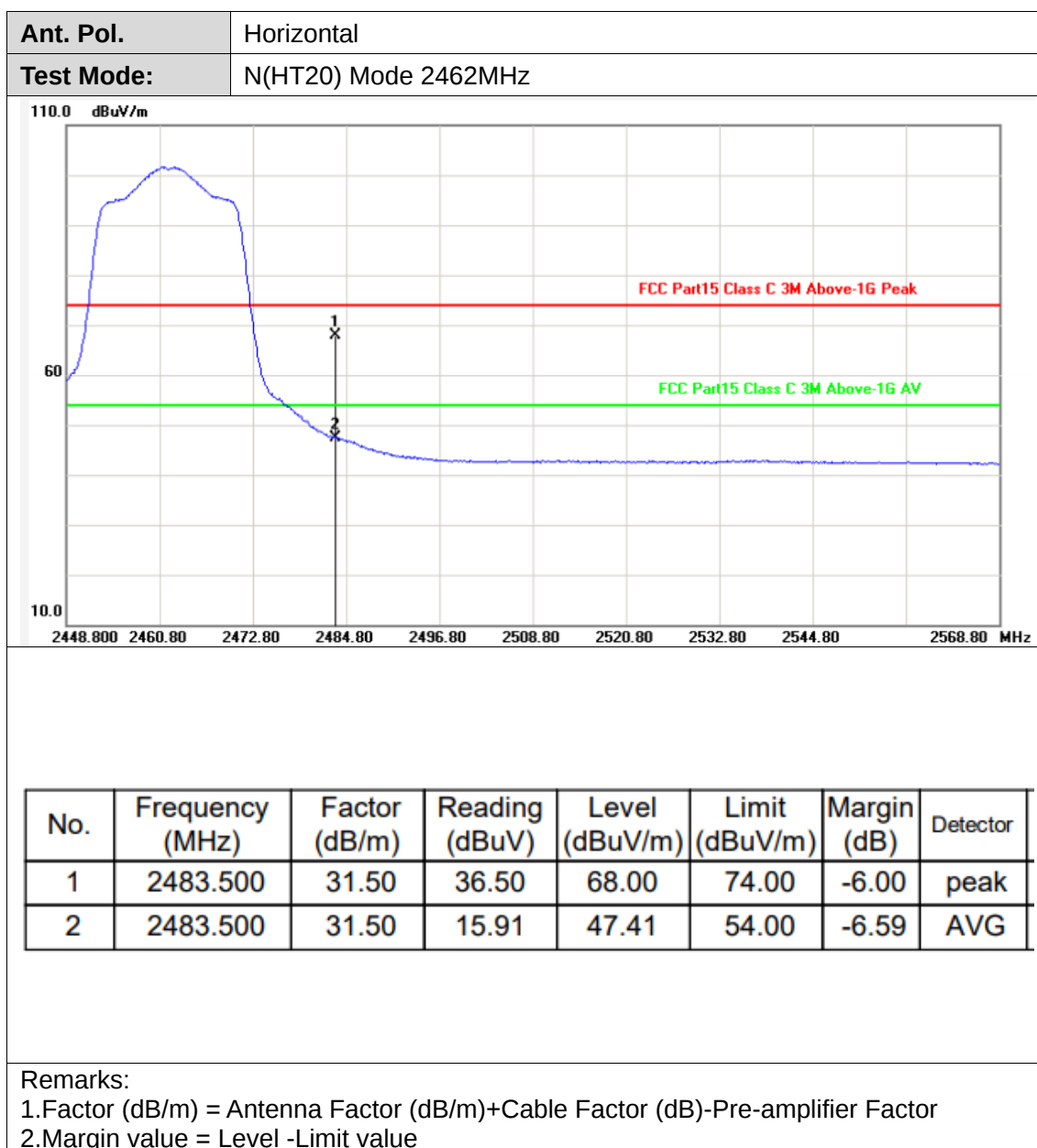
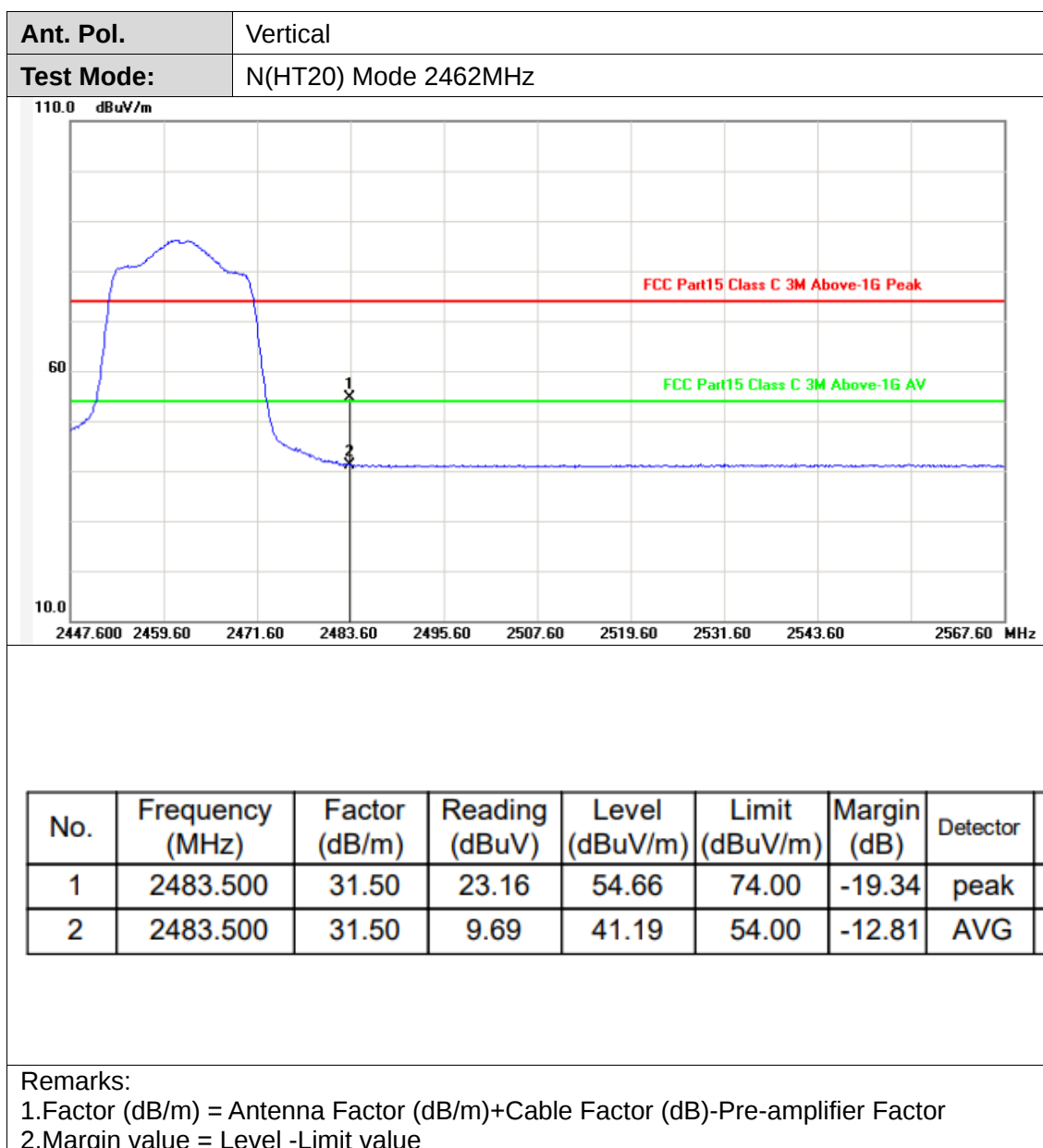
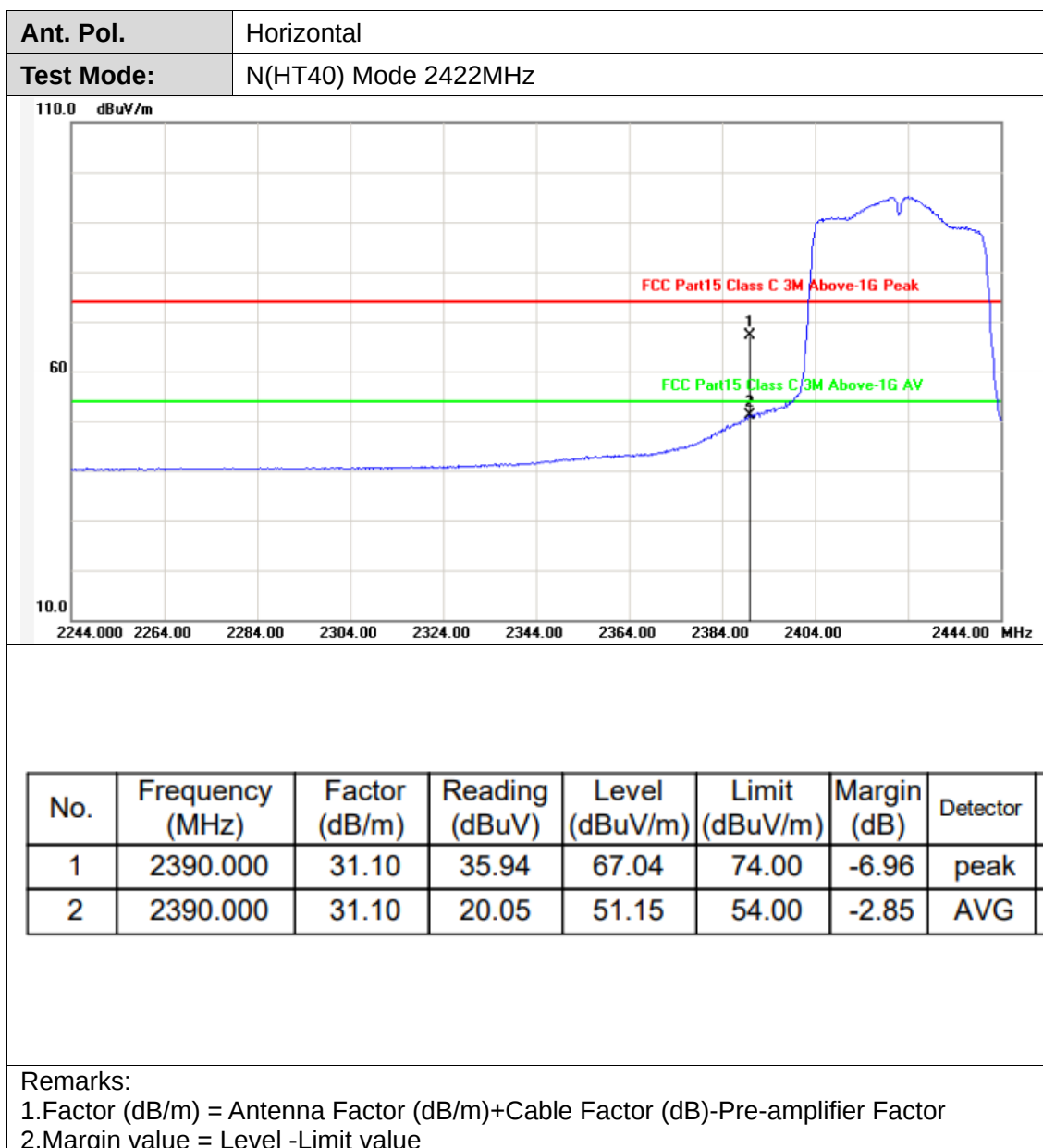
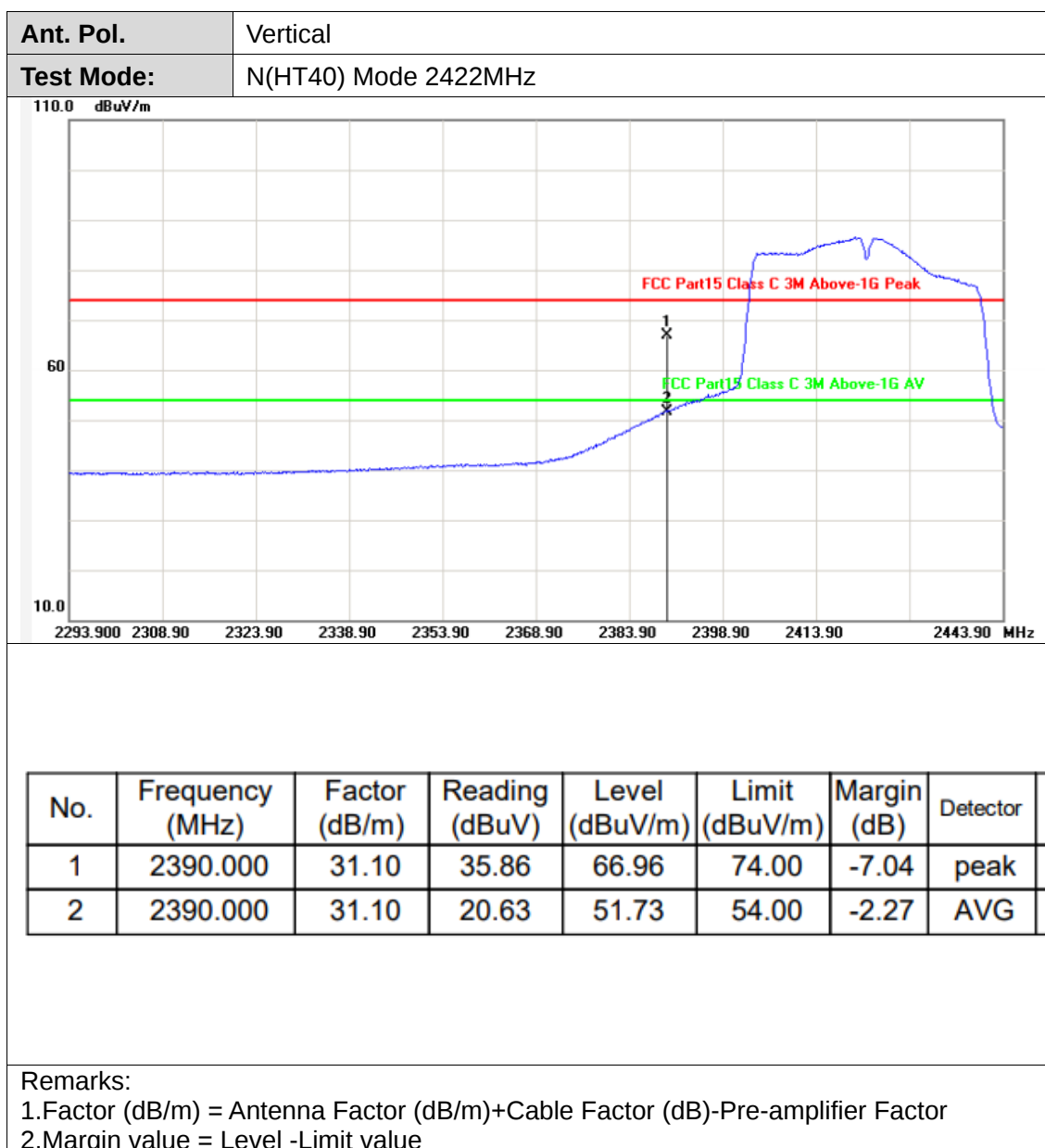
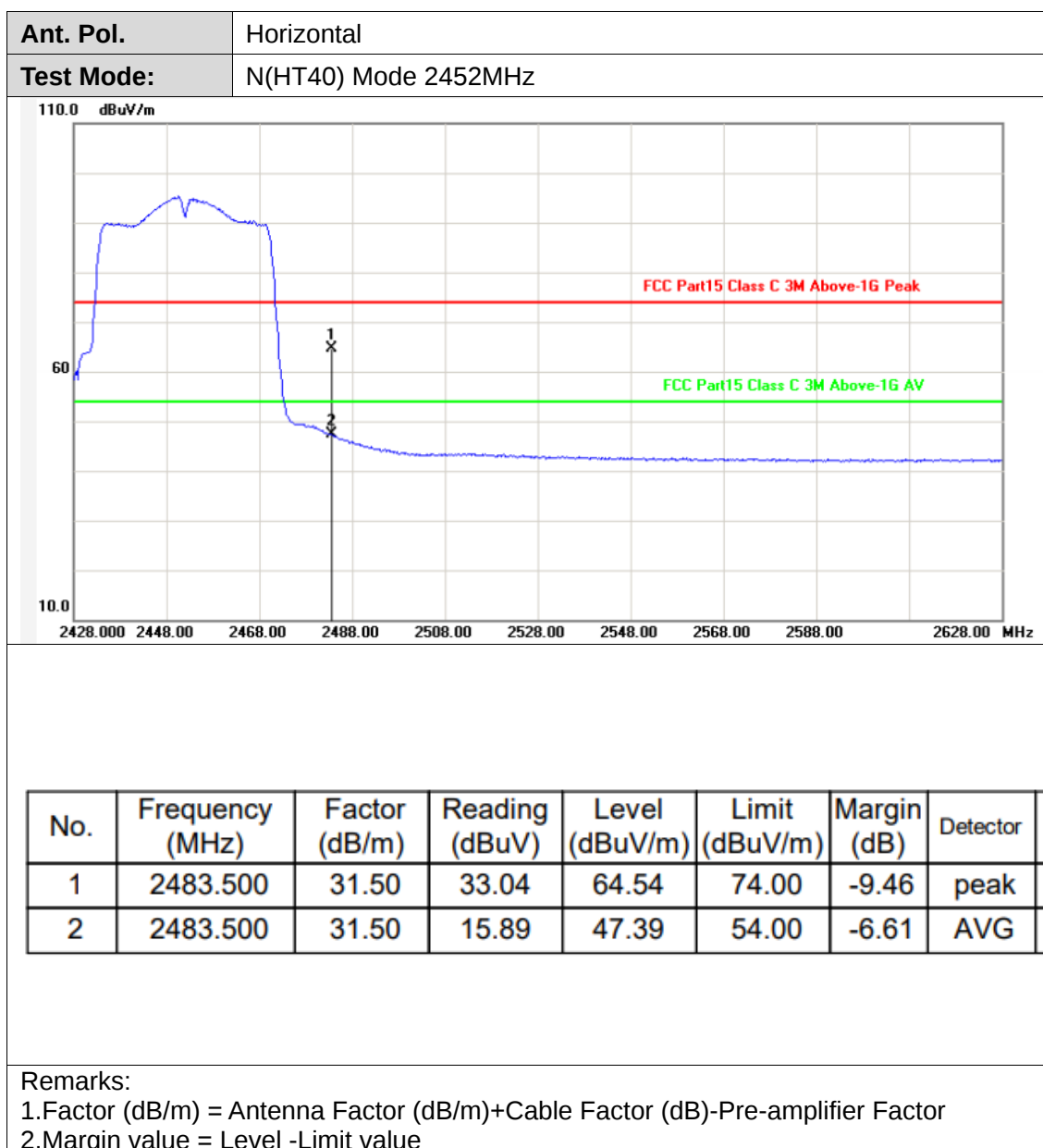


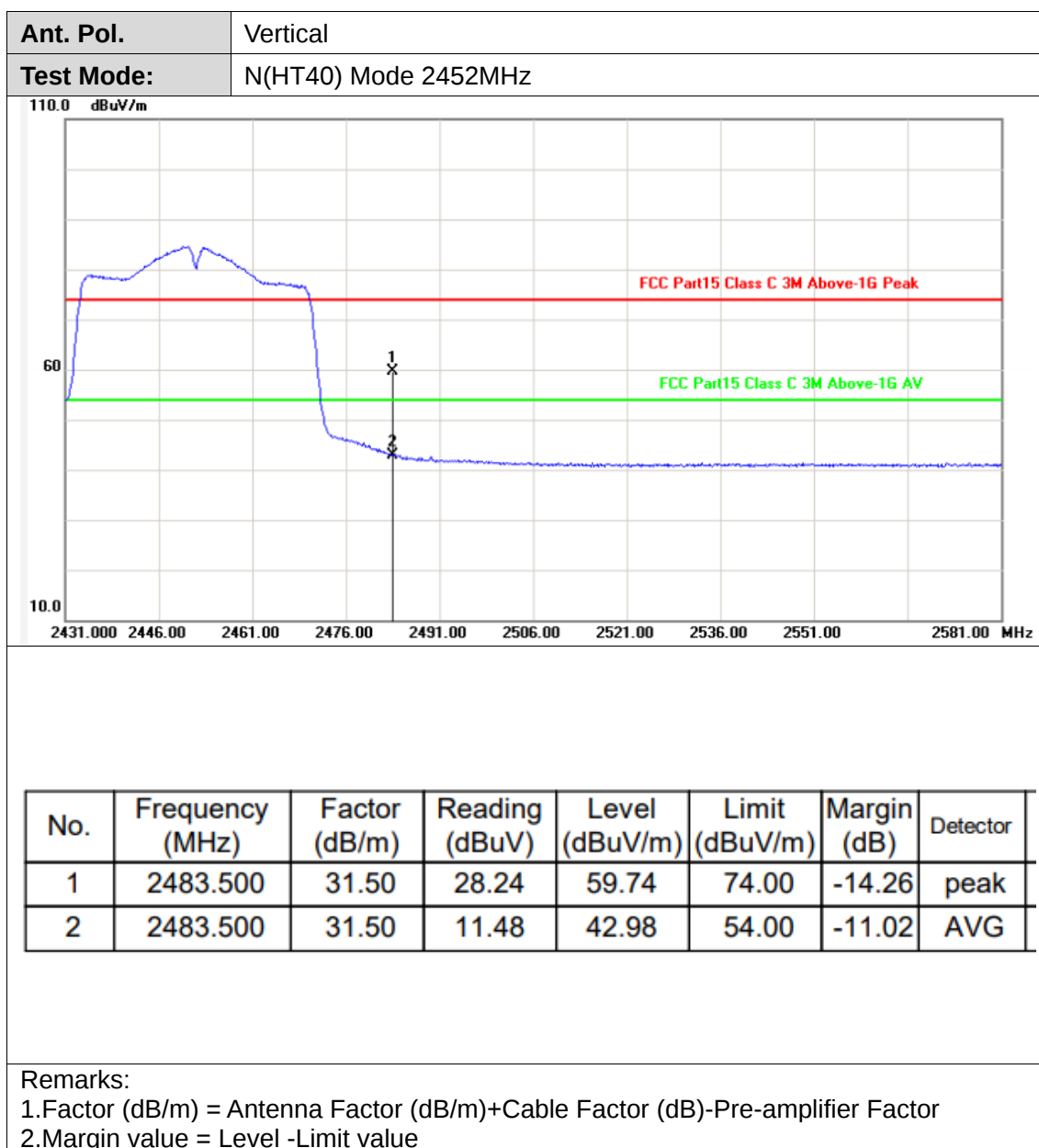






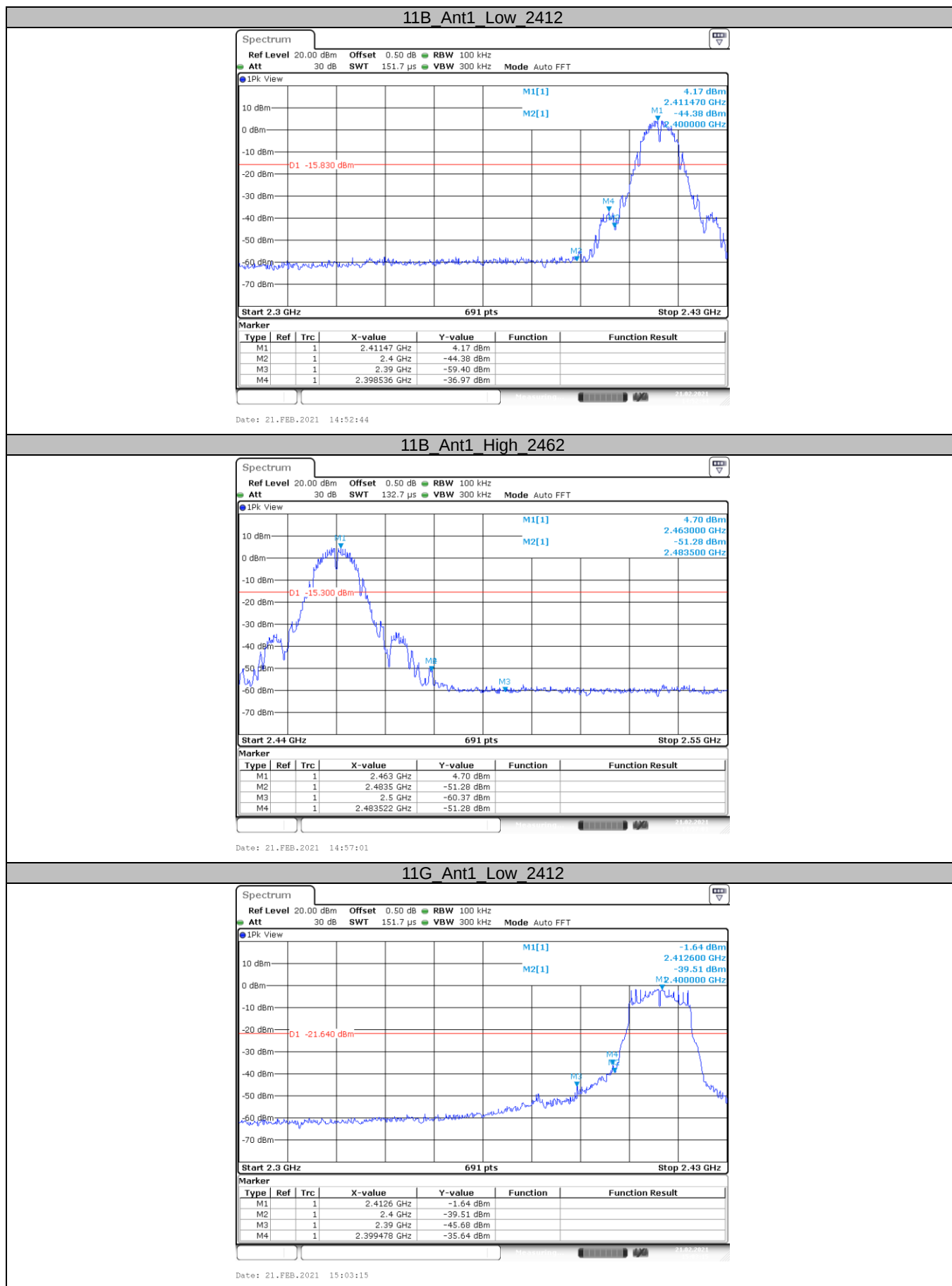








Conducted Emission data:



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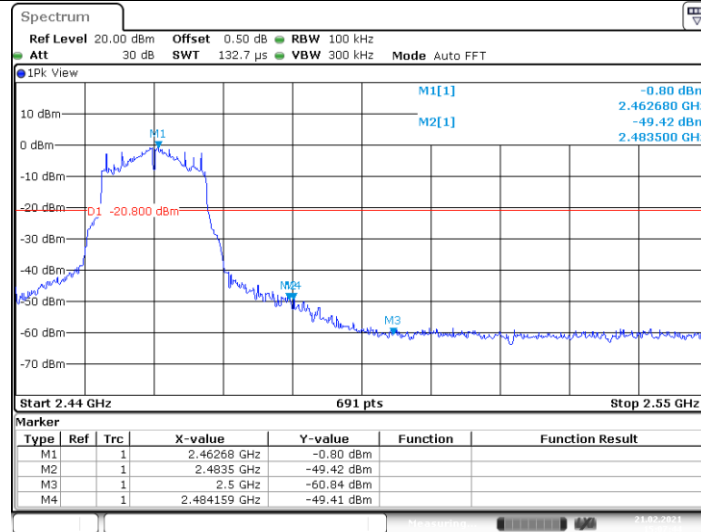
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

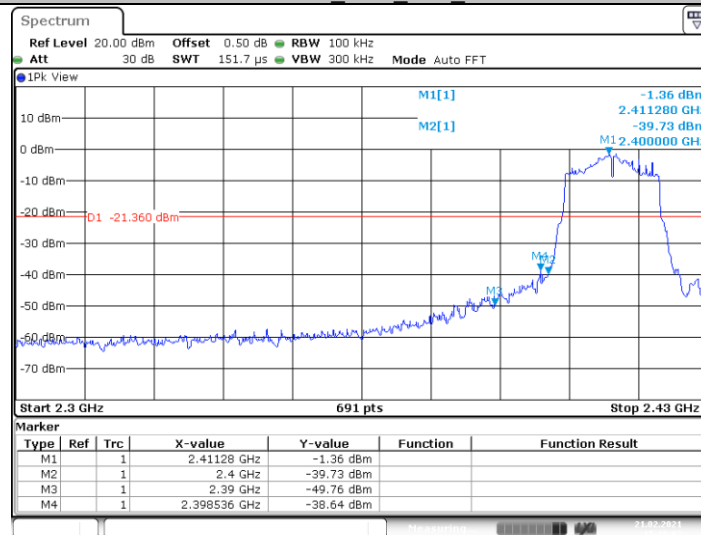
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



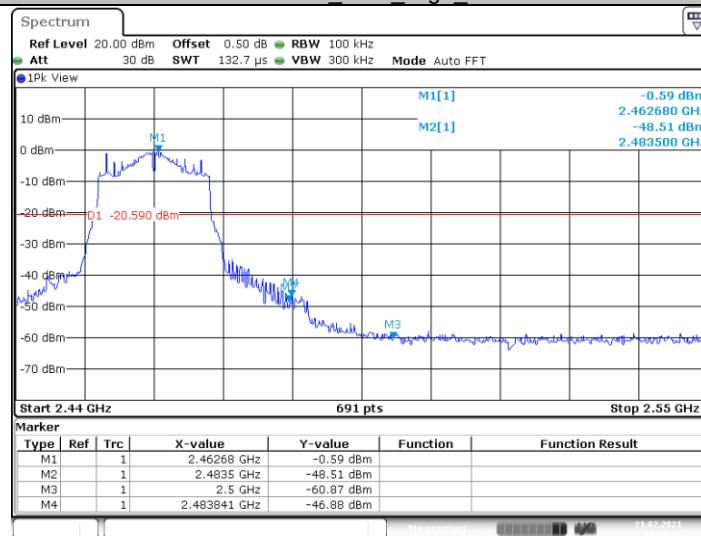
11G Ant1 High 2462



11N20SISO Ant1 Low 2412



11N20SISO Ant1 High 2462



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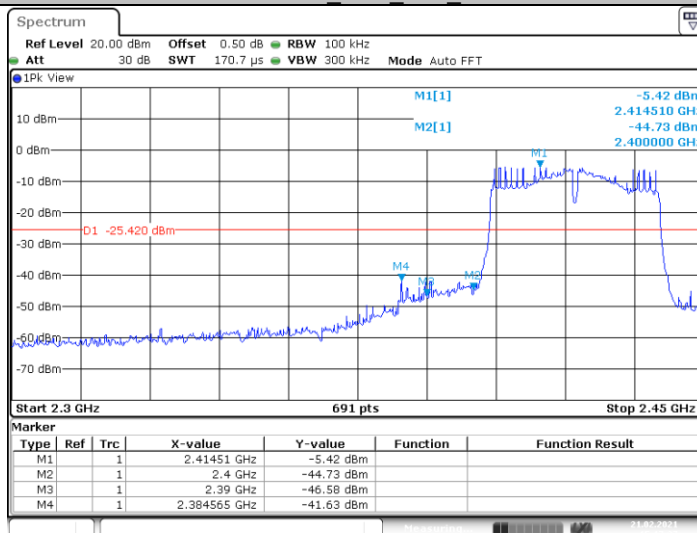
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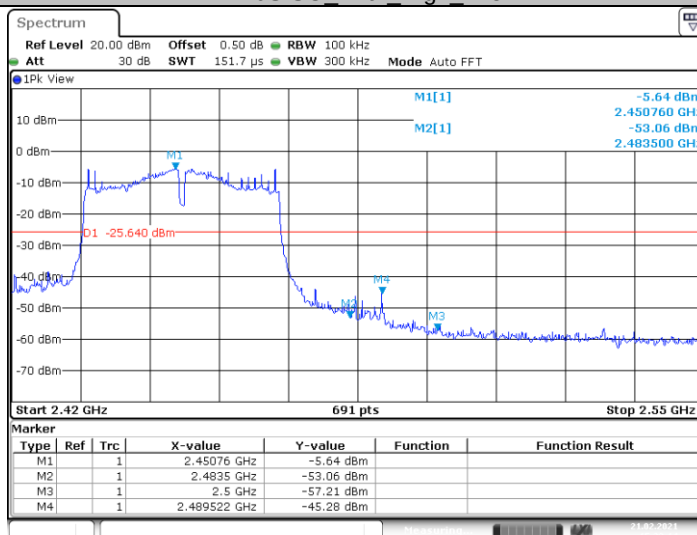


11N40SISO Ant1 Low 2422



Date: 21.FEB.2021 15:17:27

11N40SISO Ant1 High 2452



Date: 21.FEB.2021 15:23:14



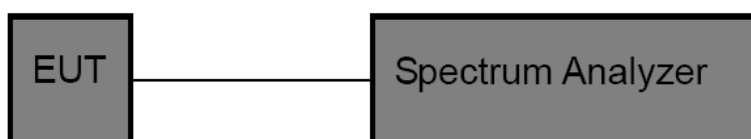
3.4. Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2)

Test Item	Limit	Frequency Range(MHz)
Bandwidth	≥ 500 KHz (6dB bandwidth)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. DTS Spectrum Setting:
 - (1) Set RBW = 100 kHz.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.OCB Spectrum Setting:
 - (1) Set RBW = 1% ~ 5% occupied bandwidth.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.3.

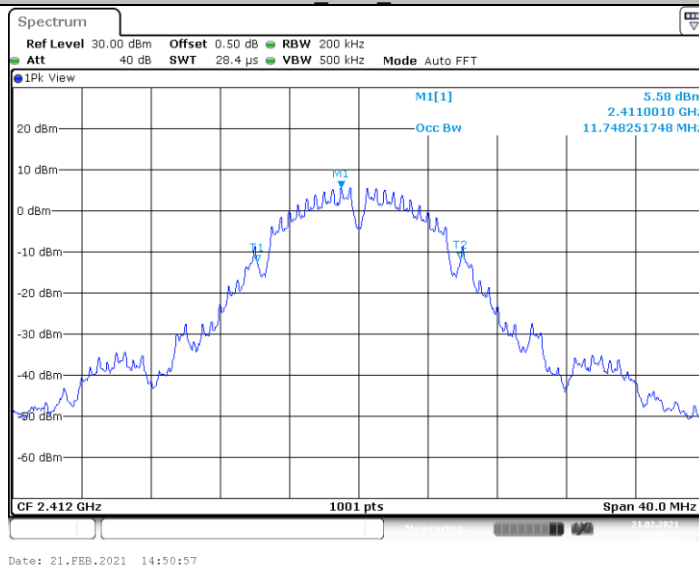
**Test Results**

Type	Channel	99% Bandwidth (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	11.748	8.120	≥500	Pass
	06	11.788	8.120		
	11	11.788	8.120		
802.11g	01	16.983	15.520	≥500	Pass
	06	17.103	15.560		
	11	16.903	15.240		
802.11n(HT20)	01	18.062	15.240	≥500	Pass
	06	18.102	15.240		
	11	17.982	15.240		
802.11n(HT40)	03	36.124	35.360	≥500	Pass
	06	35.964	35.360		
	09	35.964	35.360		

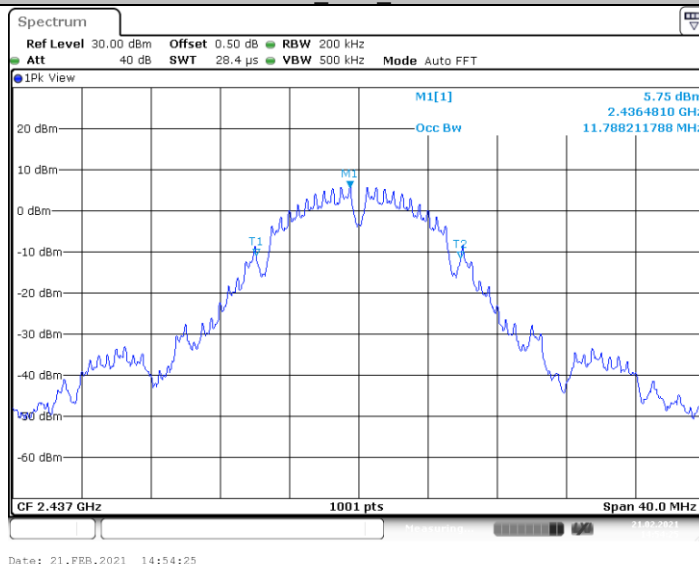


99% Bandwidth

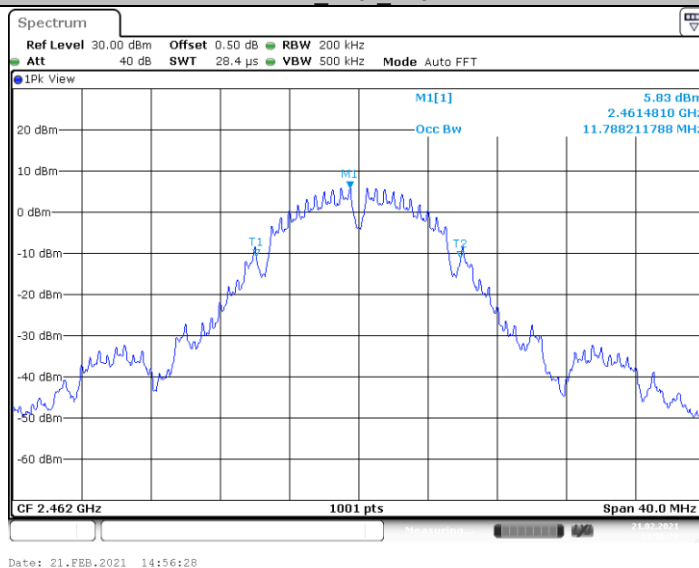
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



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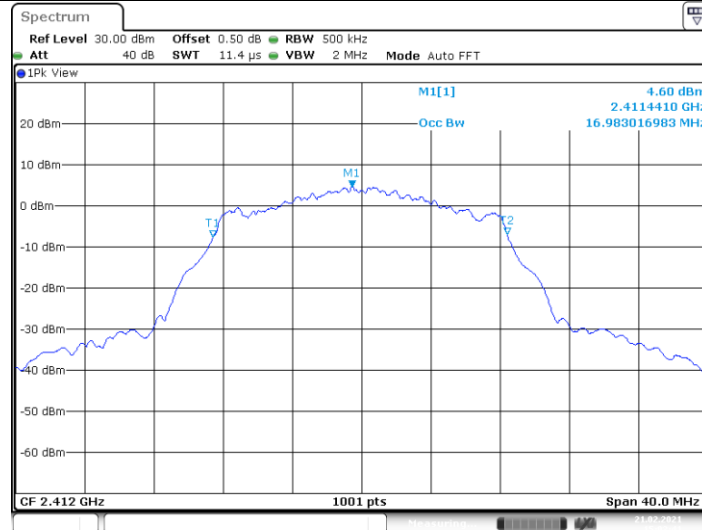
Http://www.sz-ctc.org.cn



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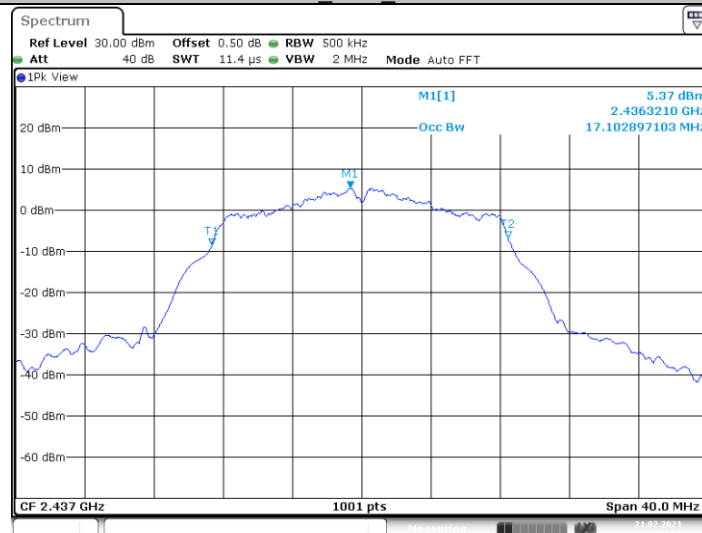


11G_Ant1_2412



Date: 21.FEB.2021 15:02:42

11G_Ant1_2437



Date: 21.FEB.2021 15:04:58

11G_Ant1_2462



Date: 21.FEB.2021 15:07:10

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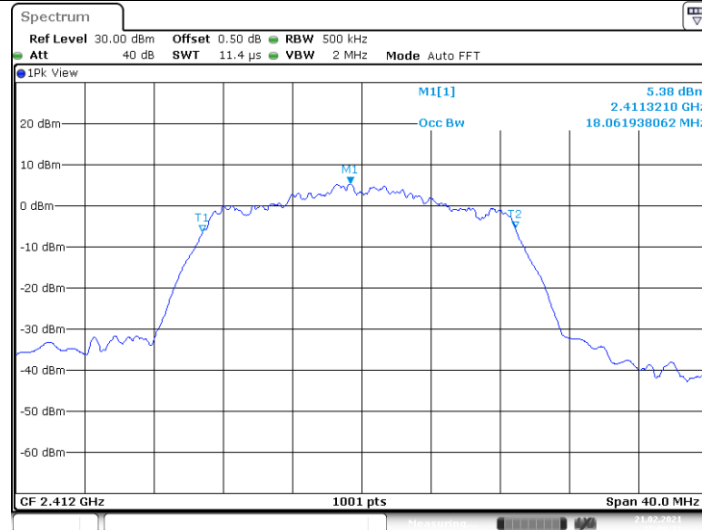
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11N20SISO_Ant1_2412



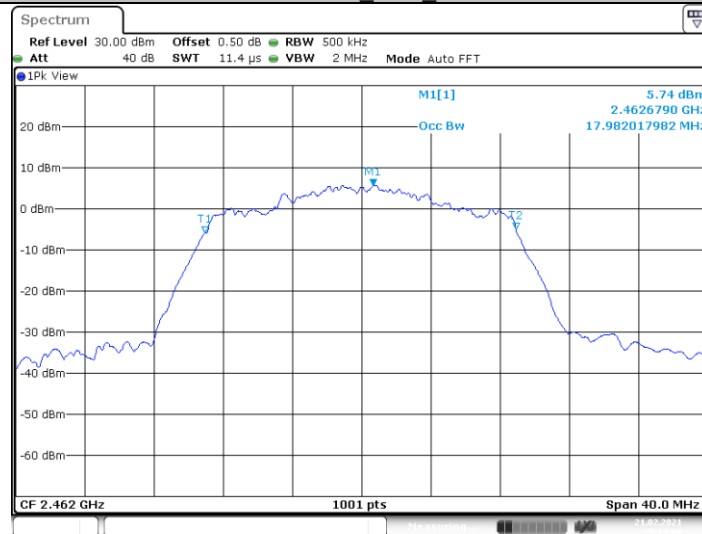
Date: 21.FEB.2021 15:09:30

11N20SISO_Ant1_2437



Date: 21.FEB.2021 15:11:48

11N20SISO_Ant1_2462



Date: 21.FEB.2021 15:14:05

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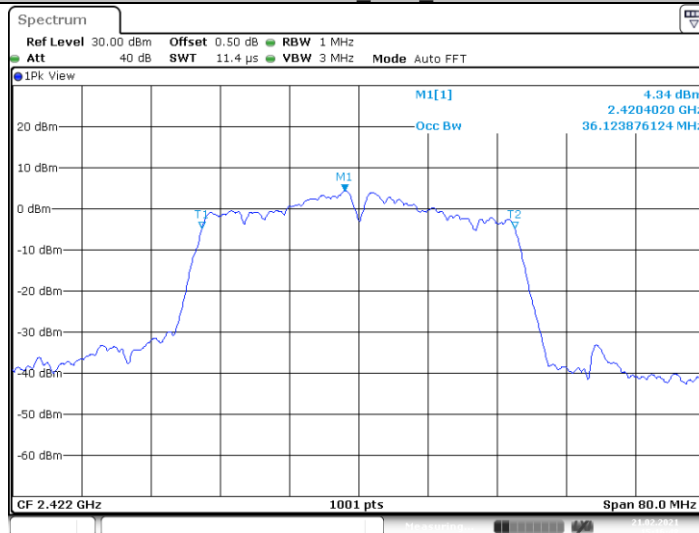
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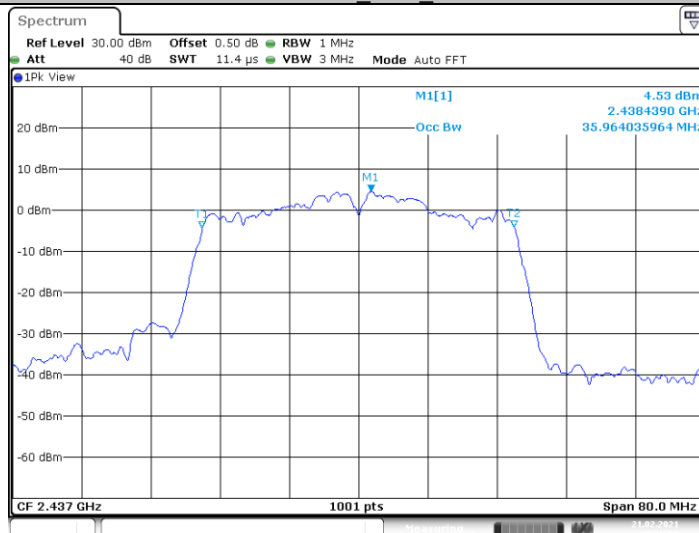


11N40SISO_Ant1_2422



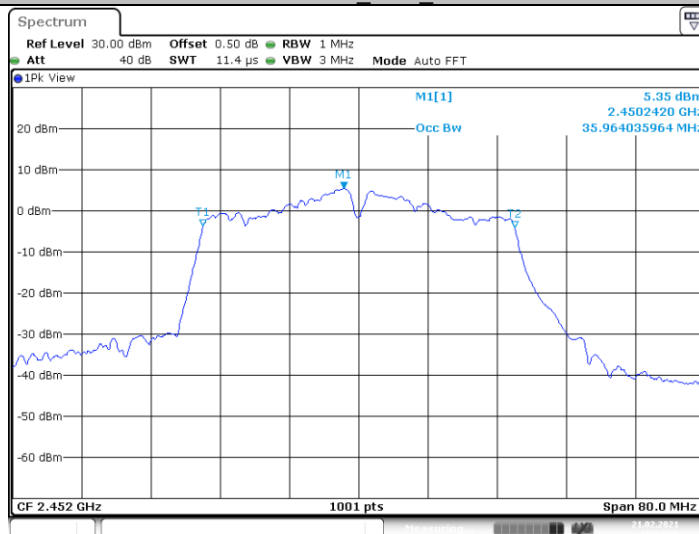
Date: 21.FEB.2021 15:16:48

11N40SISO_Ant1_2437



Date: 21.FEB.2021 15:19:59

11N40SISO_Ant1_2452



Date: 21.FEB.2021 15:22:35

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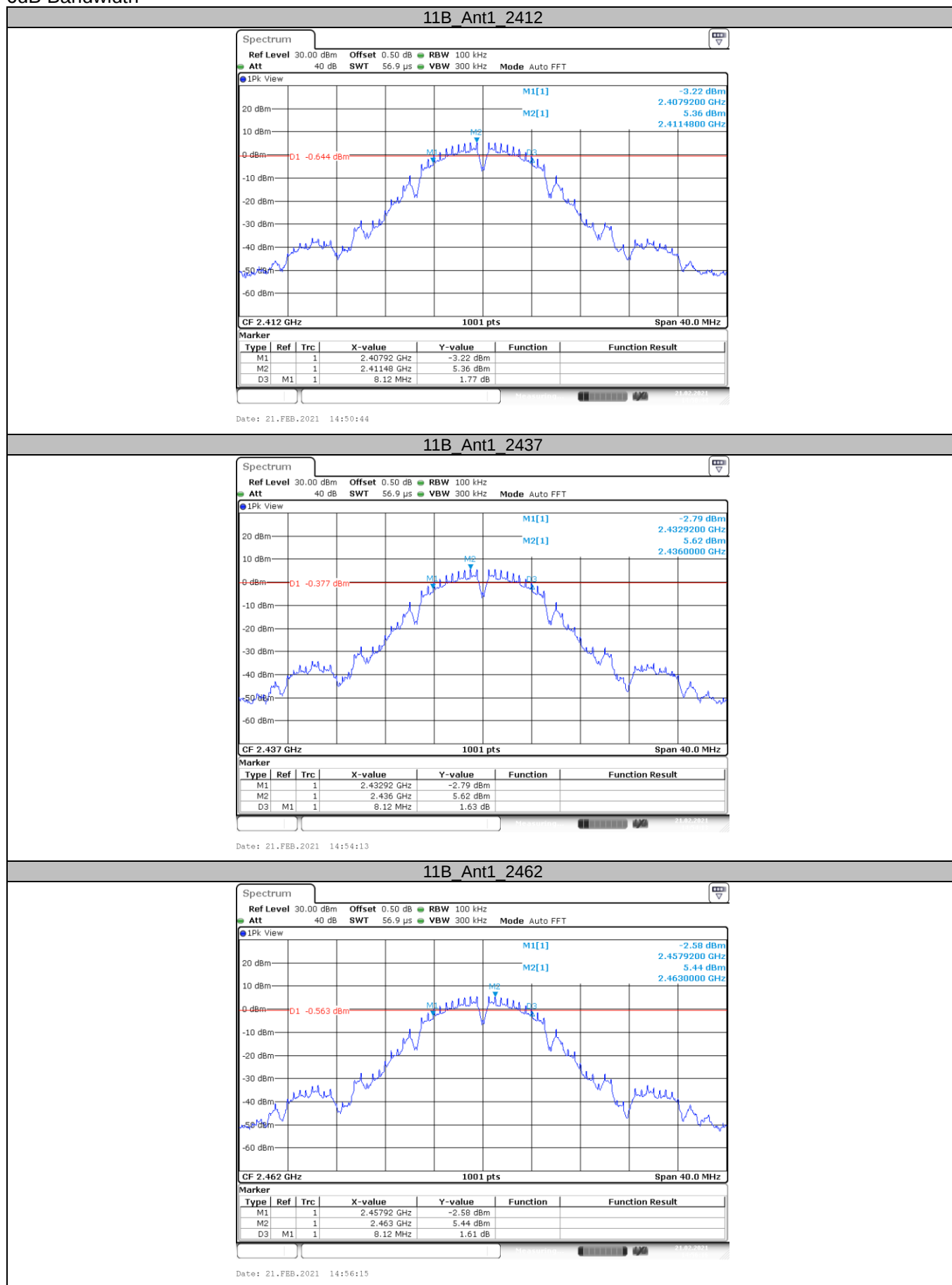
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6dB Bandwidth



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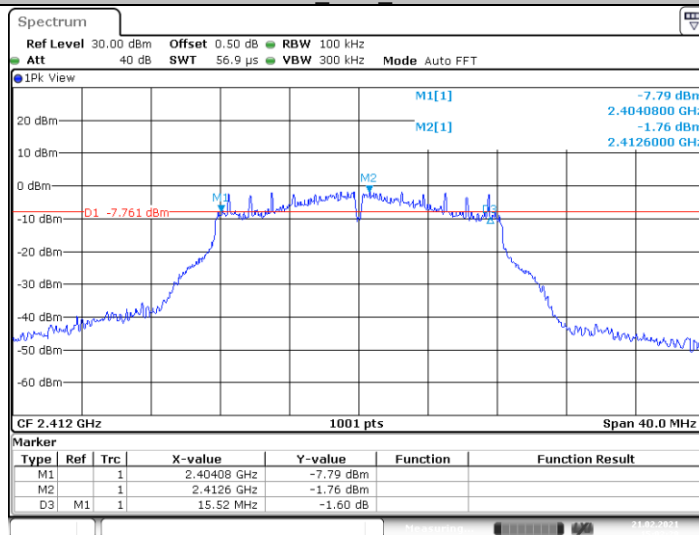
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

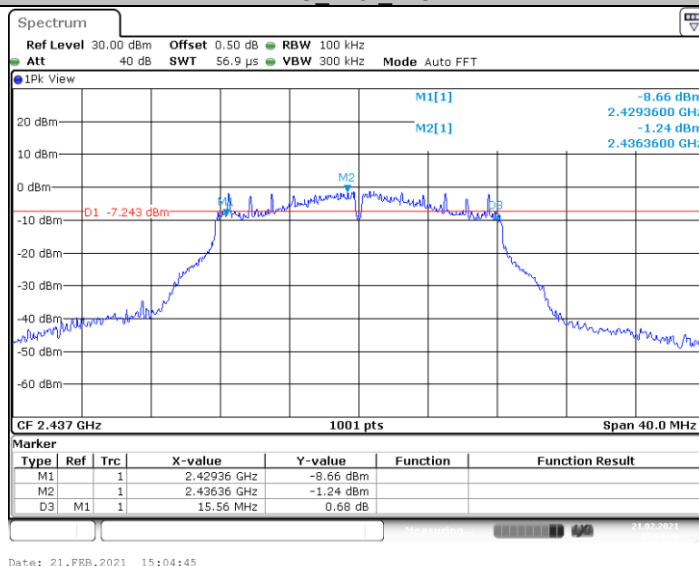
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



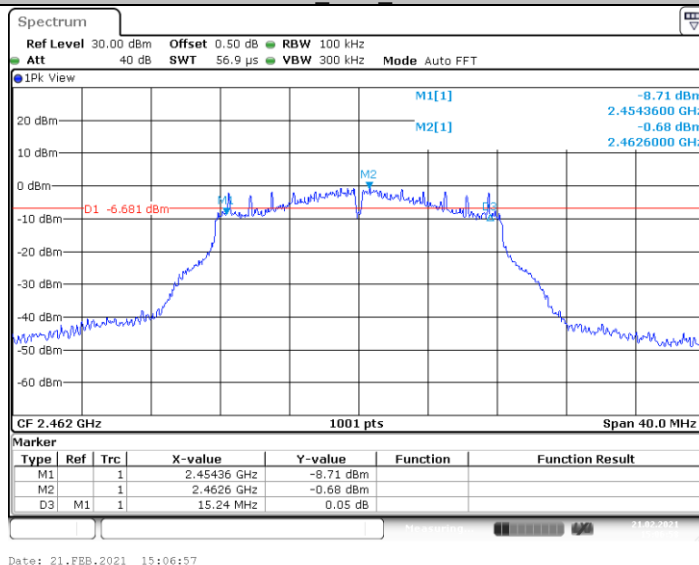
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



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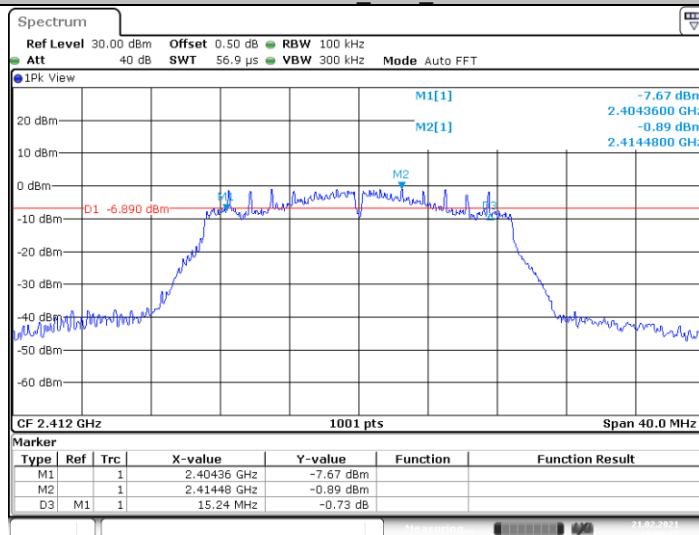
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Http://www.sz-ctc.org.cn

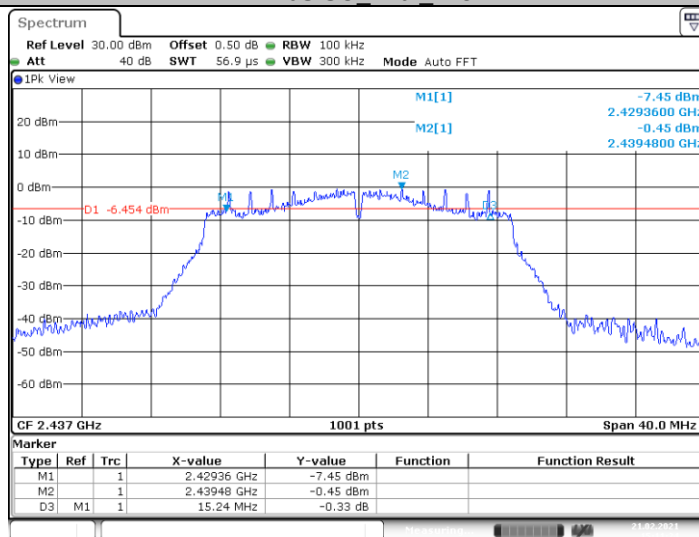
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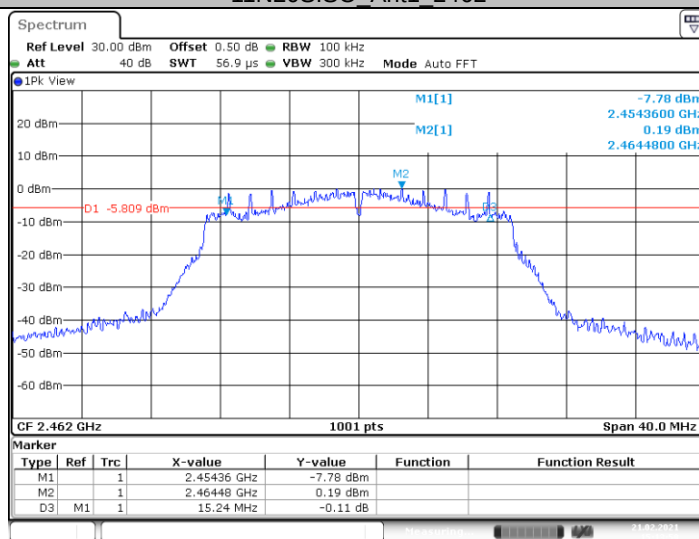
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



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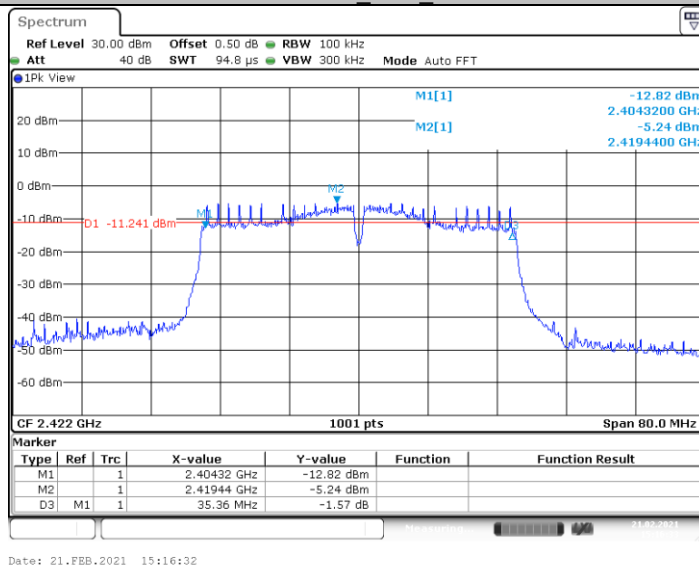
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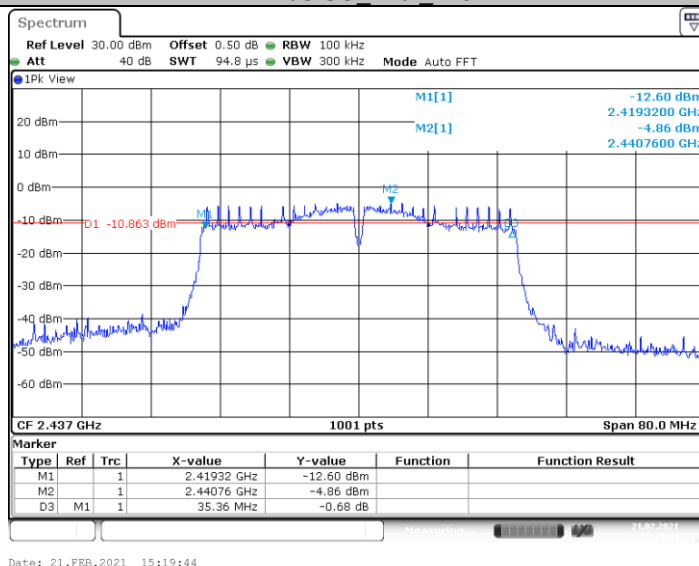
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



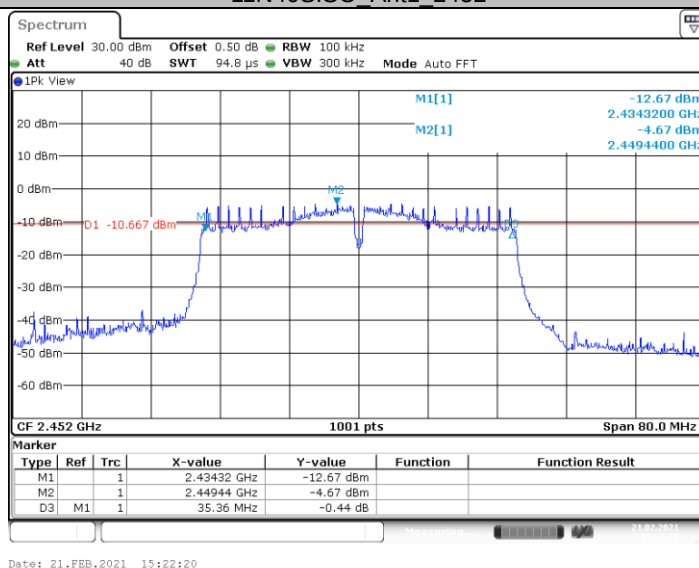
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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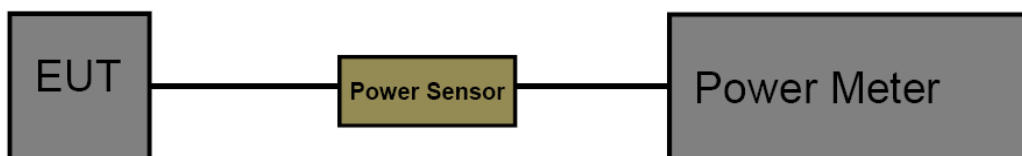
3.5. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3)

Section	Test Item	Limit	Frequency Range(MHz)
CFR 47 FCC 15.247(b)(3)	Maximum conducted output power	1 Watt or 30dBm	2400~2483.5

Test Configuration



Test Procedure

1. The maximum conducted output power may be measured using a broadband Peak RF power meter.
2. Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor.
3. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
4. Record the measurement data.

Test Mode

Please refer to the clause 2.3

Test Result



TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.84	<=30	PASS
		2437	16.11	<=30	PASS
		2462	16.23	<=30	PASS
11G	Ant1	2412	17.84	<=30	PASS
		2437	18.42	<=30	PASS
		2462	18.63	<=30	PASS
11N20SISO	Ant1	2412	18.22	<=30	PASS
		2437	18.63	<=30	PASS
		2462	19.04	<=30	PASS
11N40SISO	Ant1	2422	16.88	<=30	PASS
		2437	17.26	<=30	PASS
		2452	17.47	<=30	PASS

Note: Test results increased RF cable loss by 0.5dB.



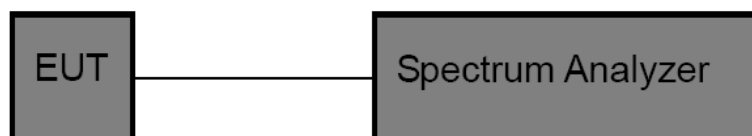
3.6. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):

Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to DTS channel center frequency.
Set the span to 1.5 times the DTS bandwidth.
Set the RBW to: 3 kHz
Set the VBW to: 10 kHz
Detector: peak
Sweep time: auto
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.3

**Test Result**

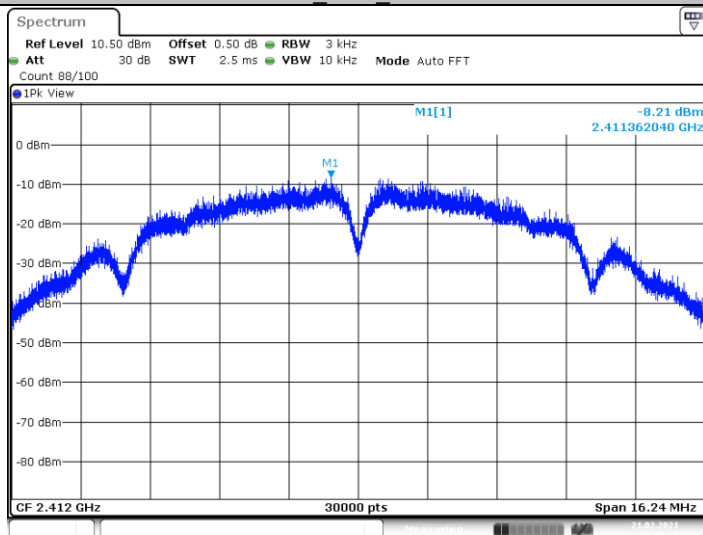
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.21	<=8	PASS
		2437	-8.19	<=8	PASS
		2462	-9.21	<=8	PASS
11G	Ant1	2412	-12.67	<=8	PASS
		2437	-12.37	<=8	PASS
		2462	-12.25	<=8	PASS
11N20SISO	Ant1	2412	-12.54	<=8	PASS
		2437	-12.35	<=8	PASS
		2462	-12.00	<=8	PASS
11N40SISO	Ant1	2422	-18.00	<=8	PASS
		2437	-16.14	<=8	PASS
		2452	-16.02	<=8	PASS

Note : Duty Cycle Correction Factor = $10 \cdot \log(1/\text{duty cycle})$

The Duty Cycle Correction Factor is compensated in the graph.

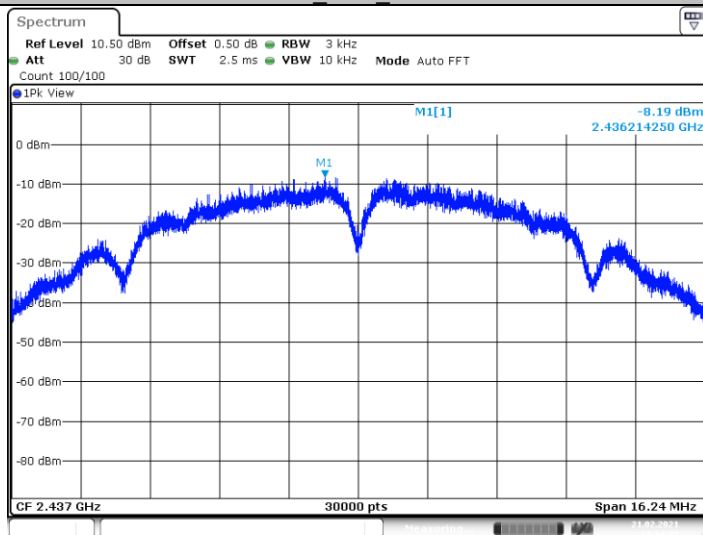


11B_Ant1_2412



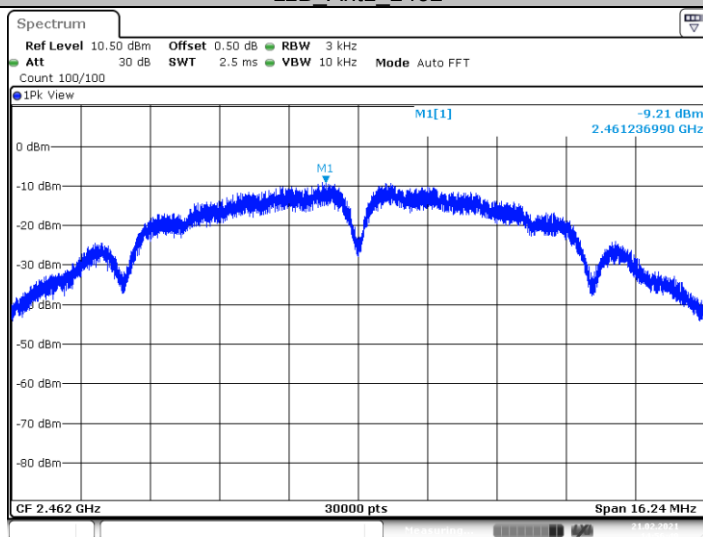
Date: 21.FEB.2021 14:52:33

11B_Ant1_2437



Date: 21.FEB.2021 14:54:47

11B_Ant1_2462



Date: 21.FEB.2021 14:56:50

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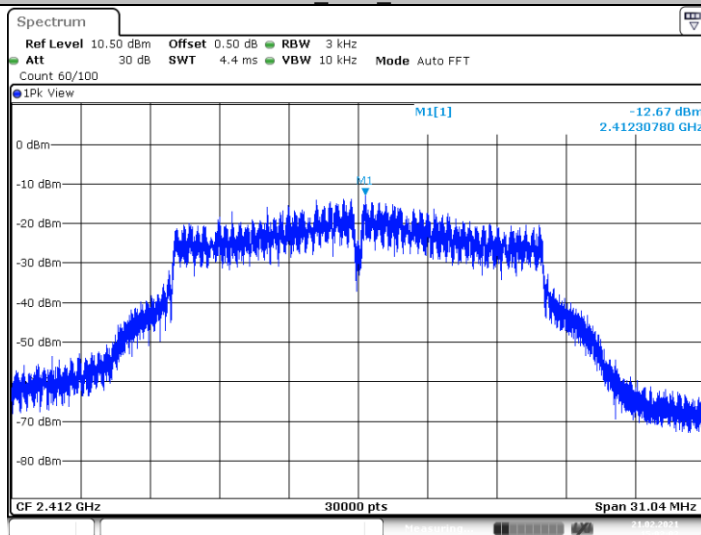
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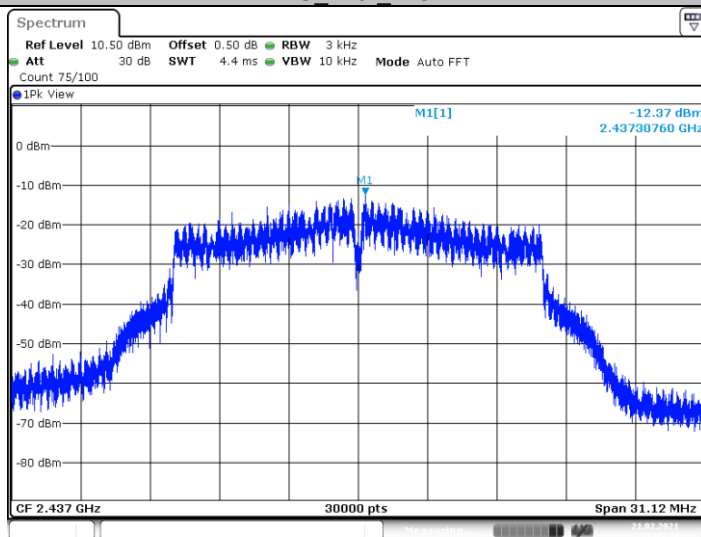


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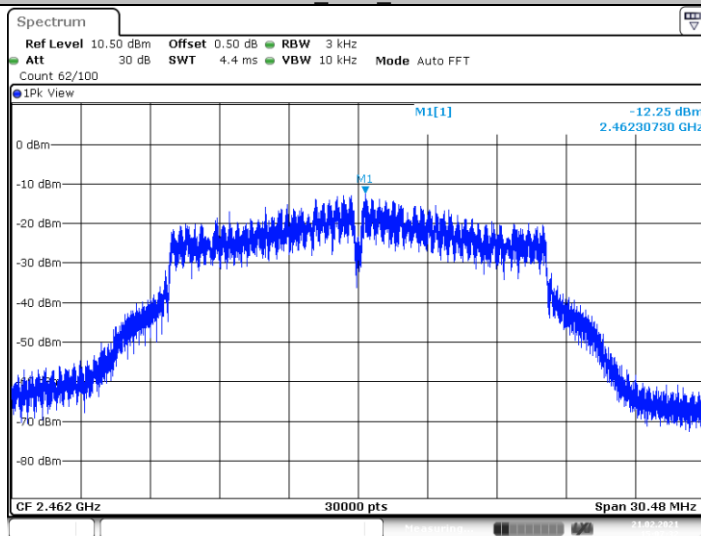
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11G_Ant1_2437



Date: 21.FEB.2021 15:05:20

11G_Ant1_2462



Date: 21.FEB.2021 15:07:32

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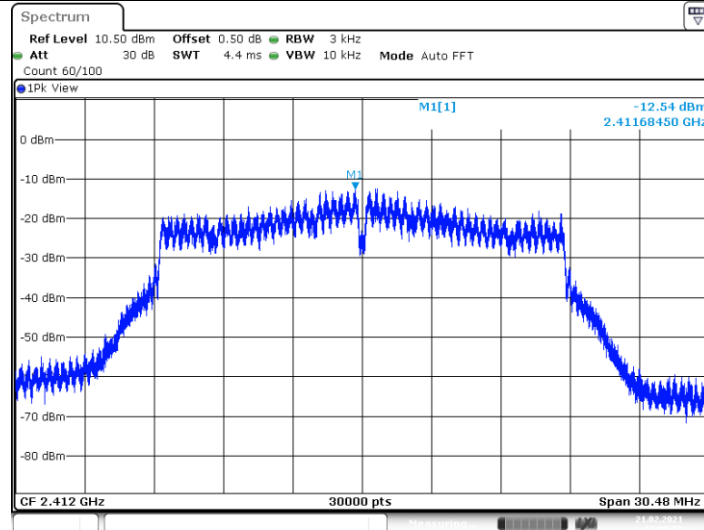
Fax: (86)755-27521011

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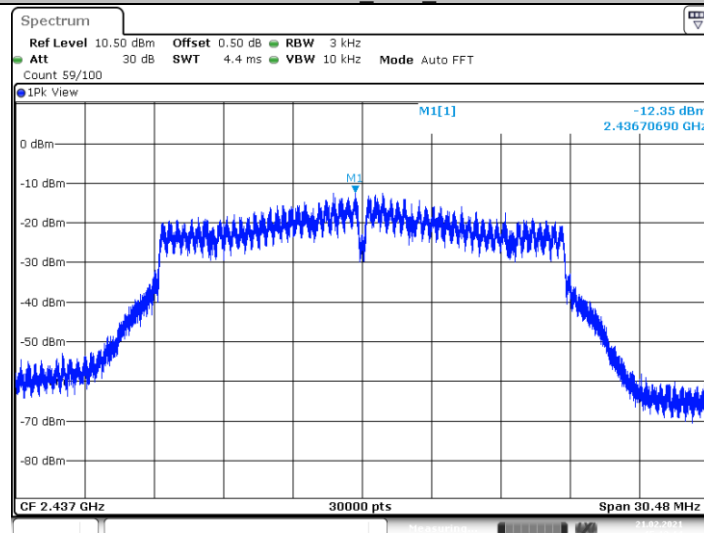


11N20SISO_Ant1_2412



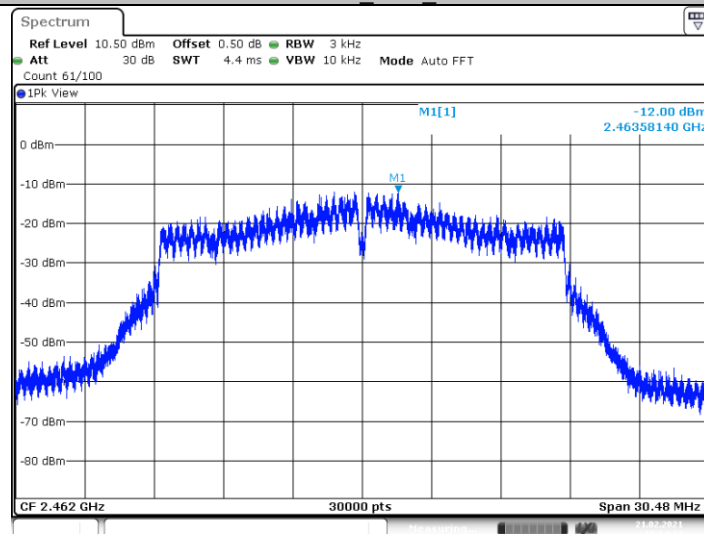
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11N20SISO_Ant1_2437



Date: 21.FEB.2021 15:12:14

11N20SISO_Ant1_2462



Date: 21.FEB.2021 15:14:31

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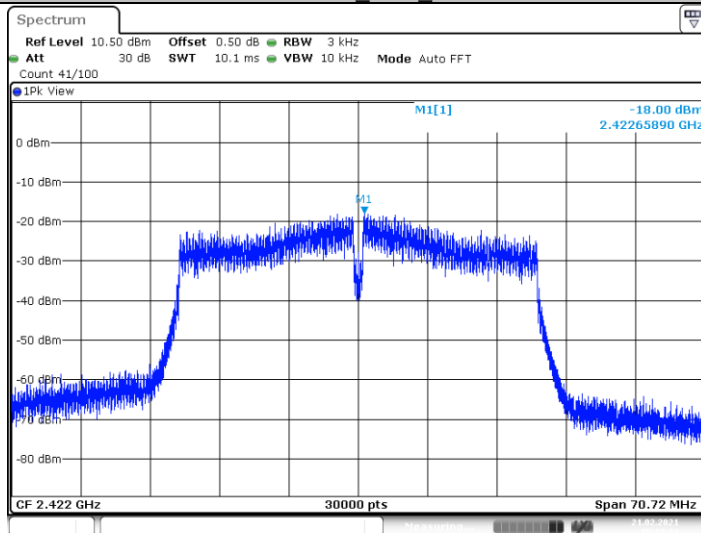
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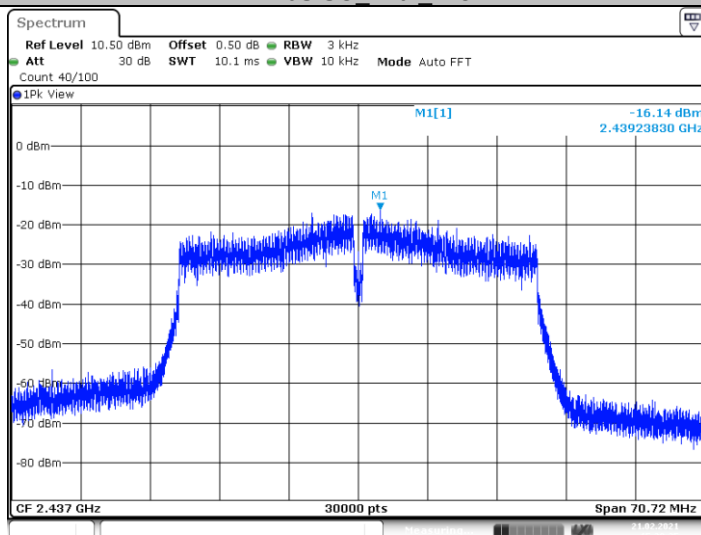


11N40SISO_Ant1_2422



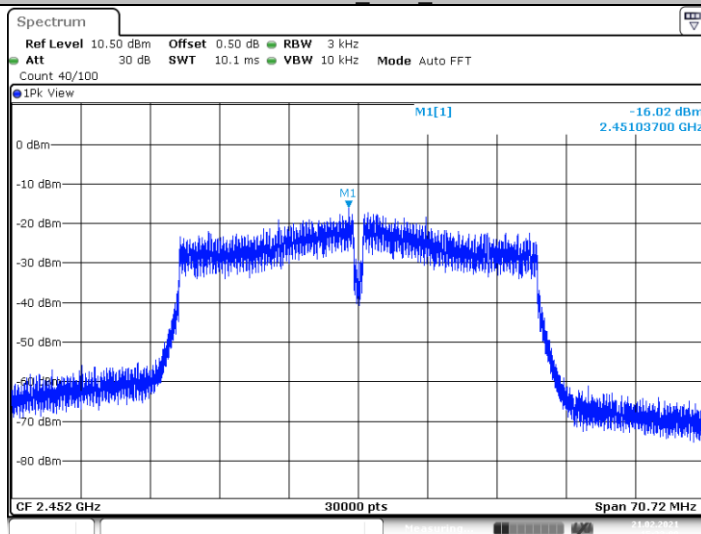
Date: 21.FEB.2021 15:17:13

11N40SISO_Ant1_2437



Date: 21.FEB.2021 15:20:25

11N40SISO_Ant1_2452



Date: 21.FEB.2021 15:23:01

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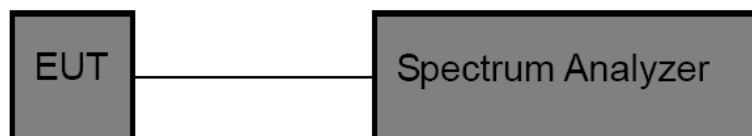


3.7. Duty Cycle

Limit

None, for report purposes only.

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to DTS channel center frequency.
Set the span to 0Hz
Set the RBW to 10MHz
Set the VBW to 10MHz
Detector: peak
Sweep time: auto
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

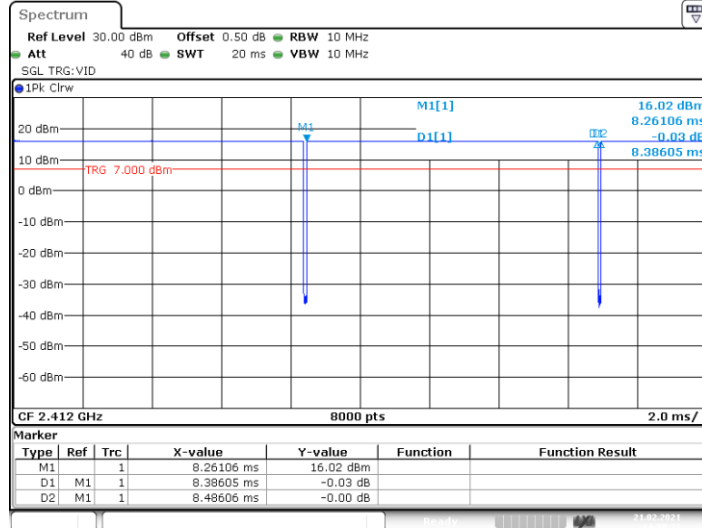
Please refer to the clause 2.3

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	8.39	8.49	98.82
		2437	8.39	8.49	98.82
		2462	8.39	8.49	98.82
11G	Ant1	2412	1.38	1.49	92.95
		2437	1.39	1.49	93.03
		2462	1.39	1.49	92.95
11N20SISO	Ant1	2412	1.30	1.40	92.60
		2437	1.30	1.40	92.51
		2462	1.30	1.40	92.51
11N40SISO	Ant1	2422	0.64	0.69	93.45
		2437	0.64	0.69	93.44
		2452	0.64	0.69	93.44

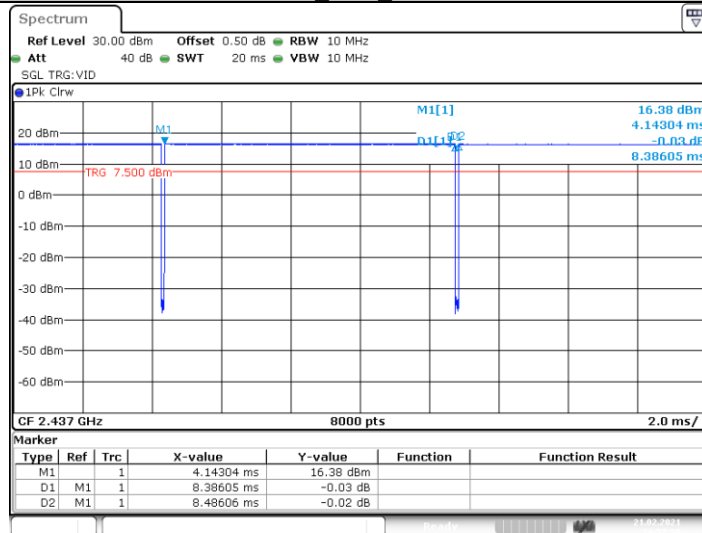


11B_Ant1_2412



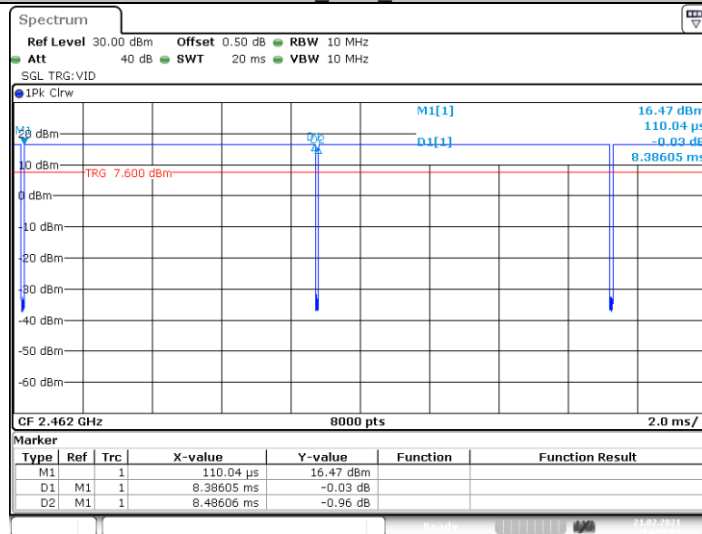
Date: 21.FEB.2021 14:50:21

11B_Ant1_2437



Date: 21.FEB.2021 14:53:50

11B_Ant1_2462



Date: 21.FEB.2021 14:55:53

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1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China
Tel.: (86)755-27521059

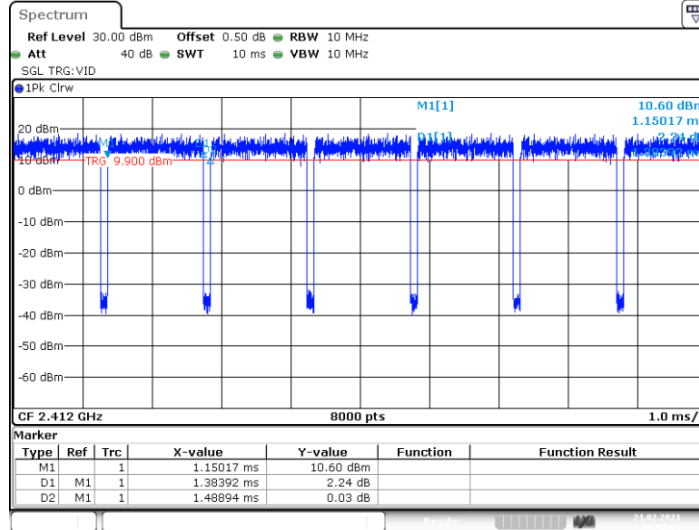
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

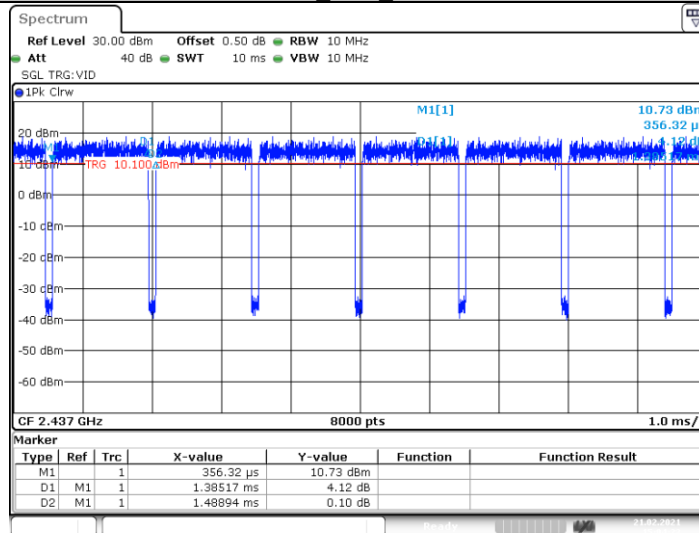
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



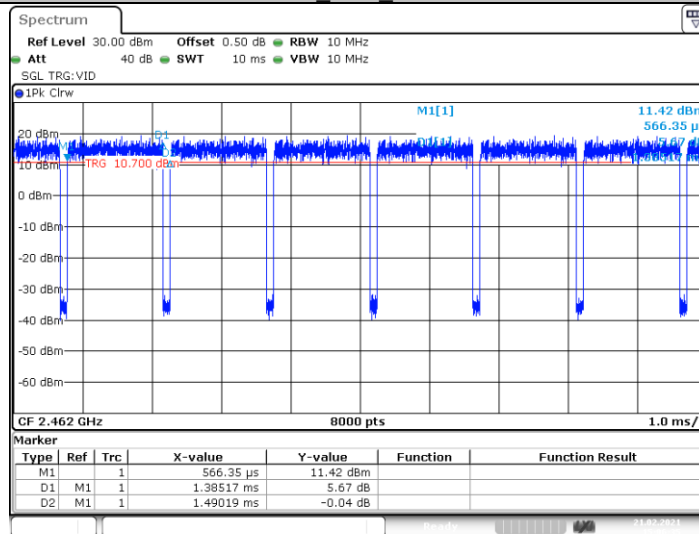
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



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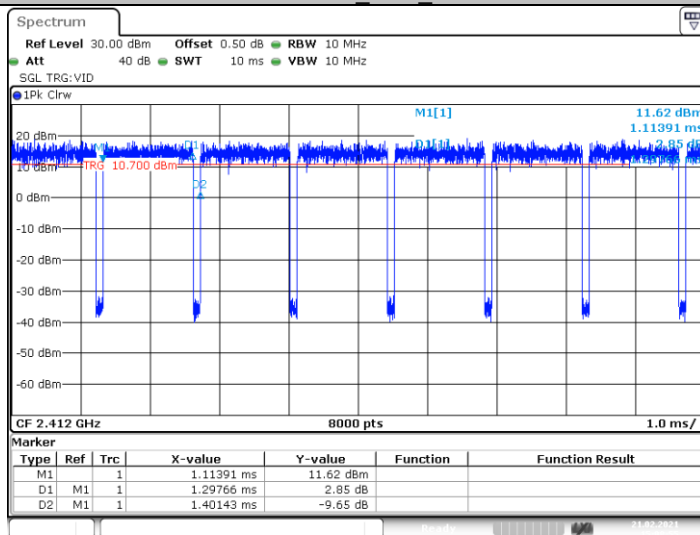
Http://www.sz-ctc.org.cn



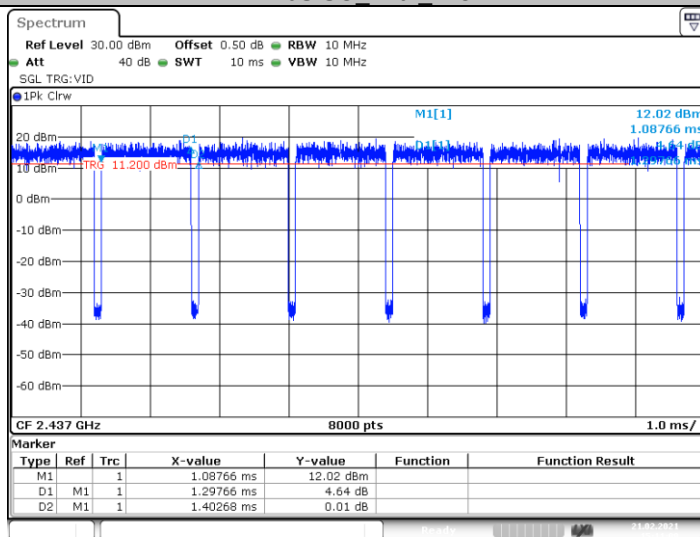
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



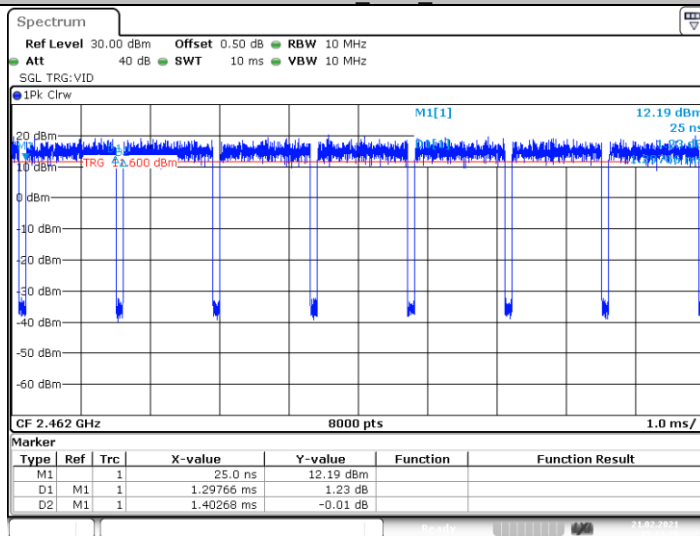
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



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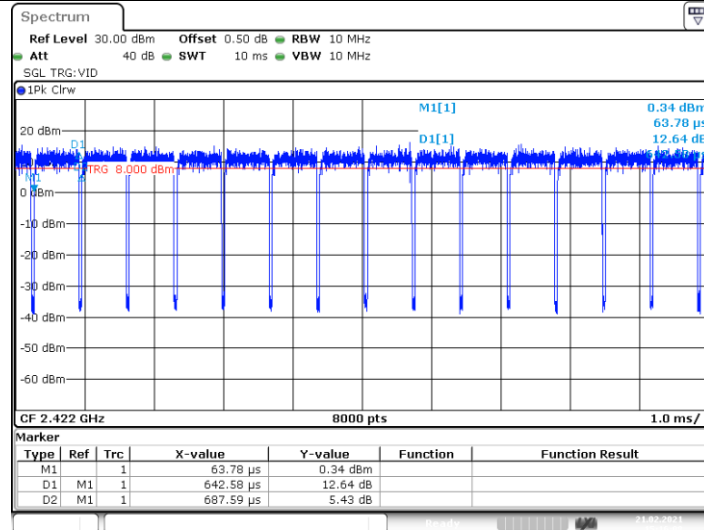
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

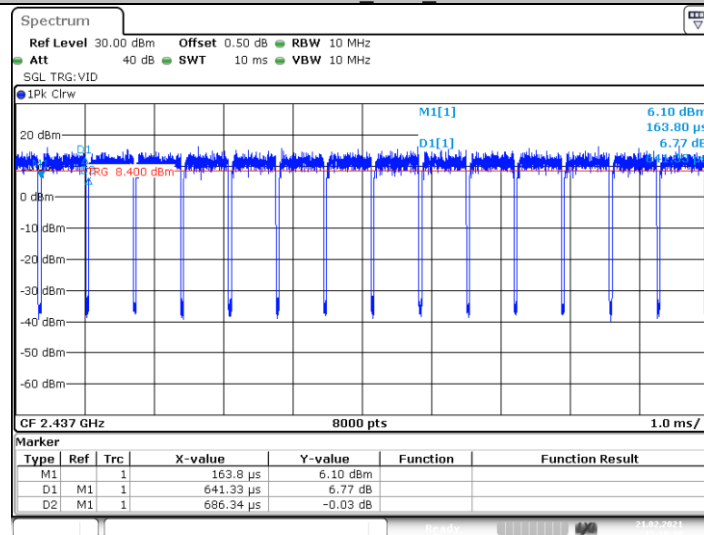
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



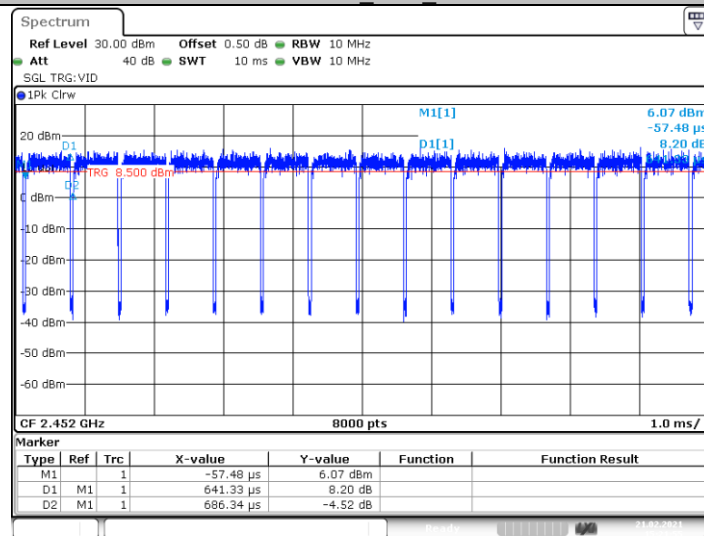
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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3.8. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

*****THE END*****