



## FCC- TEST REPORT

Report Number : **68.930.19.0002.01** Date of Issue: June 27, 2019

Model : **GBF-1714-F**

Product Type : Body Fat Analyzer

Applicant : Zhongshan Transtek Electronics Co., Ltd

Address : No. 23, Jin'an Road, Minzhong, Zhongshan, Guangdong, China

Production Facility : Zhongshan Transtek Electronics Co., Ltd

Address : No. 23, Jin'an Road, Minzhong, Zhongshan, Guangdong, China

Test Result :  **Positive**       **Negative**

Total pages including Appendices : 37

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## 2 Details about the Test Laboratory

### Details about the Test Laboratory

#### Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Building 12&13, Zhiheng Wisdomland Business Park,  
Nantou Checkpoint Road 2, Nanshan District,  
Shenzhen City, 518052,  
P. R. China

FCC Registration Number: 514049

Telephone: 86 755 8828 6998  
Fax: 86 755 8828 5299

### 3 Description of the Equipment under Test

#### Description of the Equipment Under Test

Product:	Body Fat Analyzer
Model no.:	GBF-1714-F
FCC ID:	2AOJNGBF-1714-F
Options and accessories:	NIL
Ratings:	4.5VDC (supplied by 3 ×1.5 V AAA batteries)
RF Transmission Frequency:	2412-2462MHz
No. of Operated Channel:	11
Modulation:	802.11b: DBPSK, DQPSK, CCK, 802.11g/802.11n HT20/: BPSK, QPSK, 16-QAM, 64-QAM
Duty Cycle:	100%
Antenna Type:	Integral Antenna
Antenna Gain:	0dBi
Description of the EUT:	The Equipment Under Test (EUT) is a Body Fat Analyzer supports 2.4GHz Wi-Fi function.



## 4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2017 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to KDB558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10 (2013).

## 5 Summary of Test Results

Technical Requirements				
FCC Part 15 Subpart C				
Test Condition		Pages	Test Result	Test Site
§15.207	Conducted emission AC power port	---	N/A	--
§15.247(b)(1)	Conducted peak output power	10	Pass	Site 1
§15.247(e)	Power spectral density*	11	Pass	Site 1
§15.247(a)(2)	6dB bandwidth	16	Pass	Site 1
§15.247(a)(1)	Carrier frequency separation	--	N/A	--
§15.247(a)(1)(iii)	Number of hopping frequencies	--	N/A	--
§15.247(a)(1)(iii)	Dwell Time	--	N/A	--
§15.247(d)	Spurious RF conducted emissions	21	Pass	Site 1
§15.247(d)	Band edge	28	Pass	Site 1
§15.247(d) & §15.209 & §15.203	Spurious radiated emissions for transmitter	31	Pass	Site 1
§15.203	Antenna requirement	See note 2	Pass	--

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses an Integrated Metal Antenna 0dBi max. According to §15.203, it is considered sufficiently to comply with the provisions of this section.



## 6 General Remarks

### Remarks

This submittal(s) (test report) is intended for FCC ID: 2AOJNGBF-1714-F complies with Section 15.207, 15.209, 15.205, 15.247 of the FCC Part 15, Subpart C rules.

### SUMMARY:

All tests according to the regulations cited on page 5 were

n - Performed

o - **Not** Performed

The Equipment under Test

n - **Fulfills** the general approval requirements.

o - **Does not** fulfill the general approval requirements.

Sample Received Date: January 3, 2019

Testing Start Date: January 3, 2019

Testing End Date: May 20, 2019

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by:

Prepared by:

Tested by:

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EMC Project Manager

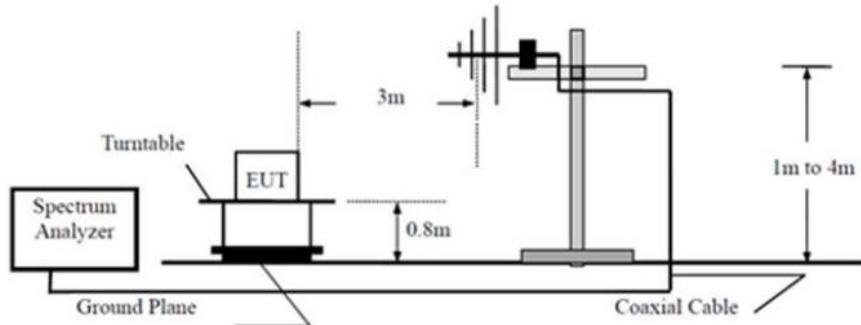
Mark Chen  
EMC Project Engineer

Carry Cai  
EMC Test Engineer

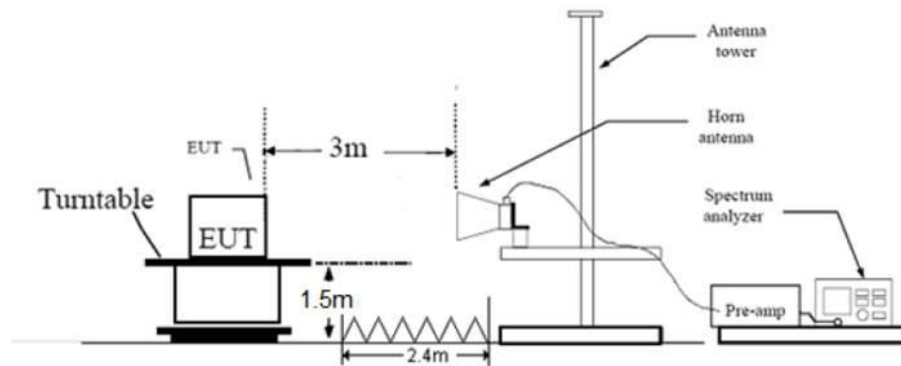
## 7 Test Setups

### 7.1 Radiated test setups

Below 1GHz



Above 1GHz





## 8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	S/N
Notebook	Lenovo	T460S	---

Test software information:

Test Software Version	ESP Series Modules Test Tool V2.2.2.exe	
Modulation	Setting TX Power	Packet Type
802.11b	18	11b LONG 1 Mbps
802.11g	18	11g 6 Mbps
802.11nHT20	18	MCS0 6.5 Mbps

Test Channel information:

Test Mode	Channel (MHz)		
802.11b	CH 1: 2412MHz	CH 6: 2437MHz	CH 11: 2462MHz
802.11g	CH 1: 2412MHz	CH 6: 2437MHz	CH 11: 2462MHz
802.11n HT20	CH 1: 2412MHz	CH 6: 2437MHz	CH 11: 2462MHz



## 9 Technical Requirement

### 9.1 Conducted peak output power

#### Test Method

1. Connect the power meter to the EUT
  - a) The EUT is configured to transmit continuously, or to transmit with a constant duty factor.
  - b) At all times the EUT is transmitting at its maximum power control level.
  - c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
3. Adjust the measurement in dBm by adding  $10\log(1/x)$ , where x is the duty cycle to the measurement result.

#### Limits

According to §15.247 (b) (1), conducted peak output power limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤1	≤30

#### Test result

802.11b

Frequency MHz	Conducted Peak Output Power dBm	Result
Top channel 2412MHz	16.5	Pass
Middle channel 2437MHz	16.3	Pass
Bottom channel 2462MHz	17.0	Pass

802.11g

Frequency MHz	Conducted Peak Output Power dBm	Result
Top channel 2412MHz	16.2	Pass
Middle channel 2437MHz	16.6	Pass
Bottom channel 2462MHz	17.0	Pass

802.11nHT20

Frequency MHz	Conducted Peak Output Power dBm	Result
Top channel 2412MHz	16.2	Pass
Middle channel 2437MHz	16.5	Pass
Bottom channel 2462MHz	16.8	Pass



## 9.2 Power spectral density

### Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

1. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW≥3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
2. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
3. Repeat above procedures until other frequencies measured were completed.

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### Limit

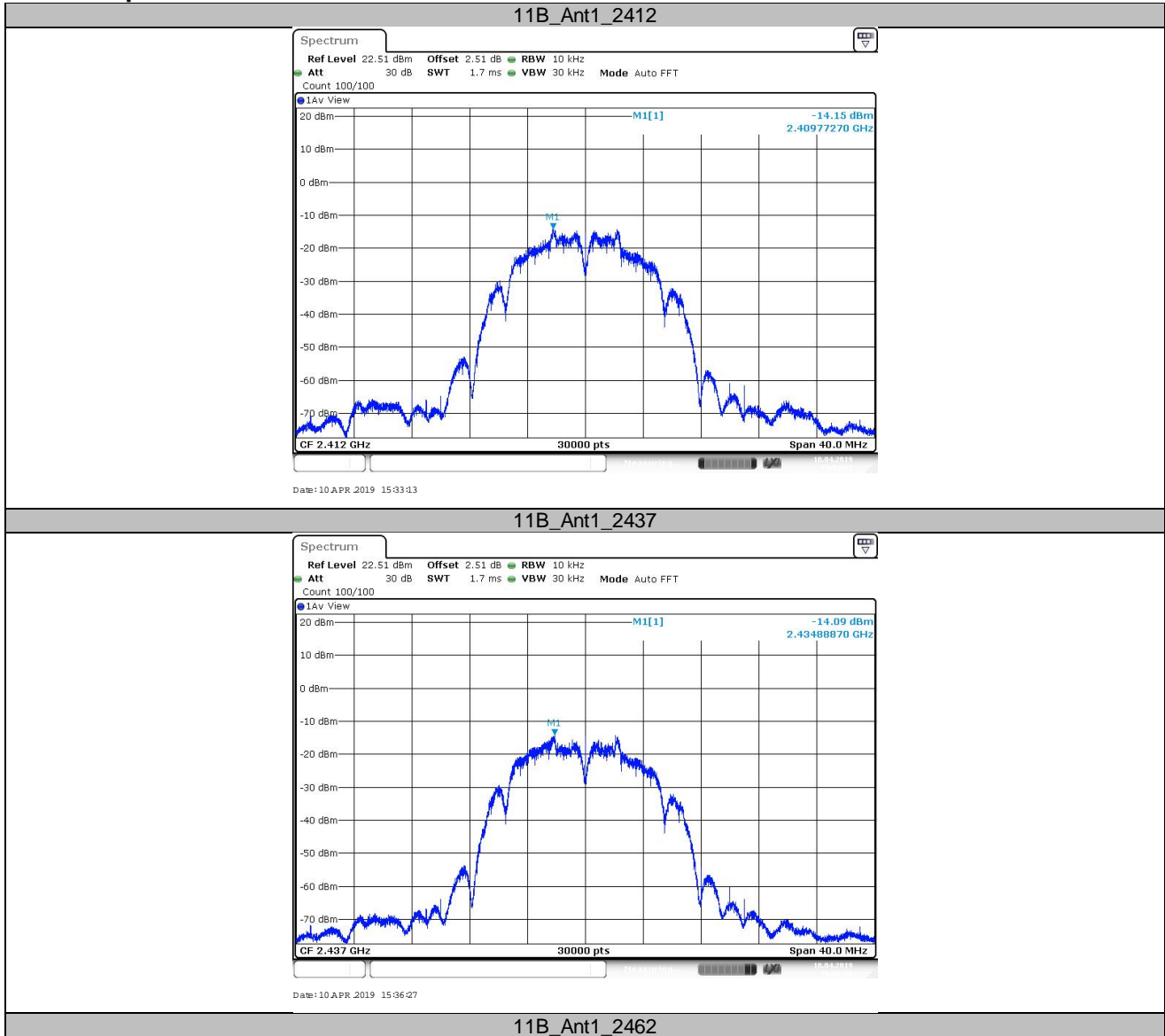
Limit [dBm/3kHz]

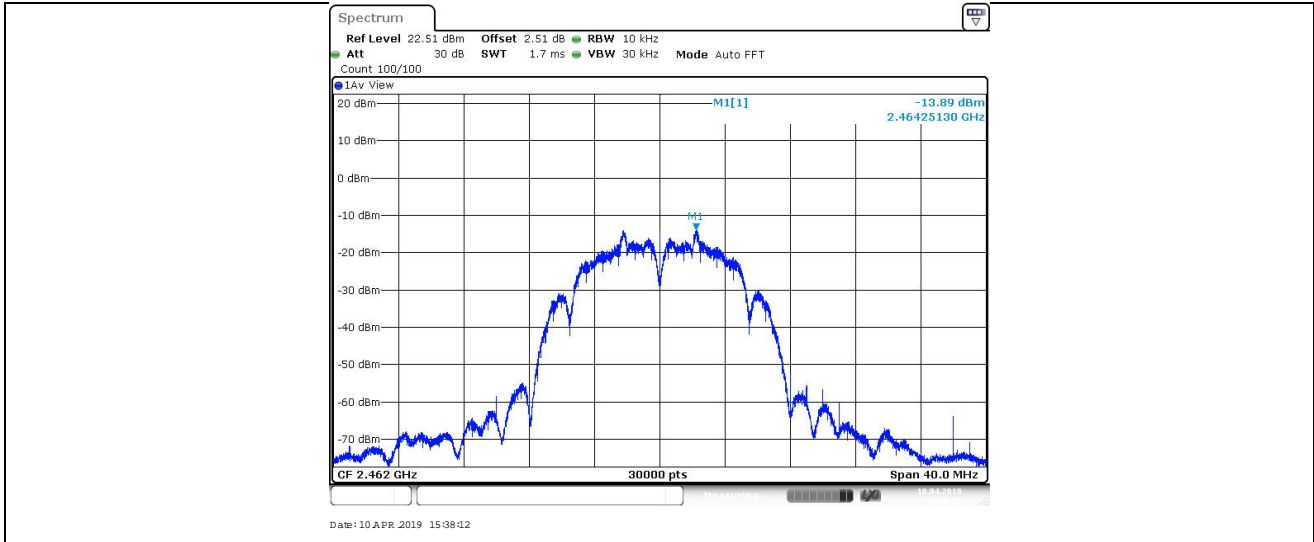
≤8

### Test result

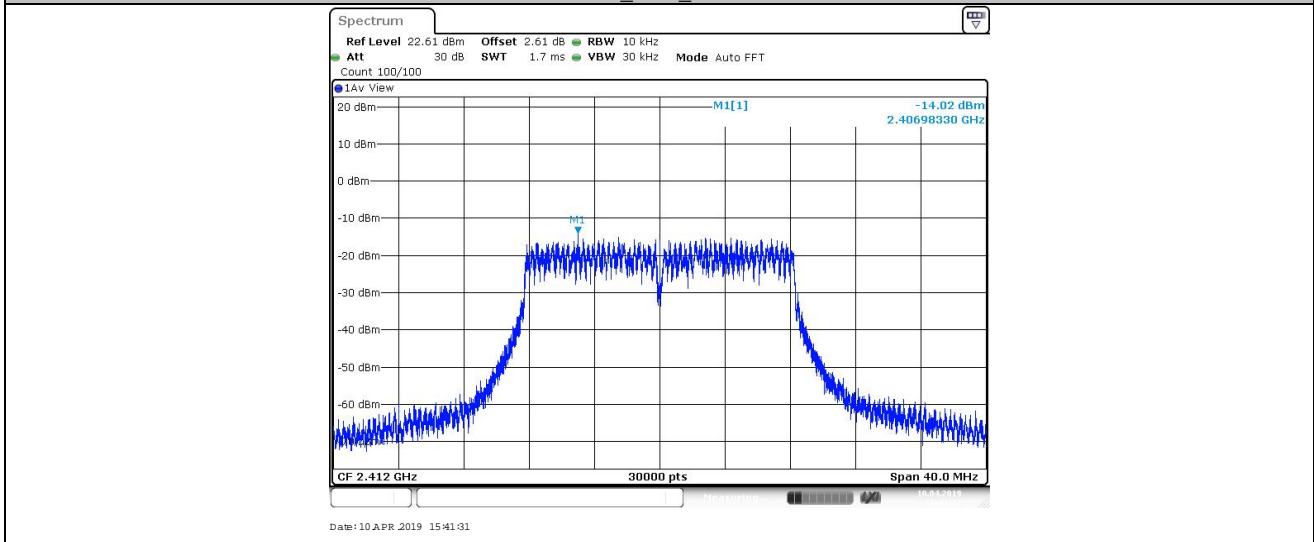
TestMode	Channel	Result(dbm/10kHz)	Limit (dBm/3kHz)	Verdict
11B	2412	-14.15	≤8	PASS
	2437	-14.09	≤8	PASS
	2462	-13.89	≤8	PASS
11G	2412	-14.02	≤8	PASS
	2437	-14.21	≤8	PASS
	2462	-14.28	≤8	PASS
11N20SISO	2412	-14.97	≤8	PASS
	2437	-13.92	≤8	PASS
	2462	-13.62	≤8	PASS

### Test Graphs

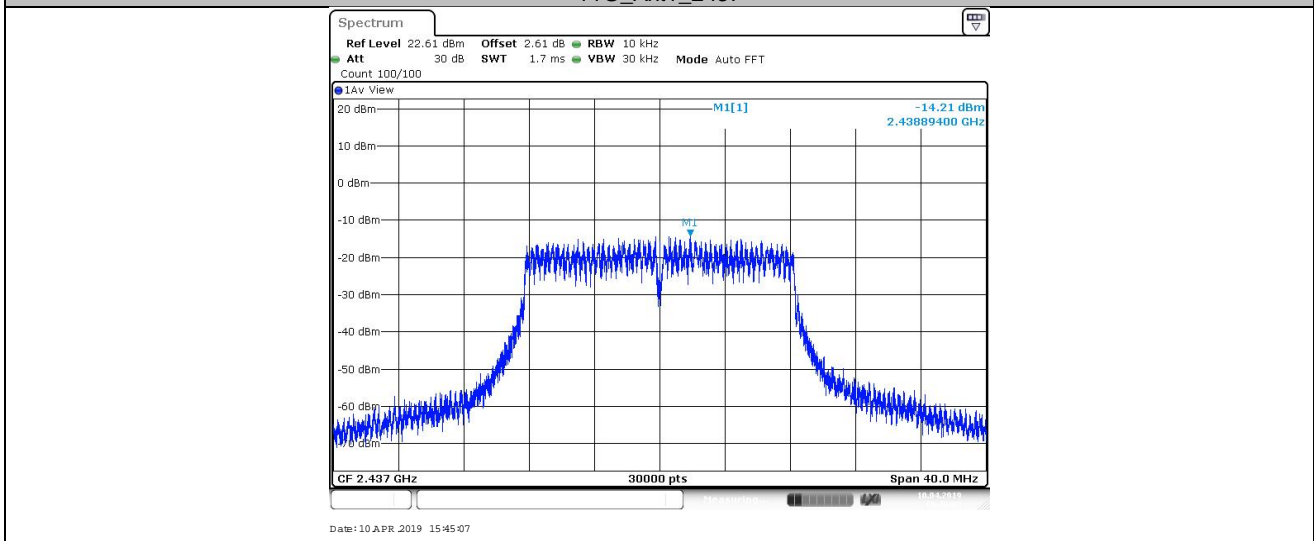




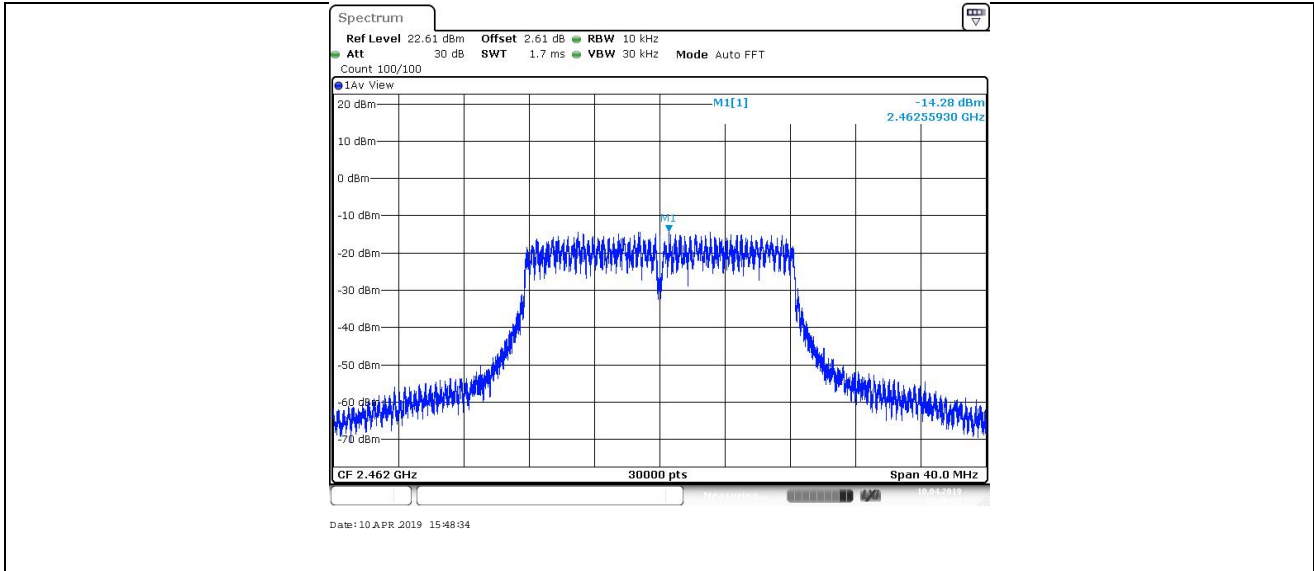
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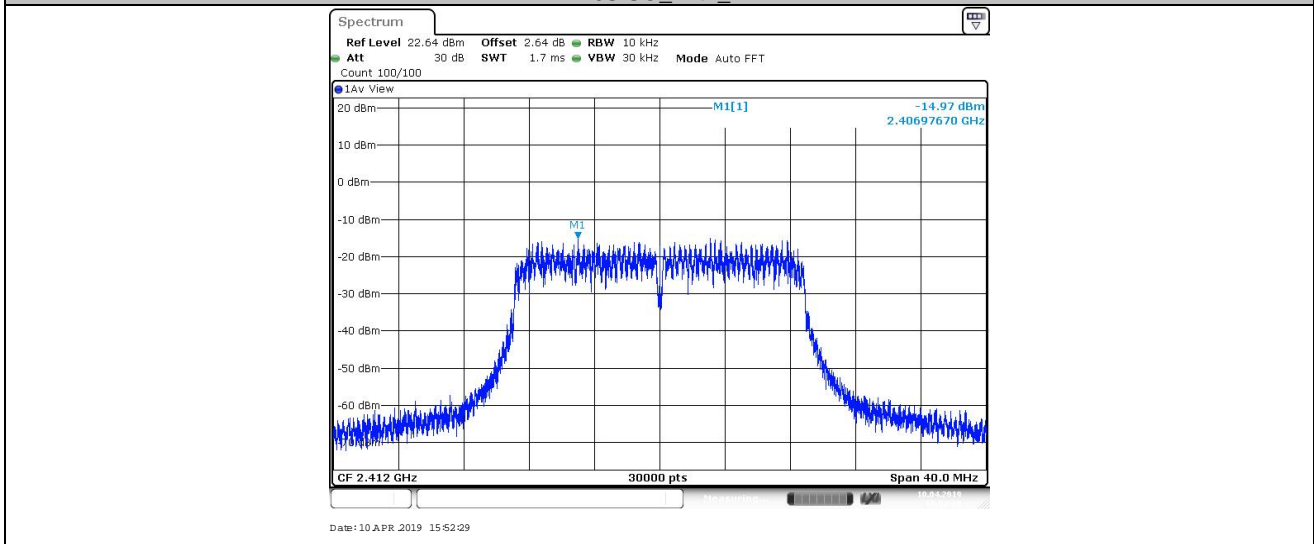
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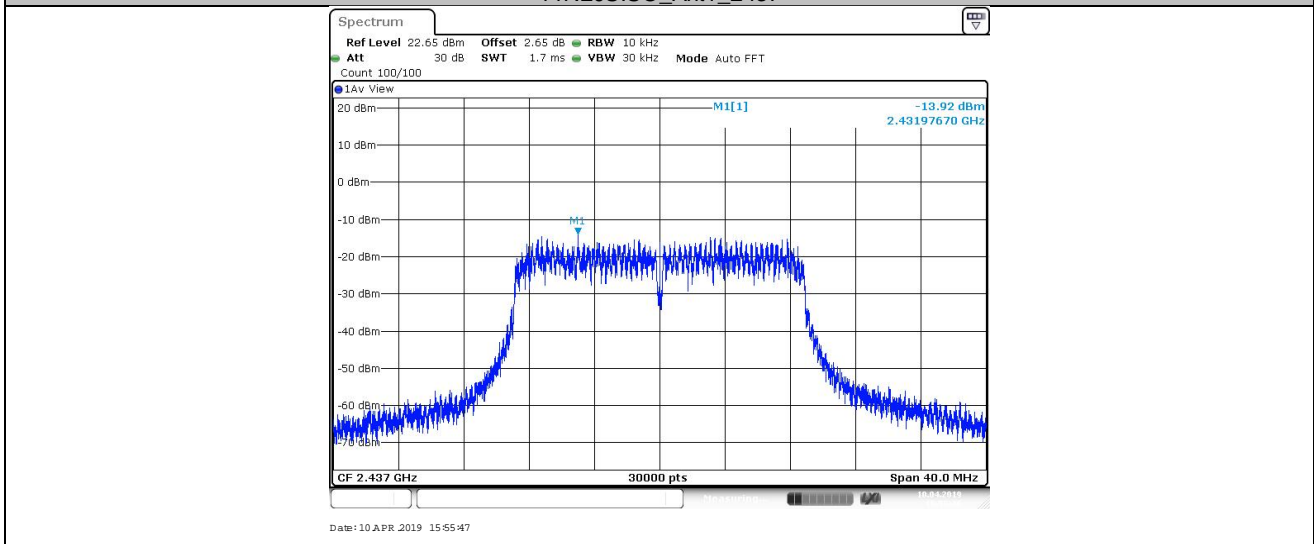
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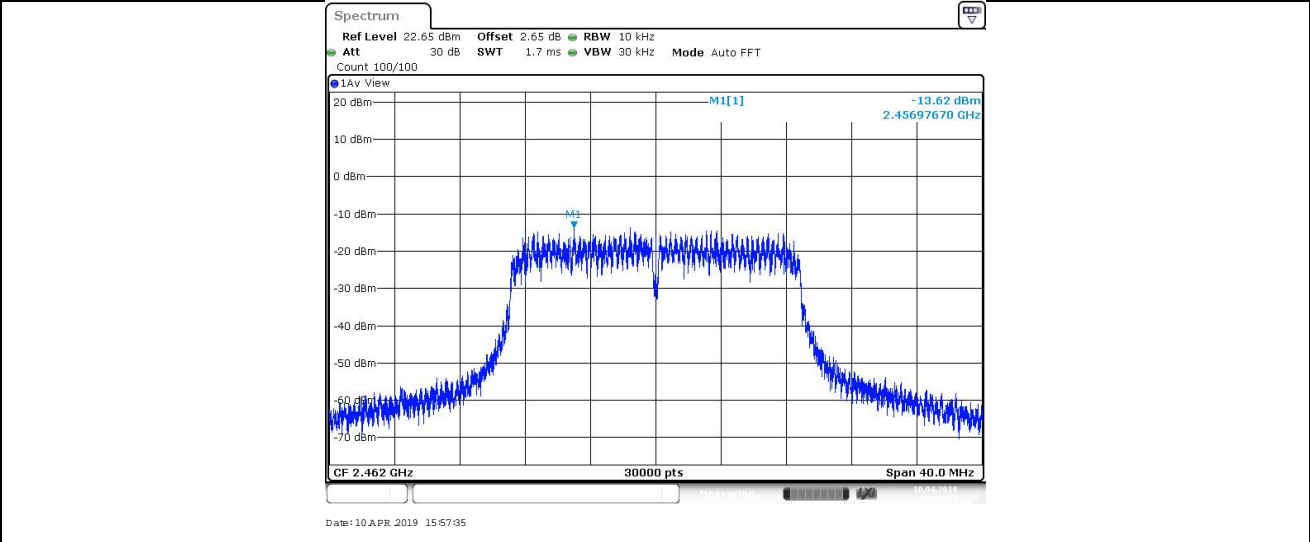
11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



### 9.3 6dB bandwidth

#### Test Method

1. Use the following spectrum analyzer settings:  
RBW=100K, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
2. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be  $\geq$  6 dB.
3. Allow the trace to stabilize, record the X dB Bandwidth value.

#### Limit

Limit [kHz]

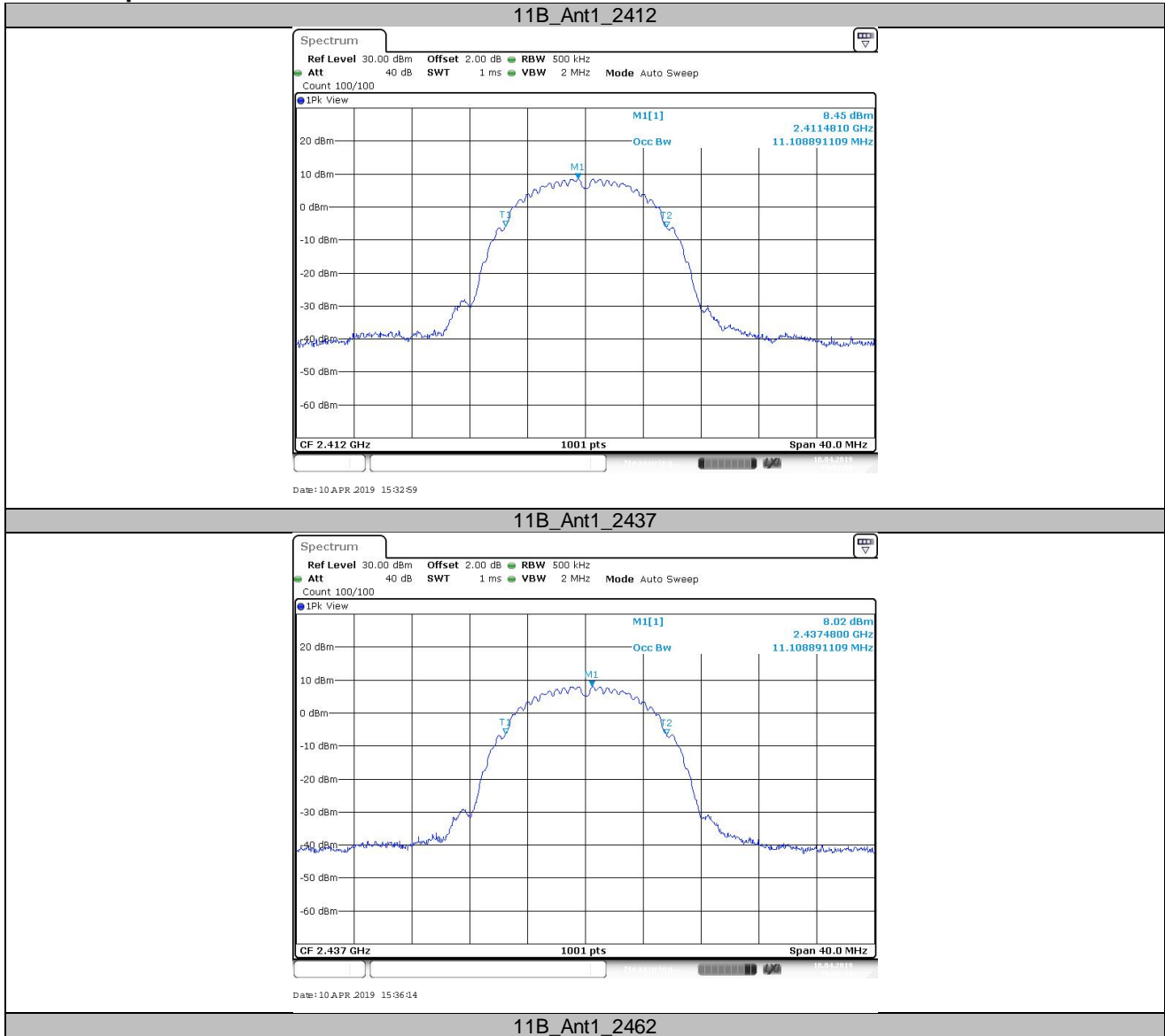
—————  
 $\geq$ 500

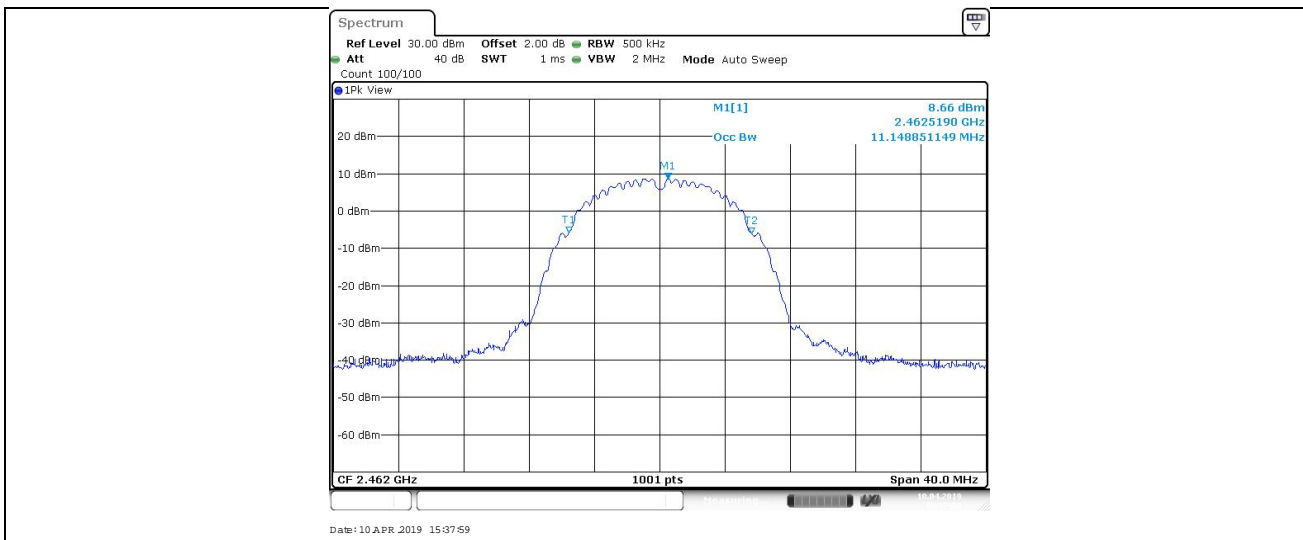
#### Test result

TestMode	Channel	DTS BW [MHz]	Limit [MHz]	Verdict
11B	2412	7.64	$\geq$ 500	PASS
	2437	8.60	$\geq$ 500	PASS
	2462	9.12	$\geq$ 500	PASS
11G	2412	16.40	$\geq$ 500	PASS
	2437	16.40	$\geq$ 500	PASS
	2462	16.40	$\geq$ 500	PASS
11N20SISO	2412	16.64	$\geq$ 500	PASS
	2437	16.36	$\geq$ 500	PASS
	2462	16.60	$\geq$ 500	PASS

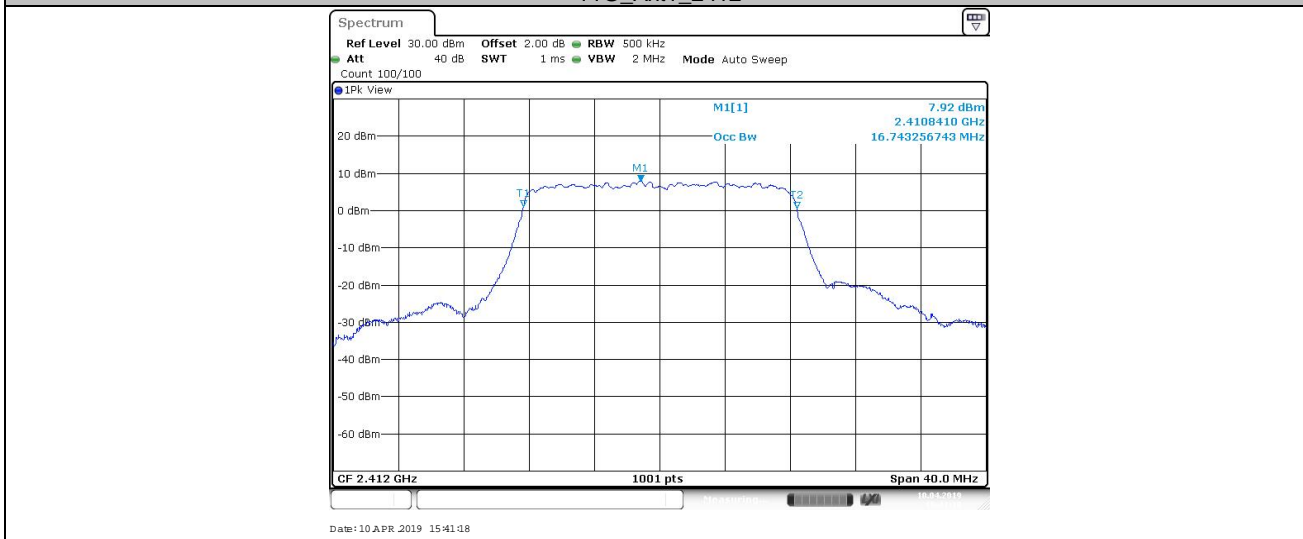


### Test Graphs

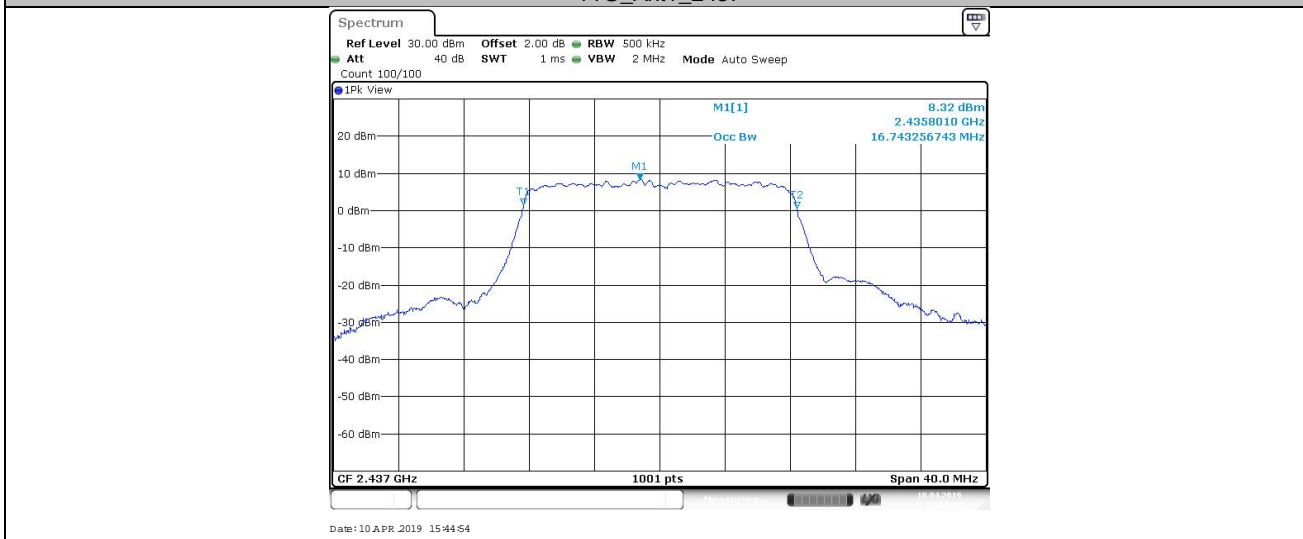




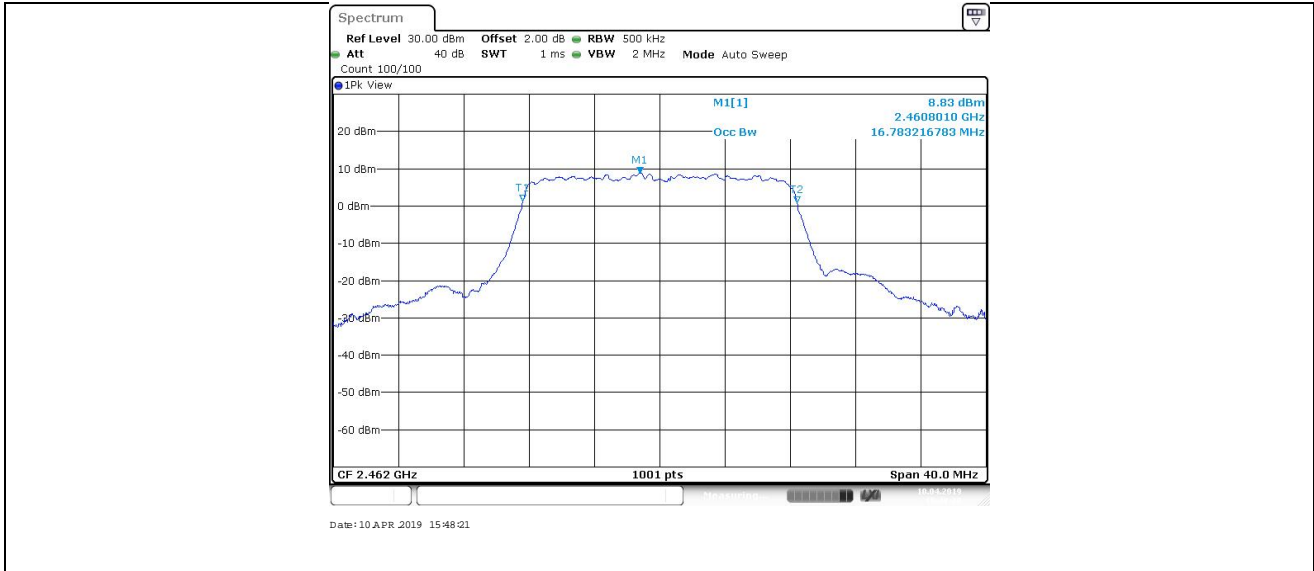
11G\_Ant1\_2412



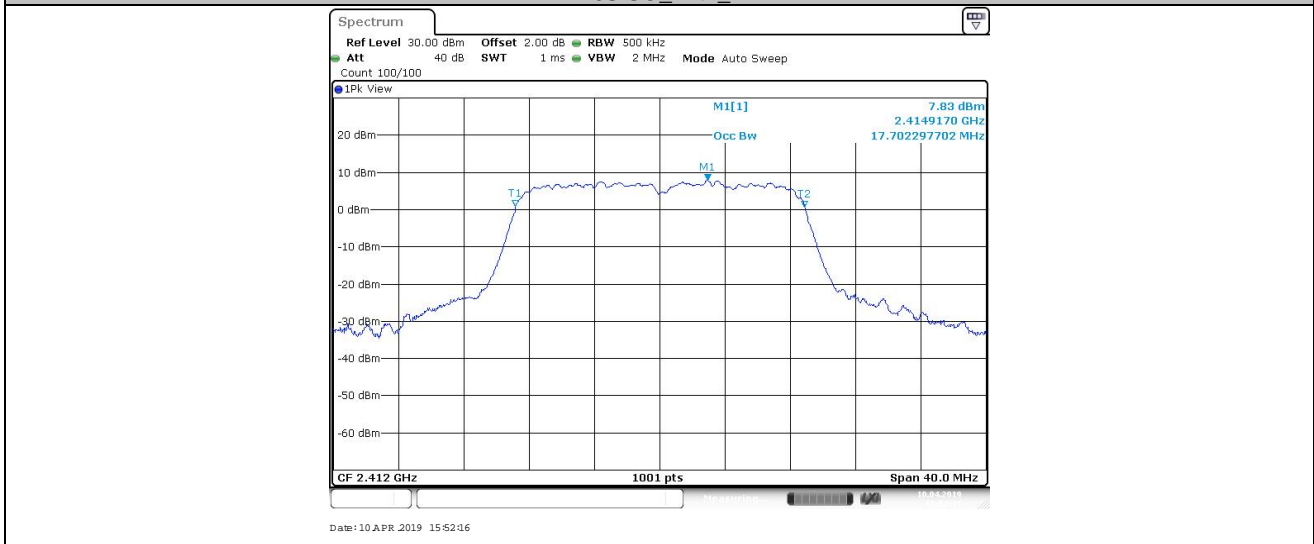
11G\_Ant1\_2437



11G\_Ant1\_2462



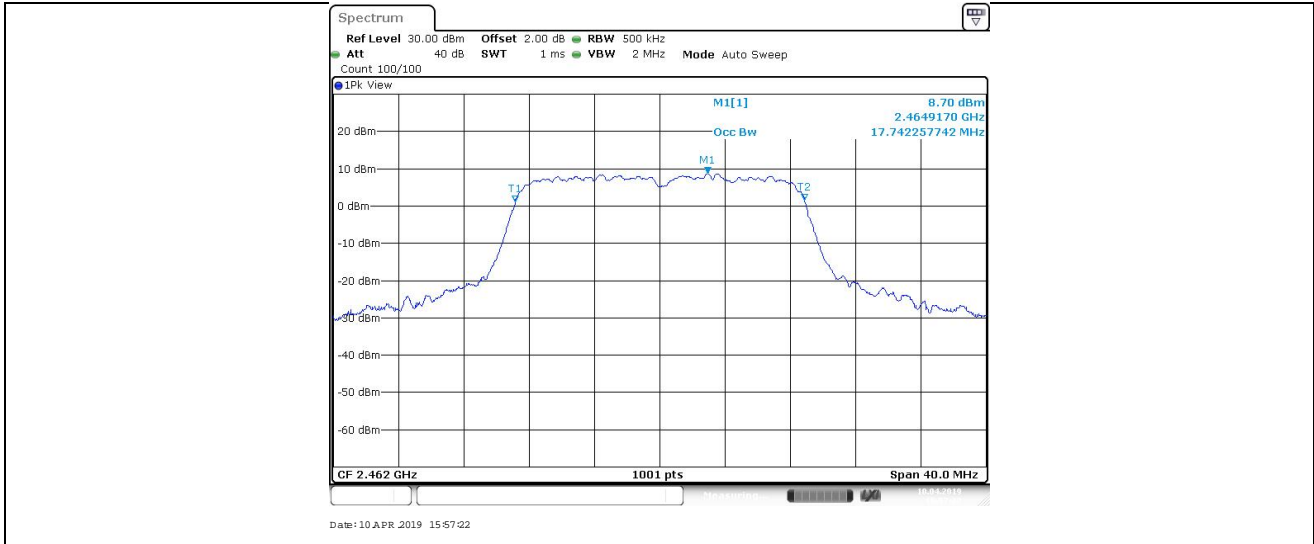
11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



## 9.4 Spurious RF conducted emissions

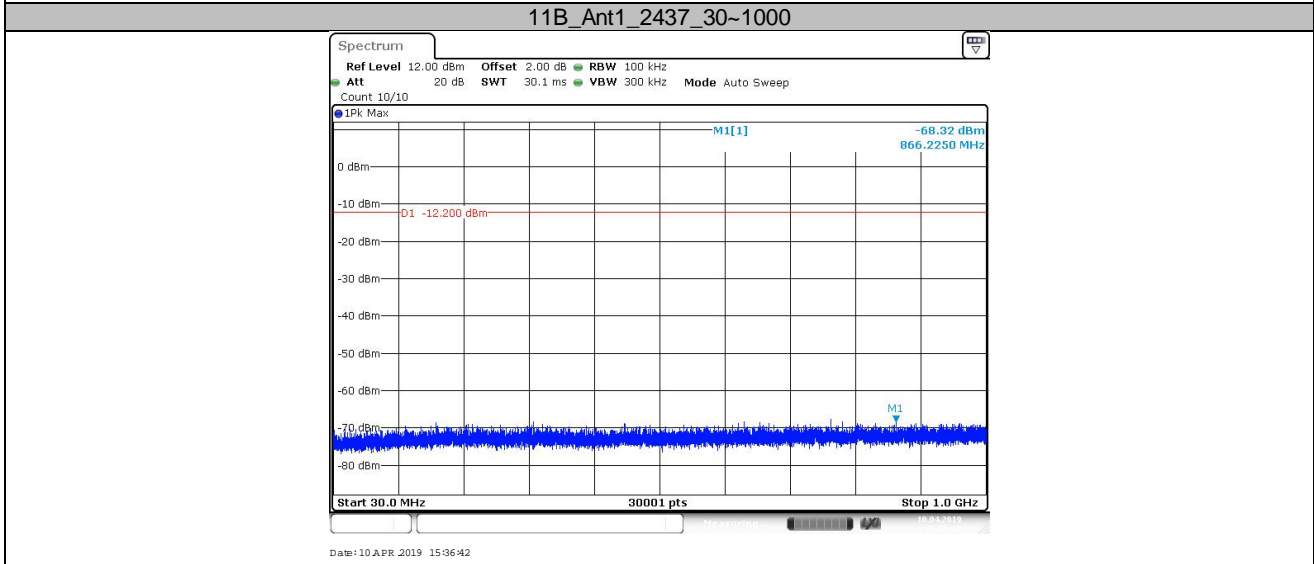
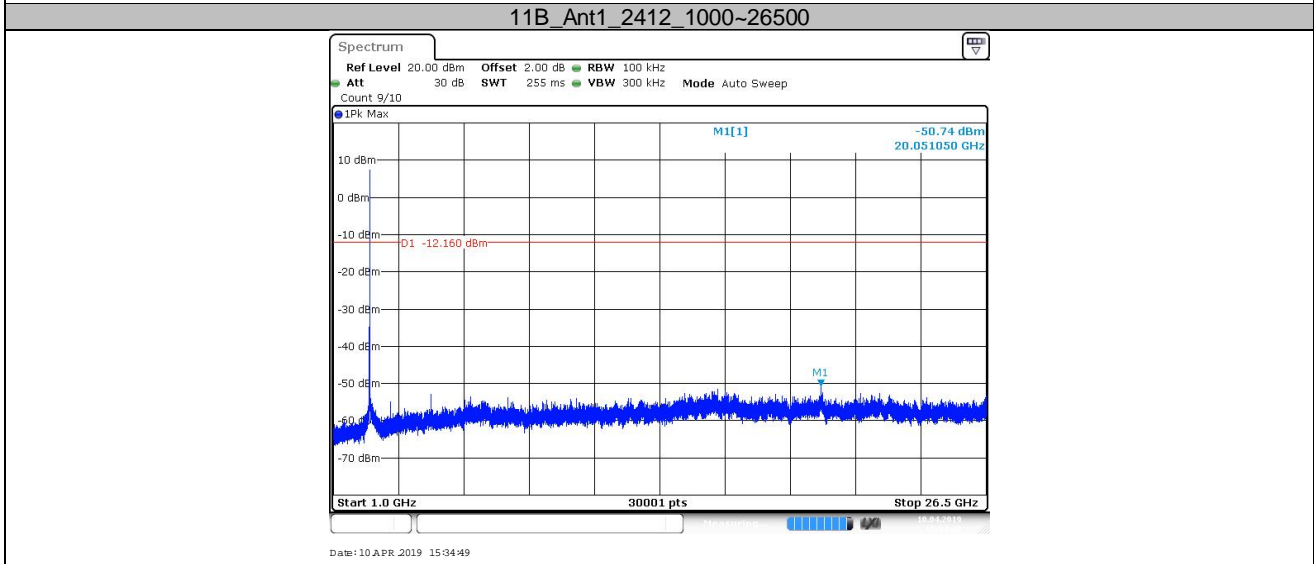
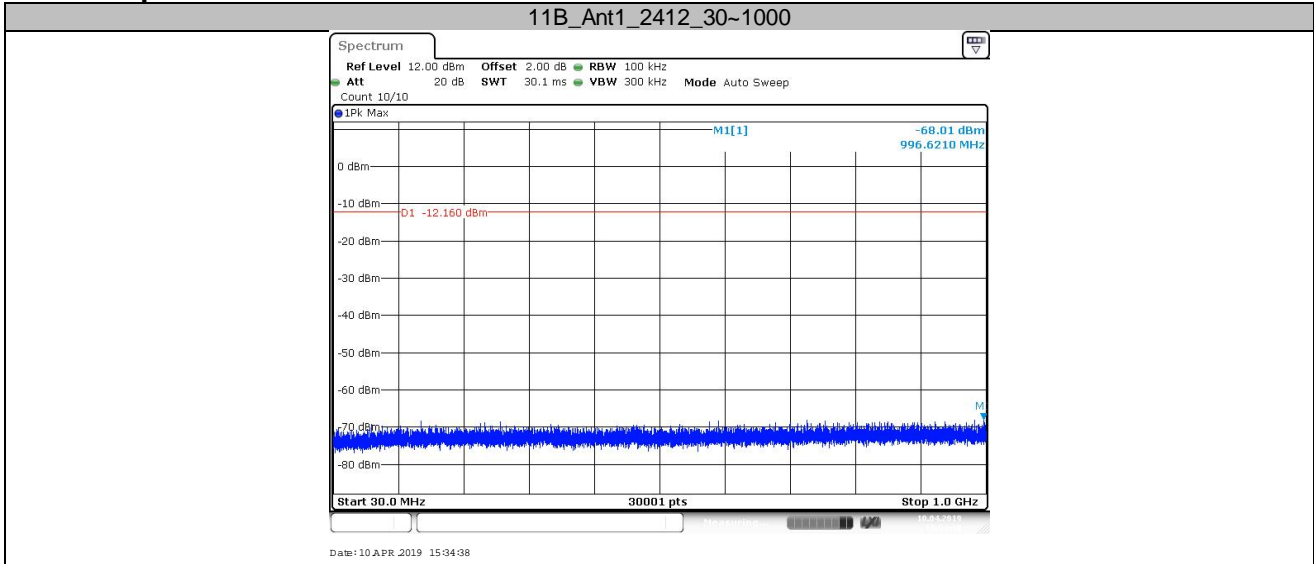
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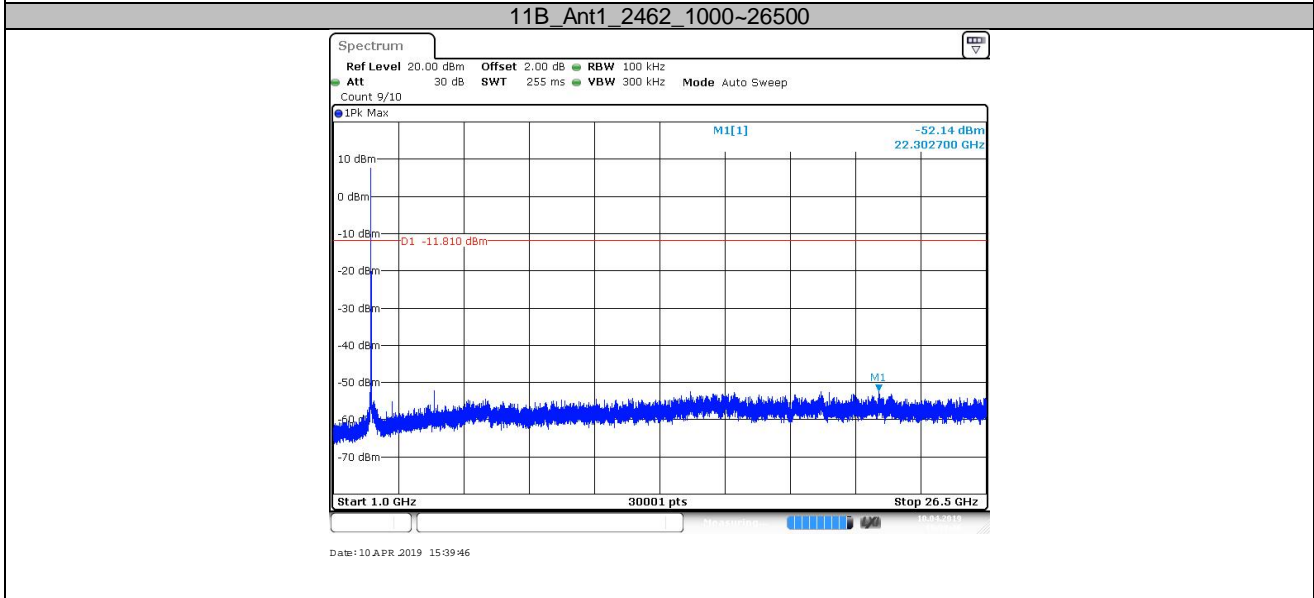
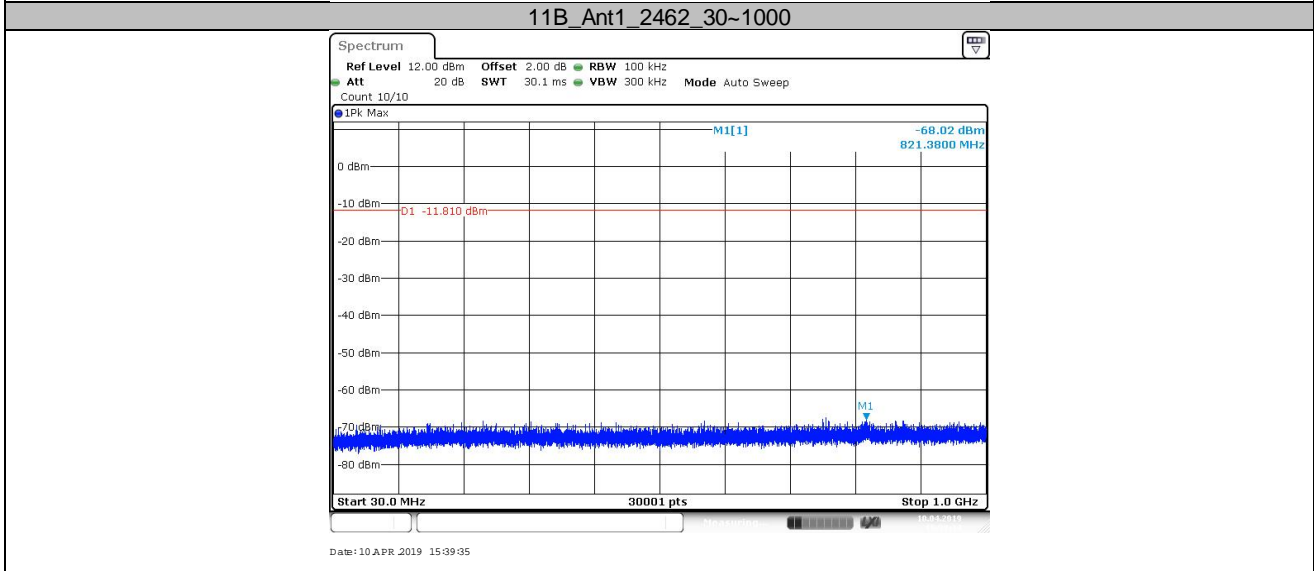
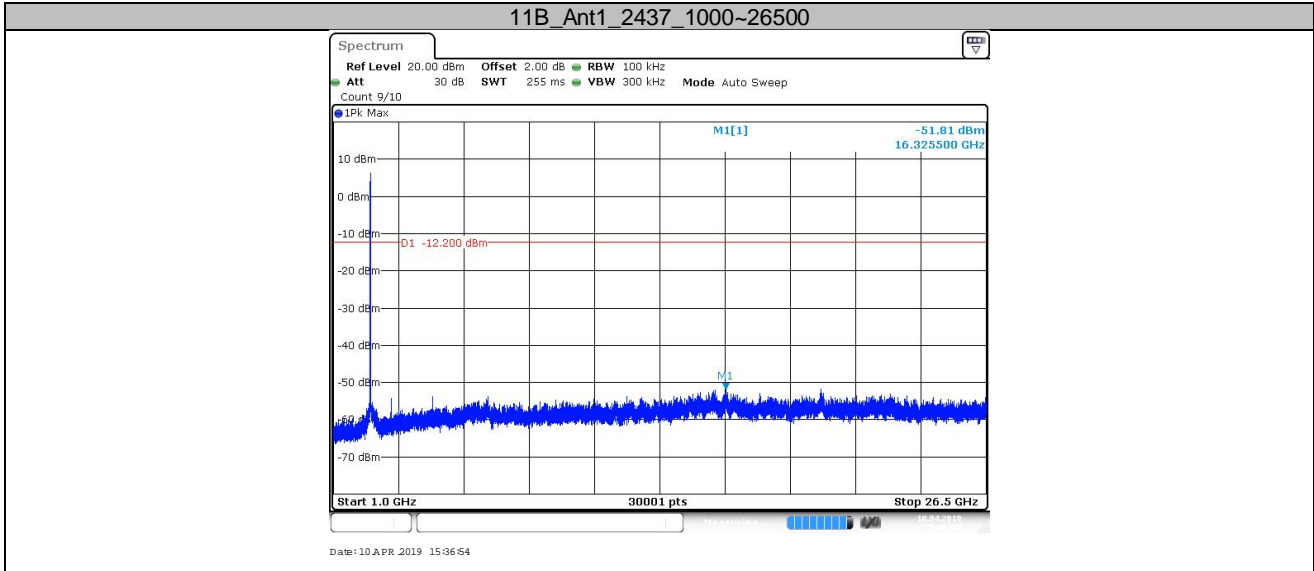
1. Establish a reference level by using the following procedure:
  - a. Set RBW=100 kHz. VBW $\geq$ 3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.
  - b. Allow trace to fully stabilize, use the peak marker function to determine the maximum PSD level.
2. Use the maximum PSD level to establish the reference level.
  - a. Set the center frequency and span to encompass frequency range to be measured.
  - b. Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements, report the three highest emissions relative to the limit.
3. Repeat above procedures until other frequencies measured were completed.

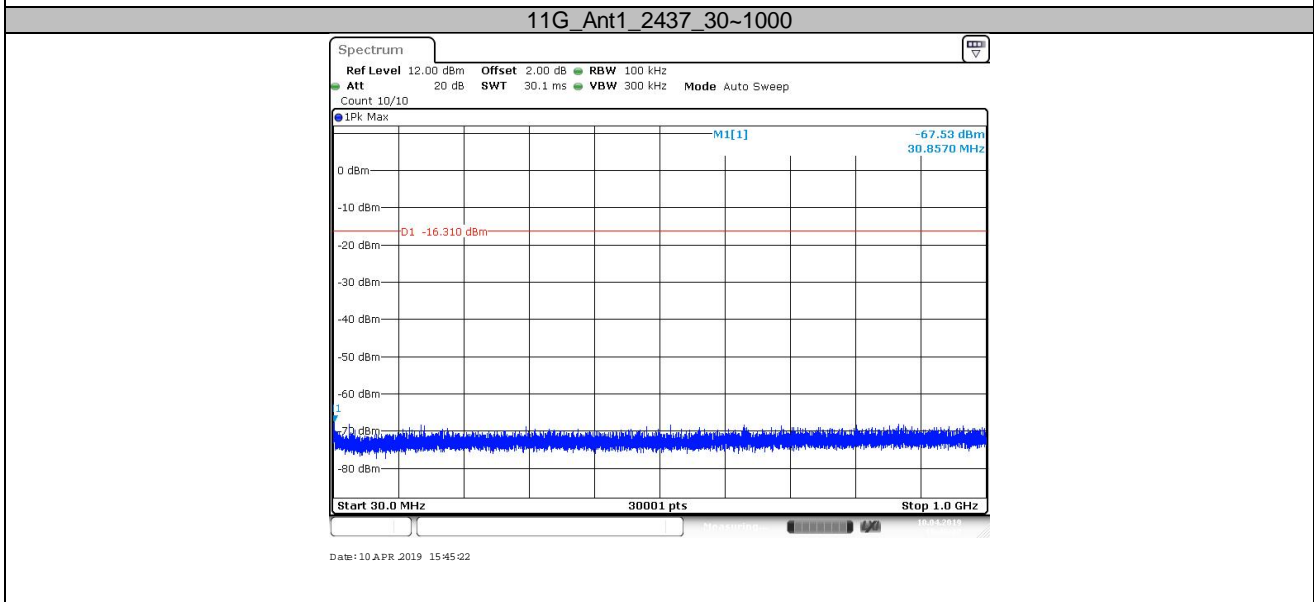
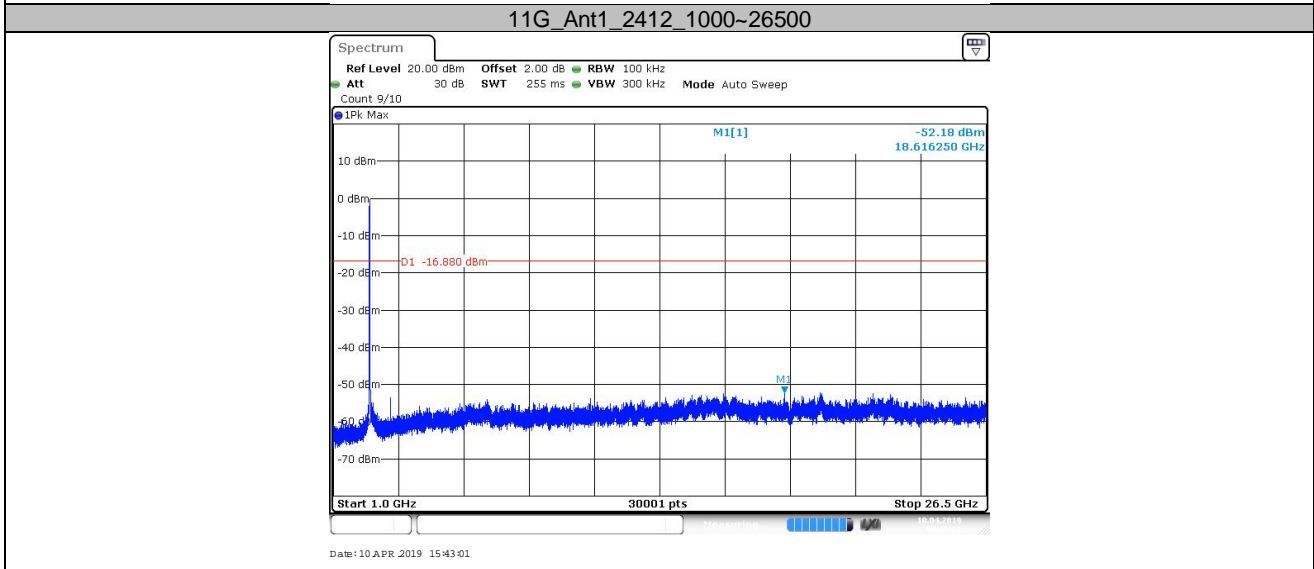
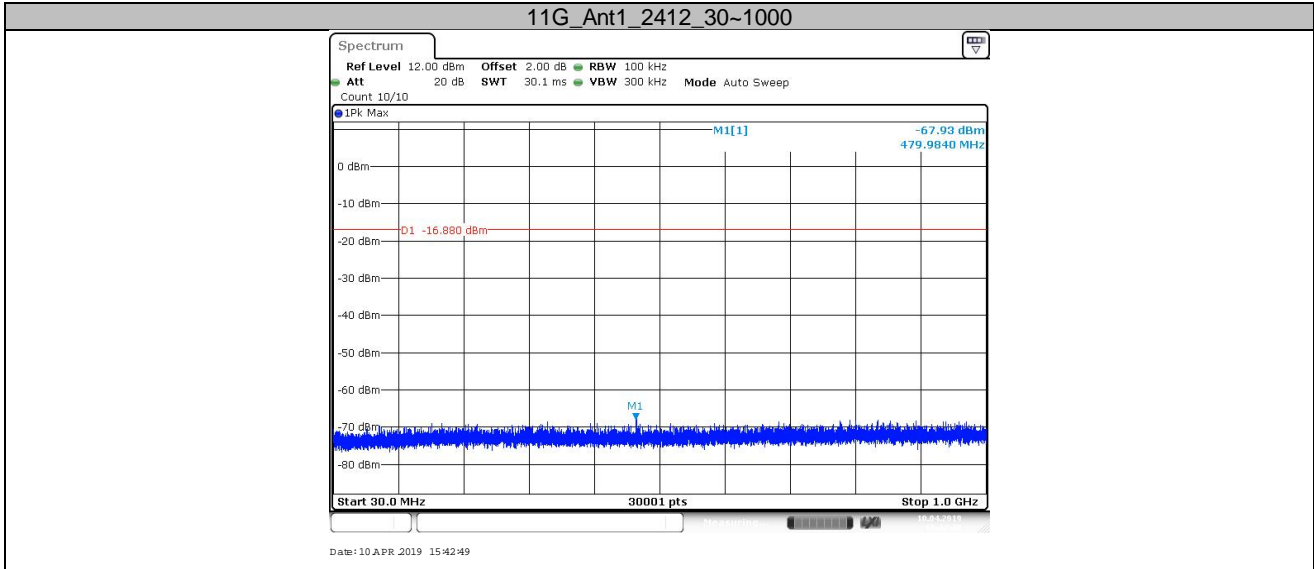
### Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

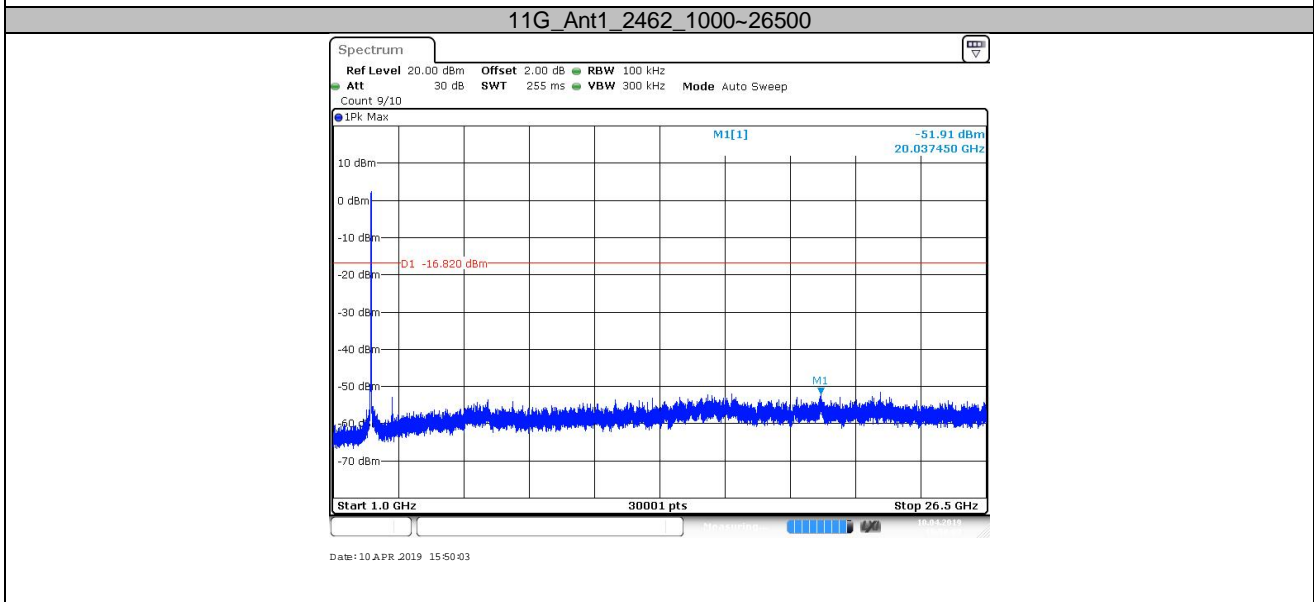
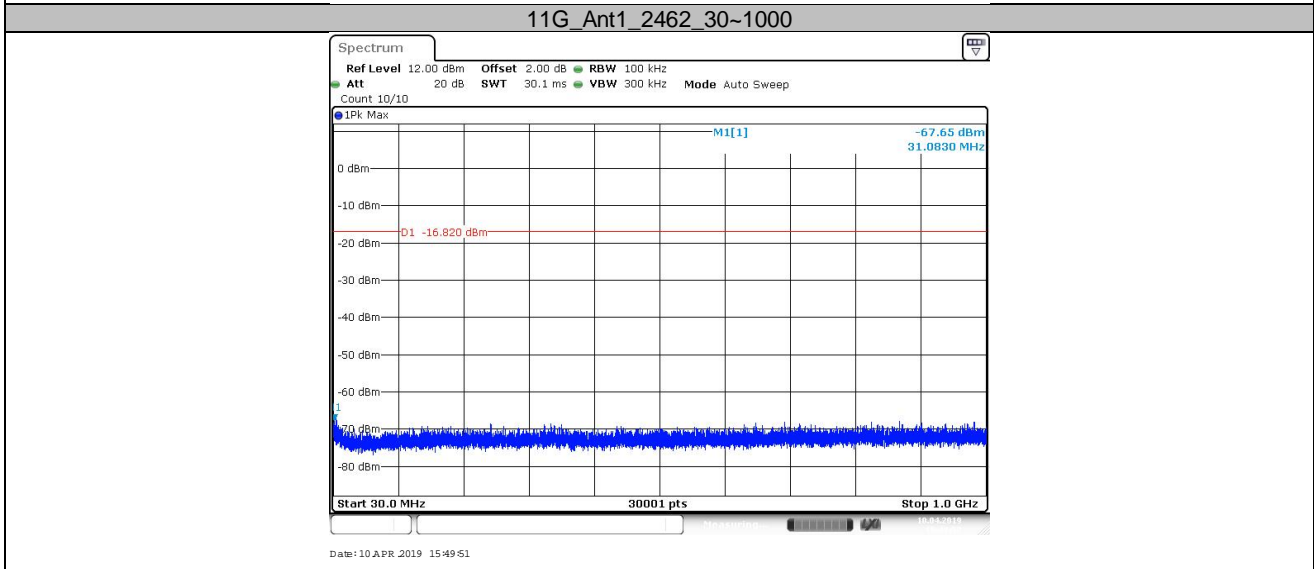
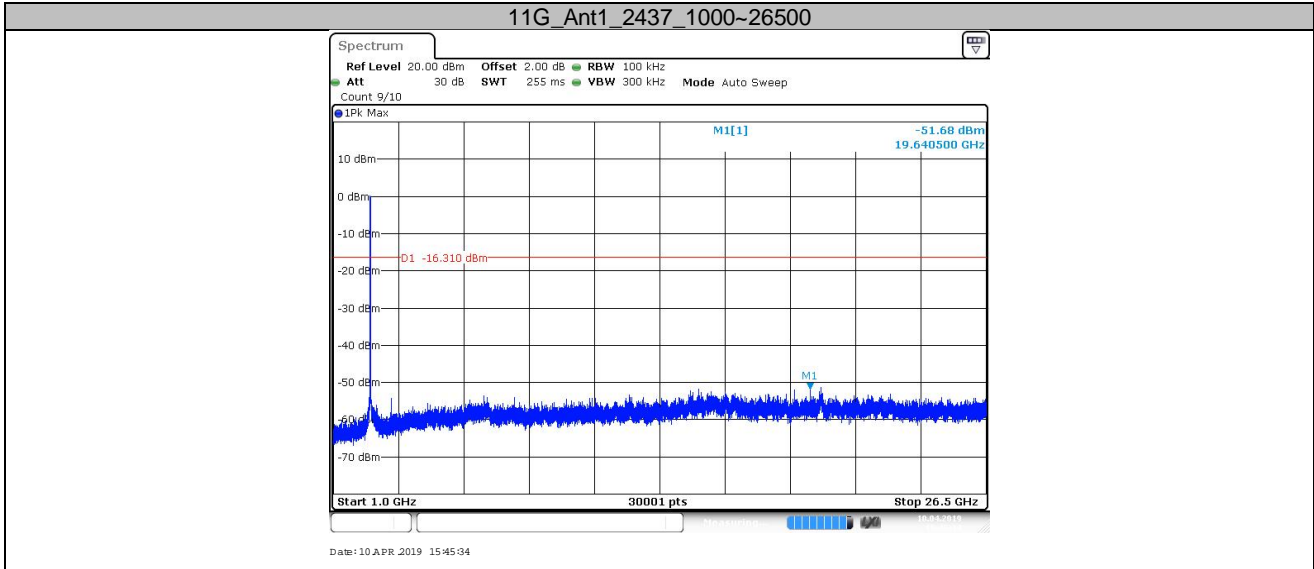
### Test Graphs

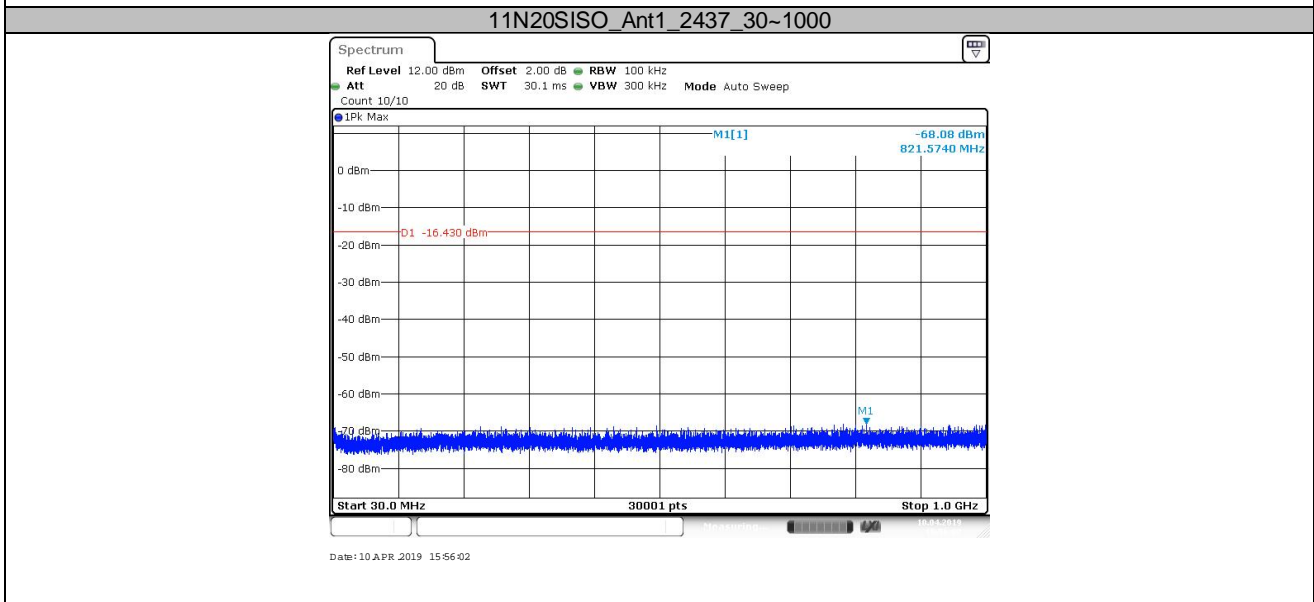
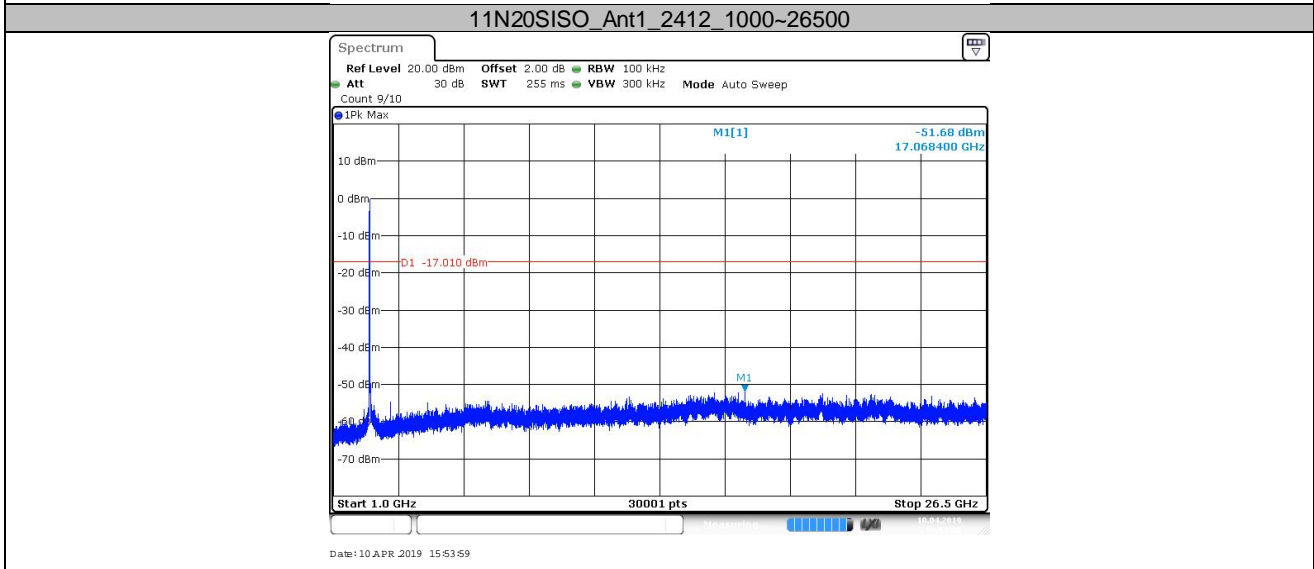
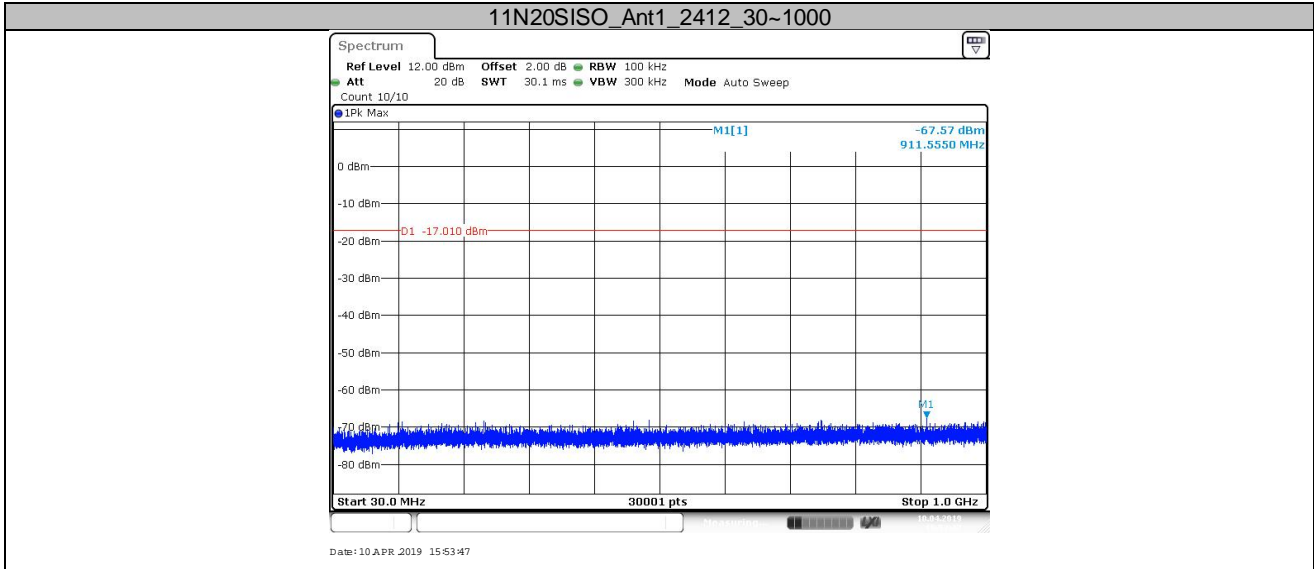


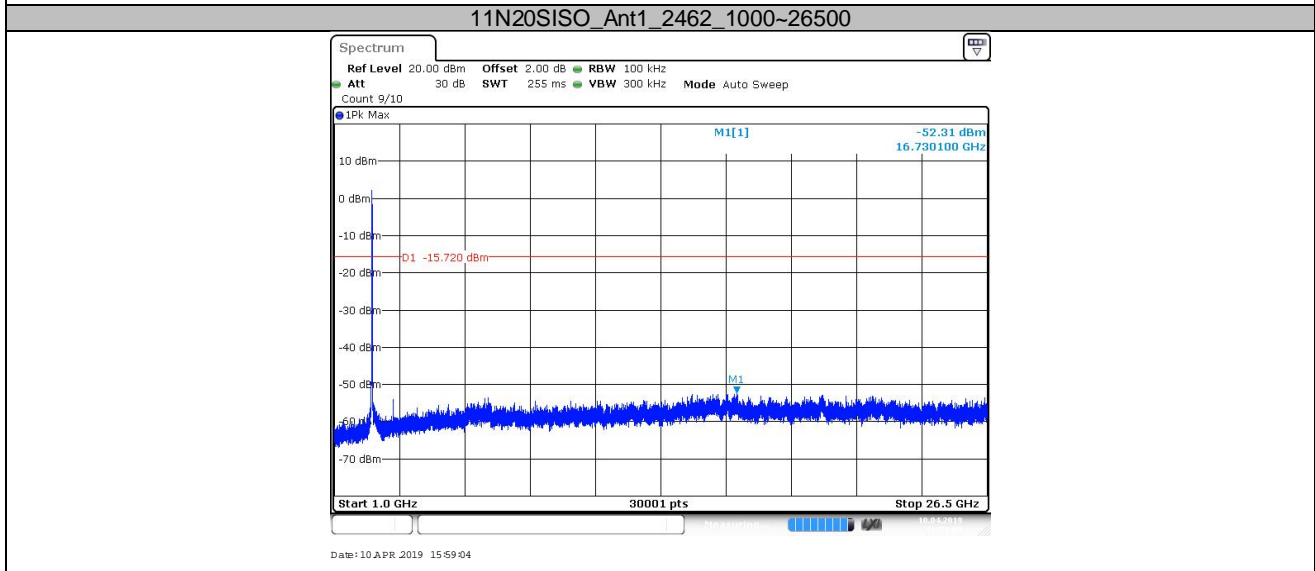
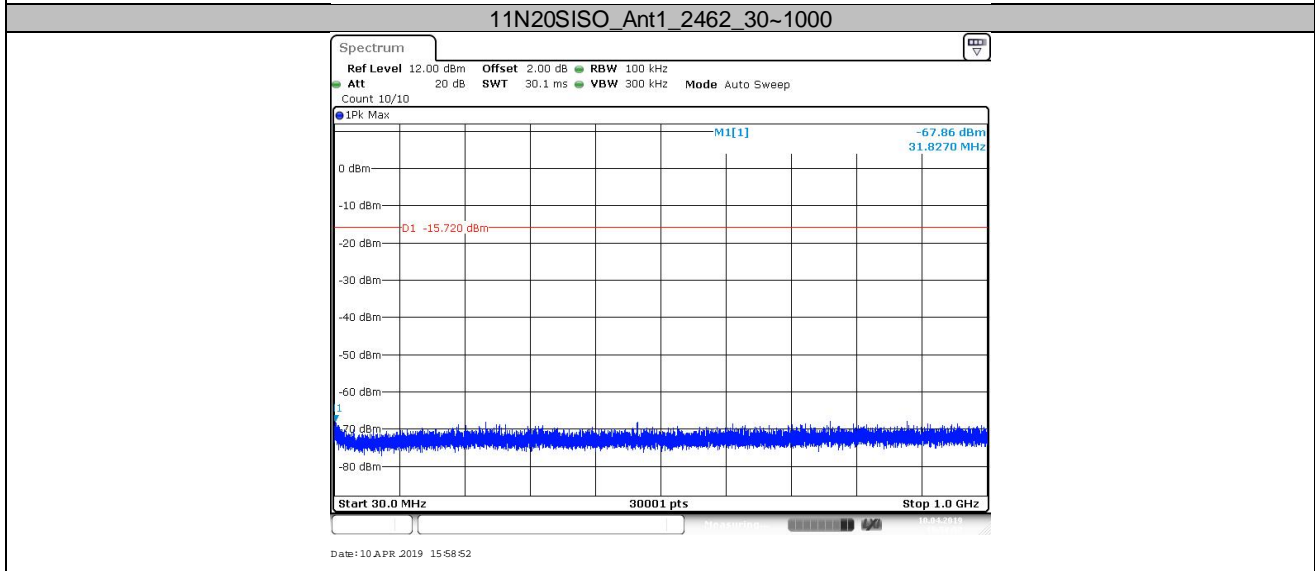
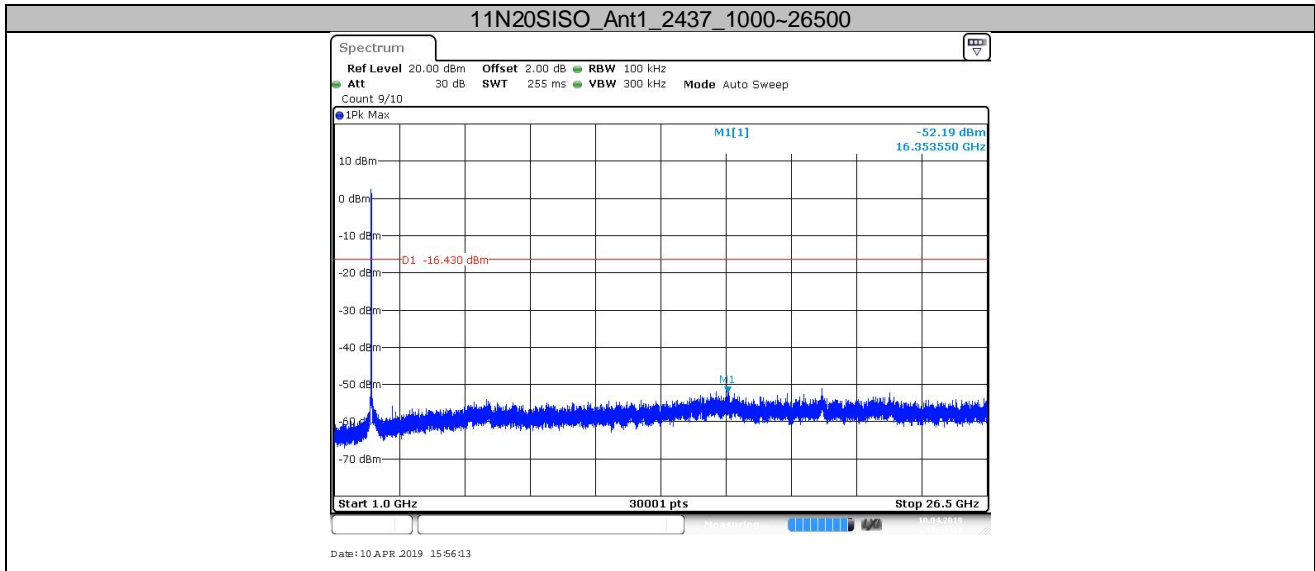














## 9.5 Band edge

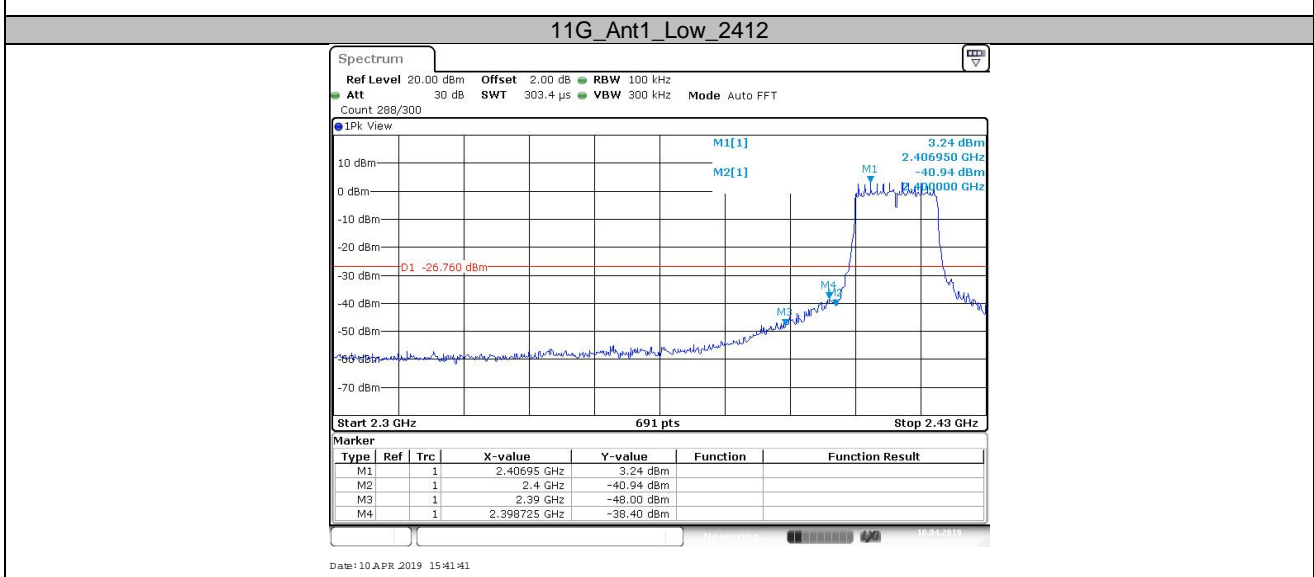
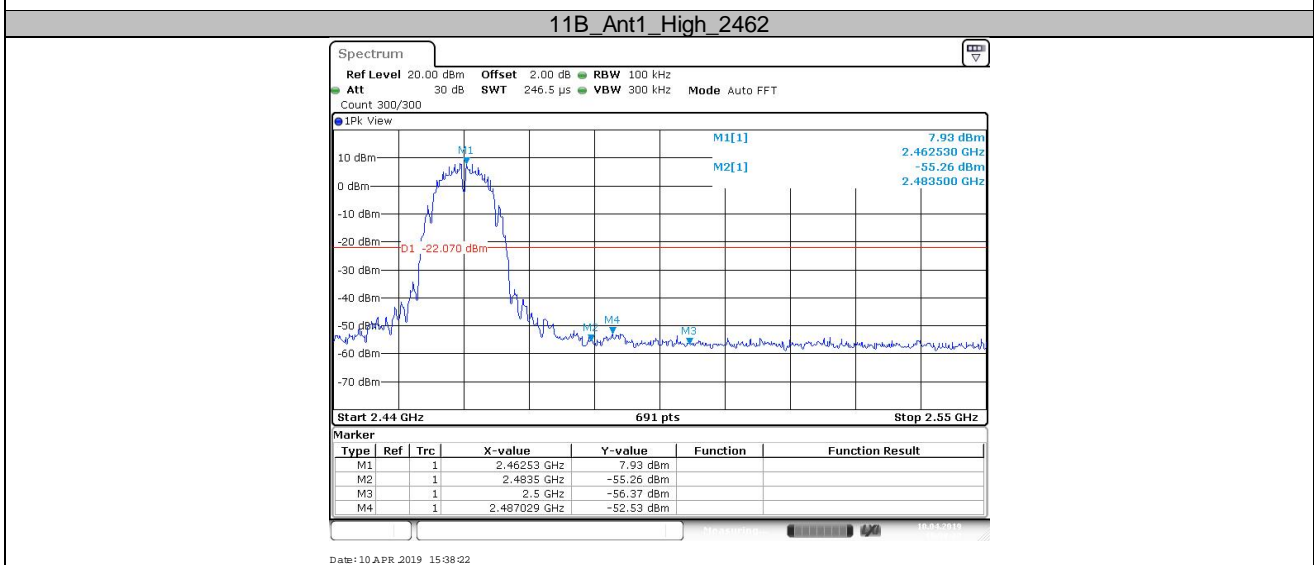
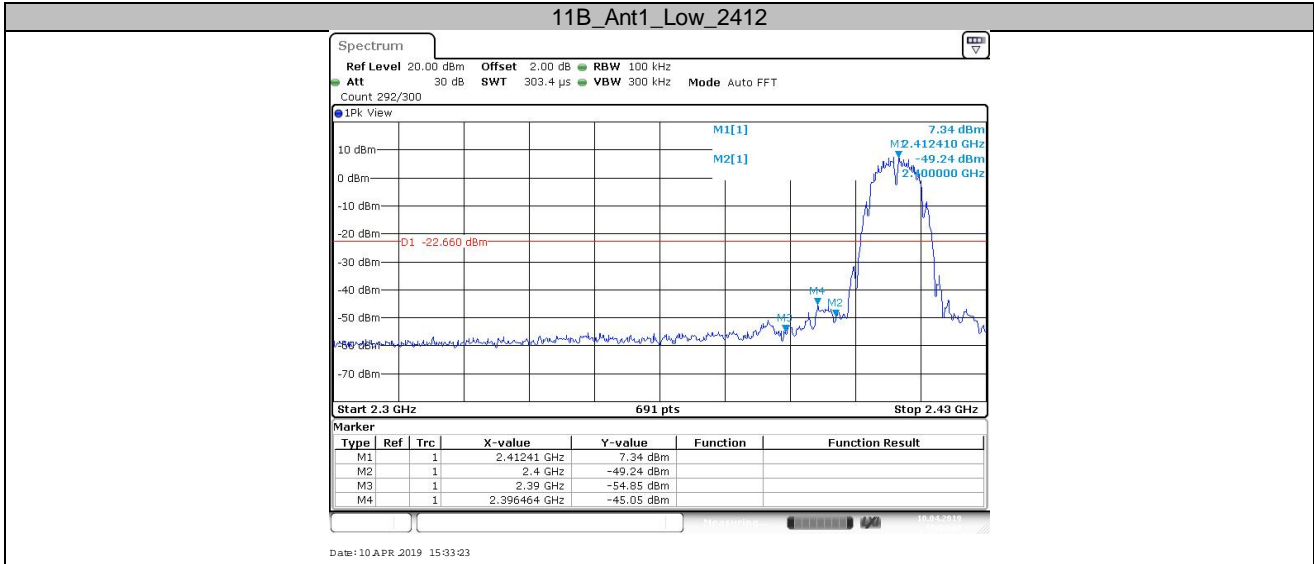
### Test Method

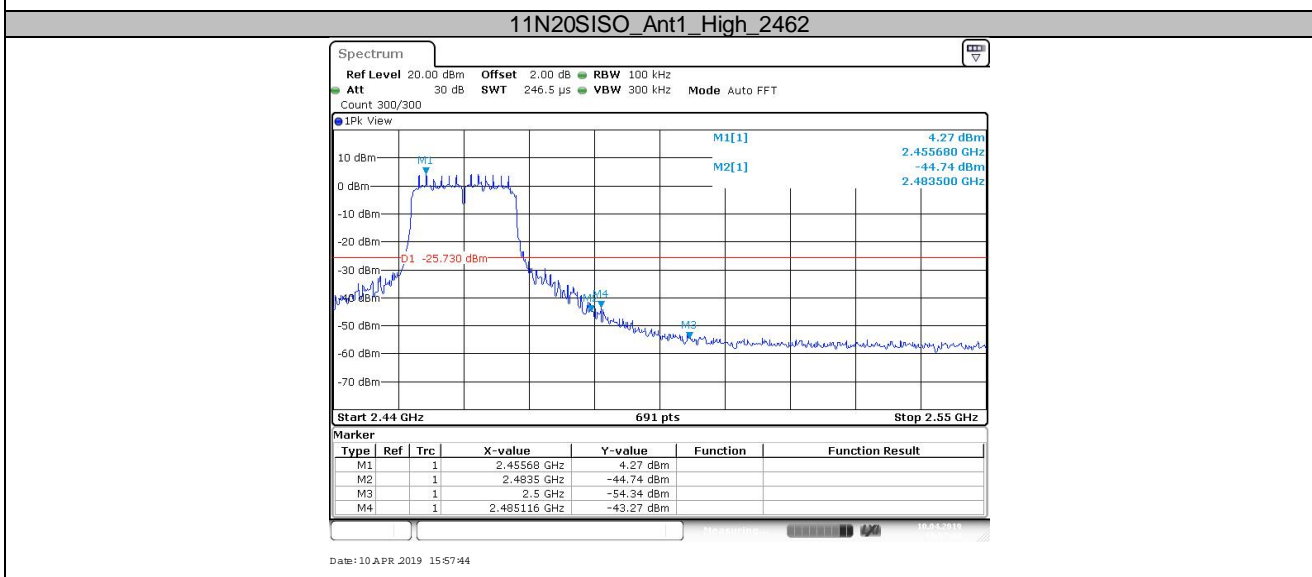
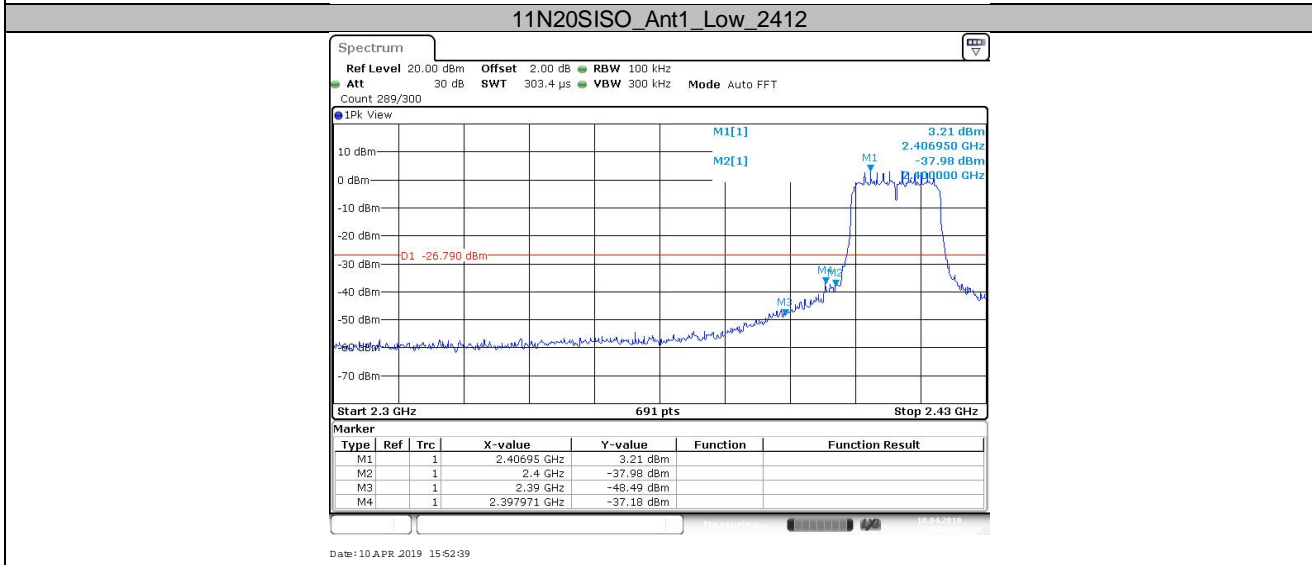
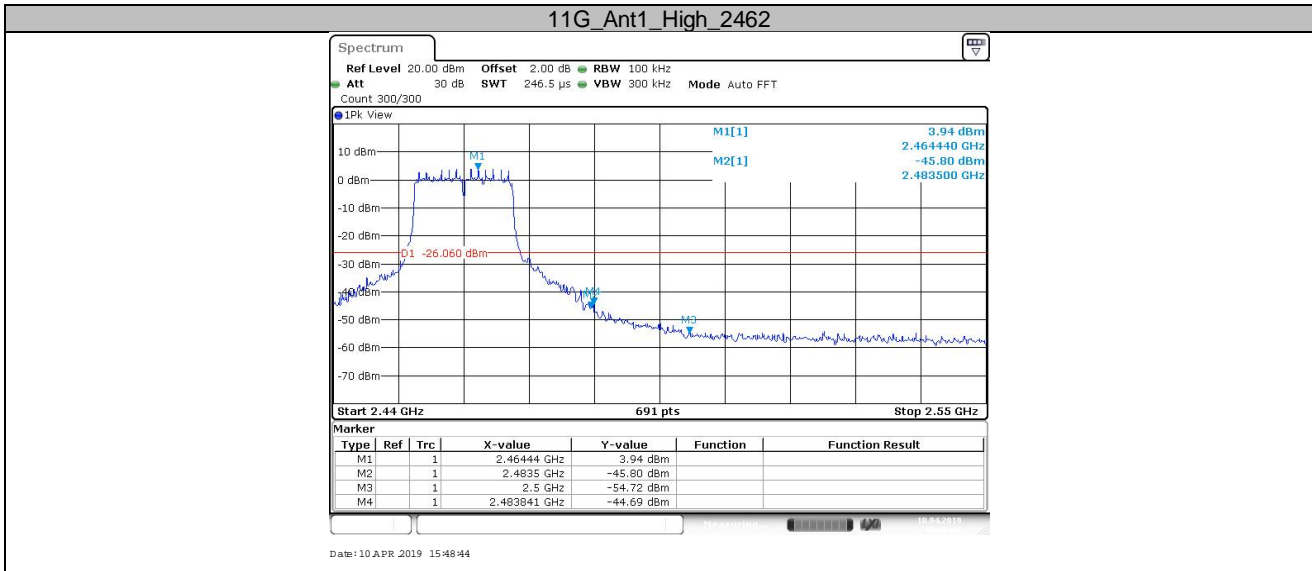
- 1 Use the following spectrum analyzer settings:  
Span = wide enough to capture the peak level of the in-band emission and all spurious  
RBW = 100 kHz, VBW  $\geq$  RBW, Sweep = auto, Detector function = peak, Trace = max hold.
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

### Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

Test result





## 9.6 Spurious radiated emissions for transmitter

### Test Method

- 1: The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
- 3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5: Use the following spectrum analyzer settings According to C63.10:  
For Above 1GHz  
Span = wide enough to capture the peak level of the in-band emission and all spurious  
RBW = 1MHz, VBW  $\geq$  RBW for peak measurement and VBW = 10Hz for average measurement, Sweep = auto, Detector function = peak, Trace = max hold.  
For Below 1GHz  
Use the following spectrum analyzer settings:  
Span = wide enough to capture the peak level of the in-band emission and all spurious  
RBW = 100 KHz, VBW  $\geq$  RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

### Note:

- 1: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for peak detection (PK) at frequency above 1GHz.
- 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ( $20\log(1/\text{duty cycle})$ ).
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.

## Limit

The radio emission outside the operating frequency band shall be at least 20 dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section 15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Field Strength dB $\mu$ V/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK



## Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

### Transmitting spurious emission test result as below:

802.11b

2412MHz (30MHz – 1GHz)

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Corr.	Result
MHz	dBuV/m		dBuV/m	dB		dB	
706.90	29.88	Horizontal	46.00	16.12	QP	-18.4	Pass
786.12	31.65	Vertical	46.00	14.35	QP	-17.1	Pass

2412MHz (Above 1GHz)

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Corr.	Result
MHz	dBuV/m		dBuV/m	dB		dB/m	
4823.91*	52.62	Horizontal	54.00	1.38	AV	2.8	Pass
4823.91*	51.98	Vertical	74.00	2.02	AV	2.8	Pass

2437MHz (30MHz – 1GHz)

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Corr.	Result
MHz	dBuV/m		dBuV/m	dB		dB	
--	--	Horizontal	--	--	QP	--	Pass
--	--	Vertical	--	--	QP	--	Pass

2437MHz (Above 1GHz)

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Corr.	Result
MHz	dBuV/m		dBuV/m	dB		dB	
4874.06*	50.97	Horizontal	54.00	3.03	AV	2.9	Pass
4874.06*	2752.	Vertical	54.00	1.73	AV	2.9	Pass

2462MHz (30MHz – 1GHz)

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Corr.	Result
MHz	dBuV/m		dBuV/m	dB		dB	
--	--	Horizontal	--	--	QP	--	Pass
--	--	Vertical	--	--	QP	--	Pass

2462MHz (Above 1GHz)

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Corr.	Result
MHz	dBuV/m		dBuV/m	dB		dB	
4923.75*	52.78	Horizontal	54.00	1.22	AV	3.1	Pass
4923.75*	53.35	Vertical	54.00	0.65	AV	3.1	Pass

802.11g

2412MHz (30MHz – 1GHz)

Frequency MHz	Emission Level dBuV/m	Polarization	Limit dB $\mu$ V/m	Margin dB	Detector	Corr. dB	Result
--	--	Horizontal	--	--	QP	--	Pass
--	--	Vertical	--	--	QP	--	Pass

2412MHz (Above 1GHz)

Frequency MHz	Emission Level dBuV/m	Polarization	Limit dB $\mu$ V/m	Margin dB	Detector	Corr. dB	Result
15818.44*	48.15	Horizontal	74.00	25.85	Peak	18.2	Pass
15885.94*	48.56	Vertical	74.00	25.44	Peak	18.1	Pass

2437MHz (30MHz – 1GHz)

Frequency MHz	Emission Level dBuV/m	Polarization	Limit dB $\mu$ V/m	Margin dB	Detector	Corr. dB	Result
--	--	Horizontal	--	--	QP	--	Pass
--	--	Vertical	--	--	QP	--	Pass

2437MHz (Above 1GHz)

Frequency MHz	Emission Level dBuV/m	Polarization	Limit dB $\mu$ V/m	Margin dB	Detector	Corr. dB	Result
4875.00*	49.81	Horizontal	74.00	24.19	Peak	2.9	Pass
4875.47*	49.10	Vertical	74.00	24.90	Peak	2.9	Pass

2462MHz (30MHz – 1GHz)

Frequency MHz	Emission Level dBuV/m	Polarization	Limit dB $\mu$ V/m	Margin dB	Detector	Corr. dB	Result
--	--	Horizontal	--	--	QP	--	Pass
--	--	Vertical	--	--	QP	--	Pass

2462MHz (Above 1GHz)

Frequency MHz	Emission Level dBuV/m	Polarization	Limit dB $\mu$ V/m	Margin dB	Detector	Corr. dB	Result
15313.13	48.37	Horizontal	74.00	25.63	Peak	18.6	Pass
4927.5*	48.08	Vertical	74.00	25.92	Peak	3.1	Pass

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## 2412MHz (30MHz – 1GHz)

Frequency MHz	Emission Level dBuV/m	Polarization	Limit dBuV/m	Margin dB	Detector	Corr. dB	Result
--	--	Horizontal	--	--	QP	--	Pass
--	--	Vertical	--	--	QP	--	Pass

## 2412MHz (Above 1GHz)

Frequency MHz	Emission Level dBuV/m	Polarization	Limit dBuV/m	Margin dB	Detector	Corr. dB	Result
15813.28*	47.83	Horizontal	74.00	26.17	Peak	18.2	Pass
4823.44*	51.20	Vertical	74.00	22.80	Peak	2.8	Pass

## 2437MHz (30MHz – 1GHz)

Frequency MHz	Emission Level dBuV/m	Polarization	Limit dBuV/m	Margin dB	Detector	Corr. dB	Result
--	--	Horizontal	--	--	QP	--	Pass
--	--	Vertical	--	--	QP	--	Pass

## 2437MHz (Above 1GHz)

Frequency MHz	Emission Level dBuV/m	Polarization	Limit dBuV/m	Margin dB	Detector	Corr. dB	Result
4876.88*	47.34	Horizontal	74.00	26.66	Peak	2.9	Pass
4873.59*	48.69	Vertical	74.00	25.31	Peak	2.9	Pass

## 2462MHz (30MHz – 1GHz)

Frequency MHz	Emission Level dBuV/m	Polarization	Limit dBuV/m	Margin dB	Detector	Corr. dB	Result
--	--	Horizontal	--	--	QP	--	Pass
--	--	Vertical	--	--	QP	--	Pass

## 2462MHz (Above 1GHz)

Frequency MHz	Emission Level dBuV/m	Polarization	Limit dBuV/m	Margin dB	Detector	Corr. dB	Result
15274.22	47.87	Horizontal	74.00	26.13	Peak	18.2	Pass
4924.69*	47.07	Vertical	74.00	26.93	Peak	3.1	Pass

## Remark:

- (1) "\*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.
- (2) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are the noise floor or attenuated more than 10dB below the permissible limits or the field strength is too small to be measured.
- (3) Below 1GHz: Level=Reading Level + Correction Factor  
Correction Factor=Antenna Factor + Cable Loss  
(The Reading Level is recorded by software which is not shown in the sheet)
- (4) Above 1GHz: Level=Reading Level + Correction Factor  
Correction Factor=Antenna Factor + Cable Loss – Pre-amplifier  
(The Reading Level is recorded by software which is not shown in the sheet)

## 10 Test Equipment List

### Radiated Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2019-7-6
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2019-6-28
Horn Antenna	Rohde & Schwarz	HF907	102294	2019-6-28
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2019-7-6
Signal Generator	Rohde & Schwarz	SMY01	839369/005	2019-7-6
Attenuator	Agilent	8491A	MY39264334	2019-7-6
3m Semi-anechoic chamber	TDK	9X6X6	----	2020-7-7
Test software	Rohde & Schwarz	EMC32	Version 9.15.00	N/A

### RF Conducted Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	101030	2019-7-6



## 11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty

System Measurement Uncertainty	
Items	Extended Uncertainty
Uncertainty for Radiated Spurious Emission 25MHz-3000MHz	Horizontal: 4.80dB; Vertical: 4.87dB;
Uncertainty for Radiated Spurious Emission 3000MHz-18000MHz	Horizontal: 4.59dB; Vertical: 4.58dB;
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	Horizontal: 5.05dB; Vertical: 5.04dB;
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.16dB Frequency test involved: 0.6×10 <sup>-7</sup> or 1%