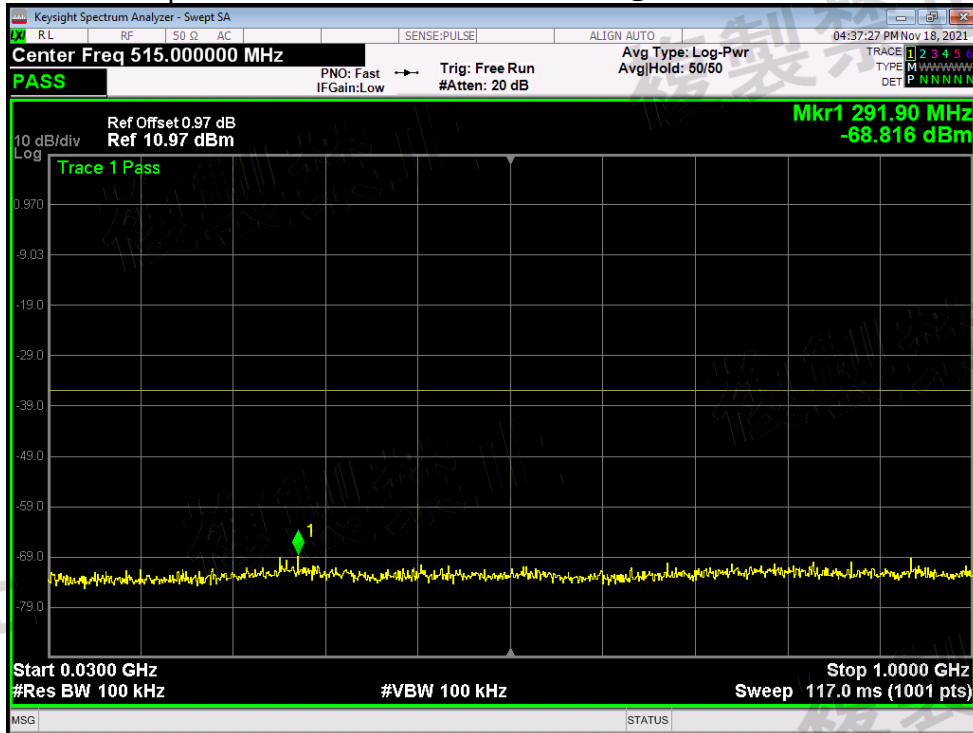
Tx. Spurious NVNT BLE 2440MHz Ant1 @ 2483.5MHz-2496.5MHz



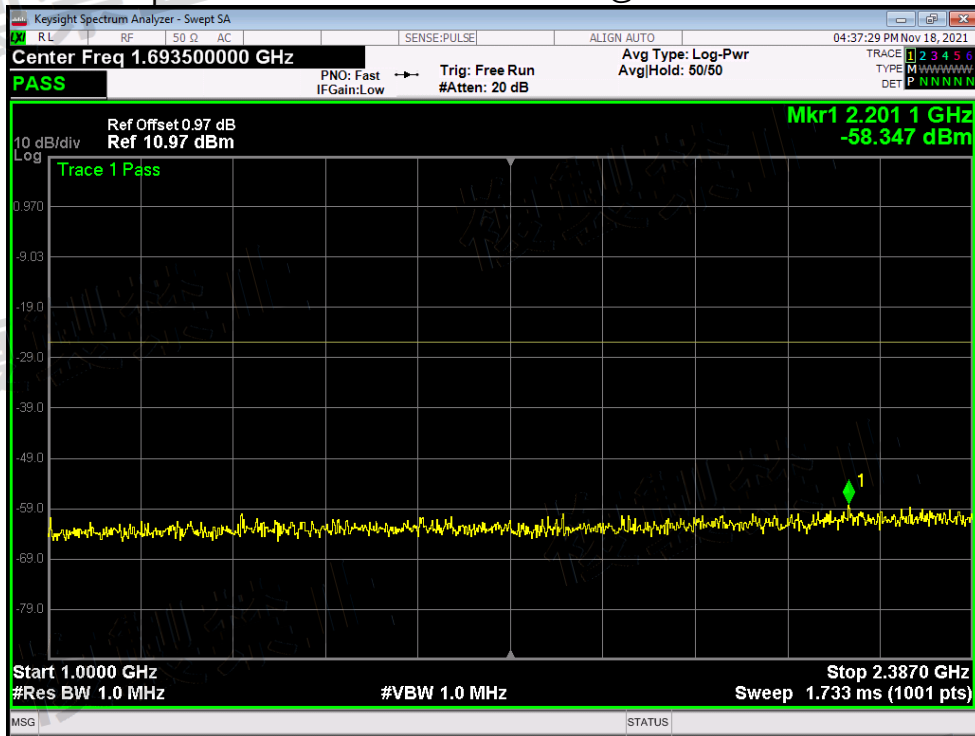
Tx. Spurious NVNT BLE 2440MHz Ant1 @ 2496.5MHz-13000MHz



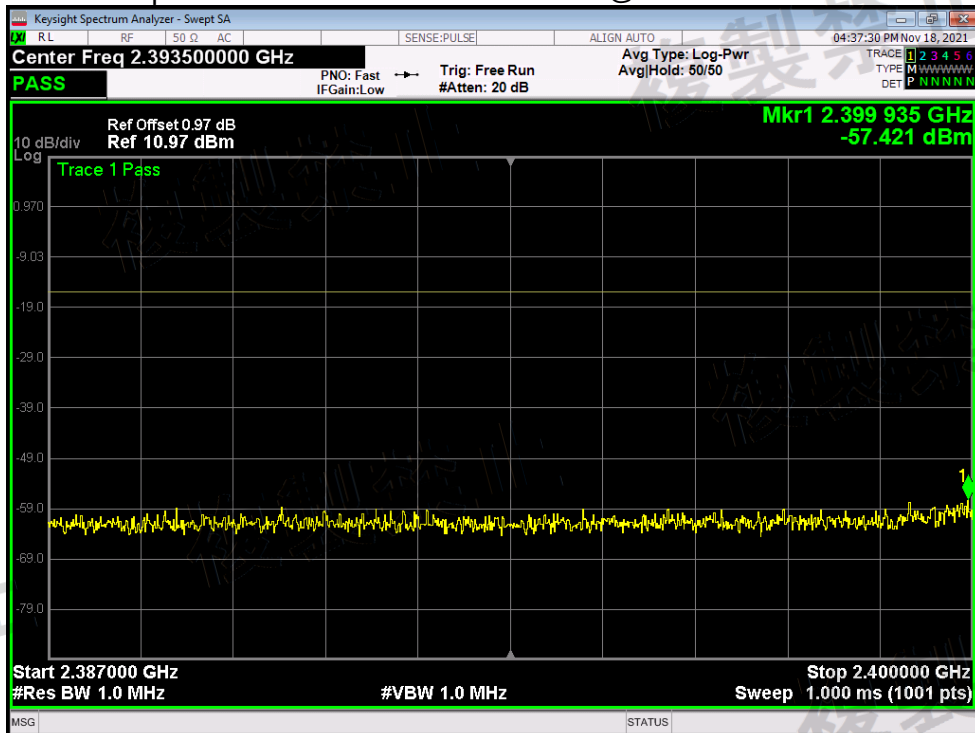
Tx. Spurious NVNT BLE 2480MHz Ant1 @ 30MHz-1000MHz



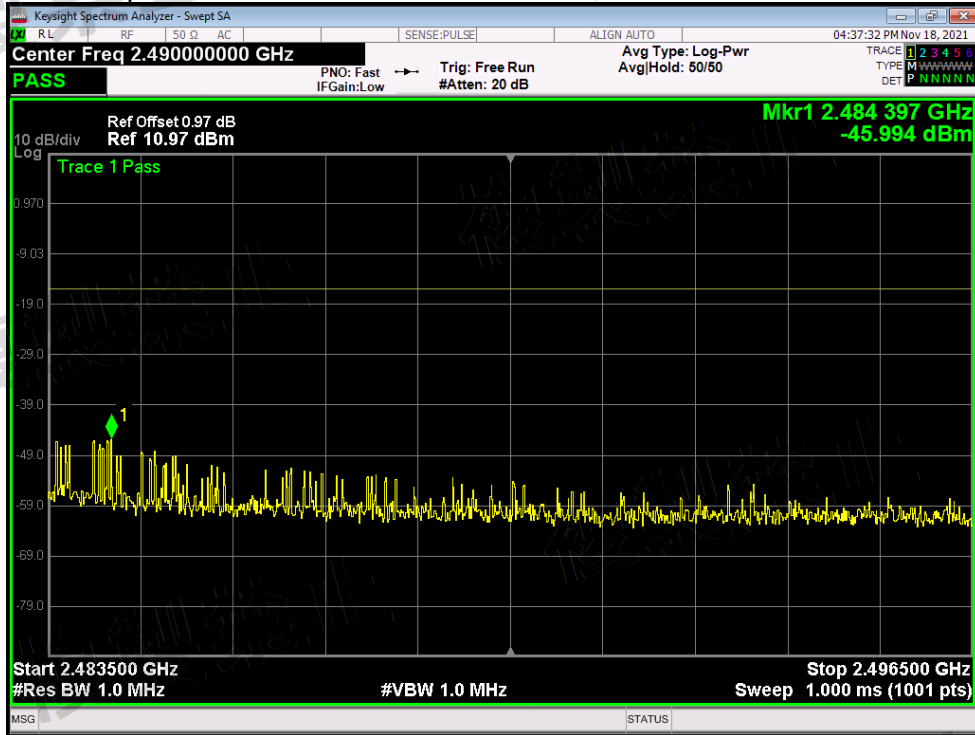
Tx. Spurious NVNT BLE 2480MHz Ant1 @ 1000MHz-2387MHz



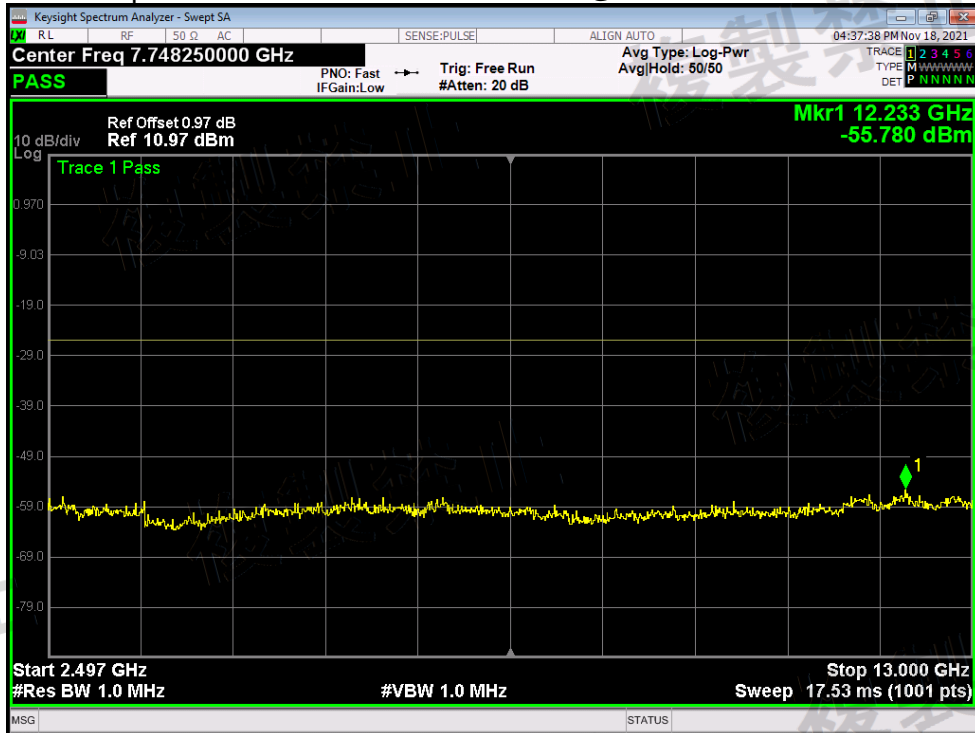
Tx. Spurious NVNT BLE 2480MHz Ant1 @ 2387MHz-2400MHz



Tx. Spurious NVNT BLE 2480MHz Ant1 @ 2483.5MHz-2496.5MHz



Tx. Spurious NVNT BLE 2480MHz Ant1 @ 2496.5MHz-13000MHz



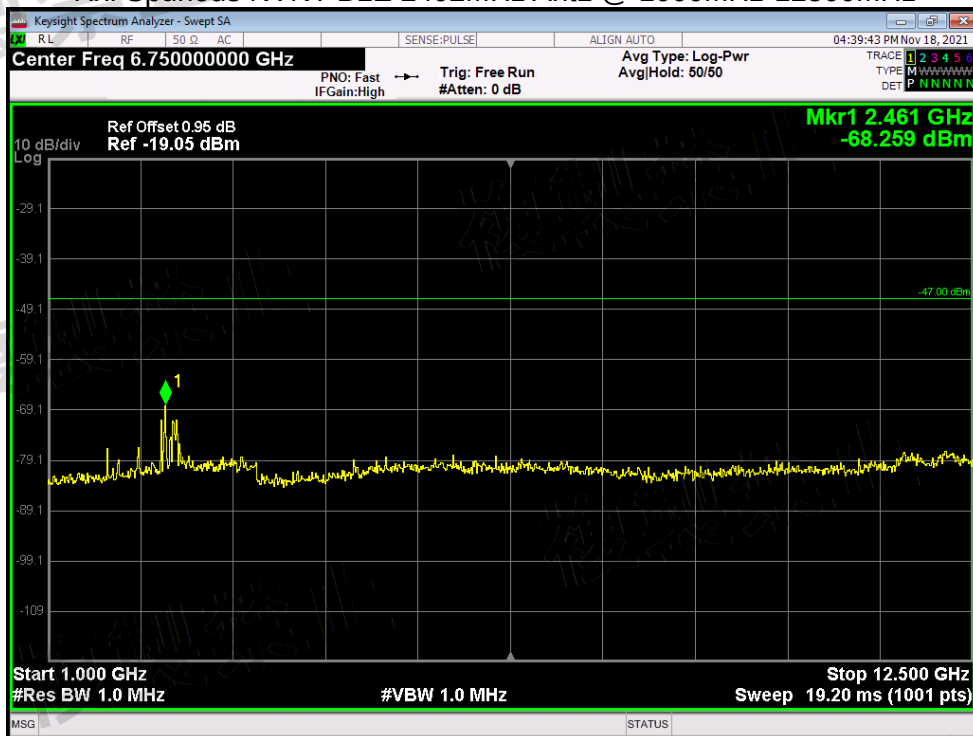
12.7 RX SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit (nW)	Limit (nW)	Verdict
NVNT	BLE	2402	Ant1	30-1000	280.26	-75.76	0.00003	4	Pass
NVNT	BLE	2402	Ant1	1000-12500	2460.5	-68.259	0.00015	20	Pass
NVNT	BLE	2440	Ant1	30-1000	280.26	-75.853	0.00003	4	Pass
NVNT	BLE	2440	Ant1	1000-12500	2460.5	-64.108	0.00039	20	Pass
NVNT	BLE	2480	Ant1	30-1000	280.26	-76.053	0.00002	4	Pass
NVNT	BLE	2480	Ant1	1000-12500	2460.5	-65.224	0.00030	20	Pass

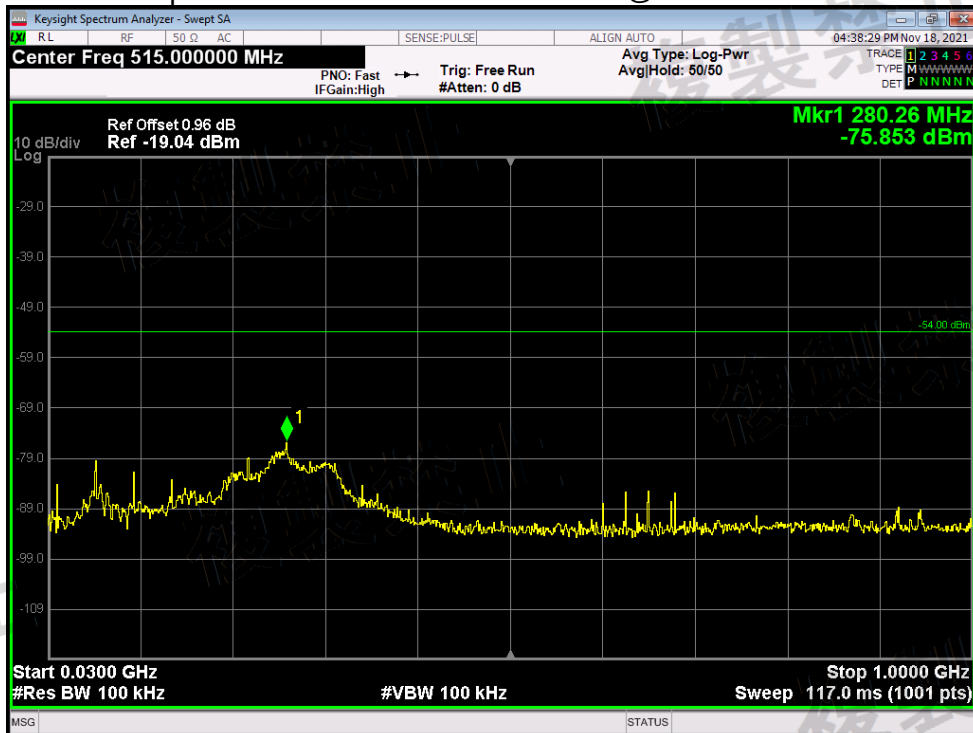
Rx. Spurious NVNT BLE 2402MHz Ant1 @ 30MHz-1000MHz



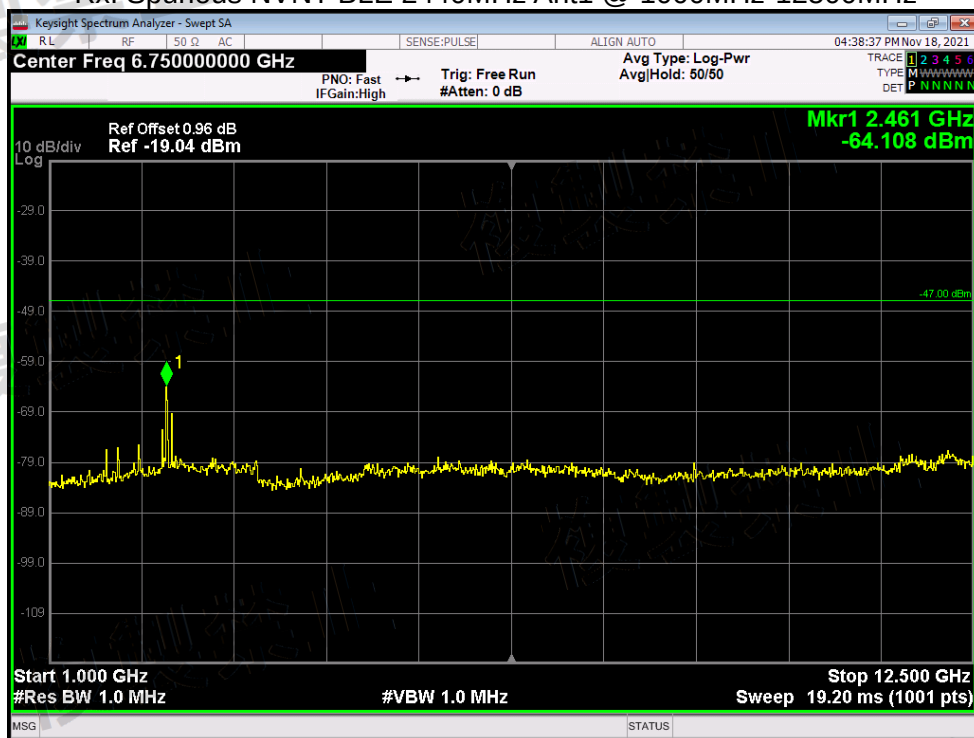
Rx. Spurious NVNT BLE 2402MHz Ant1 @ 1000MHz-12500MHz



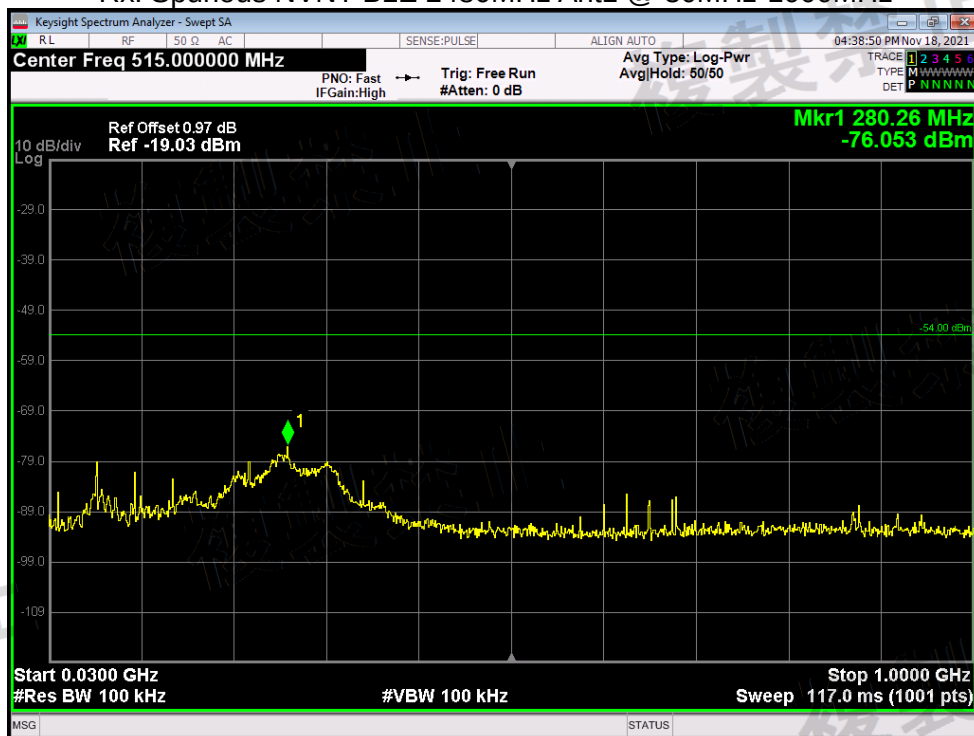
Rx. Spurious NVNT BLE 2440MHz Ant1 @ 30MHz-1000MHz



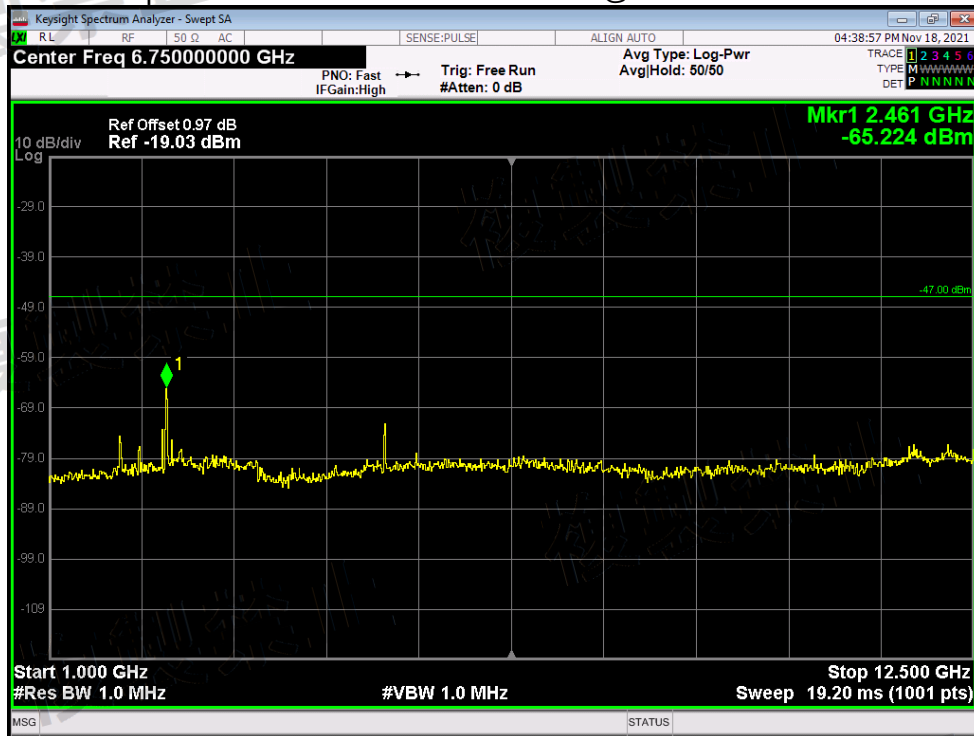
Rx. Spurious NVNT BLE 2440MHz Ant1 @ 1000MHz-12500MHz



Rx. Spurious NVNT BLE 2480MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT BLE 2480MHz Ant1 @ 1000MHz-12500MHz

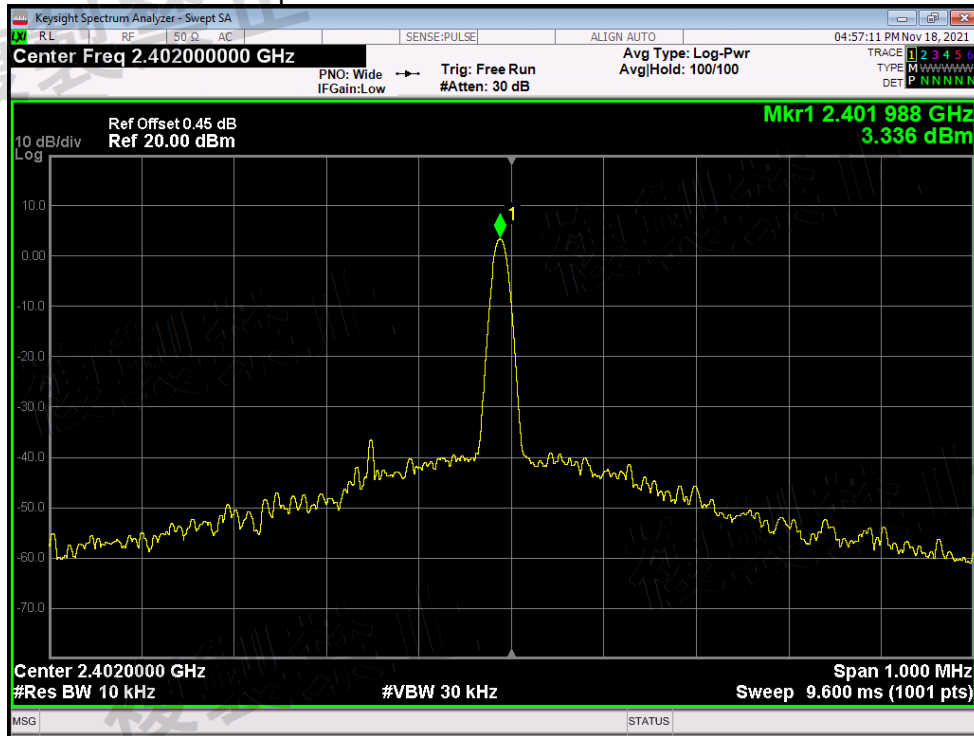


2M

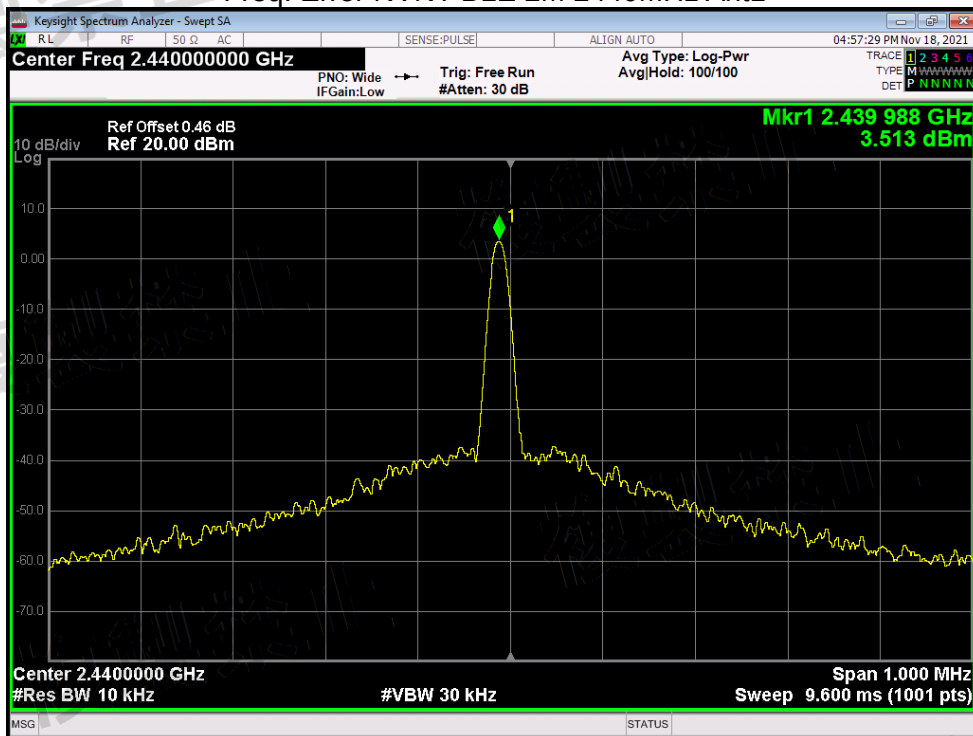
12.1 FREQUENCY ERROR

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	BLE 2M	2402	Ant1	2401.988	-5	50	Pass
NVNT	BLE 2M	2440	Ant1	2439.988	-4.92	50	Pass
NVNT	BLE 2M	2480	Ant1	2479.988	-4.84	50	Pass

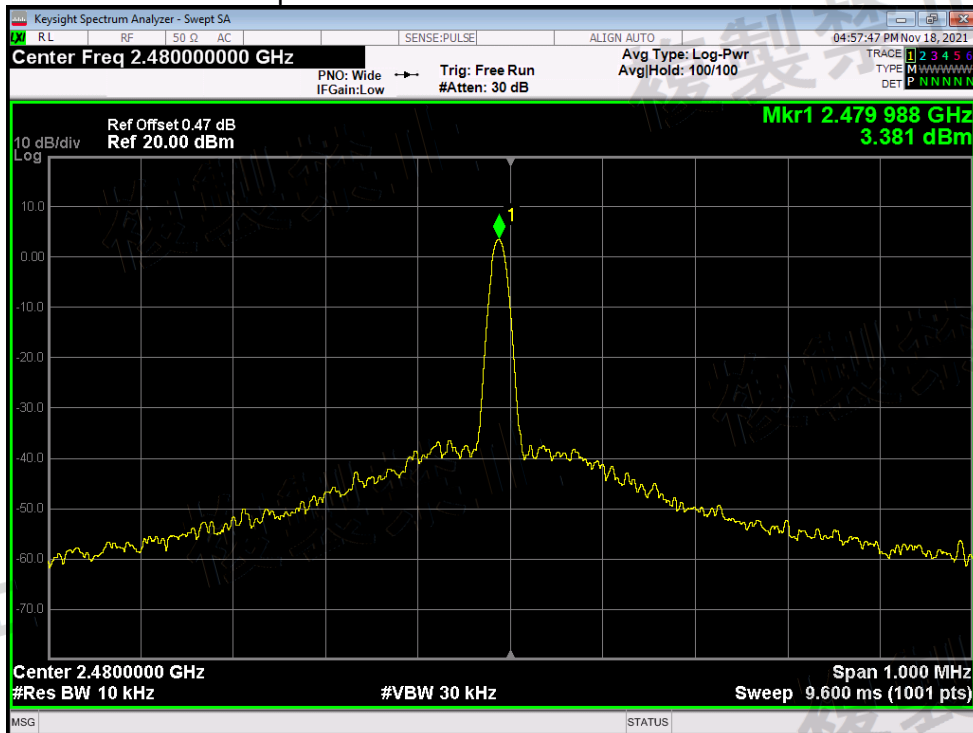
Freq. Error NVNT BLE 2M 2402MHz Ant1



Freq. Error NVNT BLE 2M 2440MHz Ant1



Freq. Error NVNT BLE 2M 2480MHz Ant1



12.2 ANTENNA AND EIRP POWER

Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (mW)	Declared Power (mW)	Tolerance (%)	Upper Limit (%)	Verdict
NVNT	BLE 2M	2402	Ant1	0.412	0.5	-17.6	20	Pass
NVNT	BLE 2M	2440	Ant1	0.272	0.5	-45.6	20	Pass
NVNT	BLE 2M	2480	Ant1	0.305	0.5	-39	20	Pass

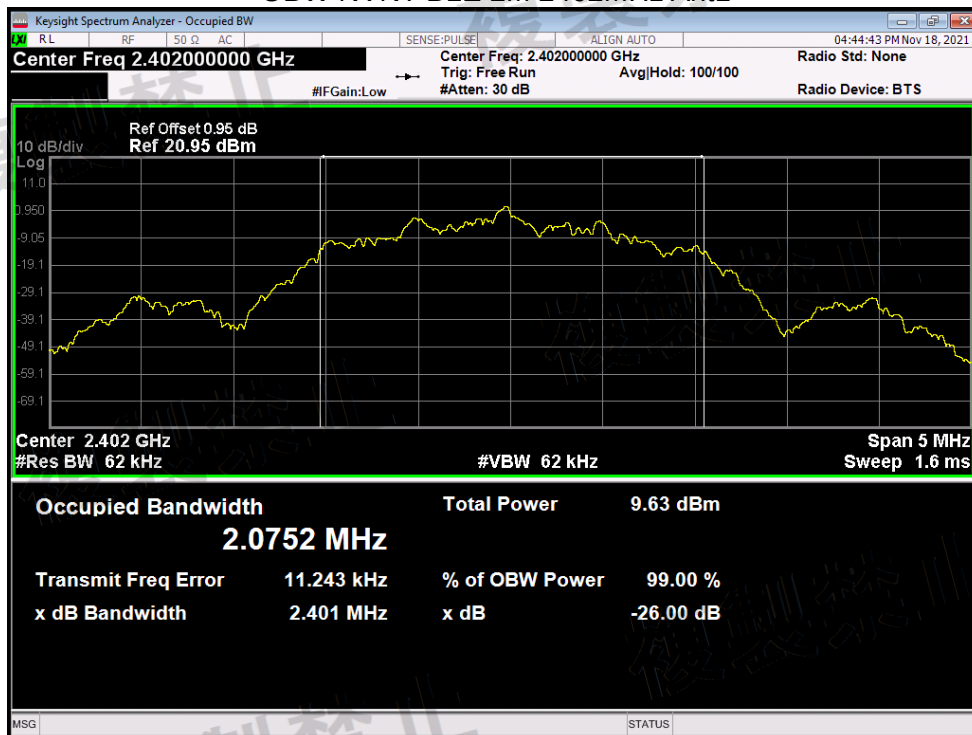
12.3 EIRP POWER

Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (dBm)	Gain (dBi)	EIRP Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-3.847	0.5	-3.347	12.14	Pass
NVNT	BLE 2M	2440	Ant1	-5.651	0.5	-5.151	12.14	Pass
NVNT	BLE 2M	2480	Ant1	-5.15	0.5	-4.65	12.14	Pass

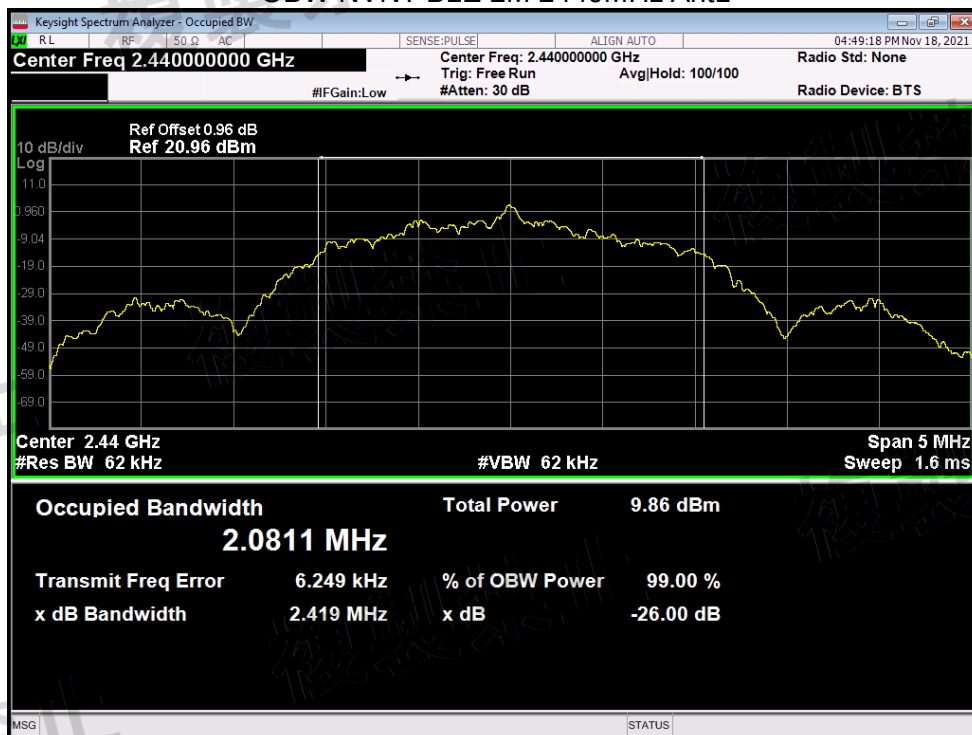
12.4 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 2M	2402	Ant1	2.075
NVNT	BLE 2M	2440	Ant1	2.081
NVNT	BLE 2M	2480	Ant1	2.058

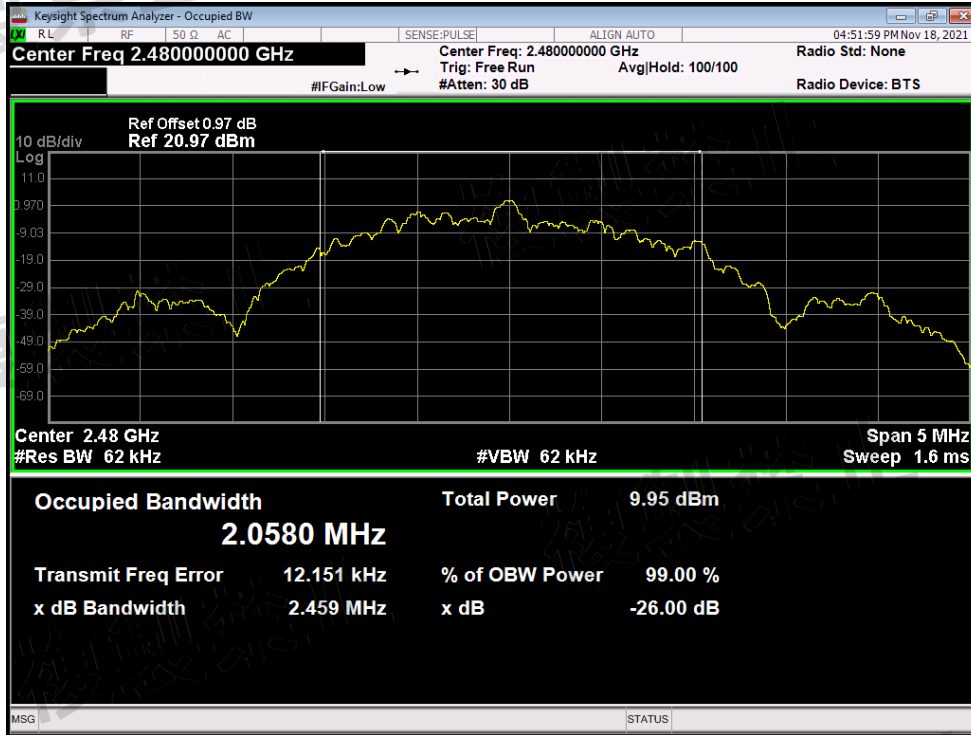
OBW NVNT BLE 2M 2402MHz Ant1



OBW NVNT BLE 2M 2440MHz Ant1



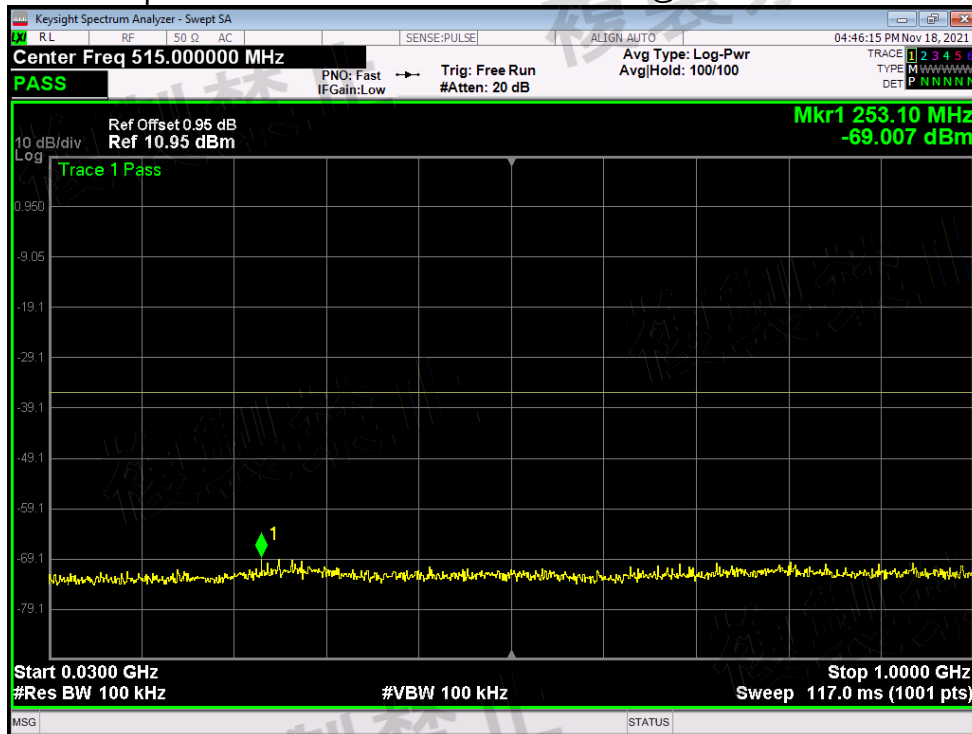
OBW NVNT BLE 2M 2480MHz Ant1



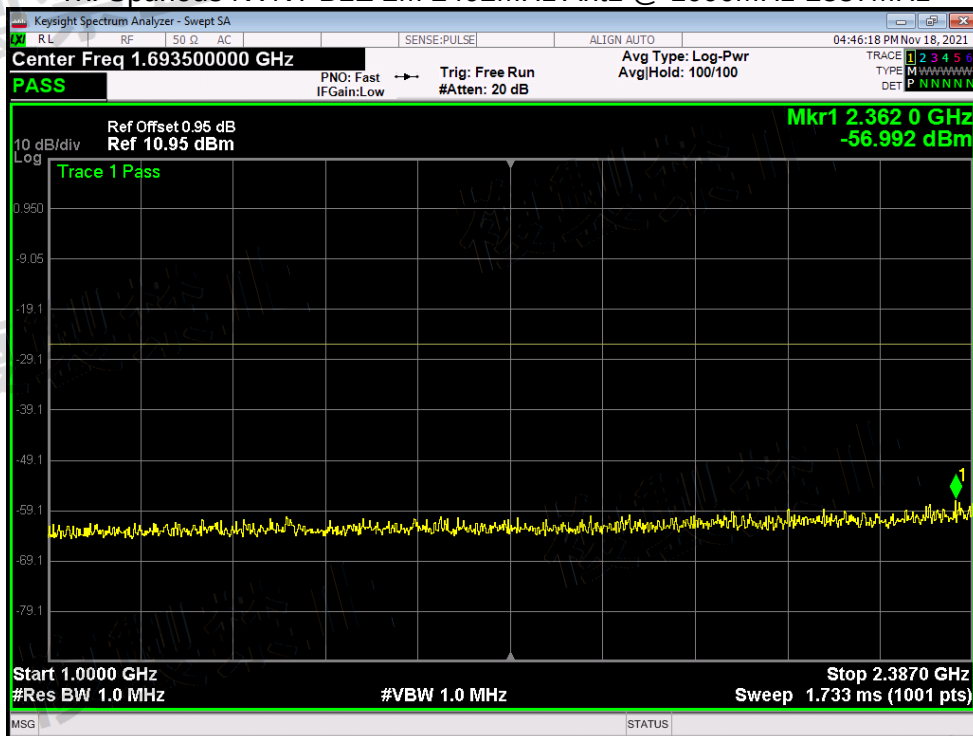
12.6 TX SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Max Value (uW)	Limit Start (dBm)	Limit Stop (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	30-1000	253.1	-69.007	0.00013	-36	-36	Pass
NVNT	BLE 2M	2402	Ant1	1000-2387	2362.034	-56.992	0.00200	-26	-26	Pass
NVNT	BLE 2M	2402	Ant1	2387-2400	2400	-18.478	14.19711	-16	-16	Pass
NVNT	BLE 2M	2402	Ant1	2483.5-2496.5	2485.021	-58.519	0.00141	-16	-16	Pass
NVNT	BLE 2M	2402	Ant1	2496.5-13000	11802.601	-54.992	0.00317	-26	-26	Pass
NVNT	BLE 2M	2440	Ant1	30-1000	832.19	-69.449	0.00011	-36	-36	Pass
NVNT	BLE 2M	2440	Ant1	1000-2387	2165.08	-57.635	0.00172	-26	-26	Pass
NVNT	BLE 2M	2440	Ant1	2387-2400	2399.285	-57.37	0.00183	-16	-16	Pass
NVNT	BLE 2M	2440	Ant1	2483.5-2496.5	2488.115	-57.631	0.00173	-16	-16	Pass
NVNT	BLE 2M	2440	Ant1	2496.5-13000	2559.521	-51.781	0.00664	-26	-26	Pass
NVNT	BLE 2M	2480	Ant1	30-1000	300.63	-69.386	0.00012	-36	-36	Pass
NVNT	BLE 2M	2480	Ant1	1000-2387	2248.3	-58.016	0.00158	-26	-26	Pass
NVNT	BLE 2M	2480	Ant1	2387-2400	2399.766	-57.769	0.00167	-16	-16	Pass
NVNT	BLE 2M	2480	Ant1	2483.5-2496.5	2483.916	-42.11	0.06152	-16	-16	Pass
NVNT	BLE 2M	2480	Ant1	2496.5-13000	11739.58	-55.557	0.00278	-26	-26	Pass

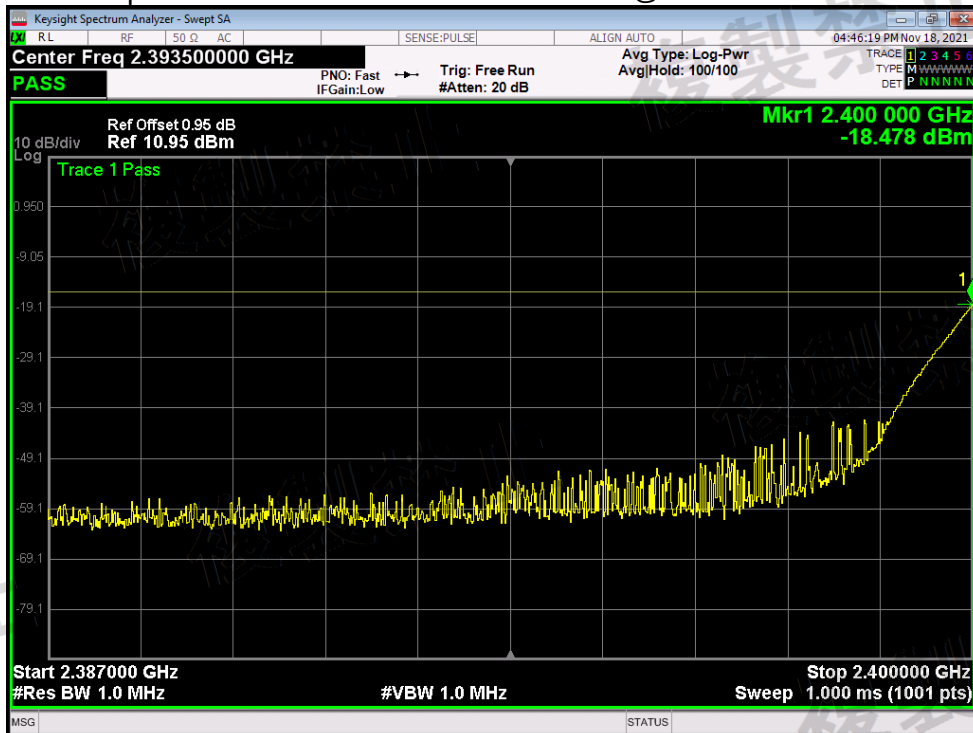
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 30MHz-1000MHz



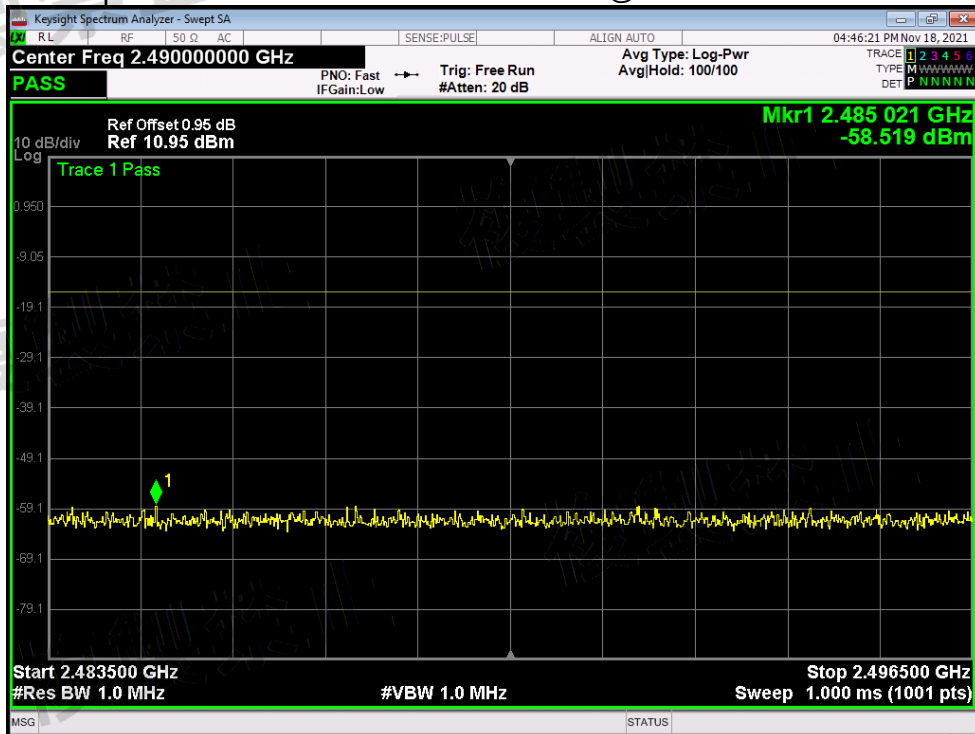
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 1000MHz-2387MHz



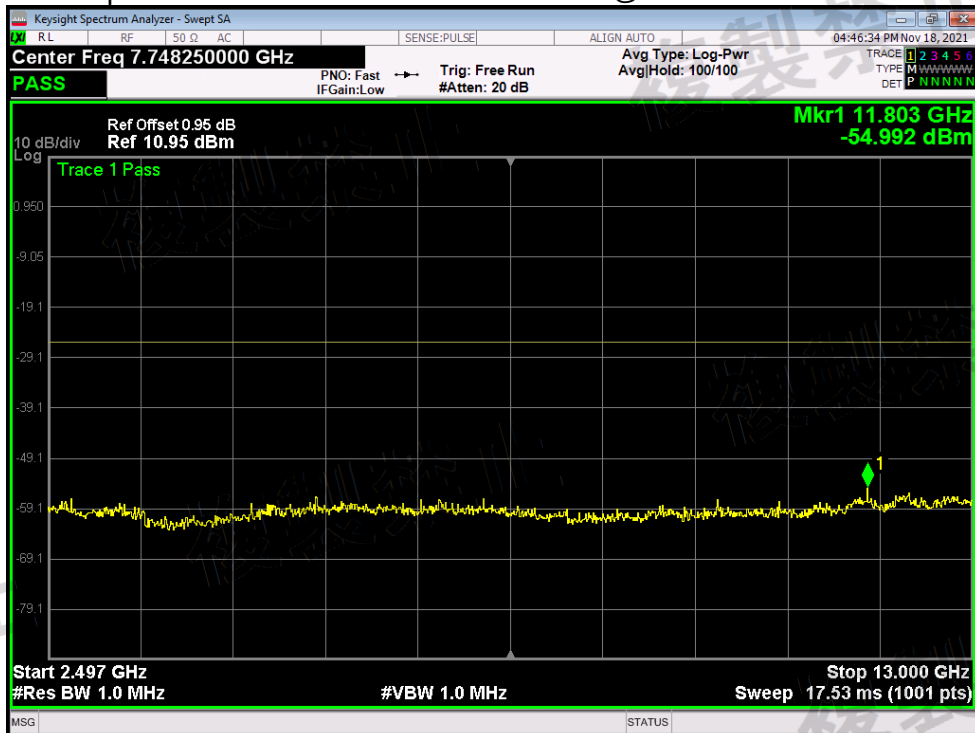
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 2387MHz-2400MHz



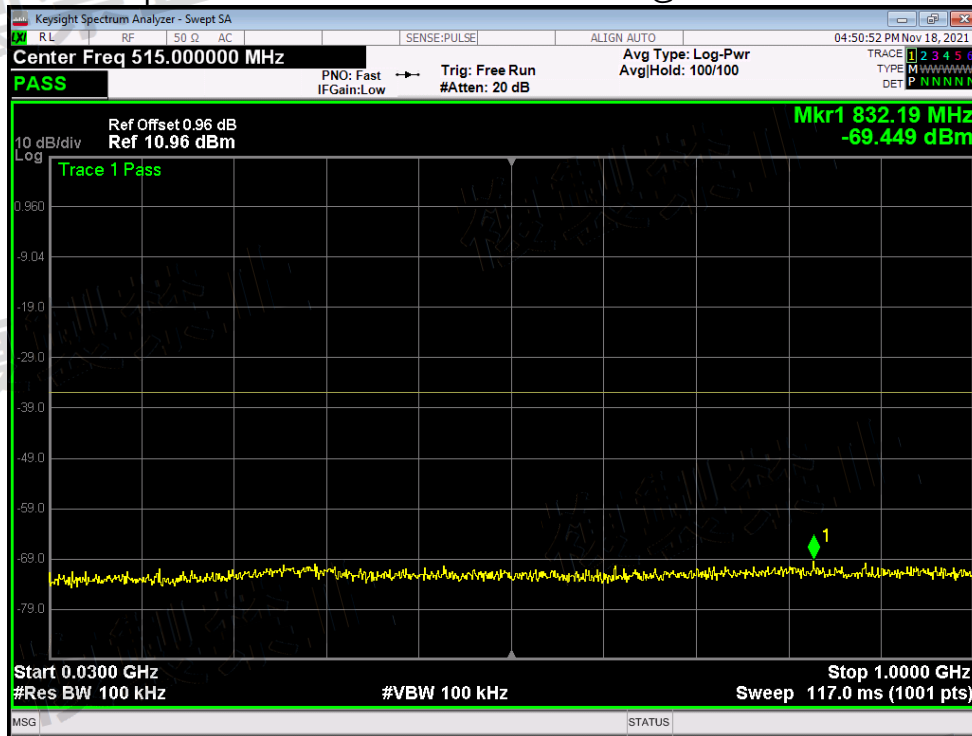
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 2483.5MHz-2496.5MHz



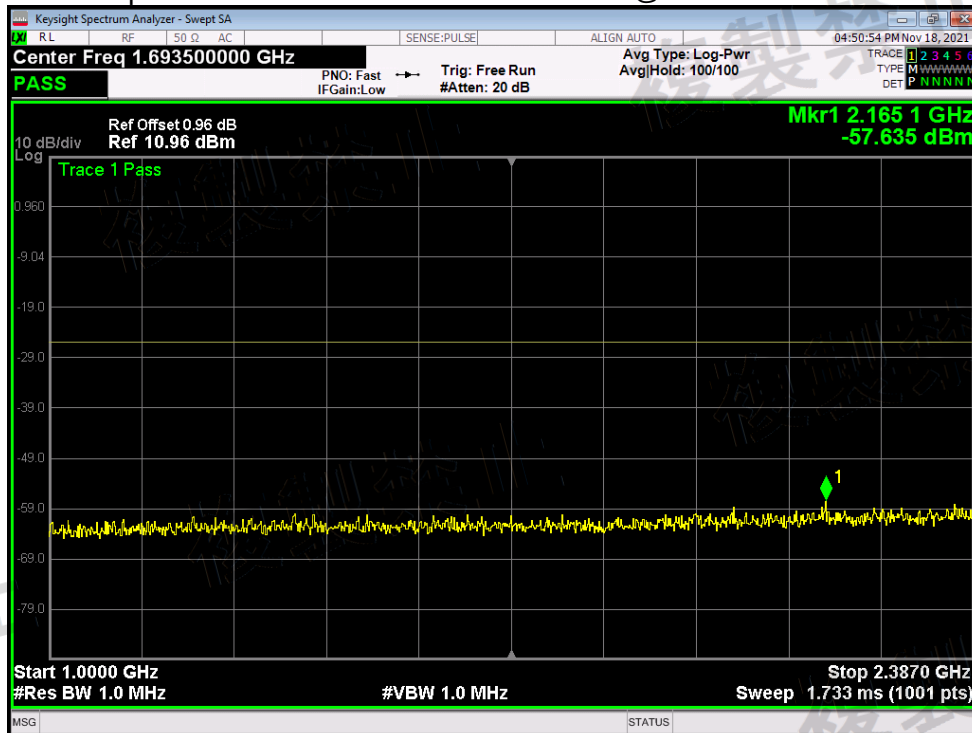
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 2496.5MHz-13000MHz



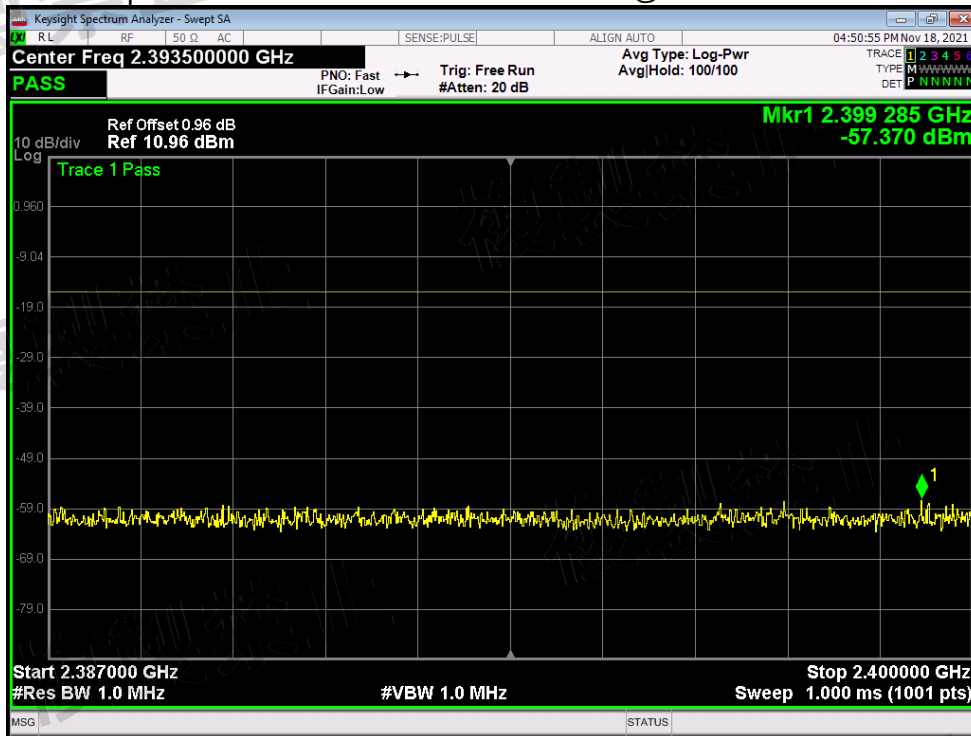
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 30MHz-1000MHz



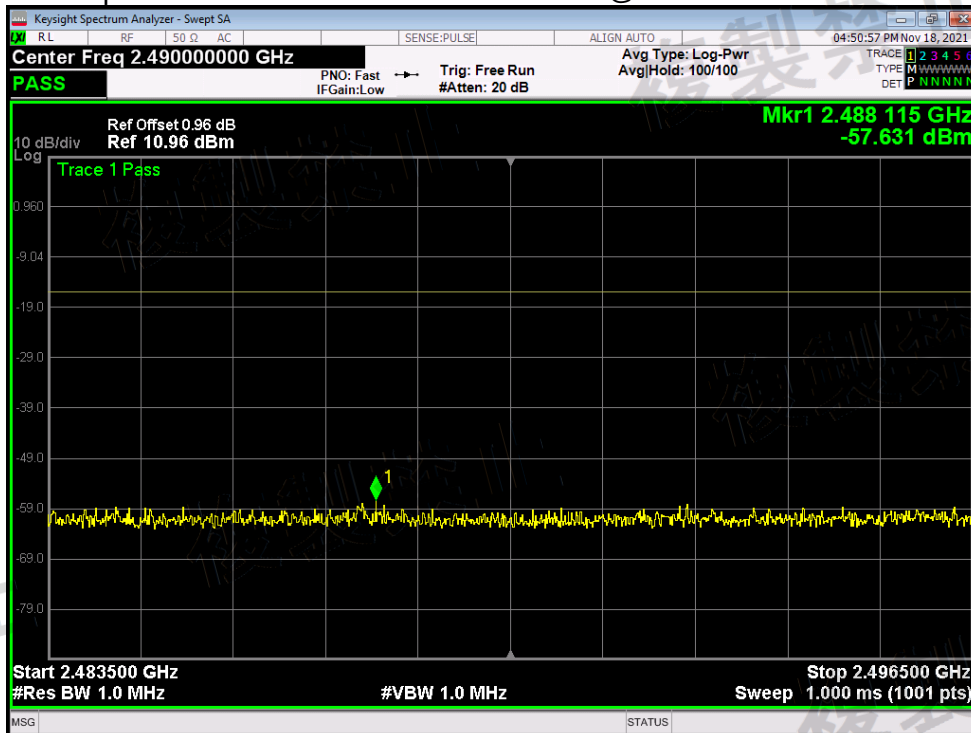
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 1000MHz-2387MHz



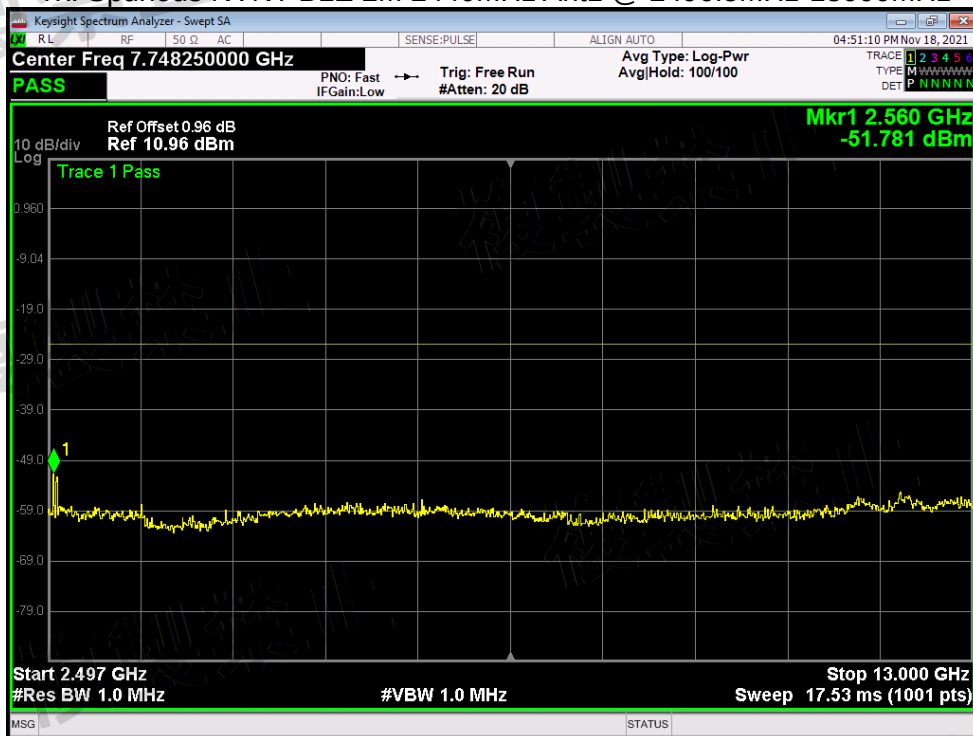
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 2387MHz-2400MHz



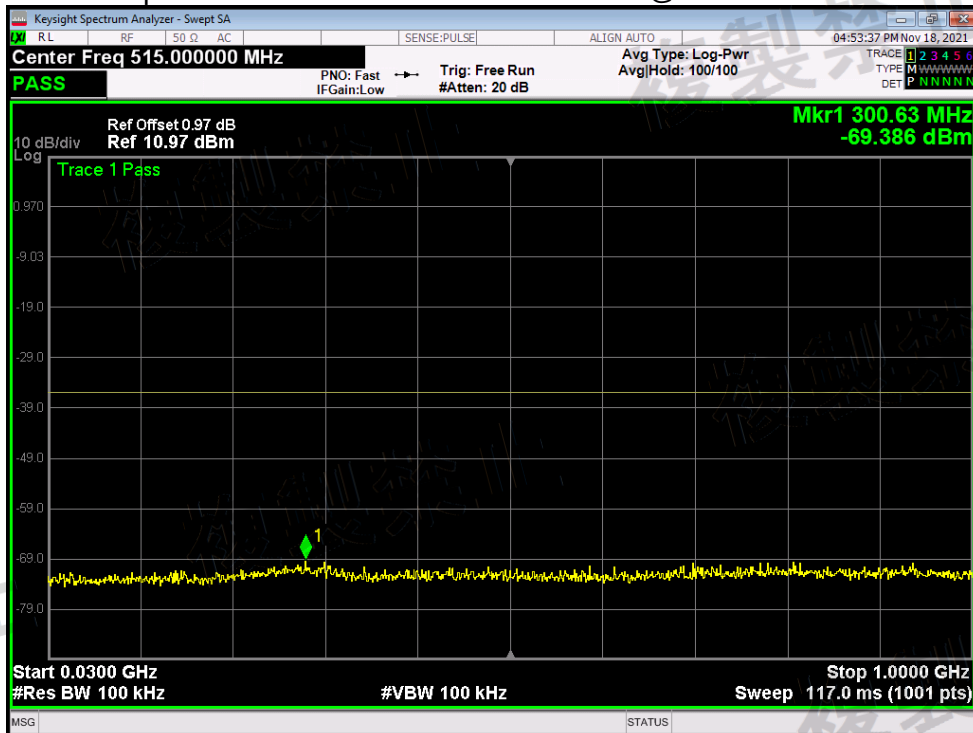
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 2483.5MHz-2496.5MHz



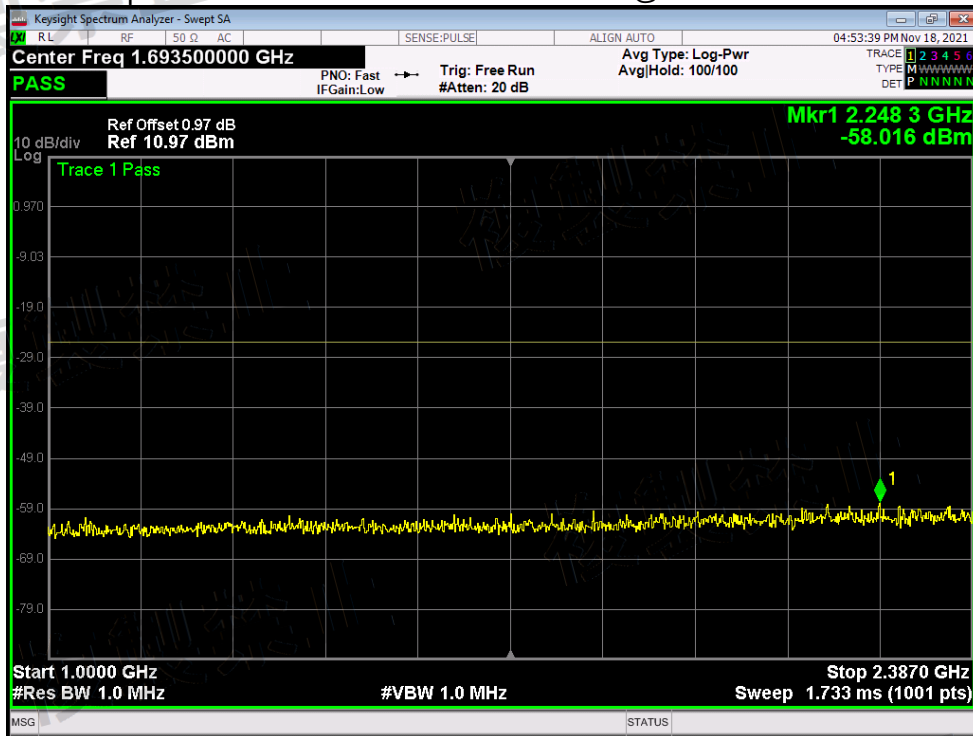
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 2496.5MHz-13000MHz



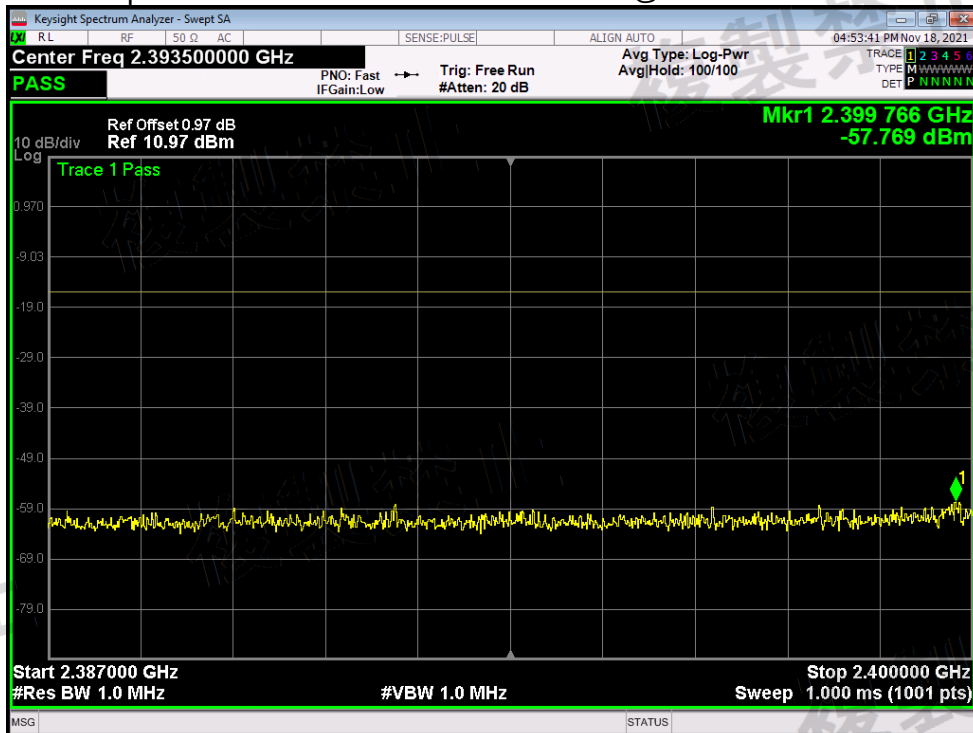
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 30MHz-1000MHz



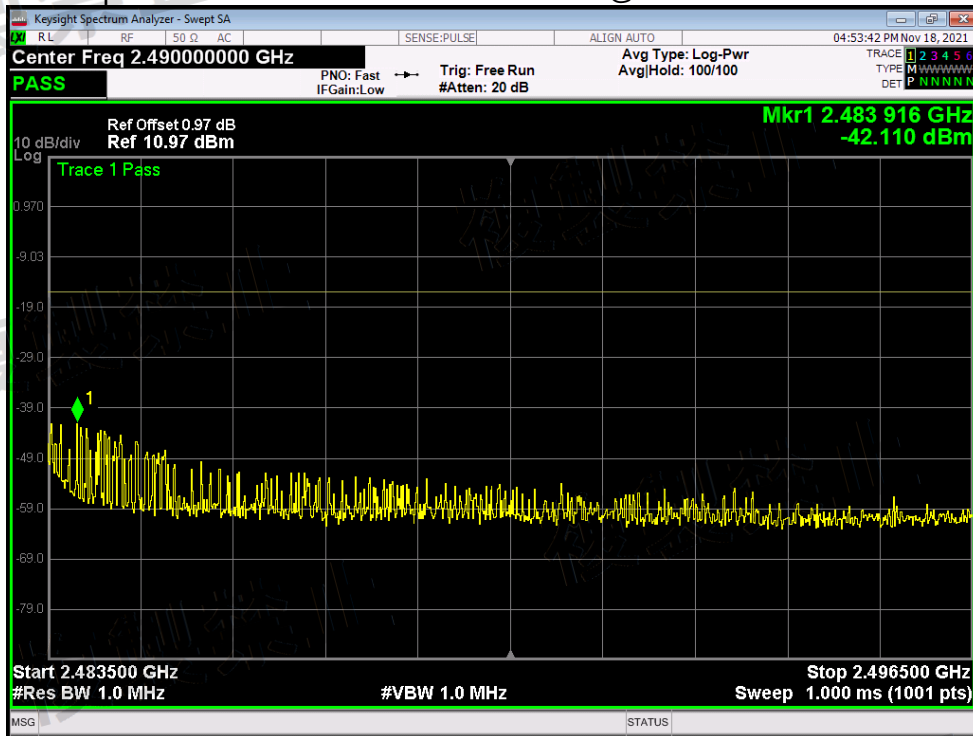
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 1000MHz-2387MHz



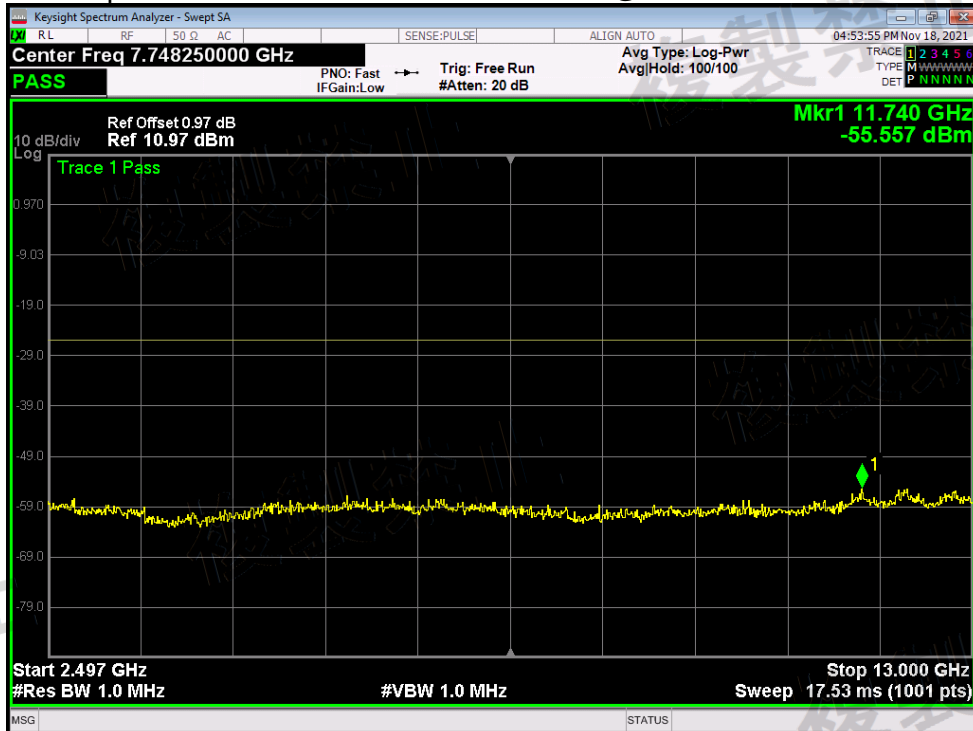
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 2387MHz-2400MHz



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 2483.5MHz-2496.5MHz



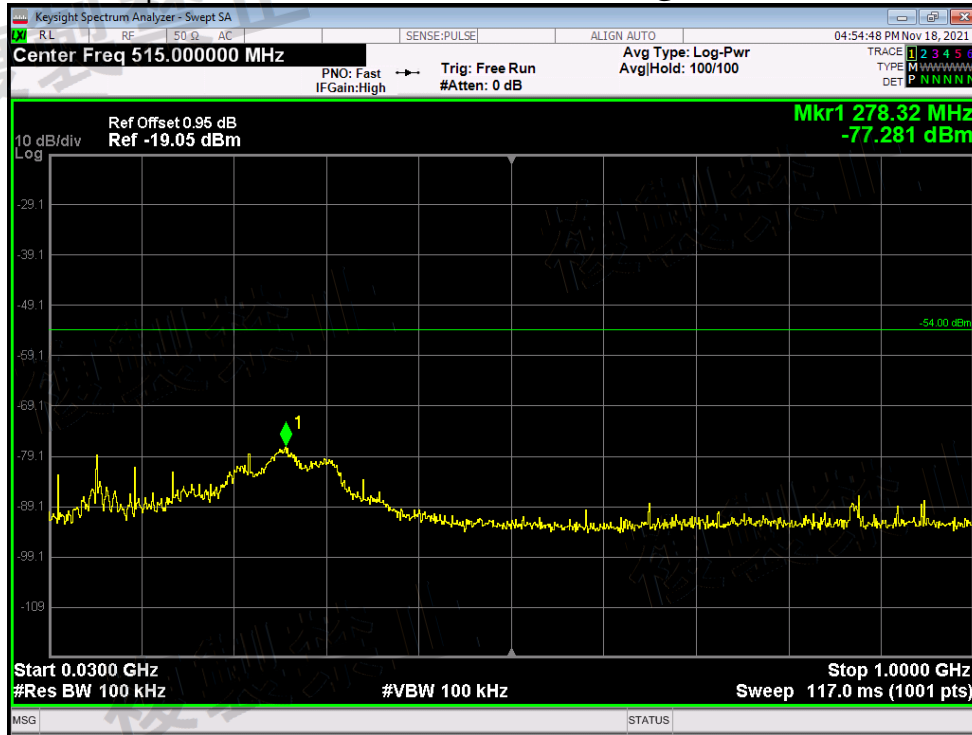
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 2496.5MHz-13000MHz



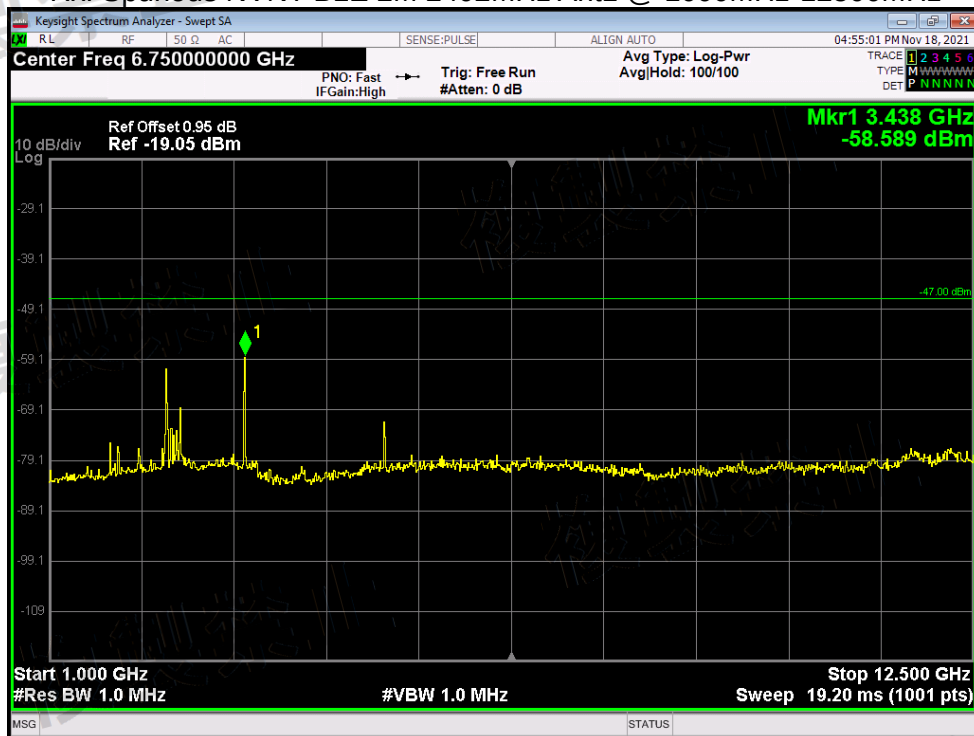
12.7 RX SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit (nW)	Limit (nW)	Verdict
NVNT	BLE 2M	2402	Ant1	30-1000	278.32	-77.281	0.00002	4	Pass
NVNT	BLE 2M	2402	Ant1	1000-12500	3438	-58.589	0.00138	20	Pass
NVNT	BLE 2M	2440	Ant1	30-1000	280.26	-76.846	0.00002	4	Pass
NVNT	BLE 2M	2440	Ant1	1000-12500	2472	-66.122	0.00024	20	Pass
NVNT	BLE 2M	2480	Ant1	30-1000	280.26	-76.525	0.00002	4	Pass
NVNT	BLE 2M	2480	Ant1	1000-12500	2460.5	-63.163	0.00048	20	Pass

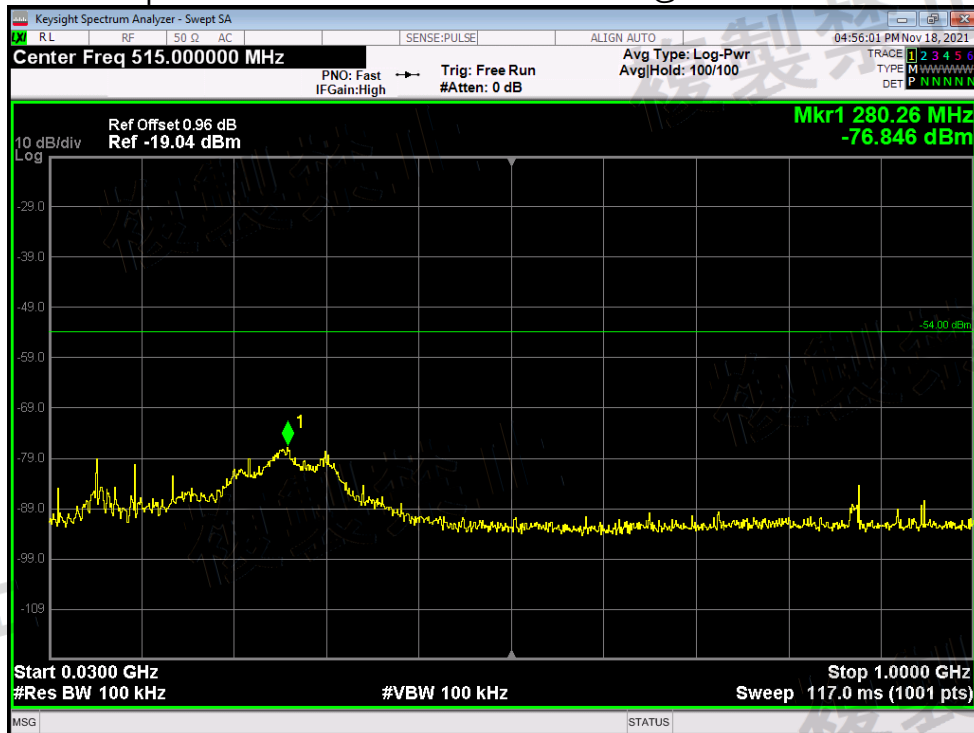
Rx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 30MHz-1000MHz



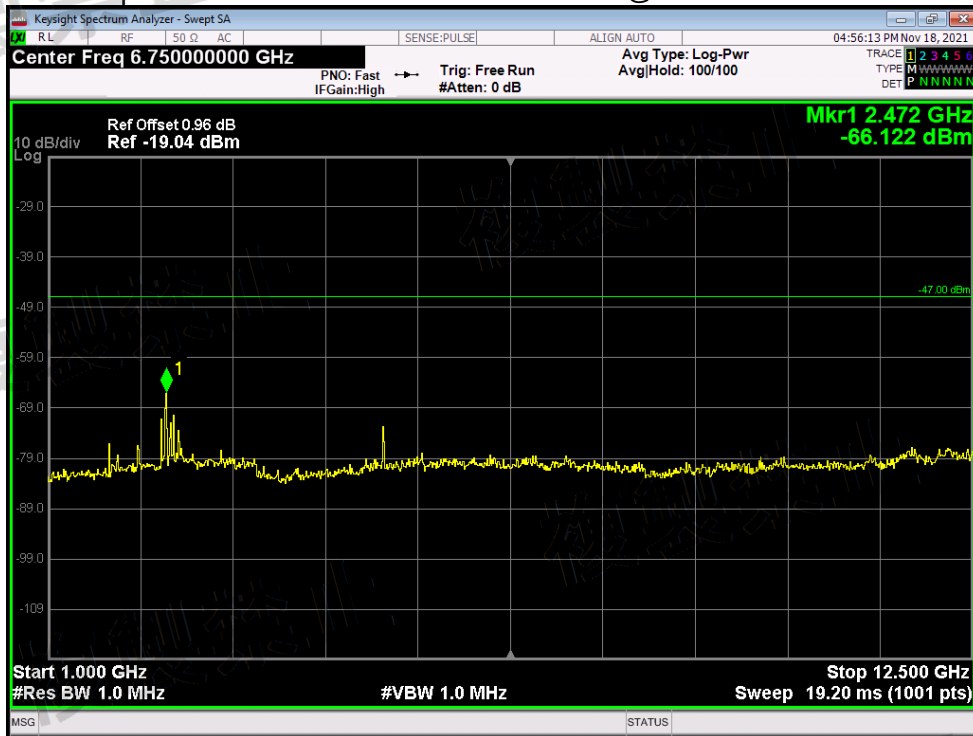
Rx. Spurious NVNT BLE 2M 2402MHz Ant1 @ 1000MHz-12500MHz



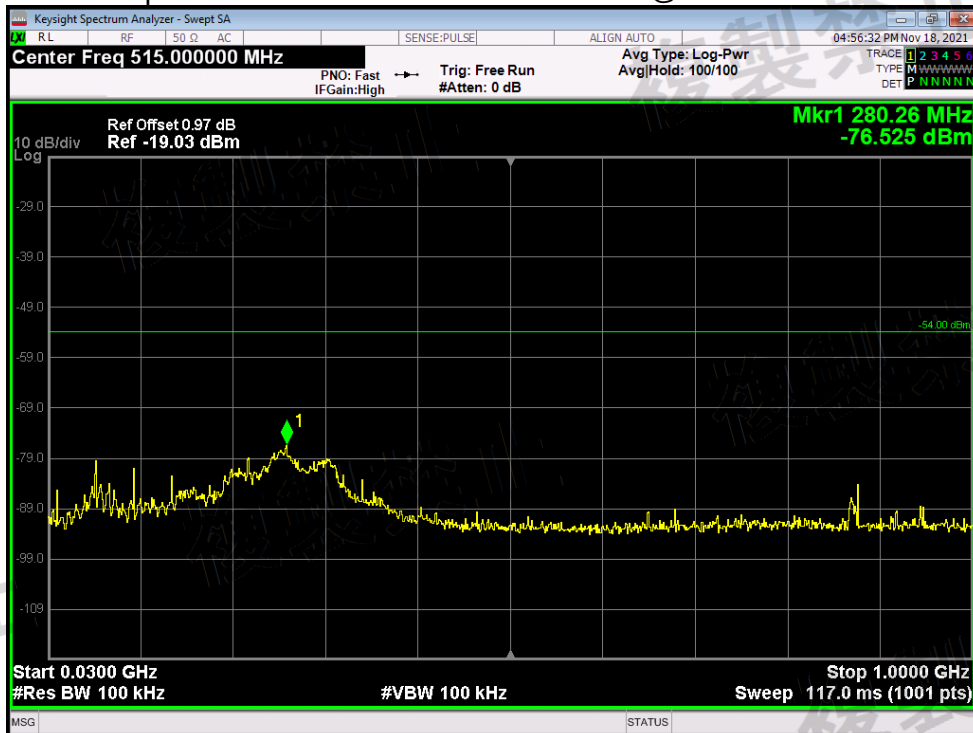
Rx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 30MHz-1000MHz



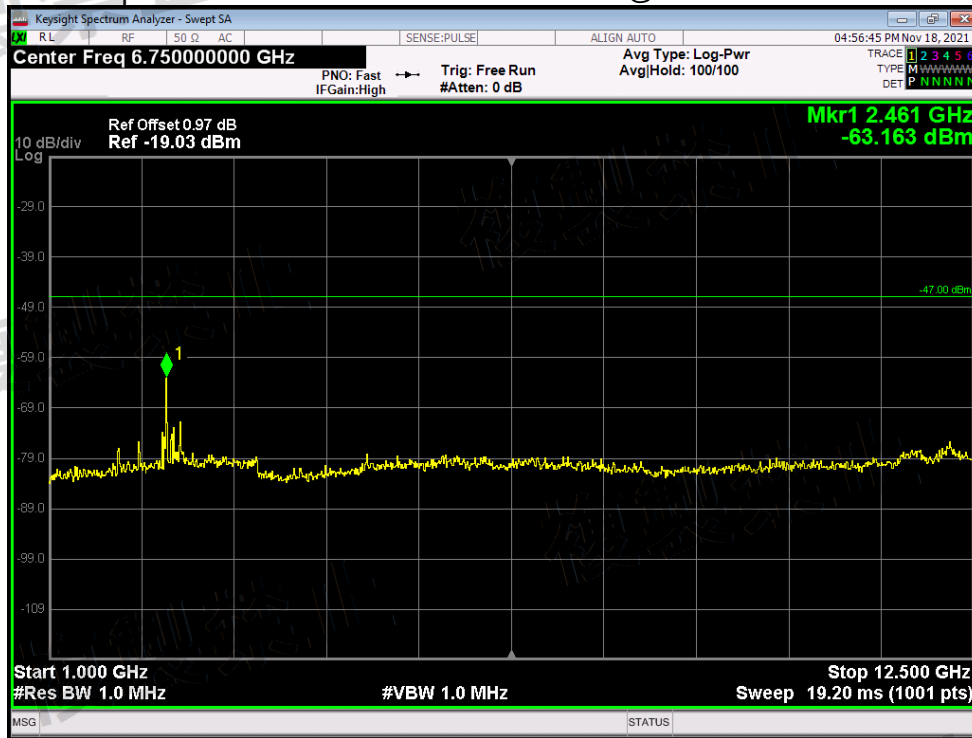
Rx. Spurious NVNT BLE 2M 2440MHz Ant1 @ 1000MHz-12500MHz



Rx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT BLE 2M 2480MHz Ant1 @ 1000MHz-12500MHz



REPORT IS FINISHED.