



Report No.:

TW 2009117E

File Reference No.:

2020-10-13

Applicant:

Dongguan Luckysonics Co.,Ltd

Product:

Rhya

Model No.:

SG40, SG40RND

Trademark:



Test Standards:

FCC Part 15.247

Test Result:

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Manager

Dated:

October 13, 2020

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996
Site Listed with Federal Communications commission (FCC)
Registration Number: 744189
For 3m Anechoic Chamber
Site Listed with Industry Canada of Ottawa, Canada
Registration Number: IC: 5205A
For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Dongguan Luckysonics Co.,Ltd
Address: Room 801, Building A1, Guangda WE Valley, Road 2 ,SongShan Lake, North Industrial Zone, DongGuan City, GuangDong Province, China
Telephone: 18680055657
Fax: --

1.3 Description of EUT

Product: Rhya
Manufacturer: DongGuan Dasheng Electronic Technology Co.,Ltd
Address: 8 Songbaikeng road, Qiaozi village, Changping Town, Dongguan city, Guangdong Province, China
Brand Name: 
Model Number: SG40
Additional Model Number: SG40RND
Type of Modulation: GFSK, π /4DQPSK, 8DPSK for Bluetooth
Frequency range: 2402-2480MHz for Bluetooth
Channel Spacing: 1MHz for Bluetooth
Frequency Selection: By software
Channel Number: 79 channels for Bluetooth
Antenna: Ceramic antenna used. The gain of the antennas is 2.0dBi (get from the antenna specification provided the applicant)
Input Voltage: DC5V
Battery: DC3.7V, Built-in 110mAh Li-ion battery

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1.4 Submitted Sample: 4PCS

1.5 Test Duration

2020-09-11 to 2020-10-13

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Note: The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.

1.7 Test Engineer

Terry Tang

The sample tested by _____

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2019-06-21	2021-06-20
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2020-06-23	2021-06-22
Power sensor	Anritsu	MA2491A	32263	2020-06-23	2021-06-22
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic	--	--	N/A	2018-02-07	2021-02-06
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22
Spectrum	RS	FSP	1164.4391.38	2020-01-16	2021-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2020-06-23	2021-06-22
RF Cable	Zhengdi	7m	--	2020-06-23	2021-06-22
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22
LISN	SCHAFFNER	NNB42	00012	2020-01-07	2021-01-06

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Requirement	CFR 47 Section	Result	Notes
Antenna Requirement	15.203, 15.247(b)(4)	PASS	Complies
Maximum Peak Out Power	15.247 (b)(1), (4)	PASS	Complies
Carrier Frequency Separation	15.247(a)(1)	PASS	Complies
20dB Channel Bandwidth	15.247 (a)(1)	PASS	Complies
Number of Hopping Channels	15.247(a)(iii), 15.247(b)(1)	PASS	Complies
Time of Occupancy (Dwell Time)	15.247(a)(iii)	PASS	Complies
Spurious Emission, Band Edge, and Restricted bands	15.247(d), 15.205(a), 15.209 (a), 15.109	PASS	Complies
Conducted Emissions	15.207(a), 15.107	PASS	Complies
RF Exposure	15.247(i), 1.1307(b)(1)	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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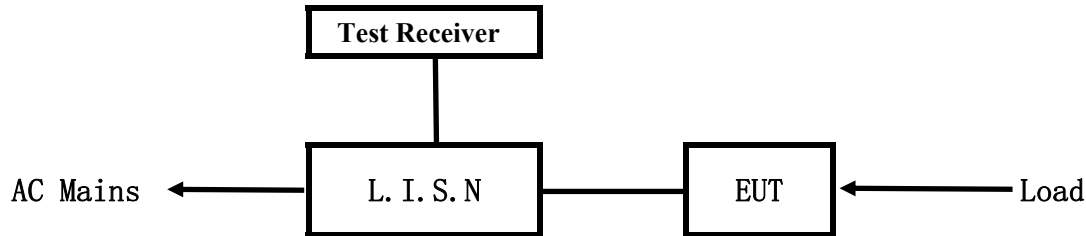
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5. Power Line Conducted Emission Test

5.1 Schematics of the test



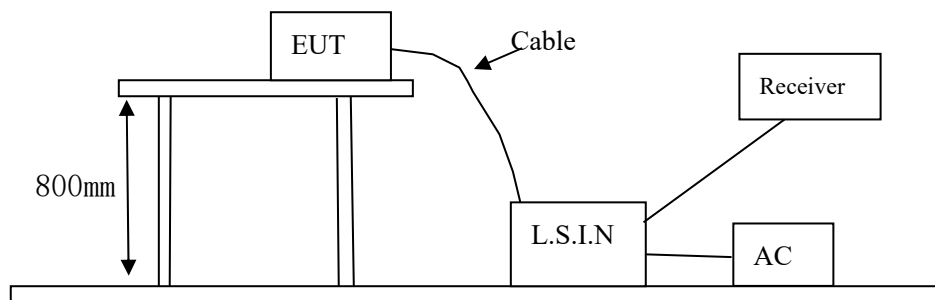
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

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A. EUT

Device	Manufacturer	Model	FCC ID
Rhya	DongGuan Dasheng Electronic Technology Co.,Ltd	SG40, SG40RND	2AQAB-SG40

B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	TIANYIN	TPA-95A050100UU	Input: 100-240V~, 50/60Hz, 0.15A; Output: DC5V, 1A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.107 ,15.207

Frequency (MHz)	Class B Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

- Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

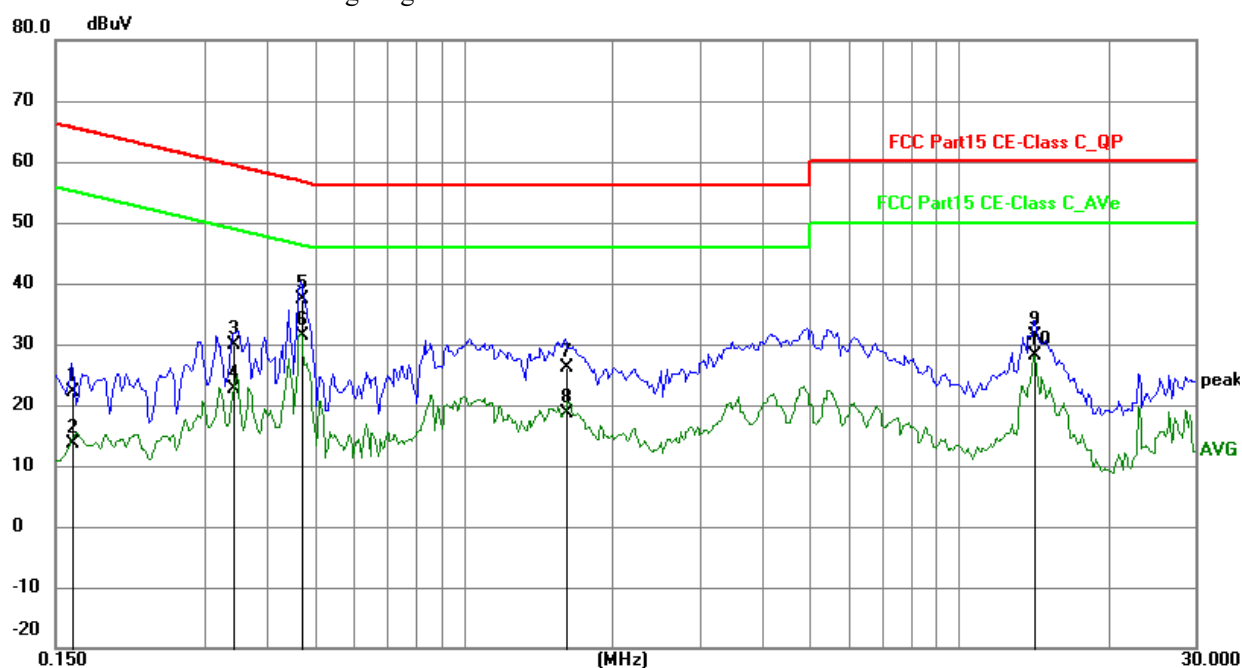
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Bluetooth Transmitting

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	12.47	9.78	22.25	65.38	-43.13	QP	P
2	0.1617	3.85	9.78	13.63	55.38	-41.75	AVG	P
3	0.3446	20.01	9.76	29.77	59.09	-29.32	QP	P
4	0.3446	12.86	9.76	22.62	49.09	-26.47	AVG	P
5	0.4698	27.64	9.77	37.41	56.52	-19.11	QP	P
6	0.4698	21.72	9.77	31.49	46.52	-15.03	AVG	P
7	1.6047	16.44	9.80	26.24	56.00	-29.76	QP	P
8	1.6047	8.93	9.80	18.73	46.00	-27.27	AVG	P
9	14.2125	21.02	10.35	31.37	60.00	-28.63	QP	P
10	14.2125	17.77	10.35	28.12	50.00	-21.88	AVG	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

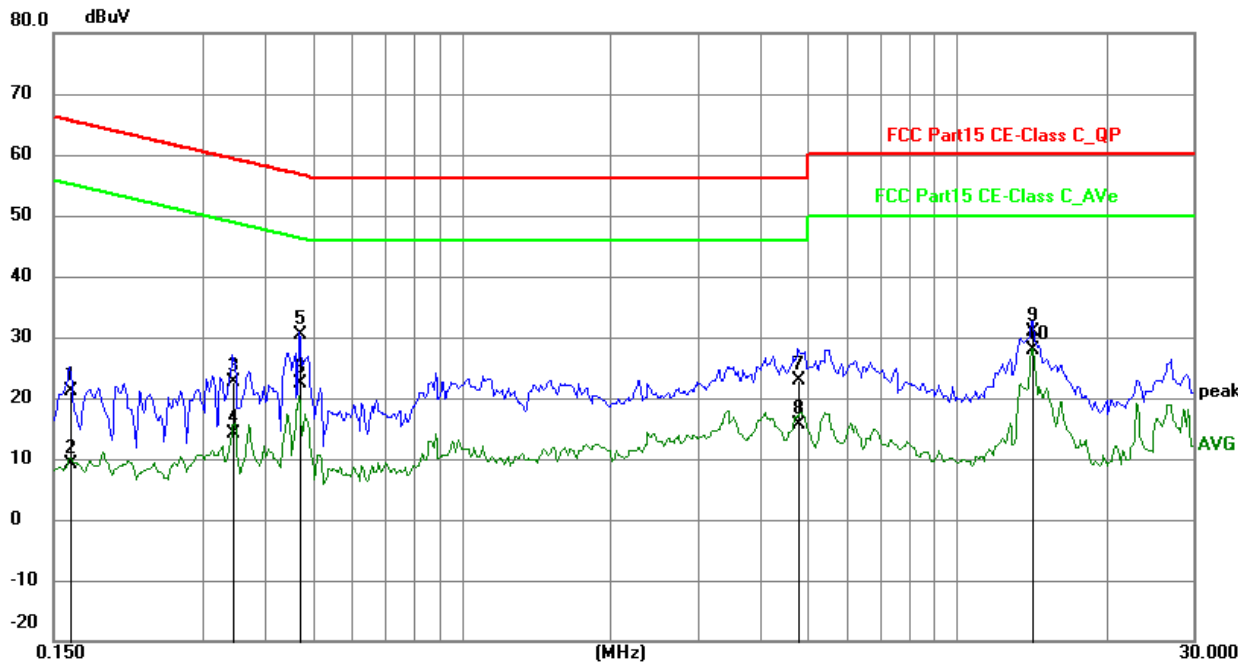
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Bluetooth Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	11.37	9.78	21.15	65.38	-44.23	QP	P
2	0.1617	-0.58	9.78	9.20	55.38	-46.18	AVG	P
3	0.3450	12.85	9.76	22.61	59.08	-36.47	QP	P
4	0.3450	4.35	9.76	14.11	49.08	-34.97	AVG	P
5	0.4698	20.69	9.77	30.46	56.52	-26.06	QP	P
6	0.4698	12.71	9.77	22.48	46.52	-24.04	AVG	P
7	4.7823	12.92	9.92	22.84	56.00	-33.16	QP	P
8	4.7823	5.80	9.92	15.72	46.00	-30.28	AVG	P
9	14.2125	20.47	10.35	30.82	60.00	-29.18	QP	P
10	14.2125	17.44	10.35	27.79	50.00	-22.21	AVG	P

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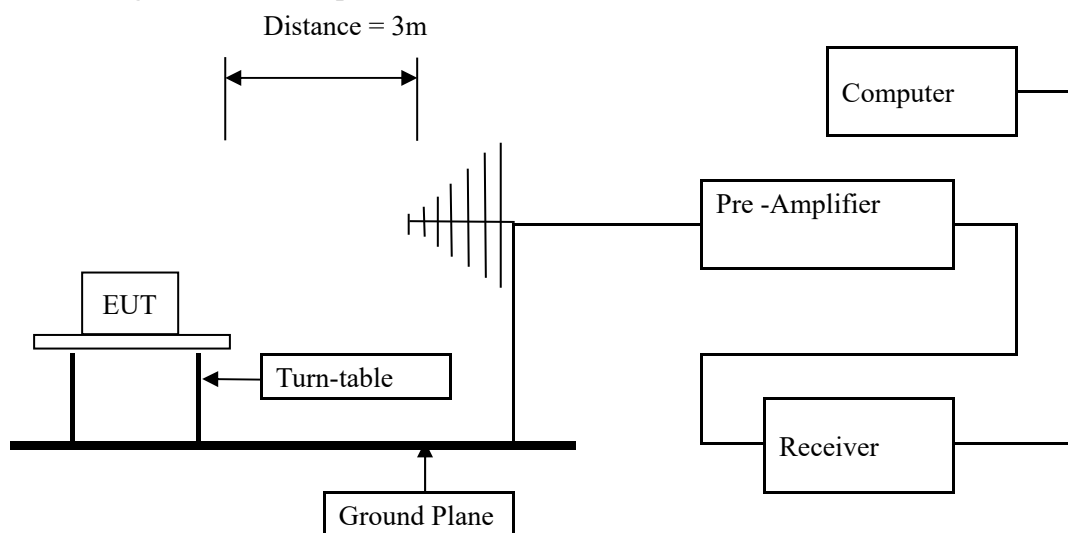


6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (μ V)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. 8DPSK was the worse case because it has highest output power
 5. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/Vertical (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Results: **Pass**

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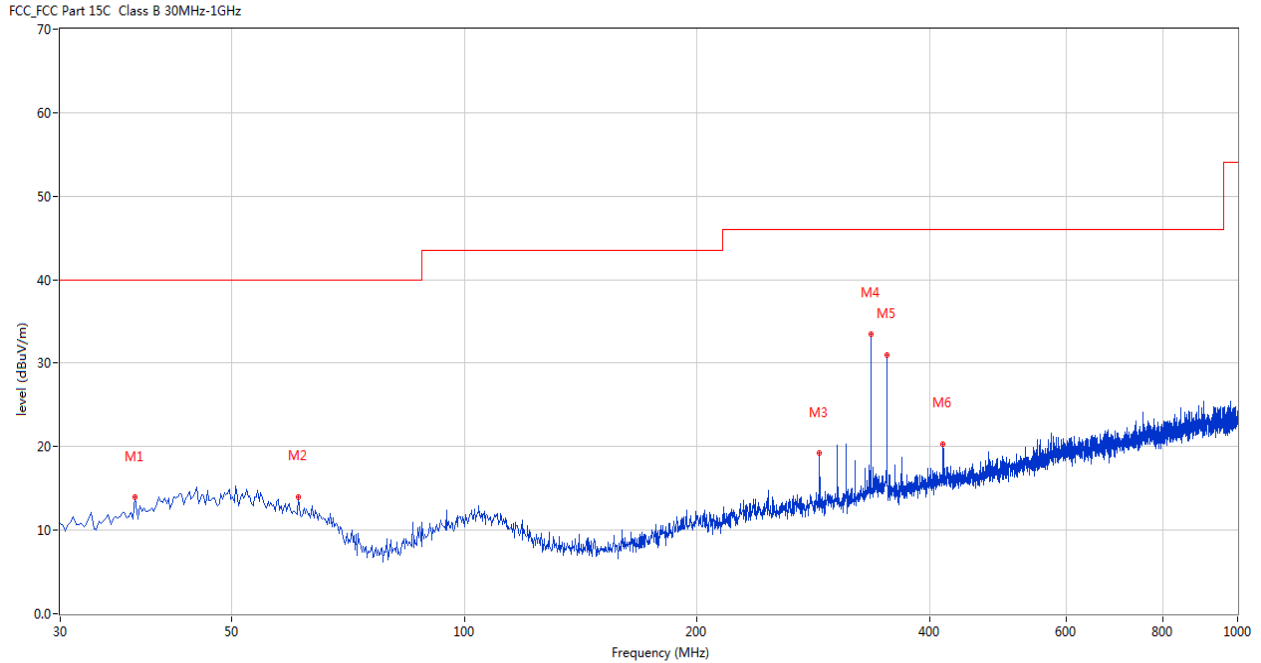
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Test Figure:

H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	37.516	13.91	-12.95	40.0	-26.09	Peak	289.00	100	Horizontal	Pass
2	61.032	14.04	-13.10	40.0	-25.96	Peak	115.00	100	Horizontal	Pass
3	287.956	19.19	-11.27	46.0	-26.81	Peak	160.00	100	Horizontal	Pass
4	335.474	33.51	-9.94	46.0	-12.49	Peak	183.00	100	Horizontal	Pass
5	351.960	31.00	-9.45	46.0	-15.00	Peak	336.00	100	Horizontal	Pass
6	415.964	20.30	-8.34	46.0	-25.70	Peak	212.00	100	Horizontal	Pass

The report refers only to the sample tested and does not apply to the bulk.

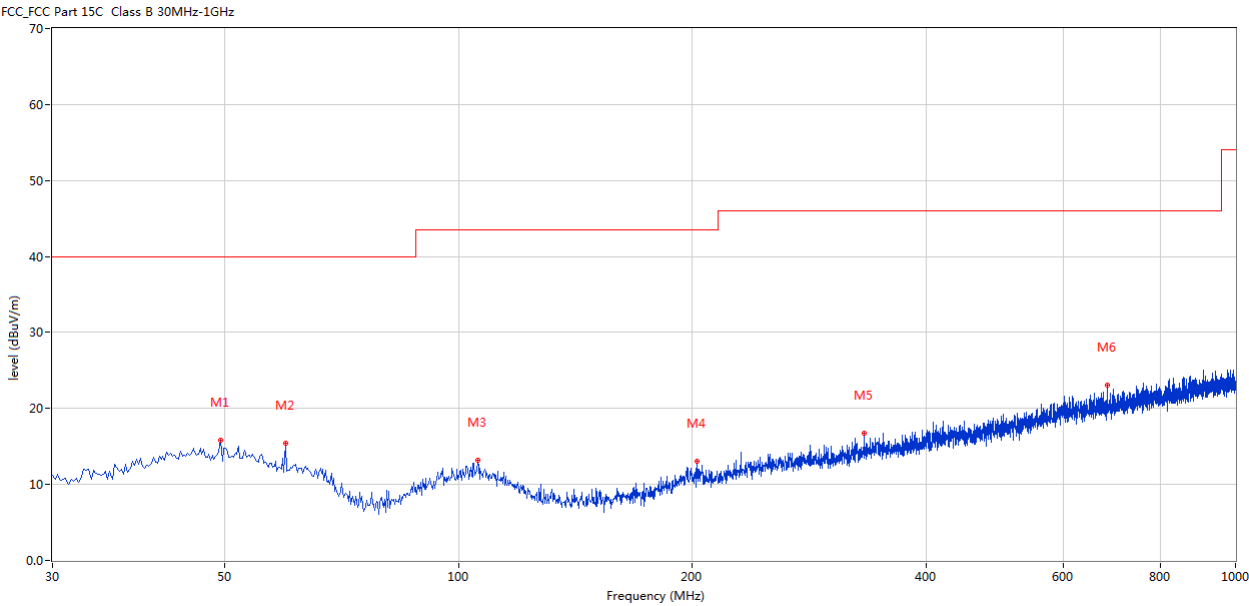
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Test Figure:

V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	49.395	15.84	-11.28	40.0	-24.16	Peak	182.00	100	Vertical	Pass
2	59.820	15.45	-12.94	40.0	-24.55	Peak	186.00	100	Vertical	Pass
3	105.884	13.18	-13.29	43.5	-30.32	Peak	84.00	100	Vertical	Pass
4	202.617	13.09	-13.40	43.5	-30.41	Peak	281.00	100	Vertical	Pass
5	332.564	16.75	-10.09	46.0	-29.25	Peak	16.00	100	Vertical	Pass
6	683.374	23.08	-4.49	46.0	-22.92	Peak	114.00	100	Vertical	Pass

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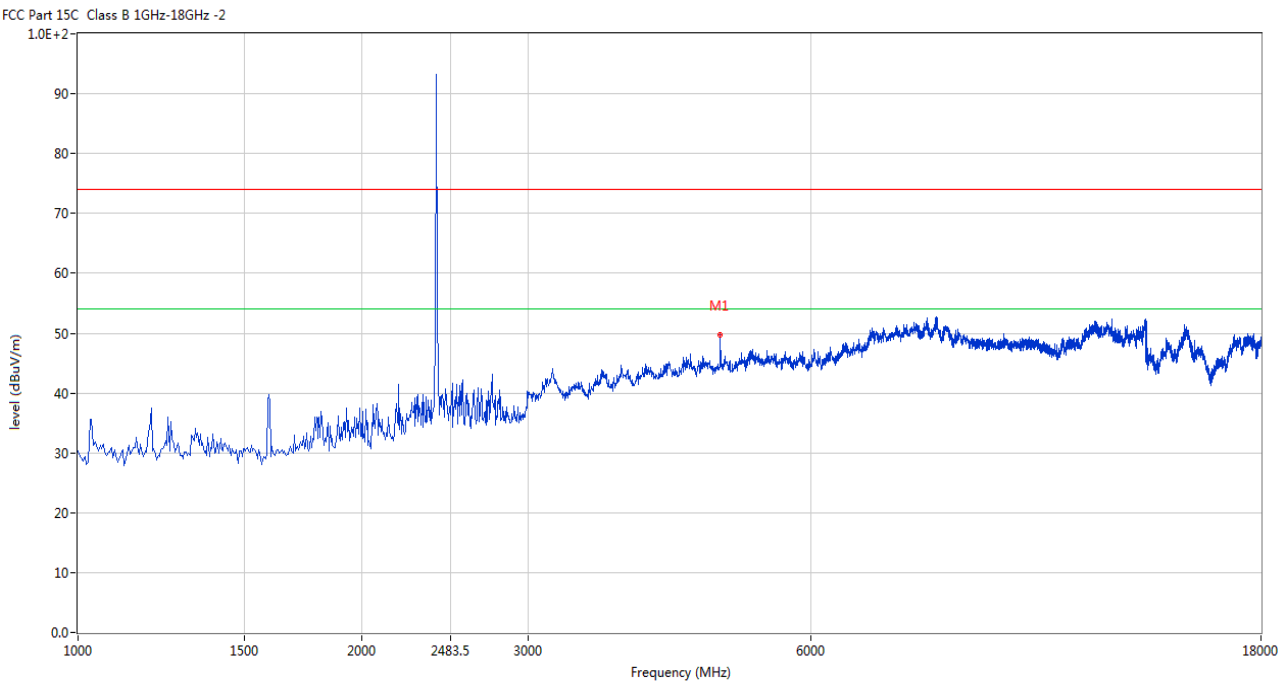
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Test Figures above 1GHz:

Please refer to the following test plots for details:

Low Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	4803.750	49.69	3.13	54.0	-4.31	Peak	171.00	100	Vertical	N/A

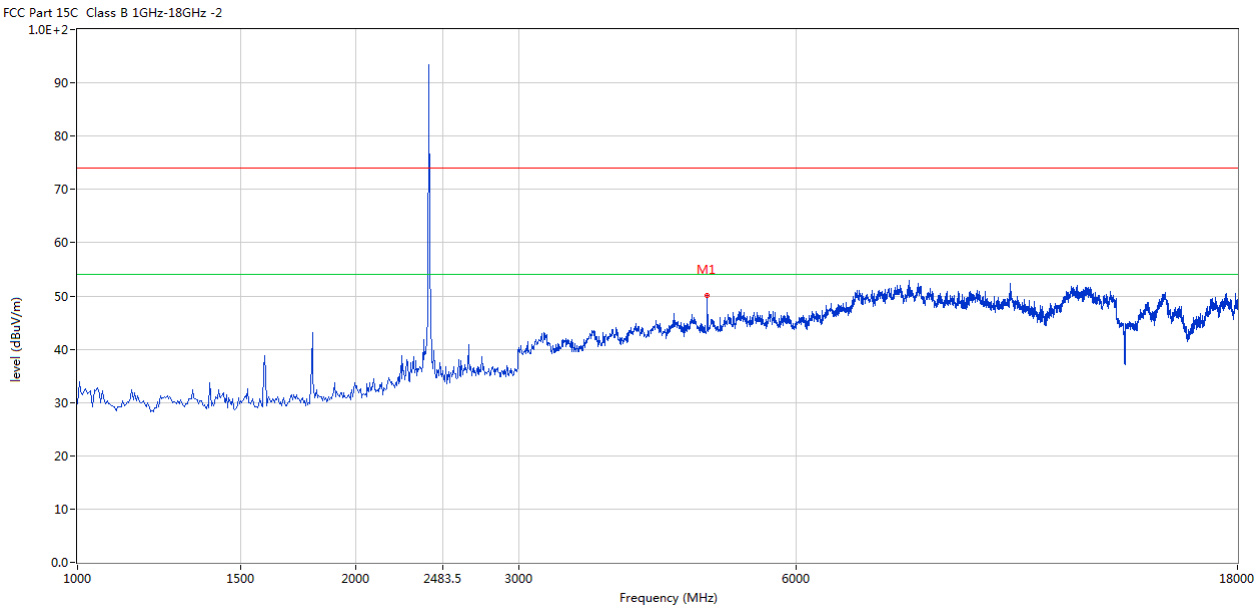
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Low Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detecto r	Table (o)	Height (cm)	ANT	Verdi ct
1	4803.750	50.01	3.13	54.0	-3.99	Peak	169.00	100	Horizontal	N/A

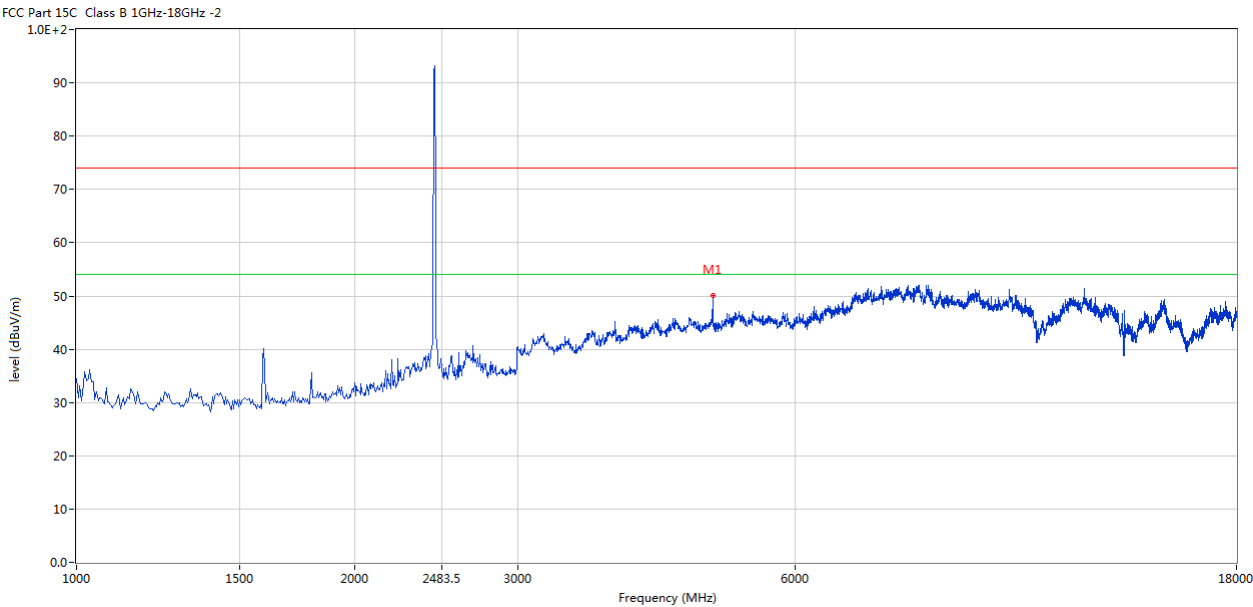
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Middle Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	4880.250	50.10	3.20	54.0	-3.90	Peak	222.00	100	Horizontal	N/A

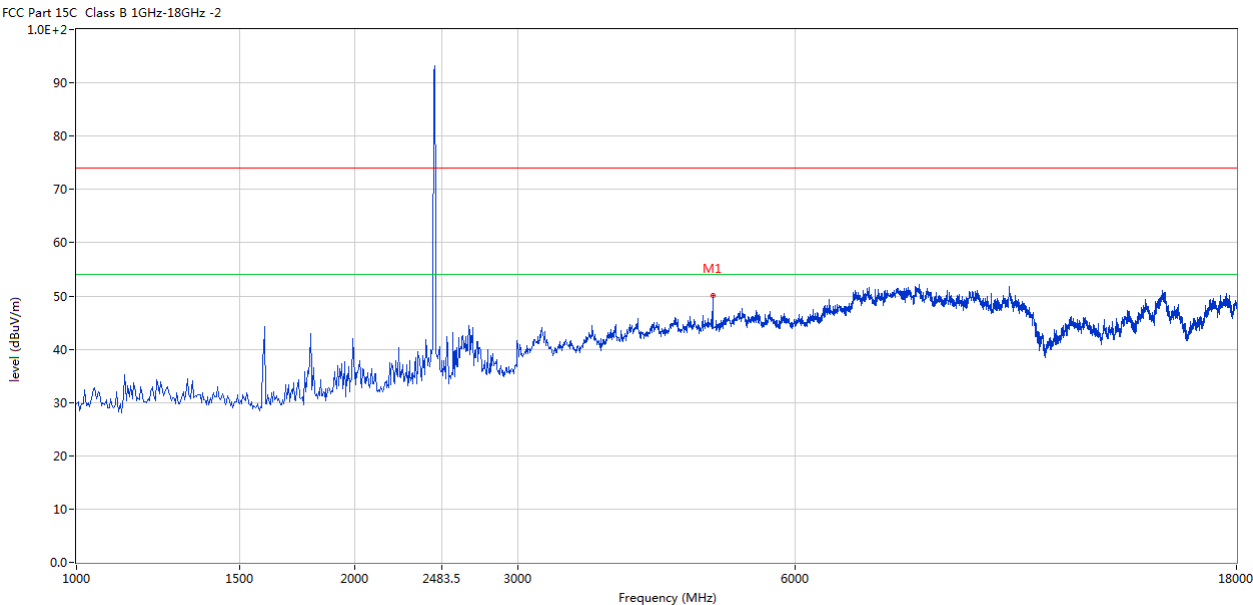
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Middle Channel: Vertical

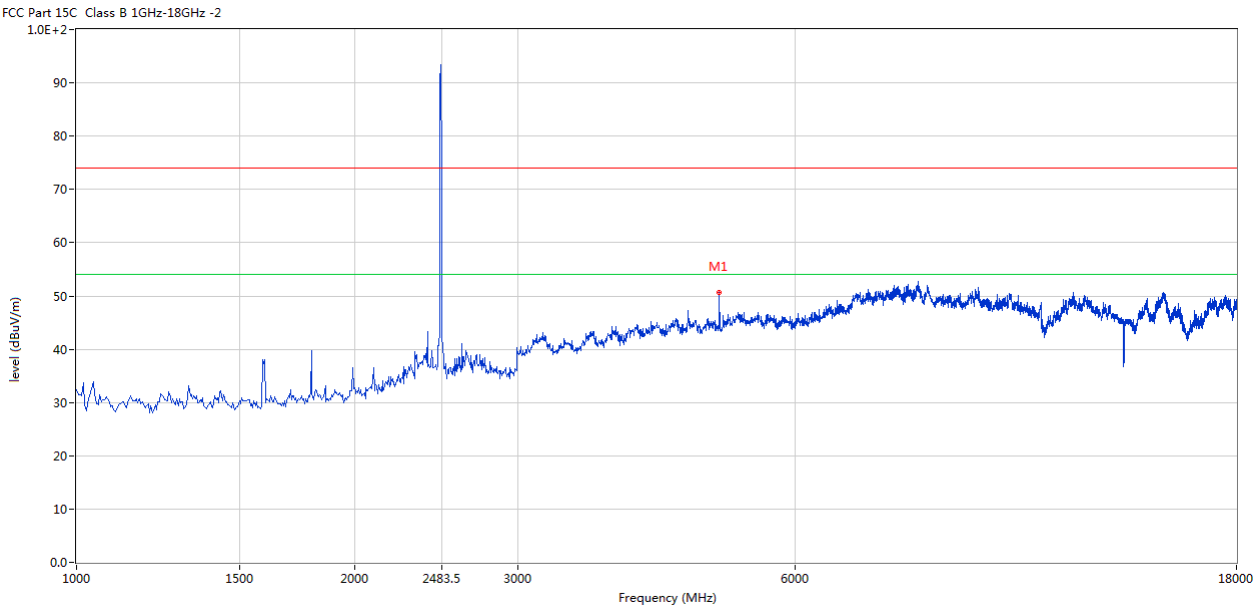


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	4880.250	50.09	3.20	54.0	-3.91	Peak	161.00	100	Vertical	N/A

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High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	4961.000	50.66	3.36	54.0	-3.34	Peak	151.00	100	Horizontal	N/A

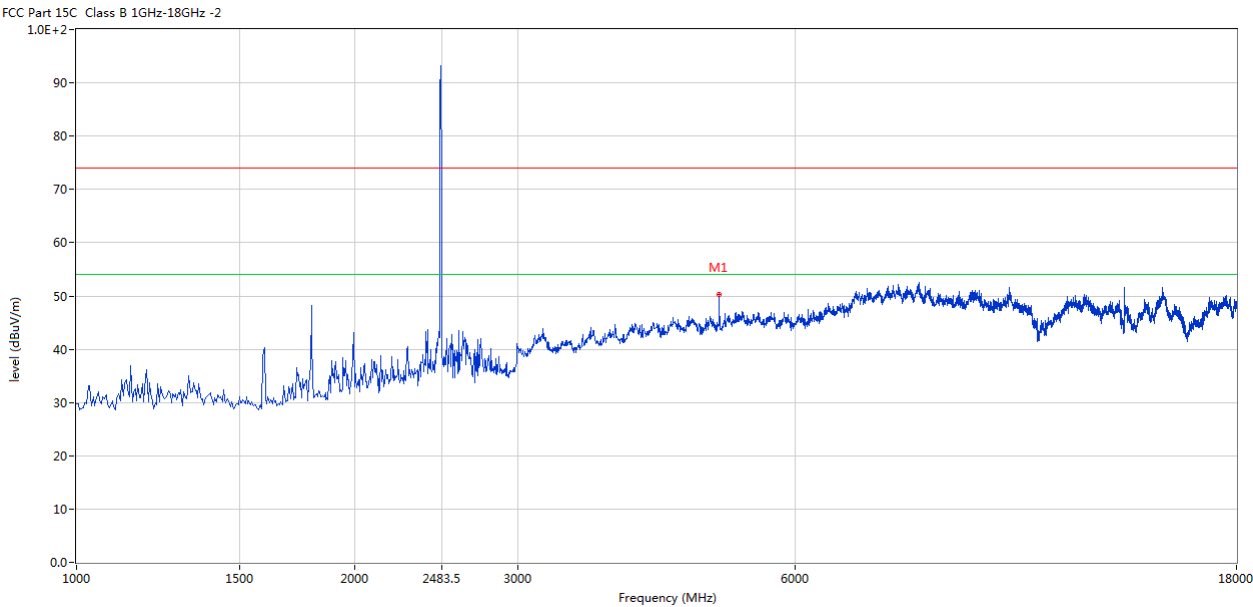
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High Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	4961.000	50.01	3.36	54.0	-3.99	Peak	201.00	100	Vertical	Pass

- Note: 1. Level = Reading + AF + Cable - Preamp
2. For the radiated emissions above 18G, it is the floor noise.
3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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7.0 20dB Bandwidth Measurement

7.1 Regulation

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

7.2 Limits of 20dB Bandwidth Measurement

N/A

7.3 Test Procedure.

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = 3MHz, RBW = 30 kHz, VBW = 100 kHz, Sweep = auto Detector function = peak, Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

7.4 Test Result

Type of Modulation: GFSK

EUT	Rhya		Model	SG40
Mode	Keep Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail
Low	2402	896	--	Pass
Middle	2441	896	--	Pass
High	2480	896	--	Pass

The report refers only to the sample tested and does not apply to the bulk.

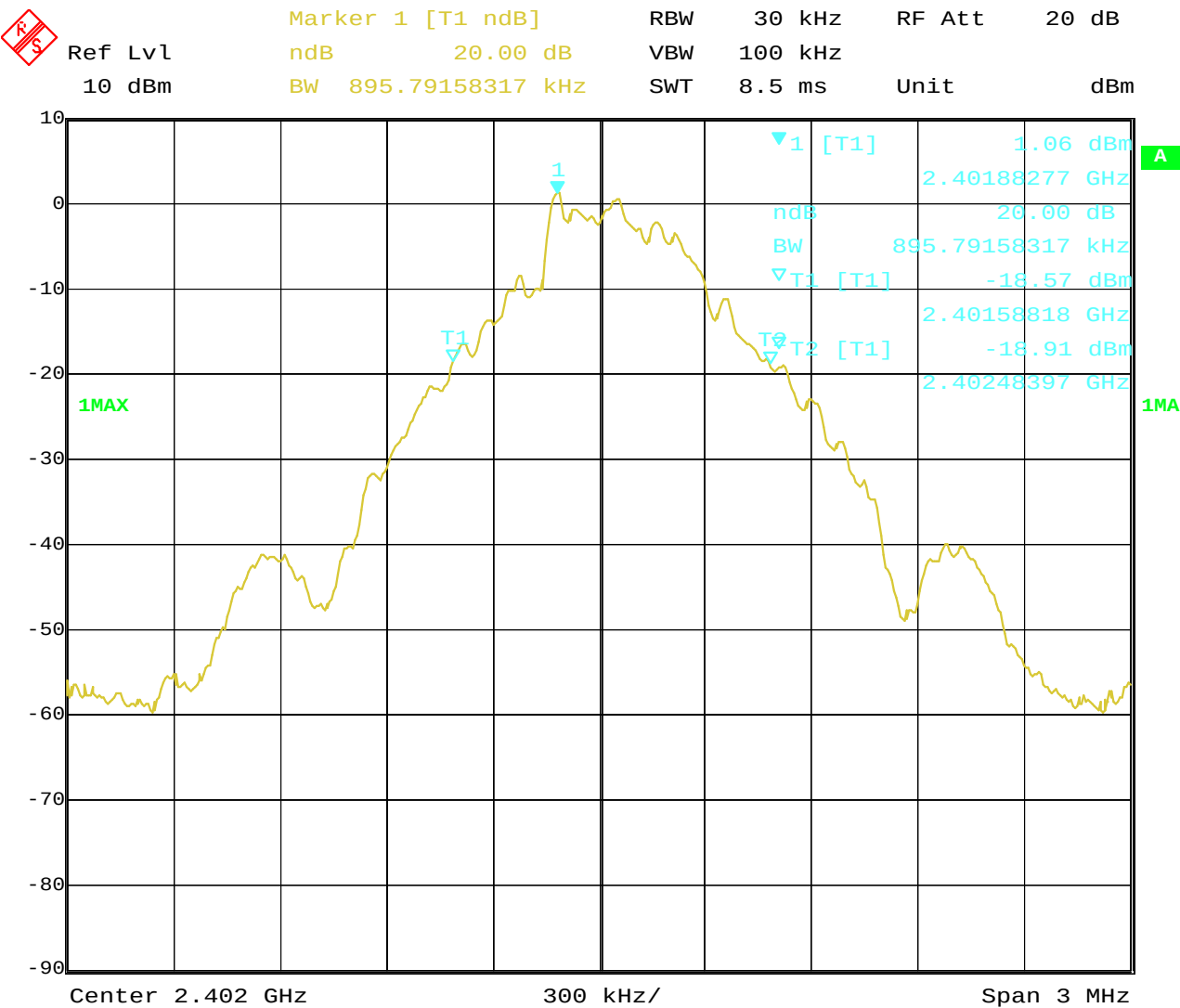
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Test Figure:

1. Condition: Low Channel



Date:

27.SEP.2020 11:13:40

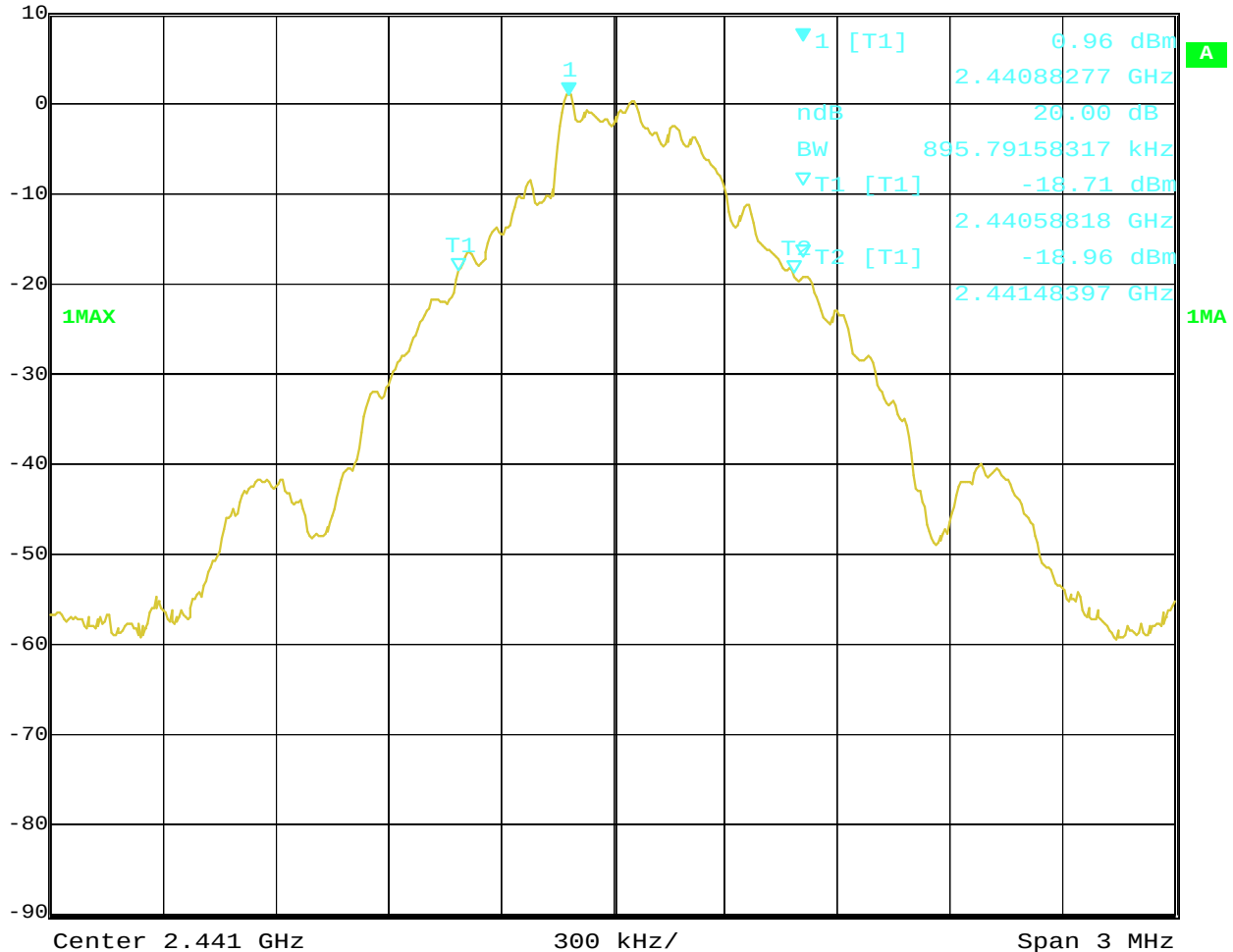
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2. Condition: Middle Channel



Ref Lvl	Marker 1 [T1 ndB]	RBW	30 kHz	RF Att	20 dB
10 dBm	ndB 20.00 dB	VBW	100 kHz		
	BW 895.79158317 kHz	SWT	8.5 ms	Unit	dBm



Date: 27.SEP.2020 11:10:19

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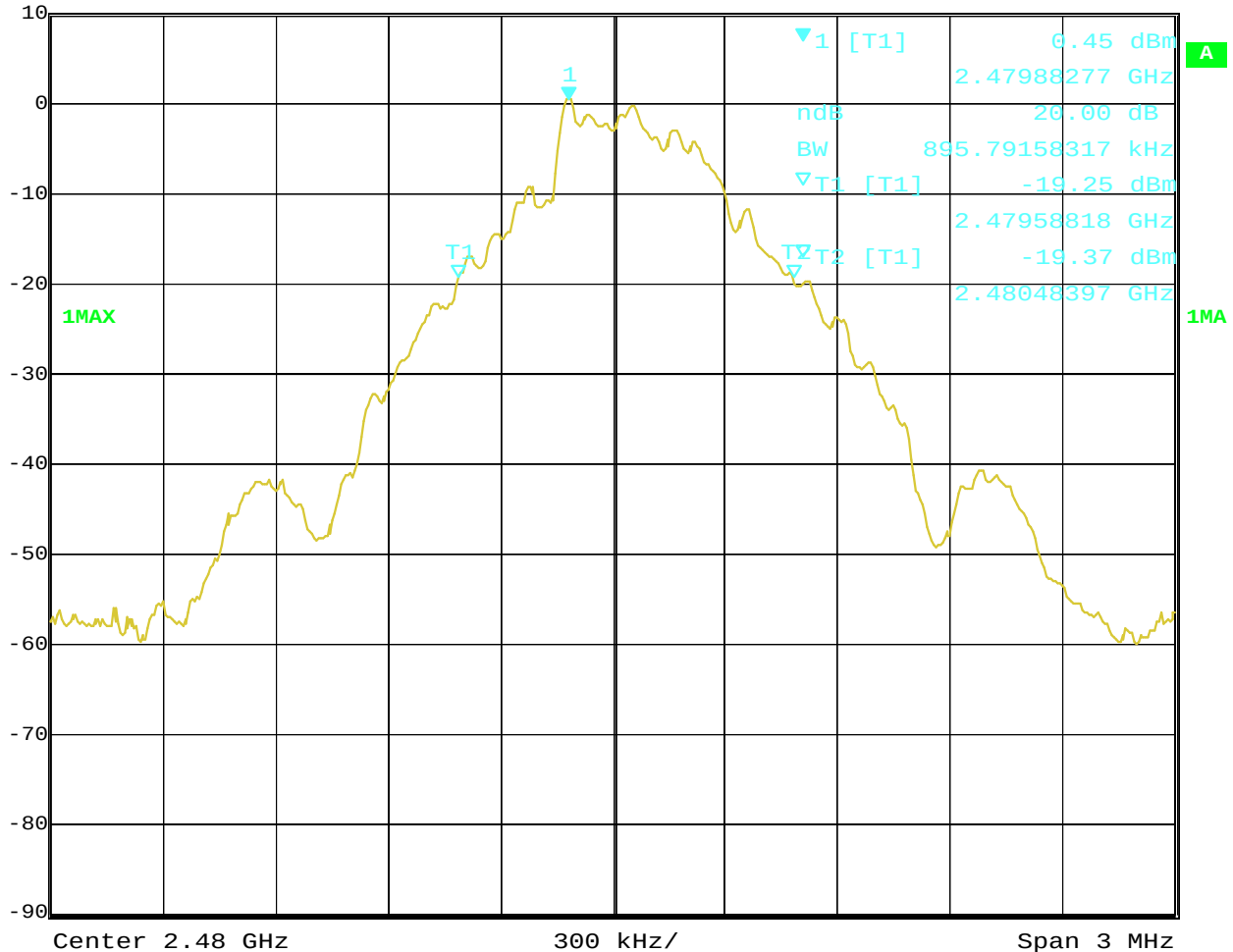
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3. High Channel



Ref Lvl	Marker 1 [T1 ndB]	RBW	30 kHz	RF Att	20 dB
10 dBm	ndB 20.00 dB	VBW	100 kHz		
	BW 895.79158317 kHz	SWT	8.5 ms	Unit	dBm



Date: 27.SEP.2020 11:07:18

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Test Result

Type of Modulation: $\pi/4$ QPSK

EUT	Rhya		Model	SG40
Mode	Keep Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	1311	--	Pass
Middle	2441	1311	--	Pass
High	2480	1305	--	Pass

The report refers only to the sample tested and does not apply to the bulk.

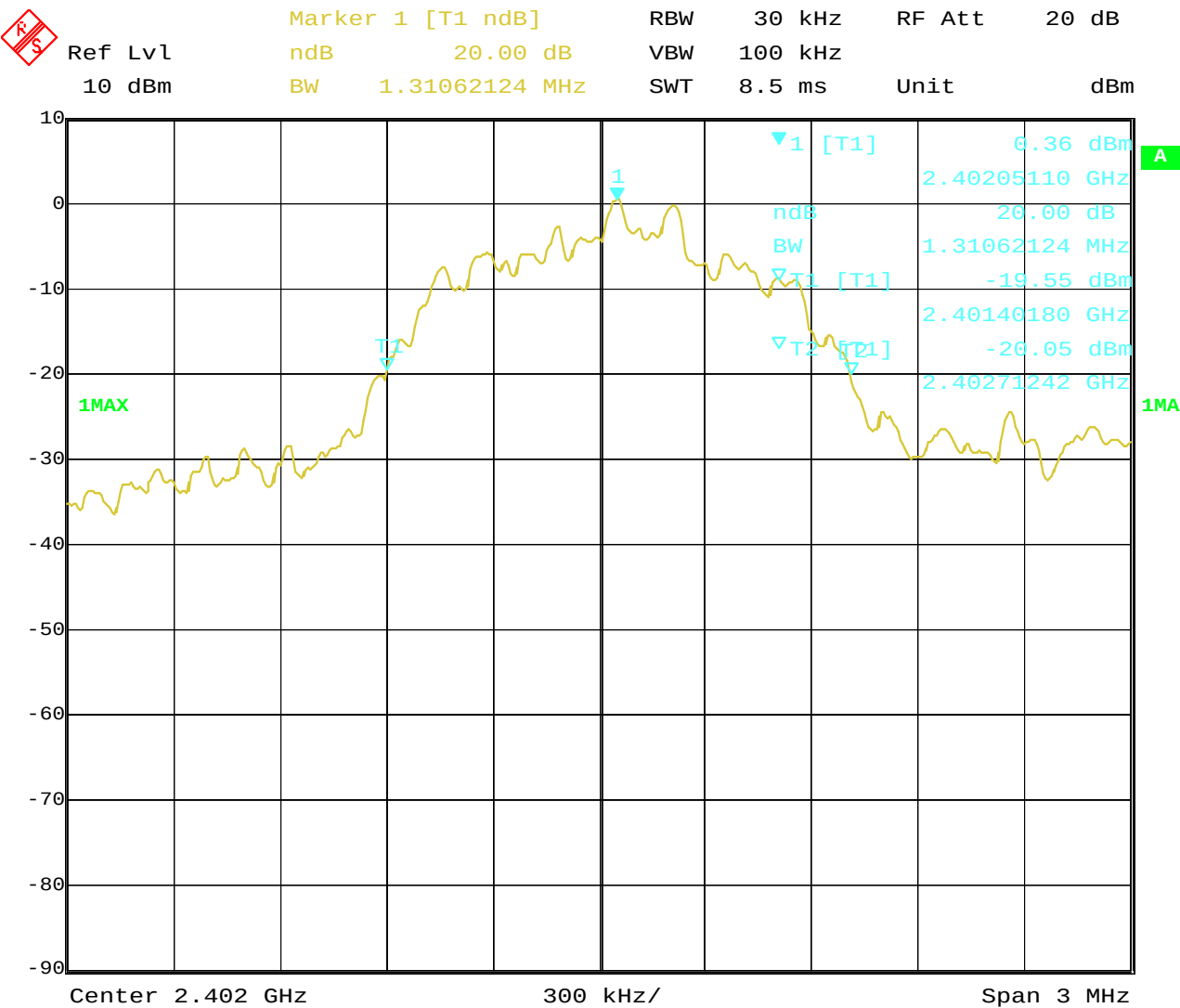
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Test Figure:

1. Condition: Low Channel



Date: 27.SEP.2020 11:22:30

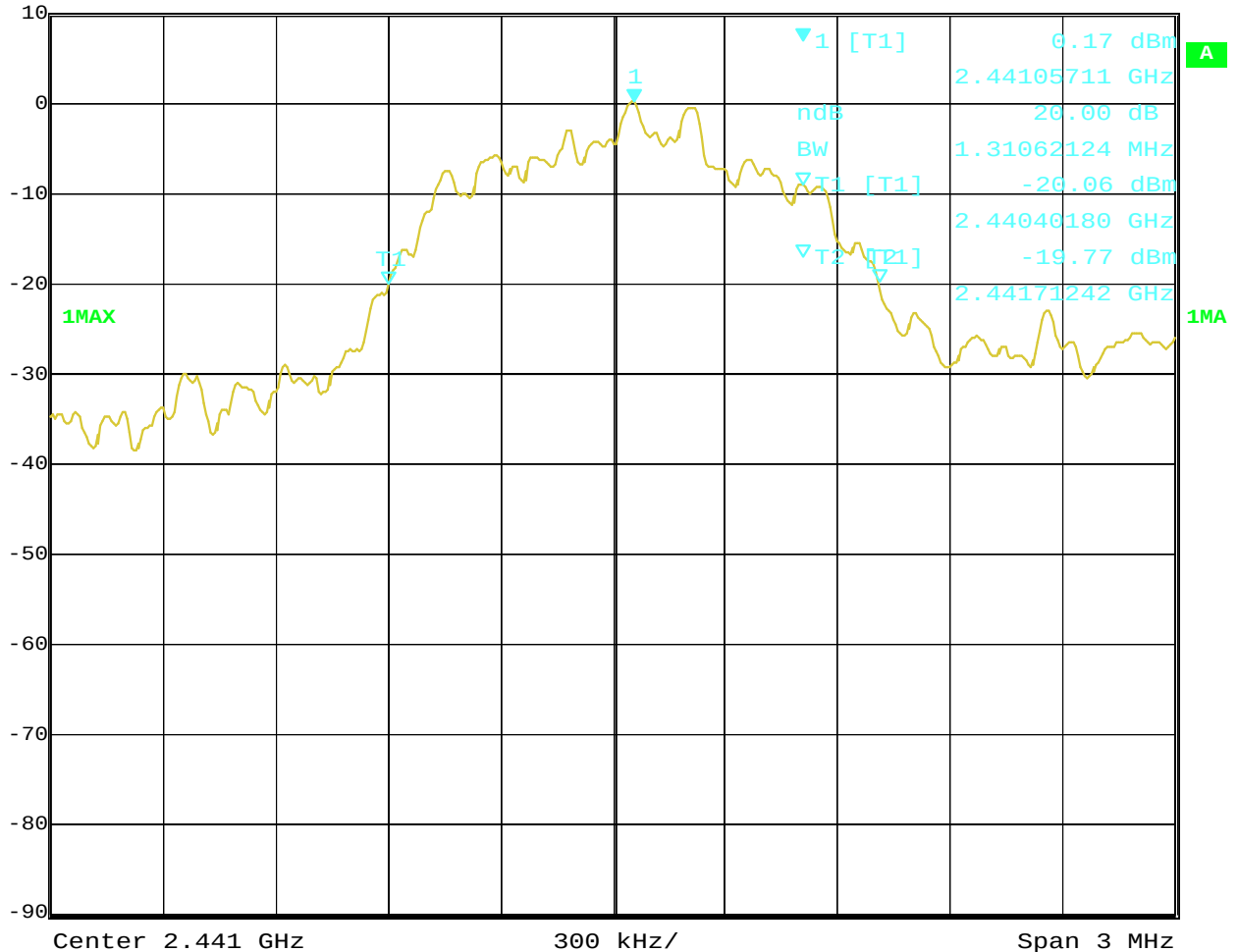
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2. Condition: Middle Channel



Ref Lvl	Marker 1 [T1 ndB]	RBW	30 kHz	RF Att	20 dB
10 dBm	ndB 20.00 dB	VBW	100 kHz		
	BW 1.31062124 MHz	SWT	8.5 ms	Unit	dBm

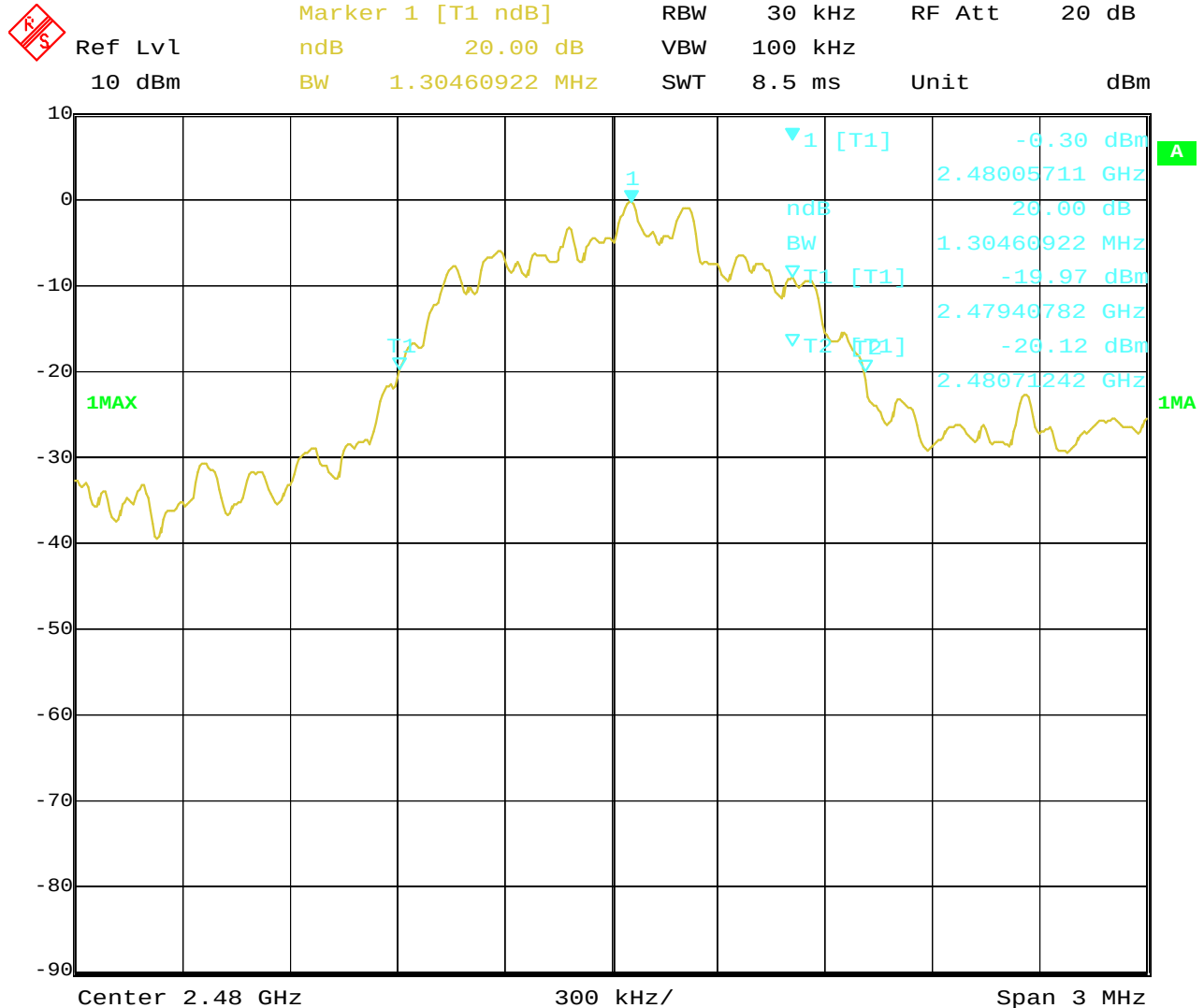


Date: 27.SEP.2020 11:24:45

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3. High Channel



Date: 27.SEP.2020 11:34:35

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Test Result

Type of Modulation: 8DPSK

EUT	Rhya		Model	SG40
Mode	Keep Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	1311	--	Pass
Middle	2441	1311	--	Pass
High	2480	1305	--	Pass

The report refers only to the sample tested and does not apply to the bulk.

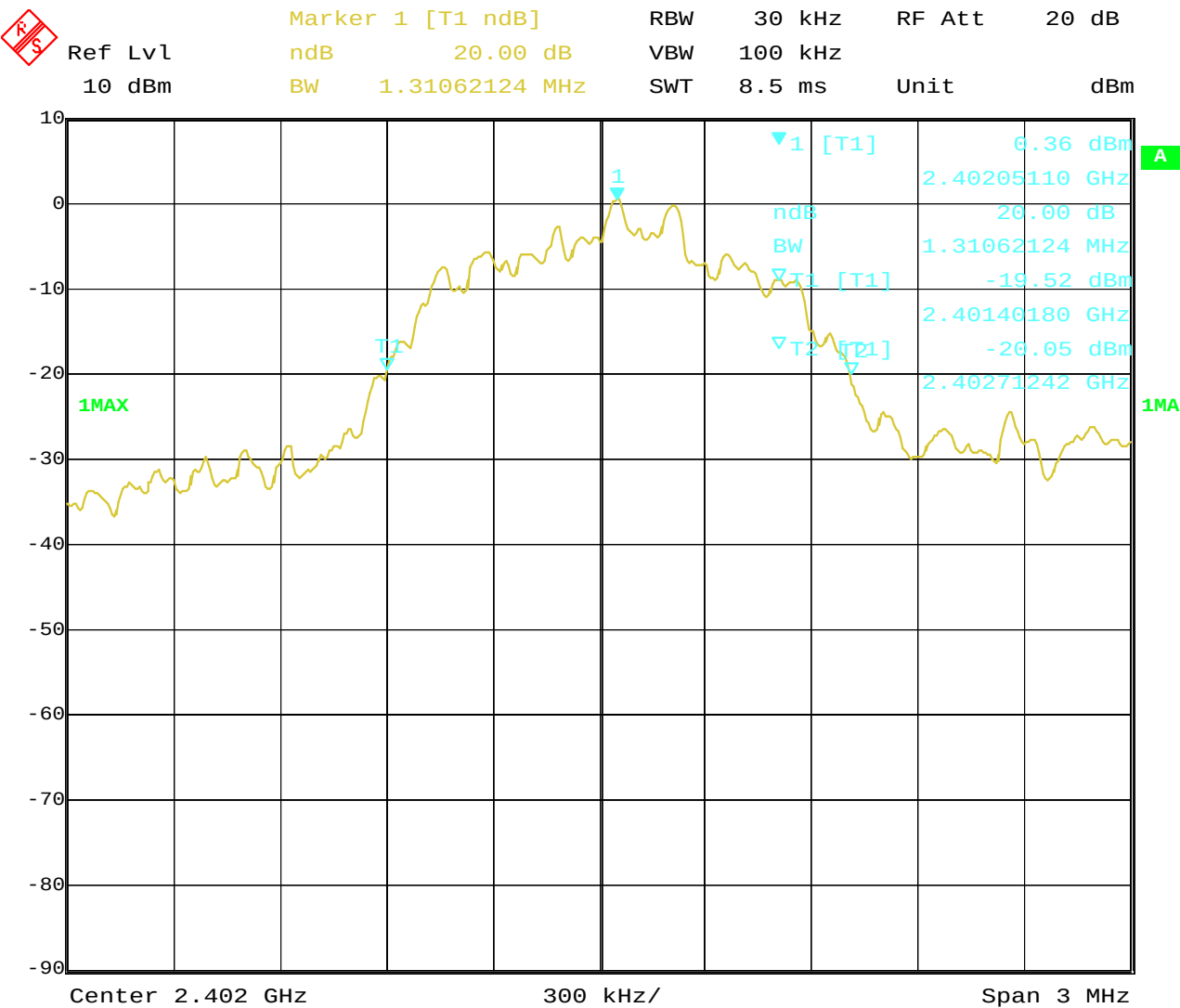
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Test Figure:

1. Condition: Low Channel

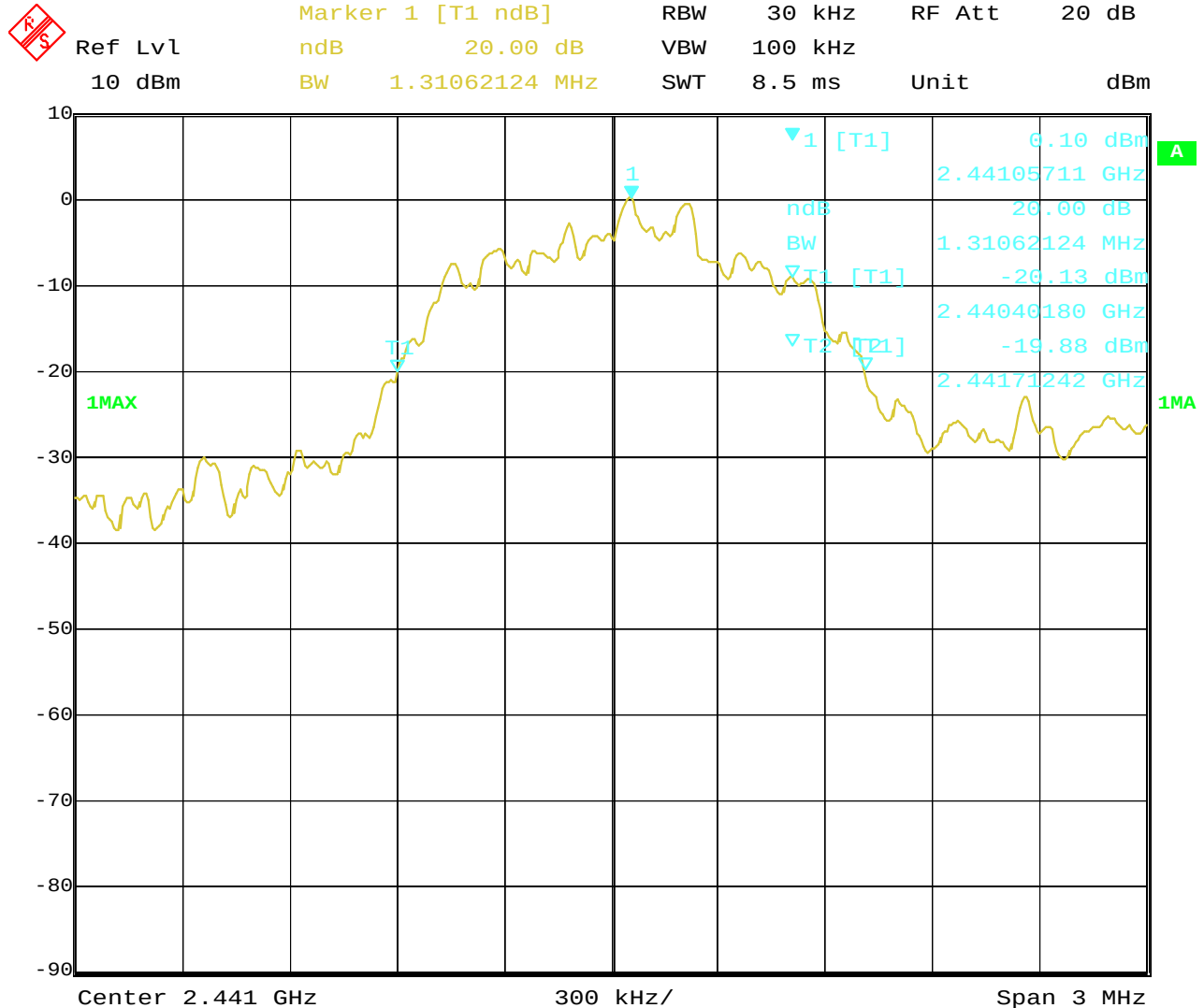


Date: 27.SEP.2020 11:21:02

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2. Condition: Middle Channel

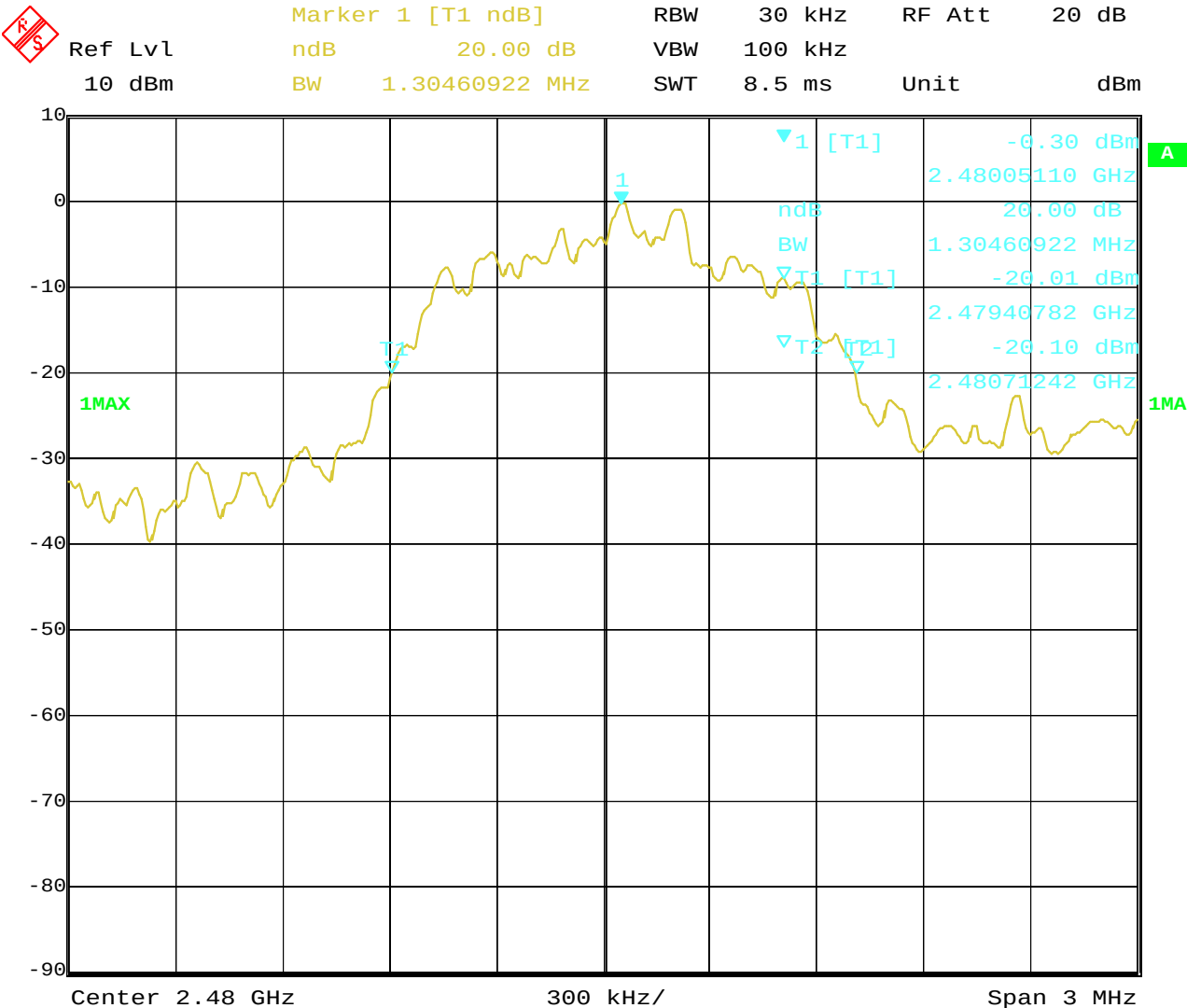


Date: 27.SEP.2020 11:25:25

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3. High Channel



Date: 27.SEP.2020 11:32:42

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8. Maximum Output Power

8.1 Regulation

According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band:0.125 watts. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW = RBW=3MHz; Sweep = 60s; Detector function = PK; Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.
4. Repeat above procedures until all frequencies measured were complete.

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8.4 Test Results

Type of Modulation: GFSK

EUT	Rhya		Model	SG40
Mode	Keep Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
		Peak		
Low	2402	2.78	30	Pass
Middle	2441	2.66	30	Pass
High	2480	2.14	30	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

2. The worse case was recorded
3. The Peak power was measured

Type of Modulation: 16QAM

EUT	Rhya		Model	SG40
Mode	Keep Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
		Peak		
Low	2402	3.26	30	Pass
Middle	2441	3.21	30	Pass
High	2480	3.26	30	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

2. The worse case was recorded
3. The Peak power was measured

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Type of Modulation: 8DPSK

EUT	Rhya		Model	SG40
Mode	Keep Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
		Peak		
Low	2402	3.30	30	Pass
Middle	2441	3.30	30	Pass
High	2480	3.28	30	Pass

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

2. The worse case was recorded
3. The Peak power was measured

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9. Carrier Frequency Separation

9.1 Regulation

According to §15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

9.2 Limits of Carrier Frequency Separation

The Maximum Power Spectral Density Measurement is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

9.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW) $\geq$ 1% of the span; Video (or Average) Bandwidth (VBW) $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold
3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.

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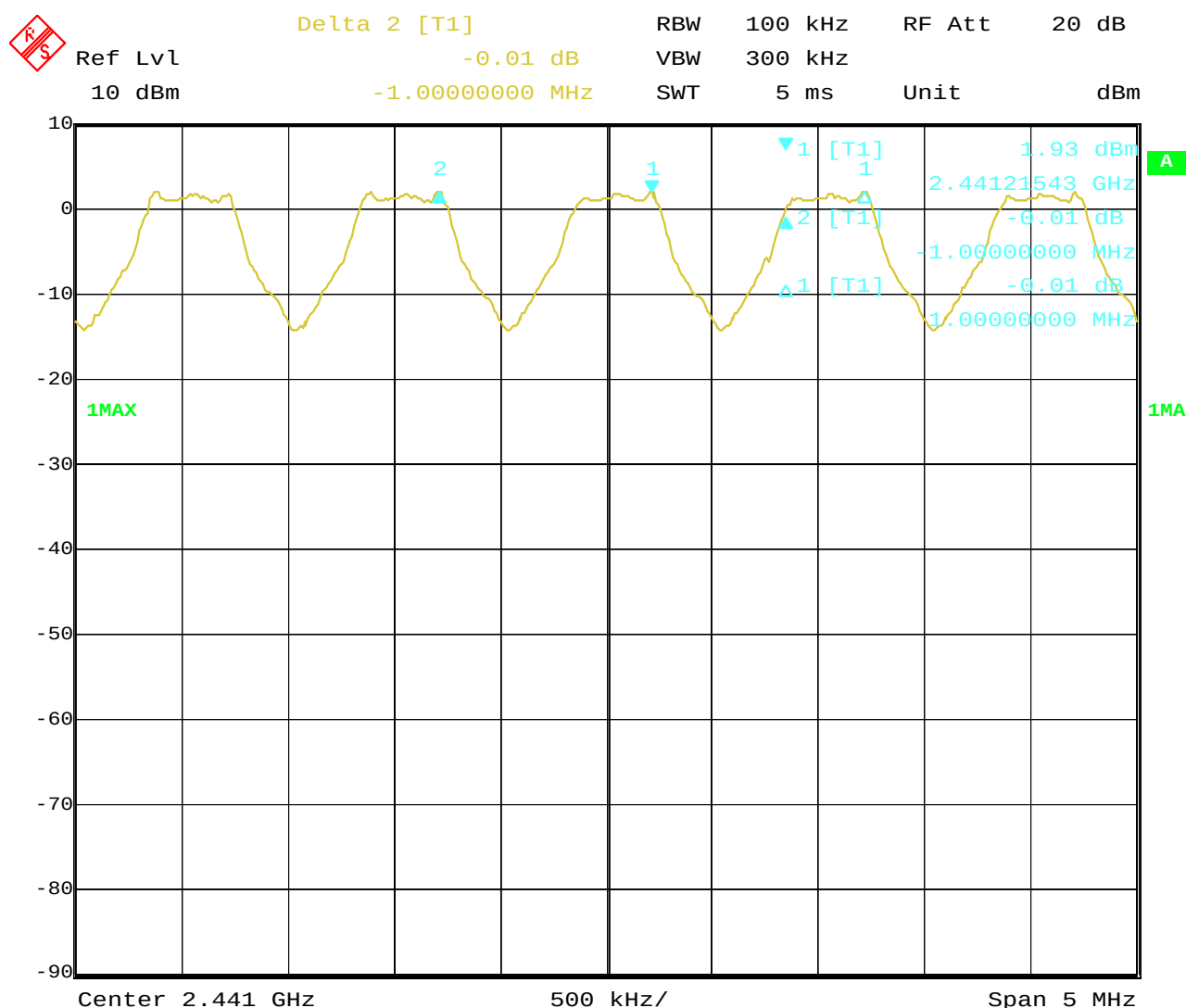


9.4 Test Result

Type of Modulation: GFSK

EUT	Rhya	Model	SG40
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Carrier Frequency Separation		Limit	Pass/ Fail
1.000MHz		≥ 25 kHz or 2/3 of the 20 dB bandwidth	Pass

Test Plots



Date: 24.SEP.2020 14:34:07

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EUT	Rhya	Model	SG40
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Carrier Frequency Separation		Limit	Pass/ Fail
1.000MHz		≥ 25 kHz or 2/3 of 20 dB bandwidth	Pass

Delta 2 [T1] 0.12 dB RBW 100 kHz RF Att 20 dB
 Ref Lvl 10 dBm VBW 300 kHz SWT 5 ms Unit dBm
 -1.00000000 MHz
 2.03 dBm
 2.44122545 GHz
 0.12 dB
 -1.00000000 MHz
 0.11 dB
 1.00000000 MHz
 1MA
 Center 2.441 GHz 500 kHz/ Span 5 MHz

Date: 27.SEP.2020 10:22:29

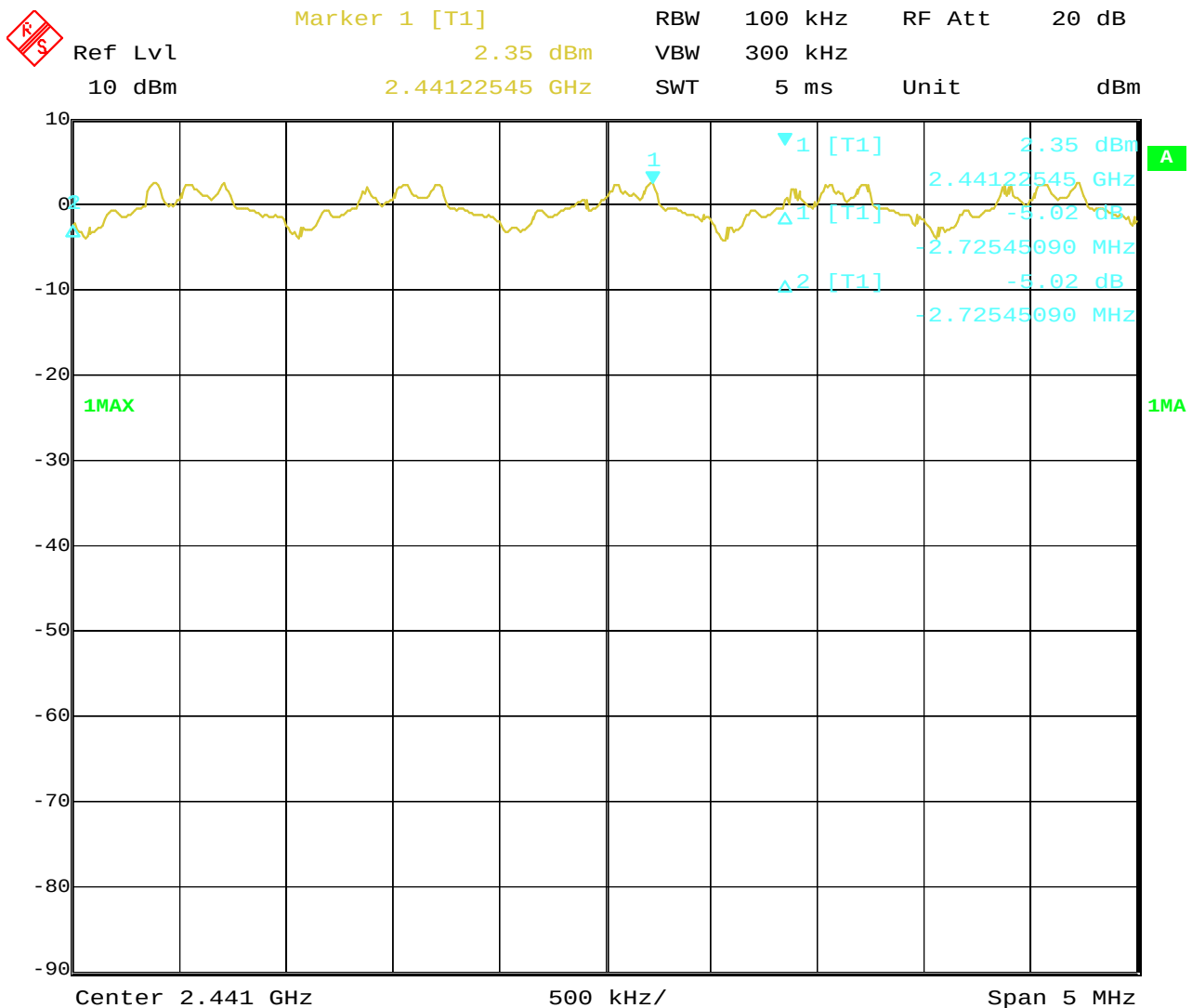
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Type of Modulation: 8DPSK

EUT	Rhya	Model	SG40
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Carrier Frequency Separation		Limit	Pass/ Fail
1.000MHz		≥ 25 kHz or 2/3 of 20 dB bandwidth	Pass

Test Plots



Date: 25.SEP.2020 17:57:11

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10. Number of Hopping Channels

10.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

10.2 Limits of Number of Hopping Channels

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

10.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW=100 kHz, VBW=300 kHz; Sweep = auto; Detector function = peak; Trace = max hold
3. Record the number of hopping channels.

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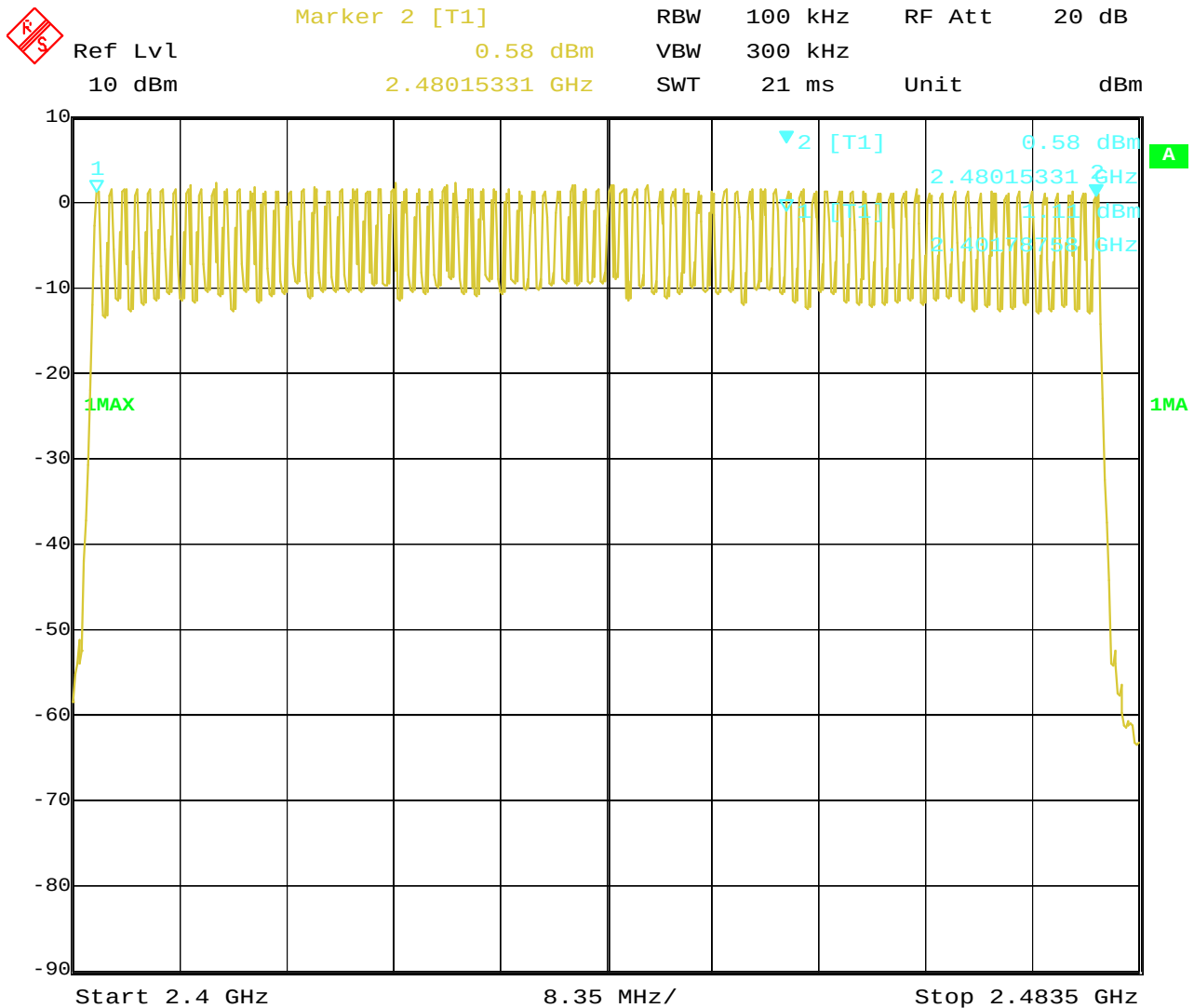


10.4 Test Result

Type of Modulation: GFSK

EUT	Rhya	Model	SG40
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Operating Frequency	Number of hopping channels	Limit	Pass/ Fail
2402-2480MHz	79	≥ 15	Pass

Test Plot



Date: 24.SEP.2020 14:09:14

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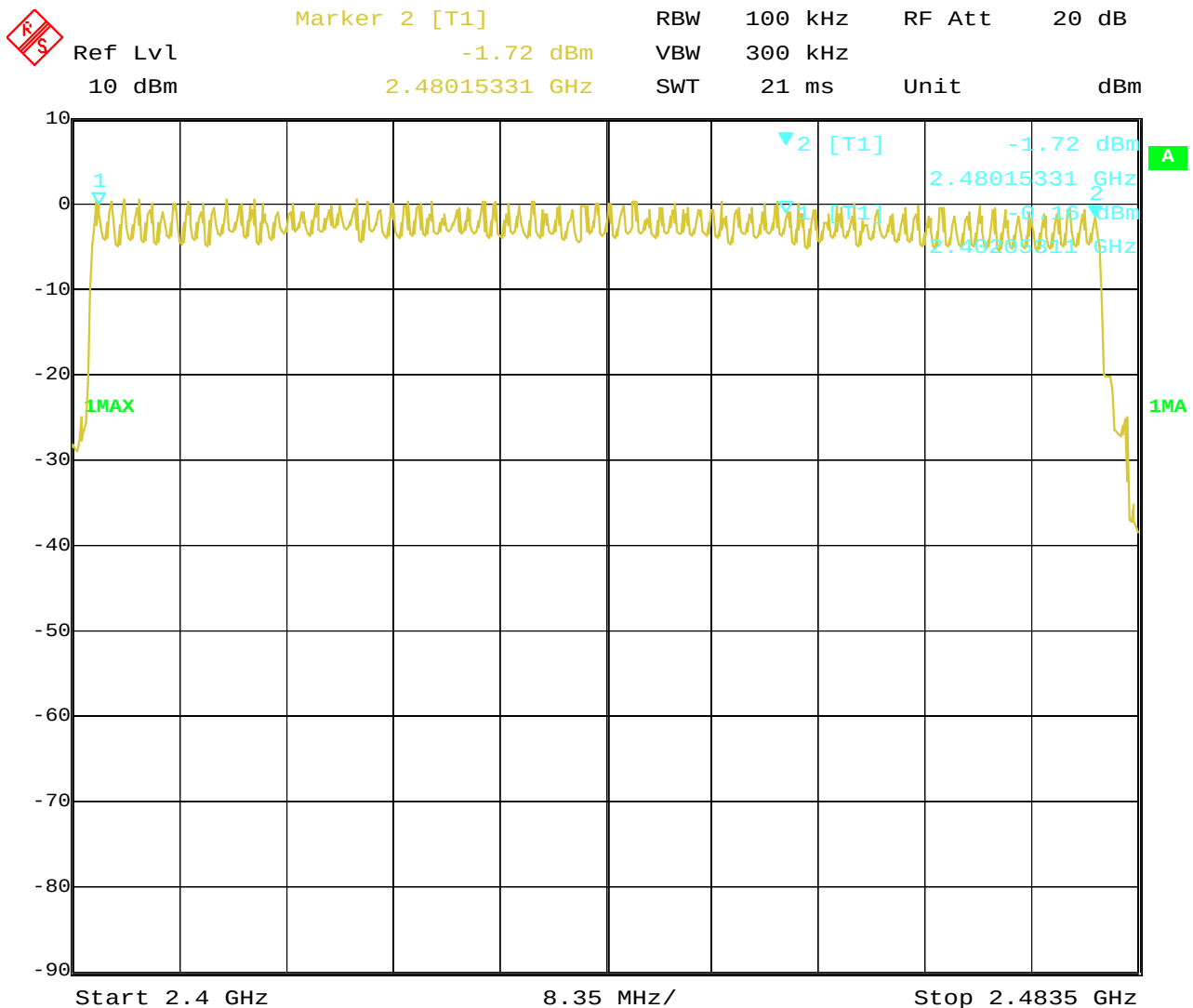
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Type of Modulation: $\pi/4$ DQPSK

EUT	Rhya	Model	SG40
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Operating Frequency	Number of hopping channels	Limit	Pass/ Fail
2402-2480MHz	79	≥ 15	Pass

Test Plot



Date: 25.SEP.2020 13:33:10

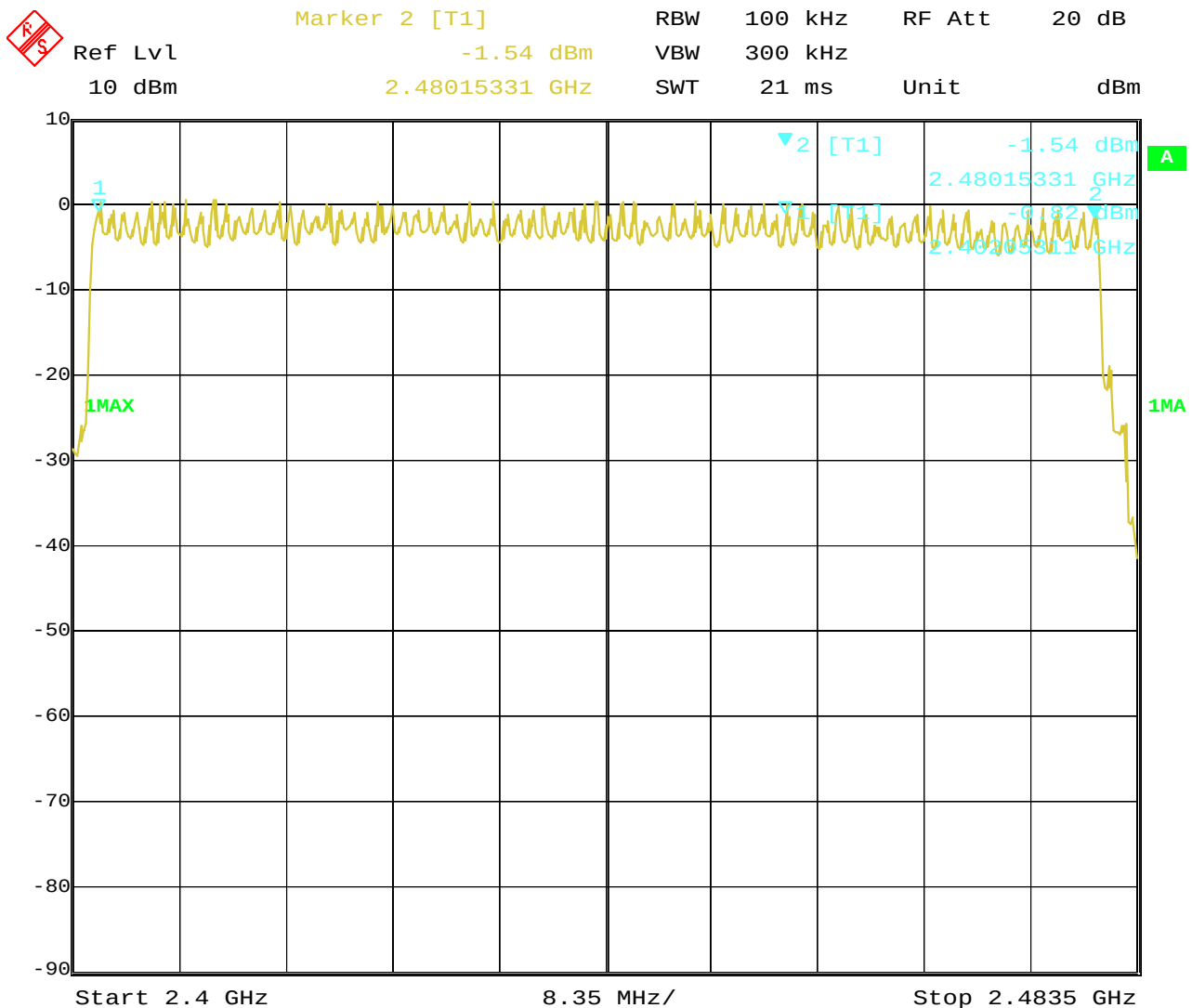
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Type of Modulation: 8DPSK

EUT	Rhya	Model	SG40
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Operating Frequency	Number of hopping channels	Limit	Pass/ Fail
2402-2480MHz	79	≥ 15	Pass

Test Plot



Date: 25.SEP.2020 13:28:07

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11. Time of Occupancy (Dwell Time)

11.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

11.2 Limits of Carrier Frequency Separation

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW $\geq$ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold
3. Measure the dwell time using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.
5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

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11.4 Test Result

Type of Modulation: GFSK

EUT		Rhya		Model	SG40	
Mode		Keep Transmitting		Input Voltage	DC3.7V	
Temperature		24 deg. C,		Humidity	56% RH	
Channel	Reading		Hoping Rate		Actual	Limit
DH5						
Middle	2.966ms		266.667 hop/s		0.317s	0.4s

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625μs with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

Note: DH5 was the worst case.

The report refers only to the sample tested and does not apply to the bulk.

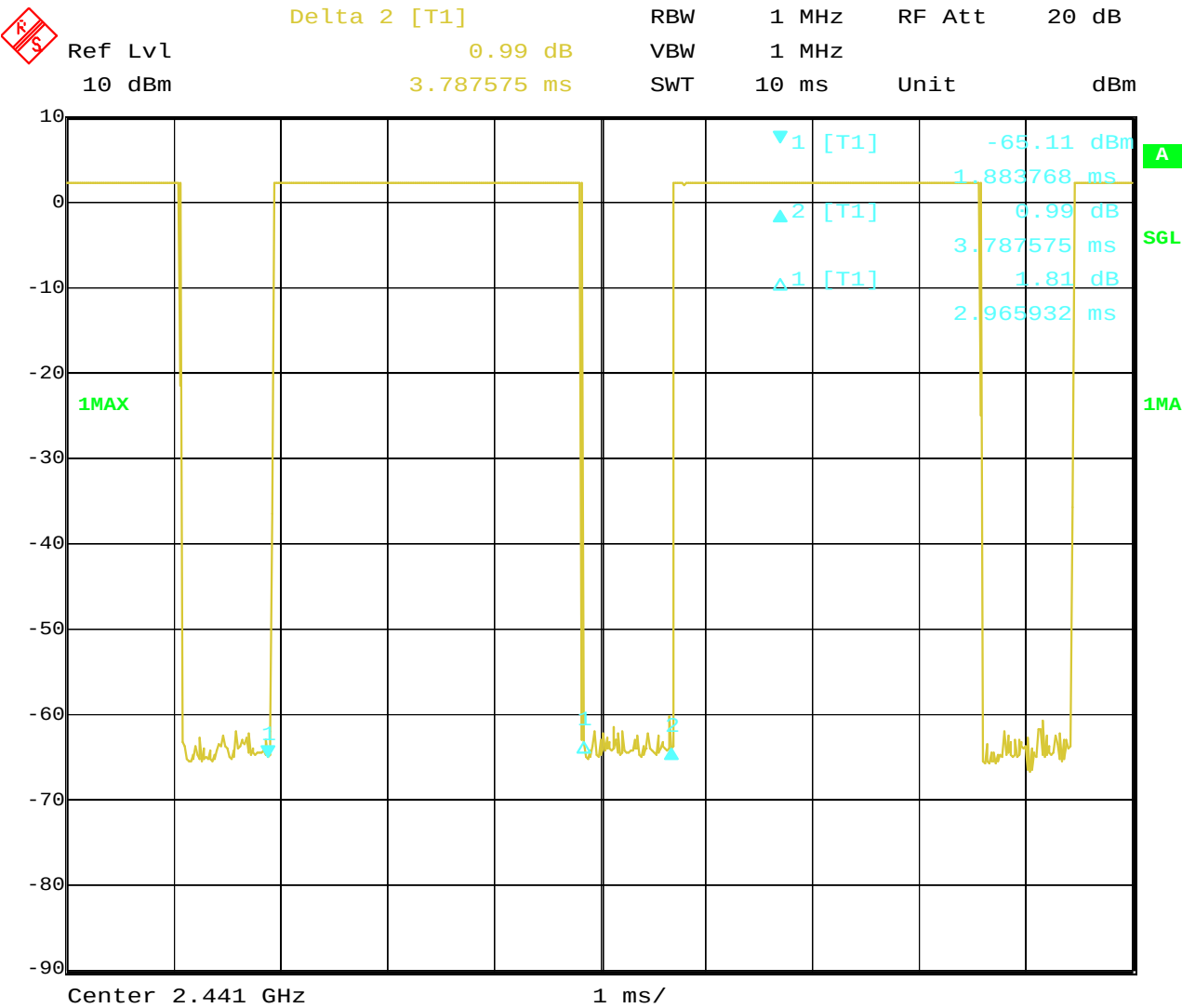
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Test Plots:

DH5



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Test Result

Type of Modulation: $\pi/4$ DQPSK

EUT		Rhya		Model		SG40	
Mode		Keep Transmitting		Input Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Reading		Hoping Rate			Actual	Limit
DH5							
Middle	2.946ms		266.667 hop/s			0.315s	0.4s

Actual = Reading $\times$ (Hopping rate / Number of channels) $\times$ Test period, Test period = 0.4 [seconds / channel] $\times$ 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625 μ s with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

Note: 2DH5 was the worst case.

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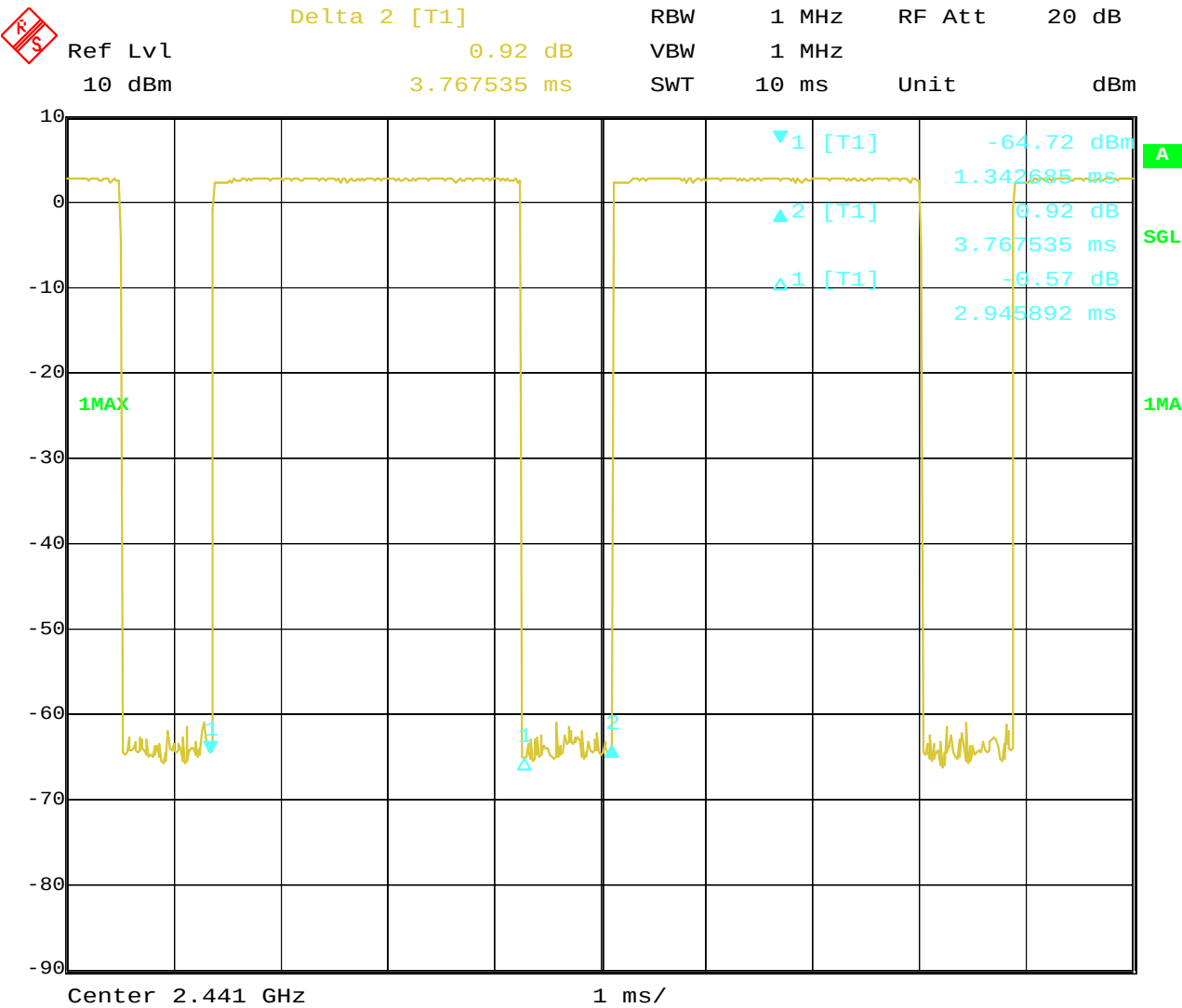
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Test Plots:

2DH5



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Type of Modulation: 8DPSK

EUT		Rhya		Model		SG40	
Mode		Keep Transmitting		Input Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Reading		Hoping Rate			Actual	Limit
DH5							
Middle	2.946ms		266.667 hop/s			0.315s	0.4s

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625μs with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

Note: 3DH5 was the worst case.

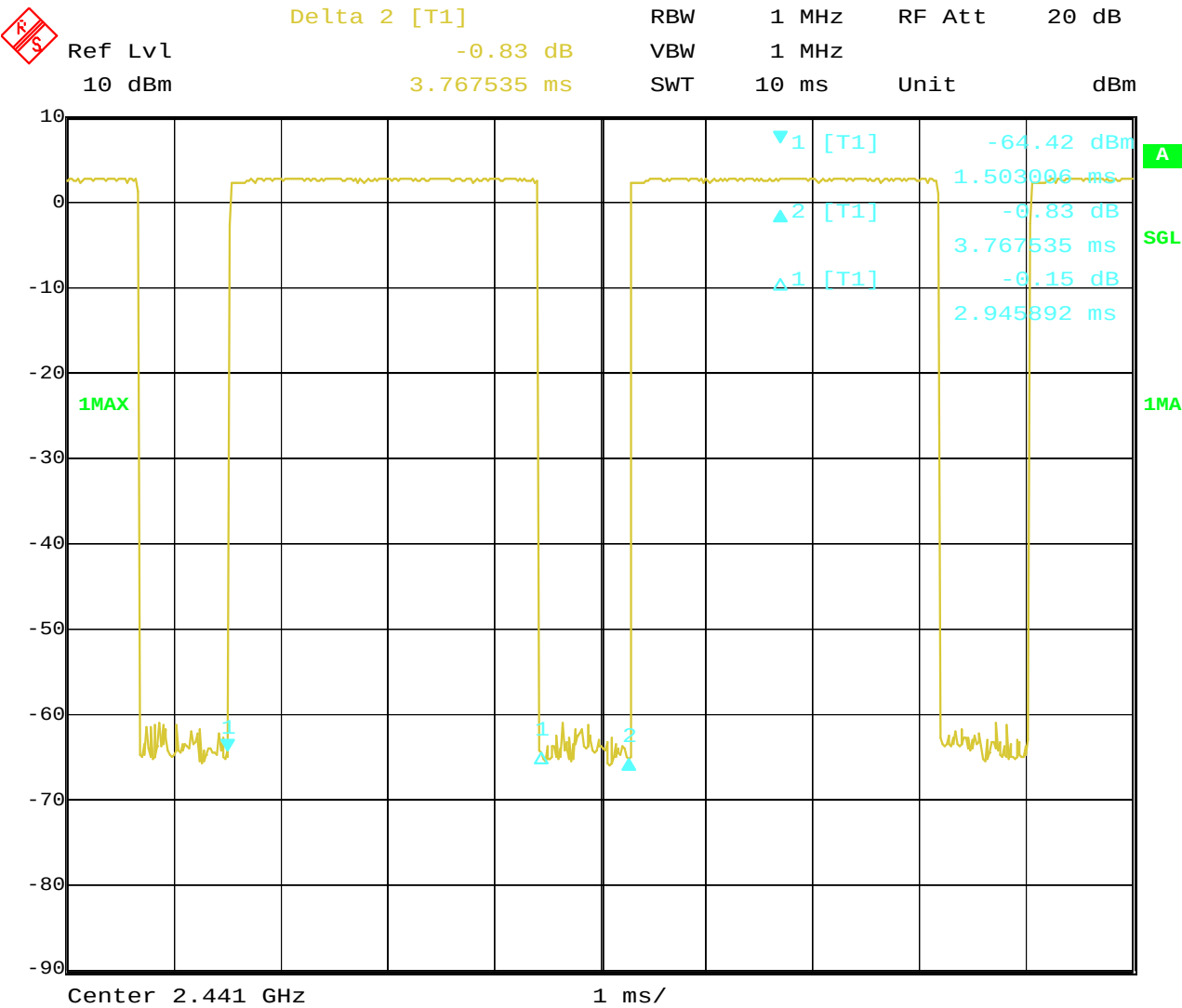
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Test Plots:
3DH5



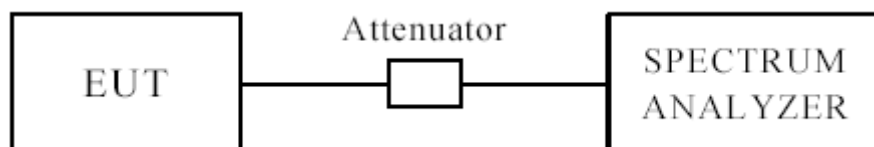
Date: 27.SEP.2020 13:10:24

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12 Out of Band Measurement

12.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

12.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

12.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. Peak values with $\text{RBW}=\text{VBW}=1\text{MHz}$ and PK detector.

For bandage test, the spectrum set as follows: $\text{RBW}=100\text{ kHz}$, $\text{VBW}=300\text{ kHz}$. A conducted measurement used

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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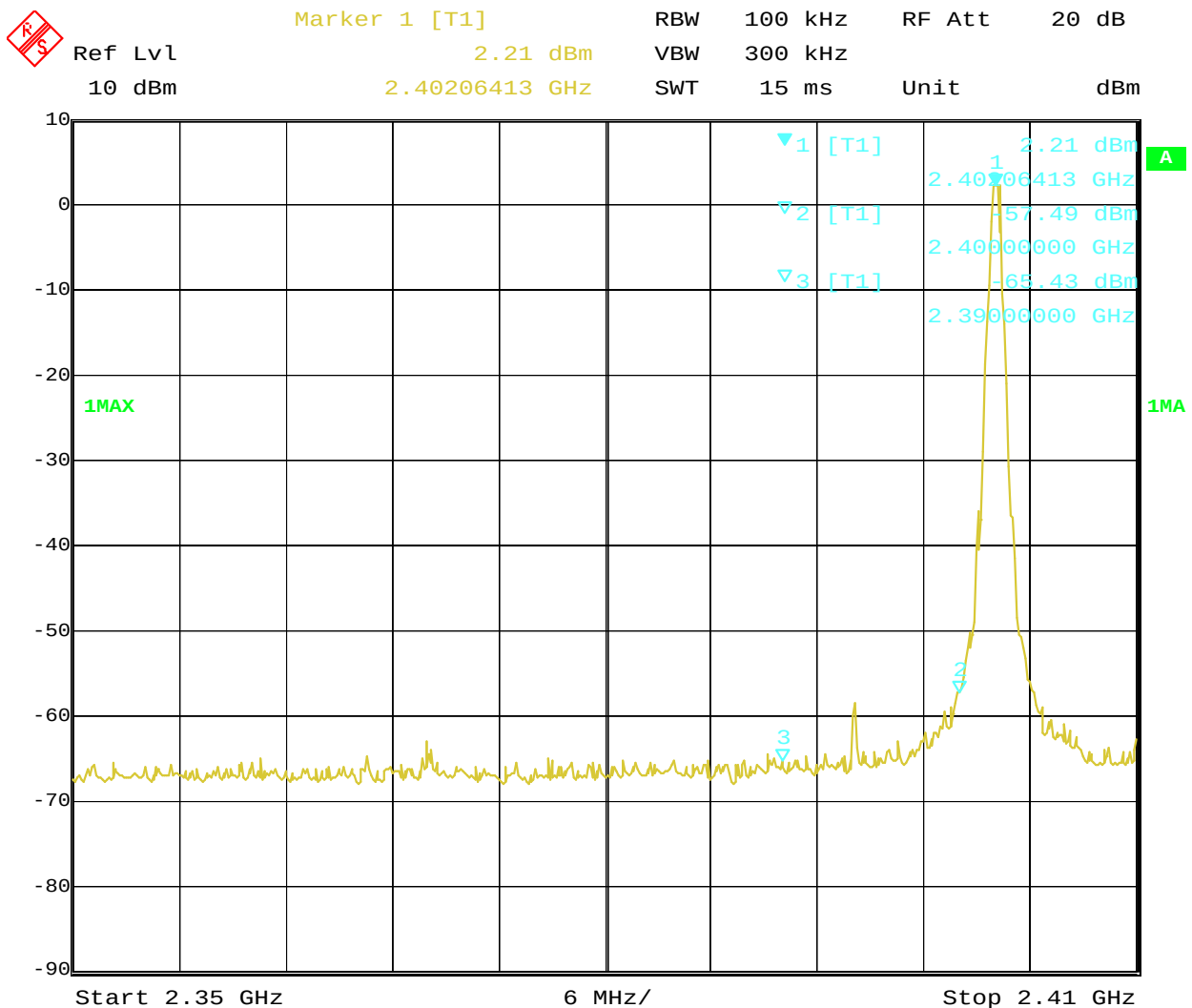


Type of Modulation: GFSK

12.4 Band Edge Test Result

Product:	Rhya	Test Mode:	Low Channel
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.SEP.2020 11:14:26

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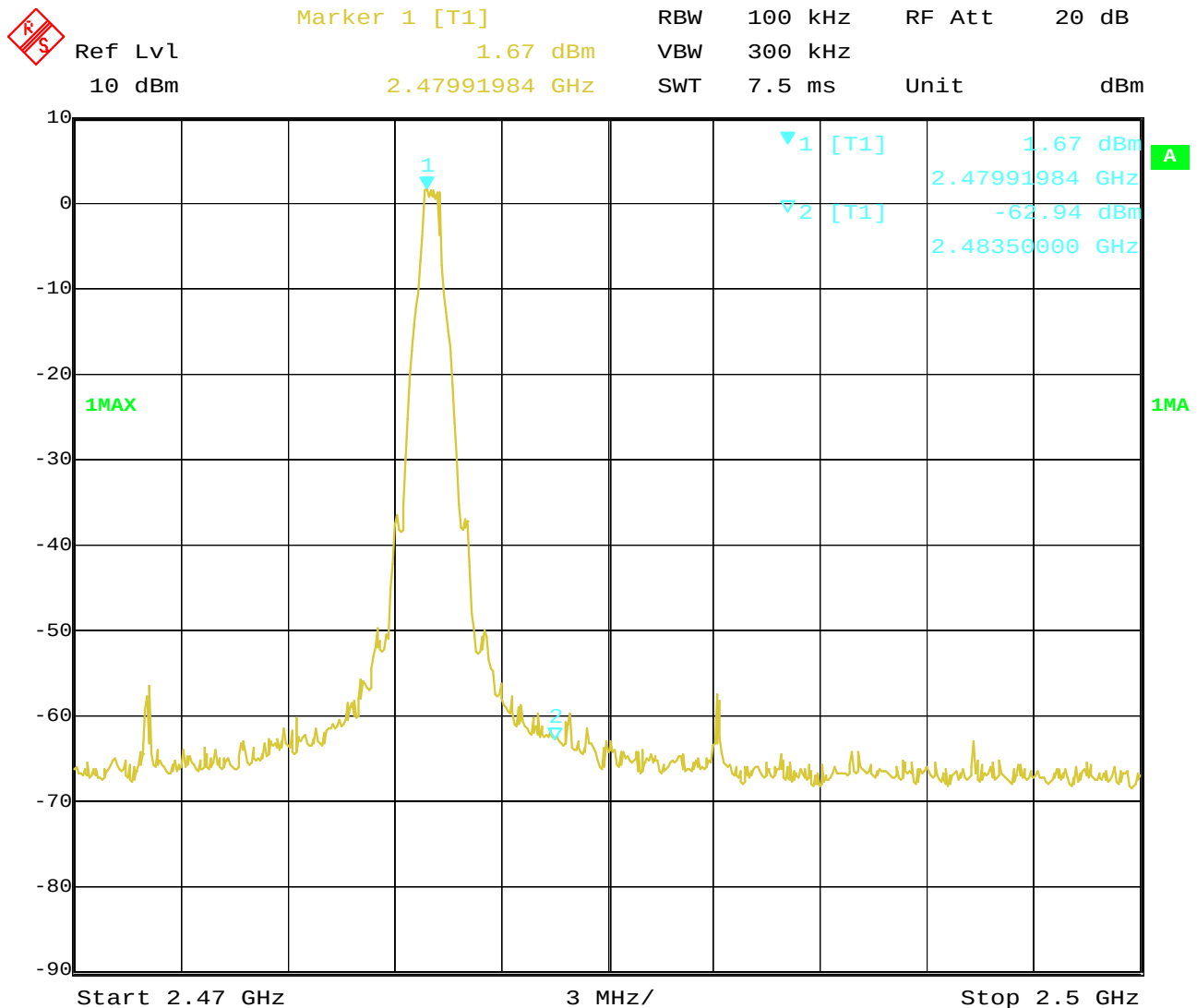


Type of Modulation: GFSK

12.4 Band Edge Test Result

Product:	Rhya	Test Mode:	High Channel
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.SEP.2020 11:04:22

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Product:	Rhya	Test Mode:	Hopping mode
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Ref Lvl 10 dBm
 Marker 1 [T1] 2.17 dBm
 2.40398798 GHz
 RBW 100 kHz
 VBW 300 kHz
 SWT 15 ms
 RF Att 20 dB
 Unit dBm

1MAX
 1MA
 1 [T1] 2.17 dBm
 2 [T1] -58.98 dBm
 3 [T1] -65.14 dBm
 4 [T1] -65.14 dBm
 2.40398798 GHz
 2.40000000 GHz
 2.39000000 GHz

Start 2.35 GHz
 6 MHz/
 Stop 2.41 GHz

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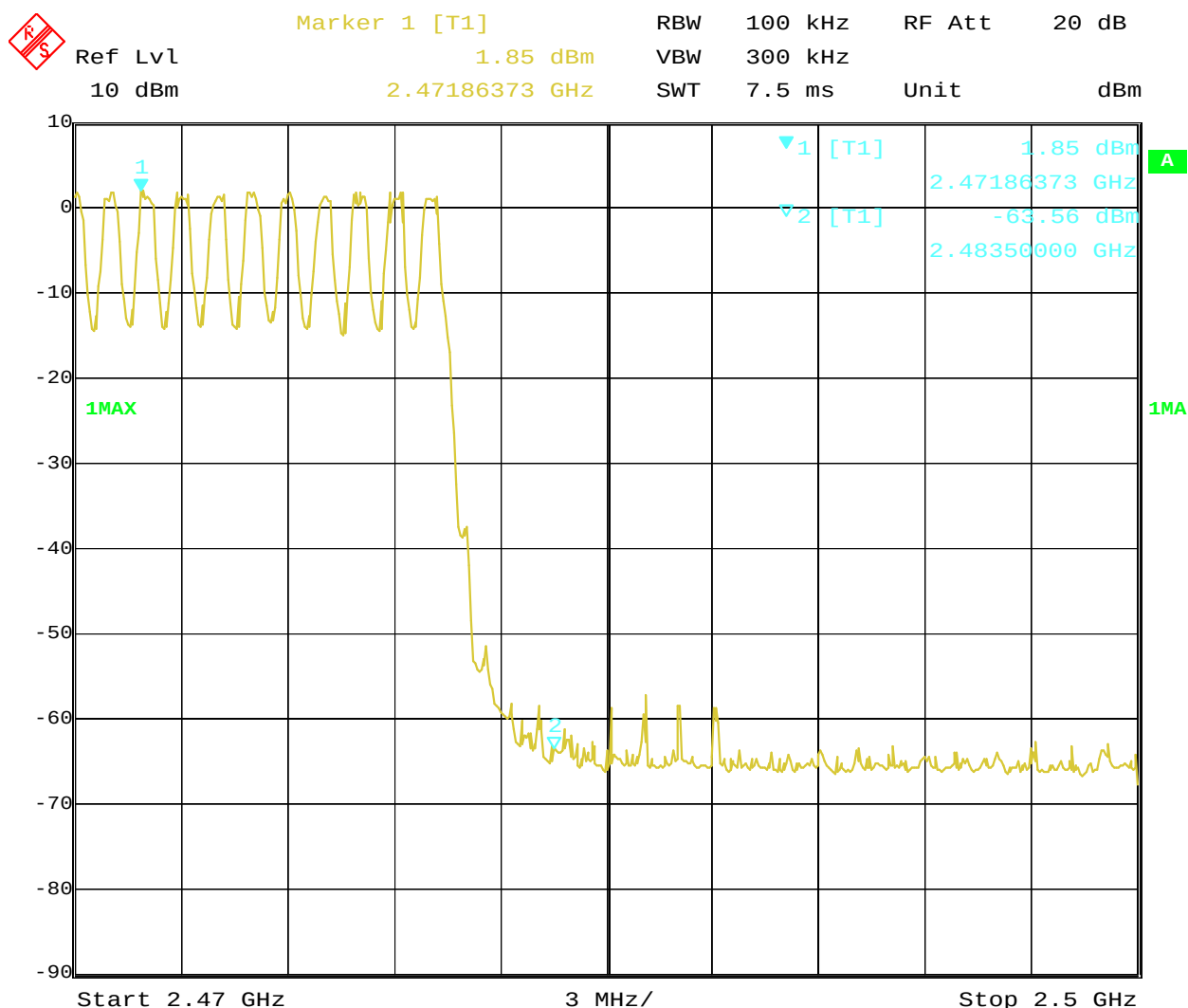


Type of Modulation: GFSK

12.4 Band Edge Test Result

Product:	Rhya	Test Mode:	Hopping mode
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.SEP.2020 10:58:56

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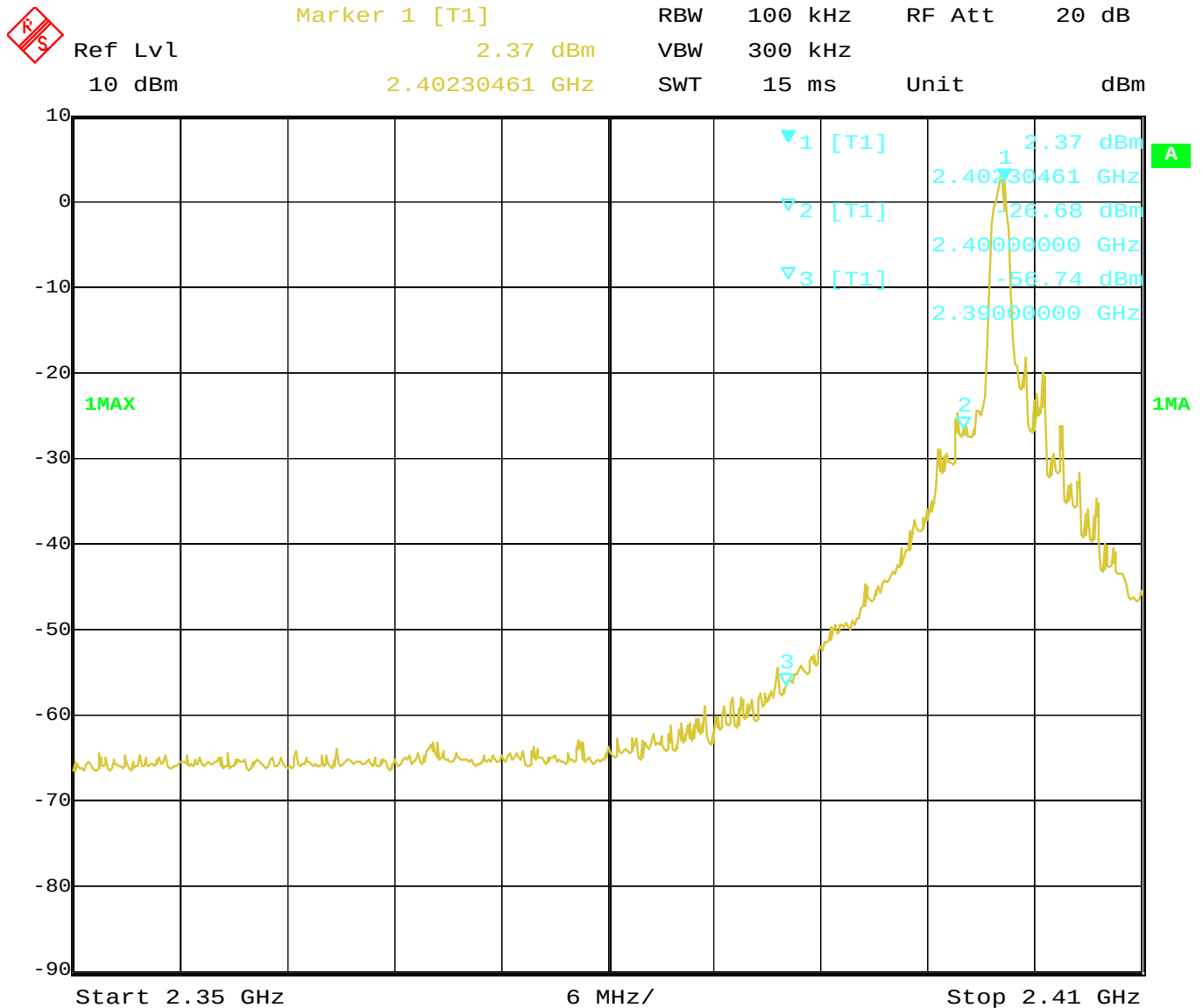


Type of Modulation: $\pi/4$ DQPSK

12.4 Out of Band Test Result

Product:	Rhya	Test Mode:	Low Channel
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.SEP.2020 11:18:28

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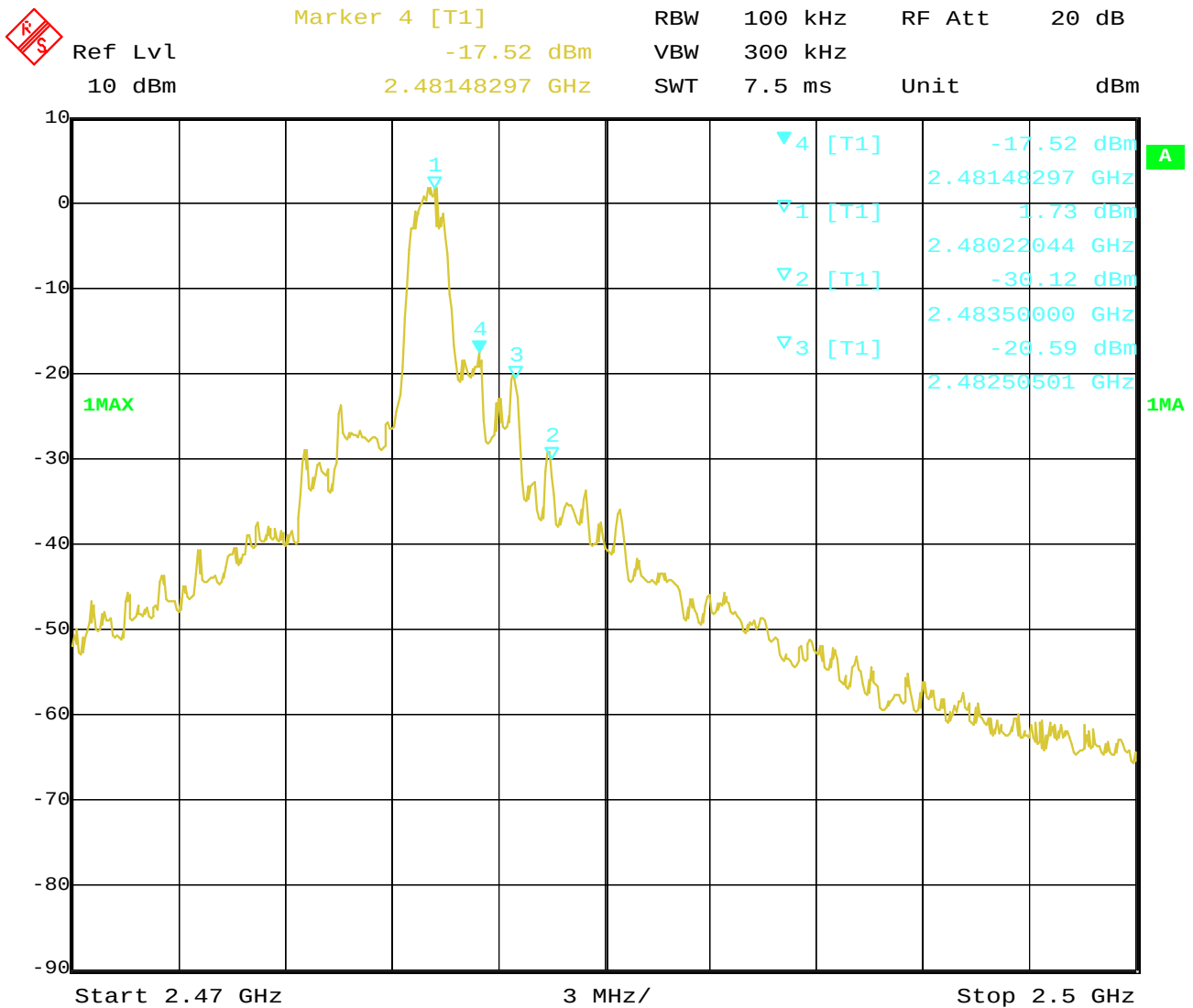


Type of Modulation: $\pi/4$ DQPSK

12.4 Band Edge Test Result

Product:	Rhya	Test Mode:	High Channel
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.SEP.2020 11:36:04

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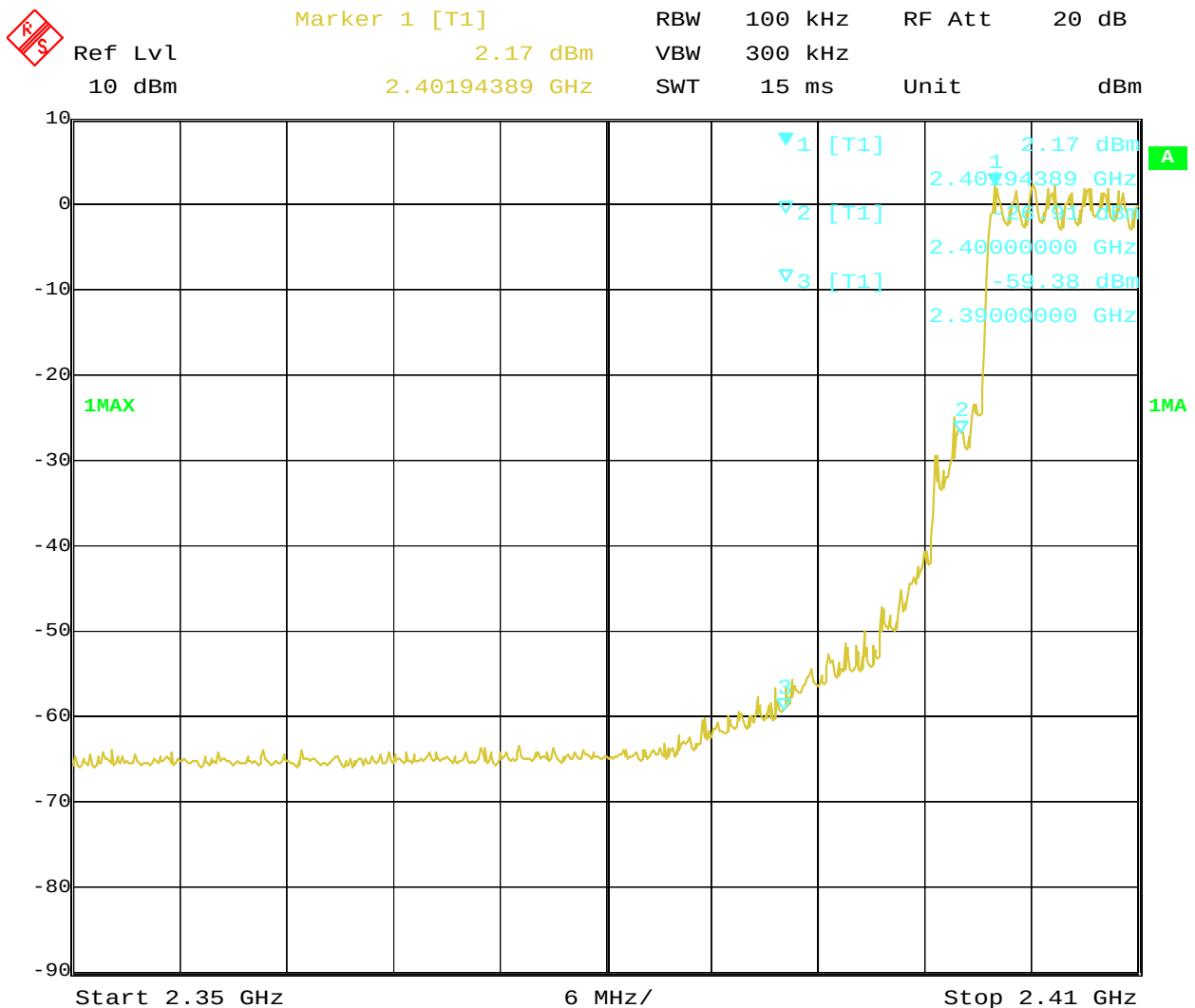


Type of Modulation: $\pi/4$ DQPSK

12.4 Out of Band Test Result

Product:	Rhya	Test Mode:	Hopping mode
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.SEP.2020 10:51:34

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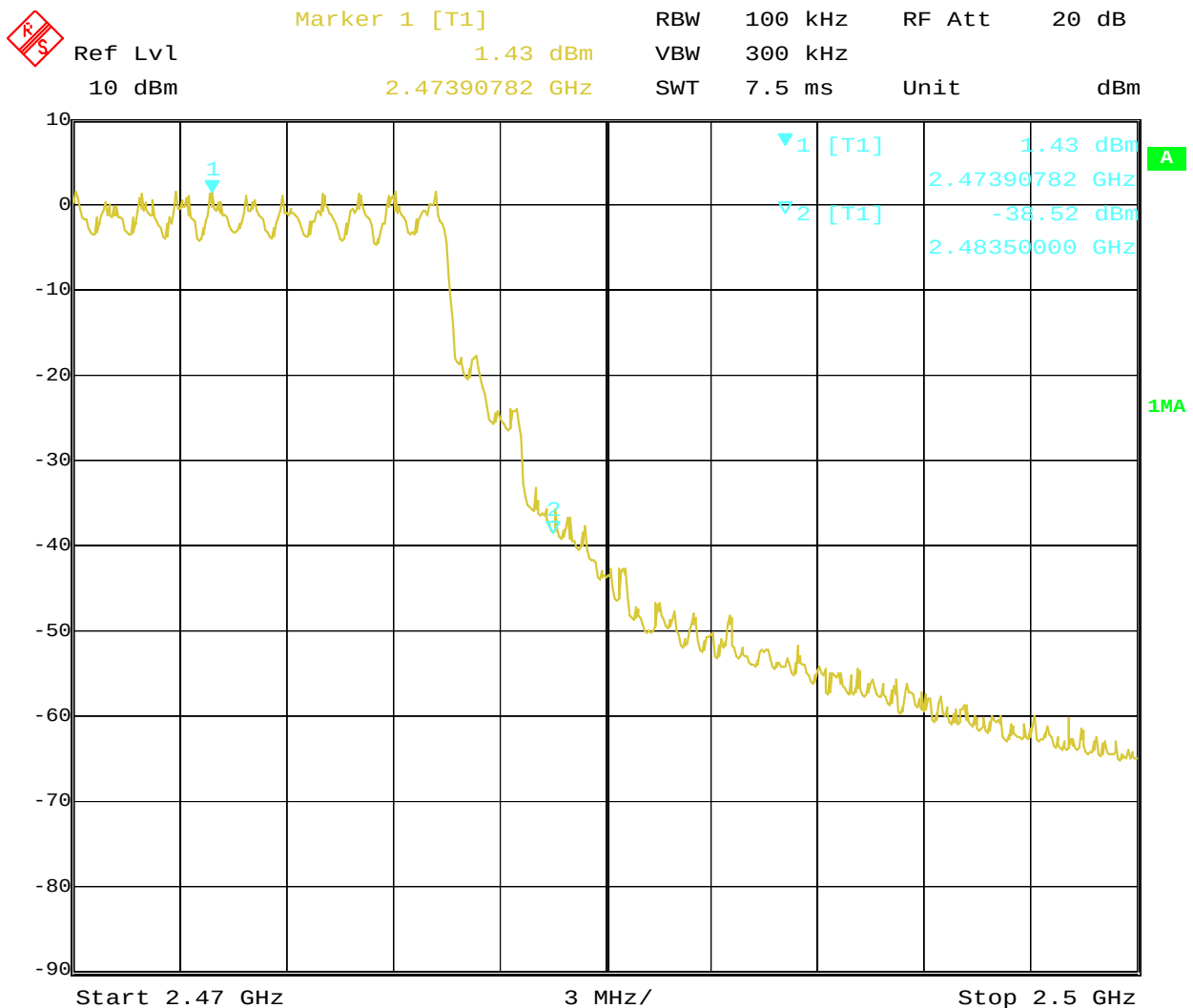


Type of Modulation: $\pi/4$ DQPSK

12.4 Out of Band Test Result

Product:	Rhya	Test Mode:	Hopping mode
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.SEP.2020 10:28:54

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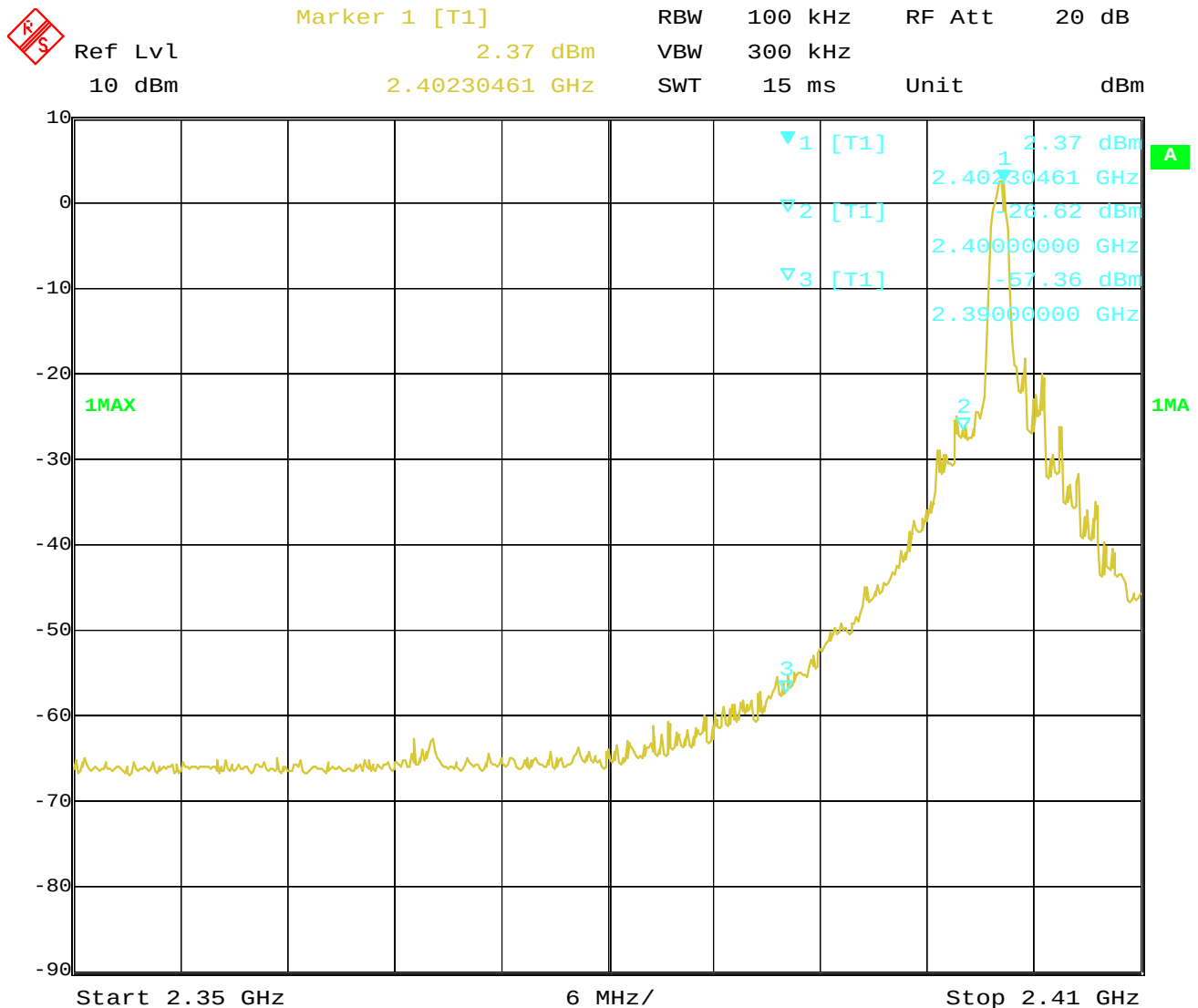


Type of Modulation: 8DPSK

12.4 Band Edge Test Result

Product:	Rhya	Test Mode:	Low Channel
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.SEP.2020 11:20:01

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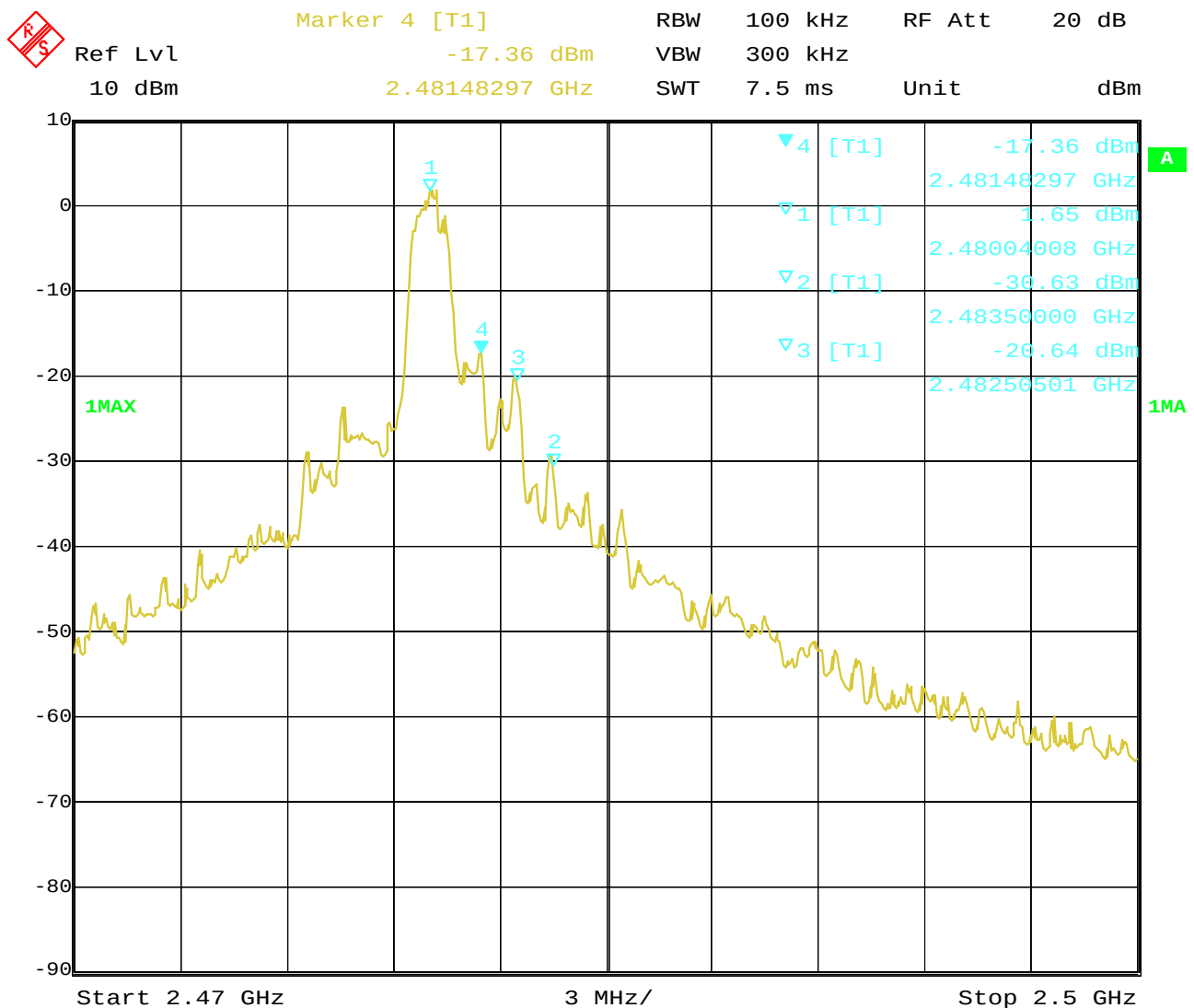


Type of Modulation: 8DPSK

12.4 Band Edge Test Result

Product:	Rhya	Test Mode:	High Channel
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.SEP.2020 11:36:39

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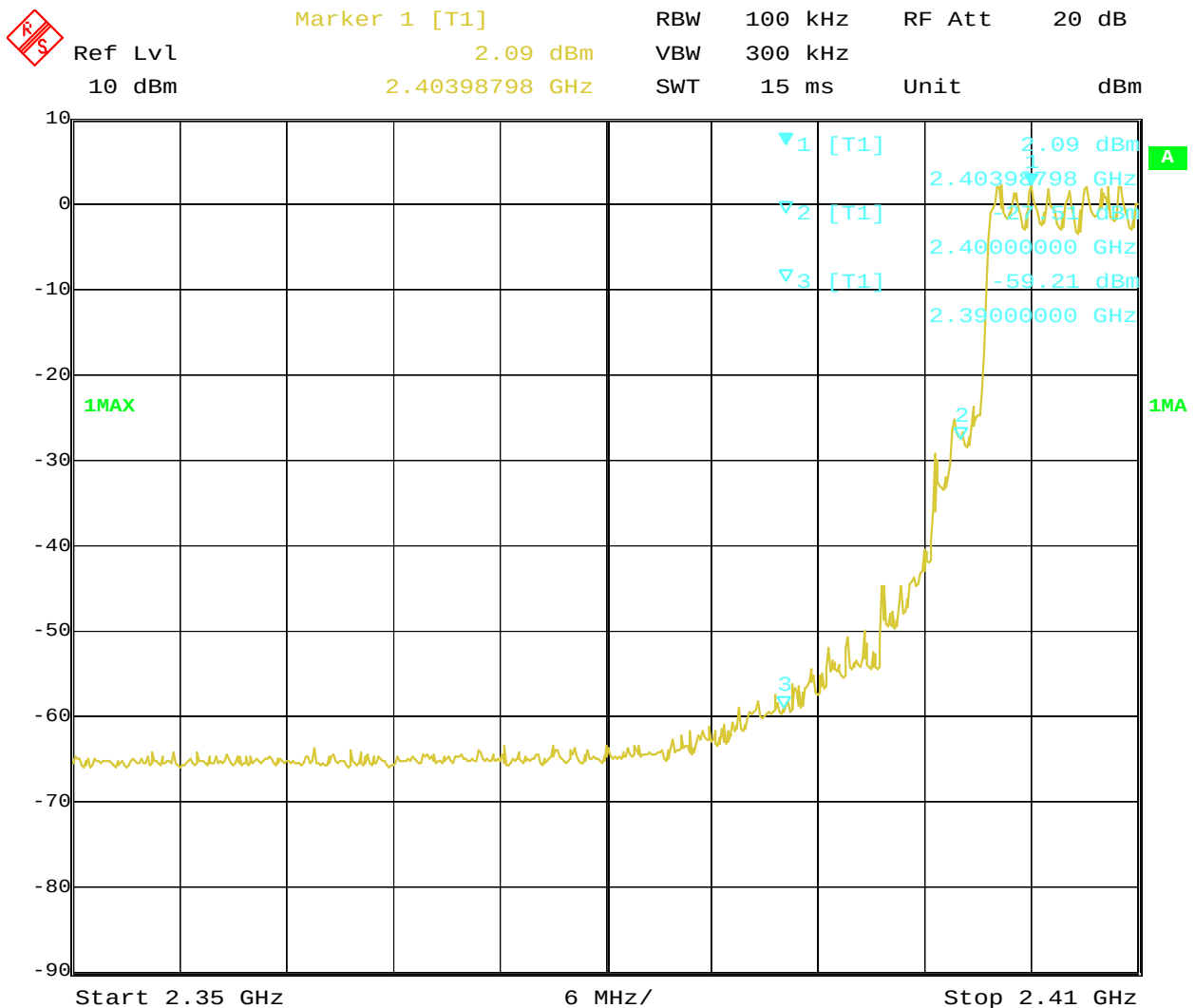


Type of Modulation: 8DPSK

12.4 Band Edge Test Result

Product:	Rhya	Test Mode:	Hopping mode
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.SEP.2020 10:42:59

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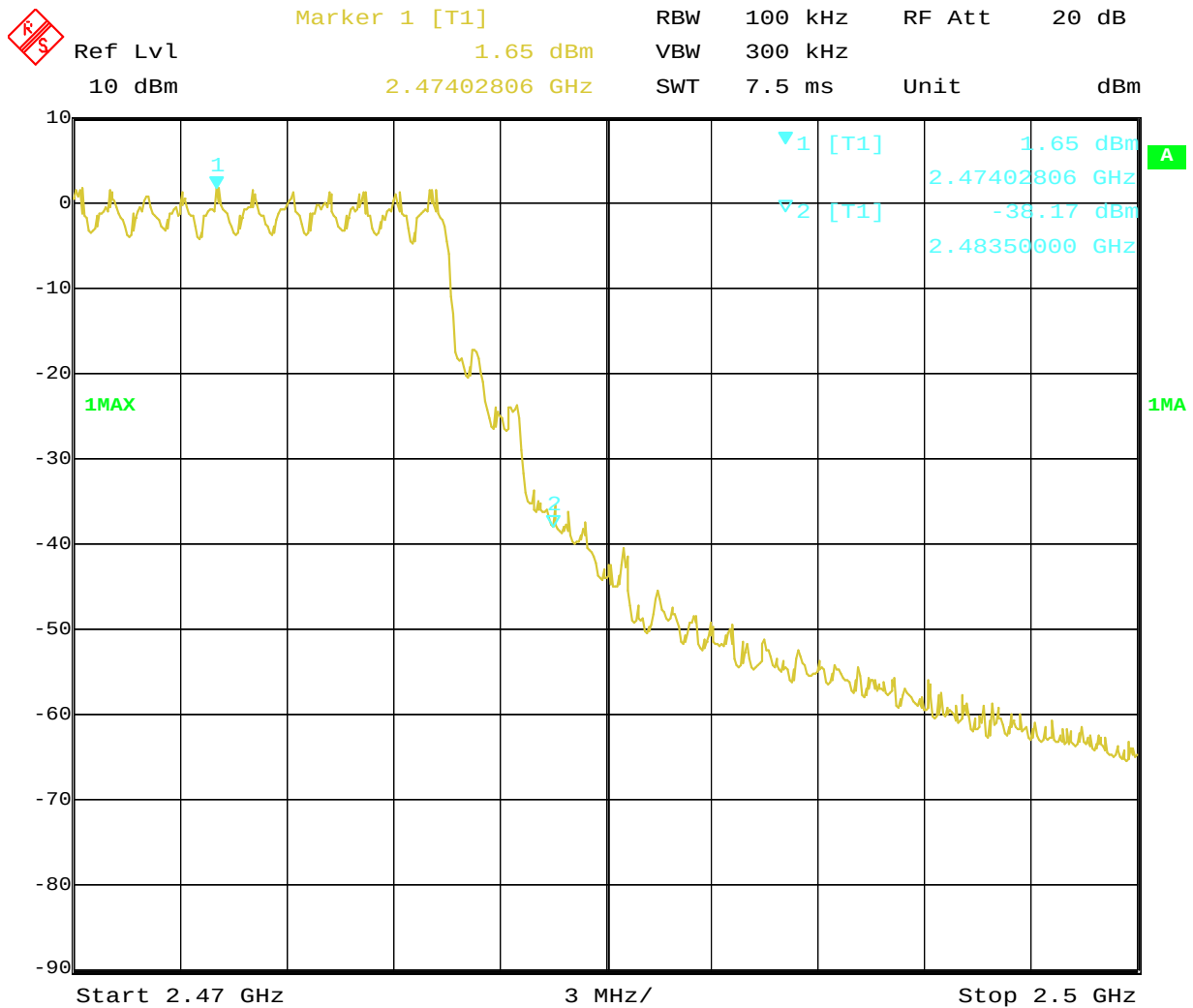


Type of Modulation: 8DPSK

12.4 Band Edge Test Result

Product:	Rhya	Test Mode:	Hopping mode
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.SEP.2020 10:35:02

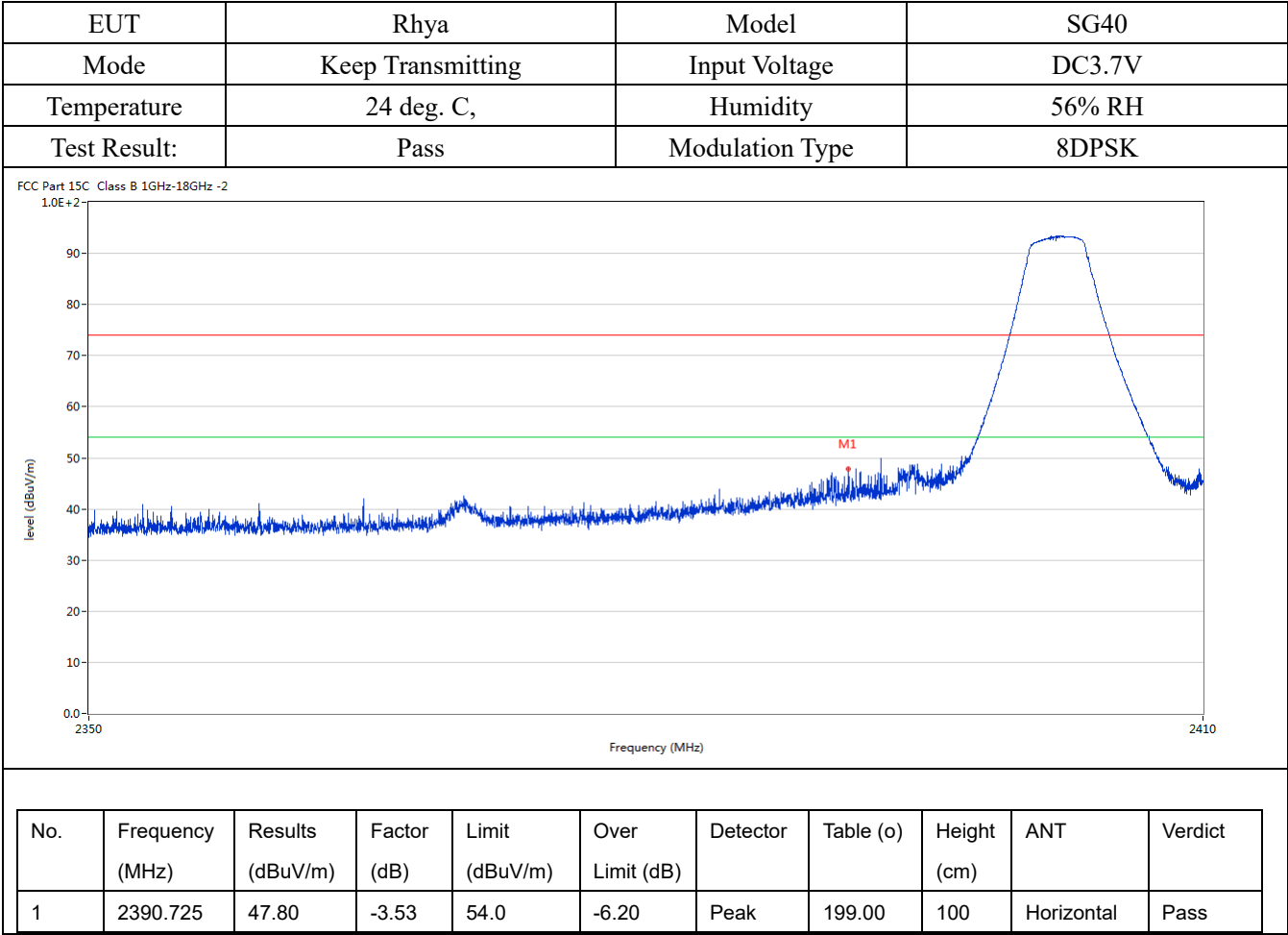
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12.4 Restrict Band Measurement



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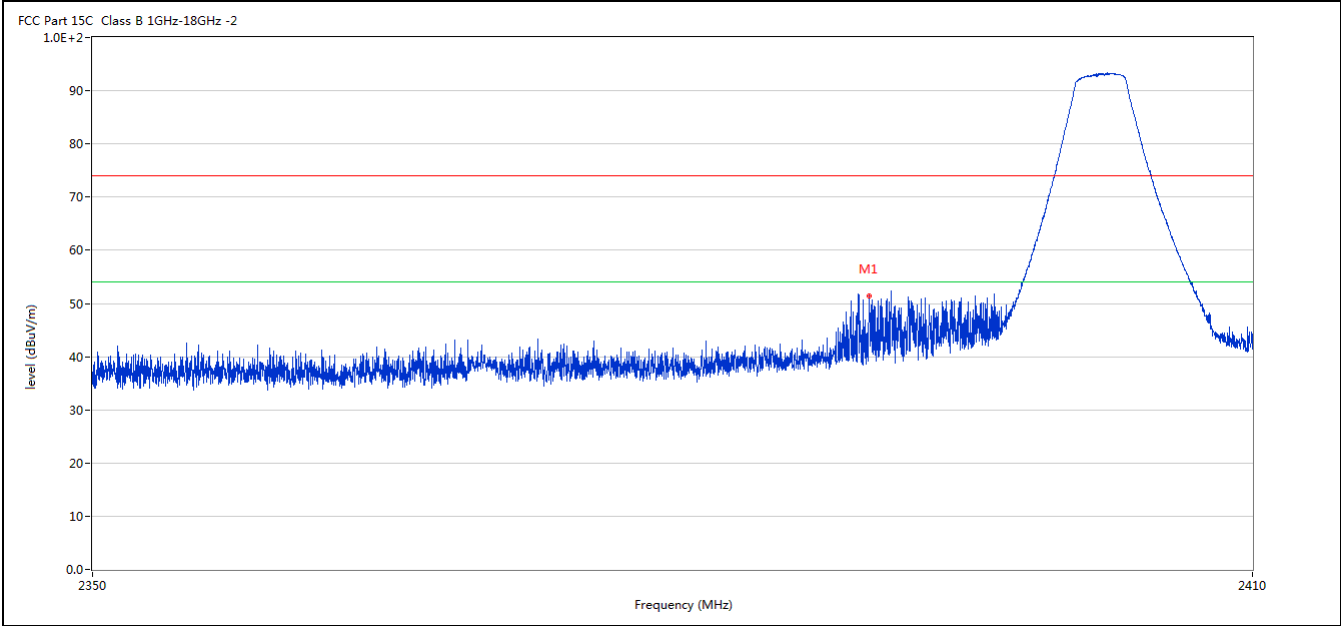
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12.4 Restrict Band Measurement

EUT	Rhya	Model	SG40
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Modulation Type	8DPSK



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2390.005	51.46	-3.53	54.0	-2.54	Peak	5.00	100	Vertical	Pass

The report refers only to the sample tested and does not apply to the bulk.

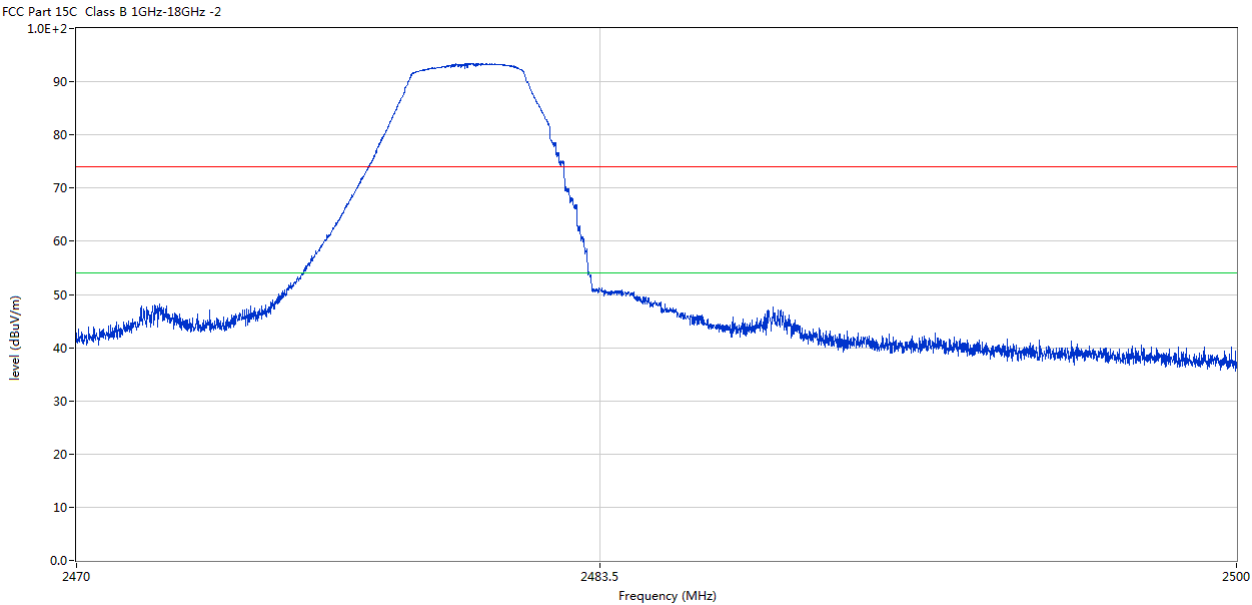
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12.4 Restrict Band Measurement

EUT	Rhya	Model	SG40
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Modulation Type	8DPSK



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2483.387	51.23	-3.57	54.0	-2.77	Peak	198.00	100	Horizontal	Pass

The report refers only to the sample tested and does not apply to the bulk.

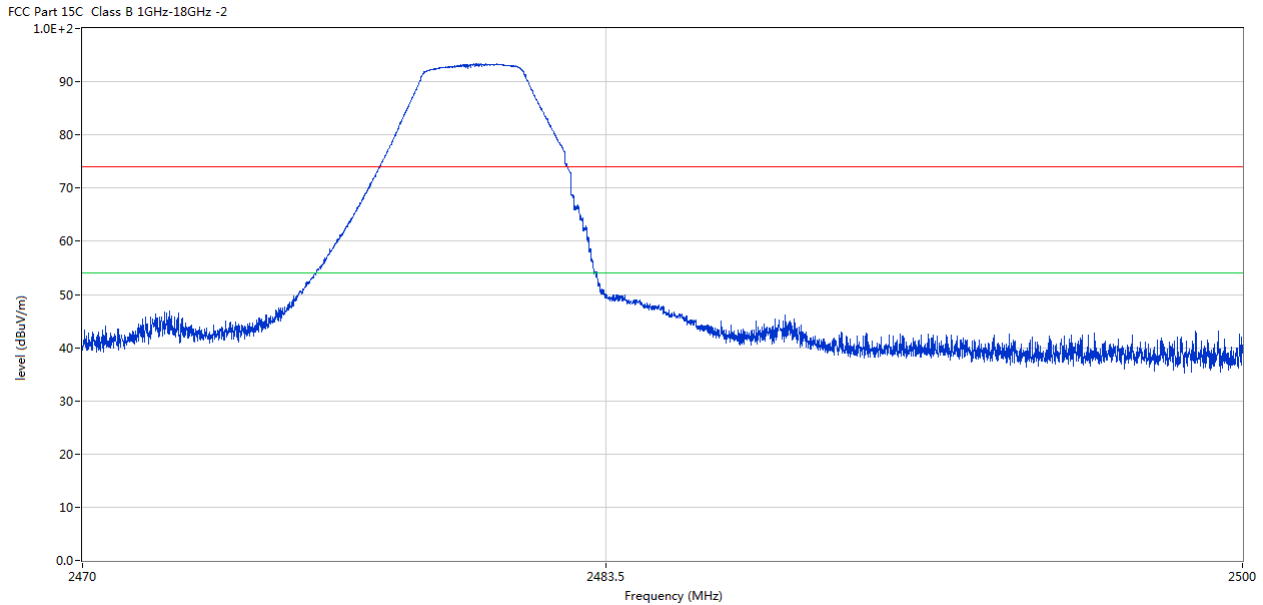
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12.4 Restrict Band Measurement

EUT	Rhya	Model	SG40
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Modulation Type	8DPSK



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2483.613	50.20	-3.57	54.0	-3.80	Peak	176.00	100	Vertical	Pass

Note: 1. For Restricted band test, All modulation mode was tested and only the worst case was reported. 8DPSK was the worst case.

2. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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13.0 Antenna Requirement

13.1 Standard Applicable

For intentional device, according to FCC 47 CFR 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.

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

13.2 Antenna Connected constructions

Ceramic antenna used. The gain of the antennas is 2.0dBi.

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14.0 FCC ID Label

FCC ID: 2AQAB-SG40

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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15.0 Photo of testing

Conducted Emission Test Setup:



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Radiated Emission Test Setup:



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Photographs – EUT

Outside View



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Outside View



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Inside view



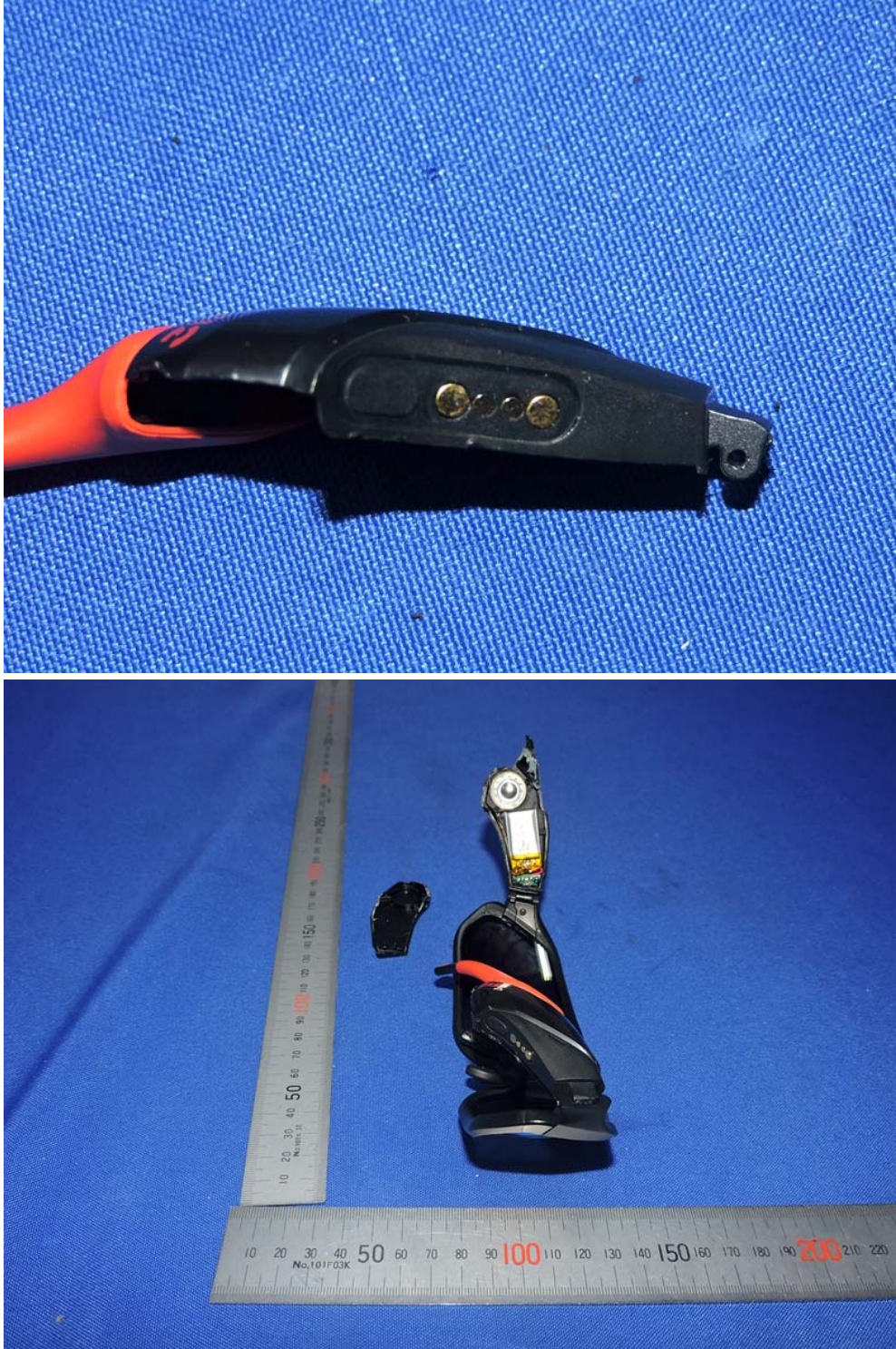
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Inside view



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Inside view



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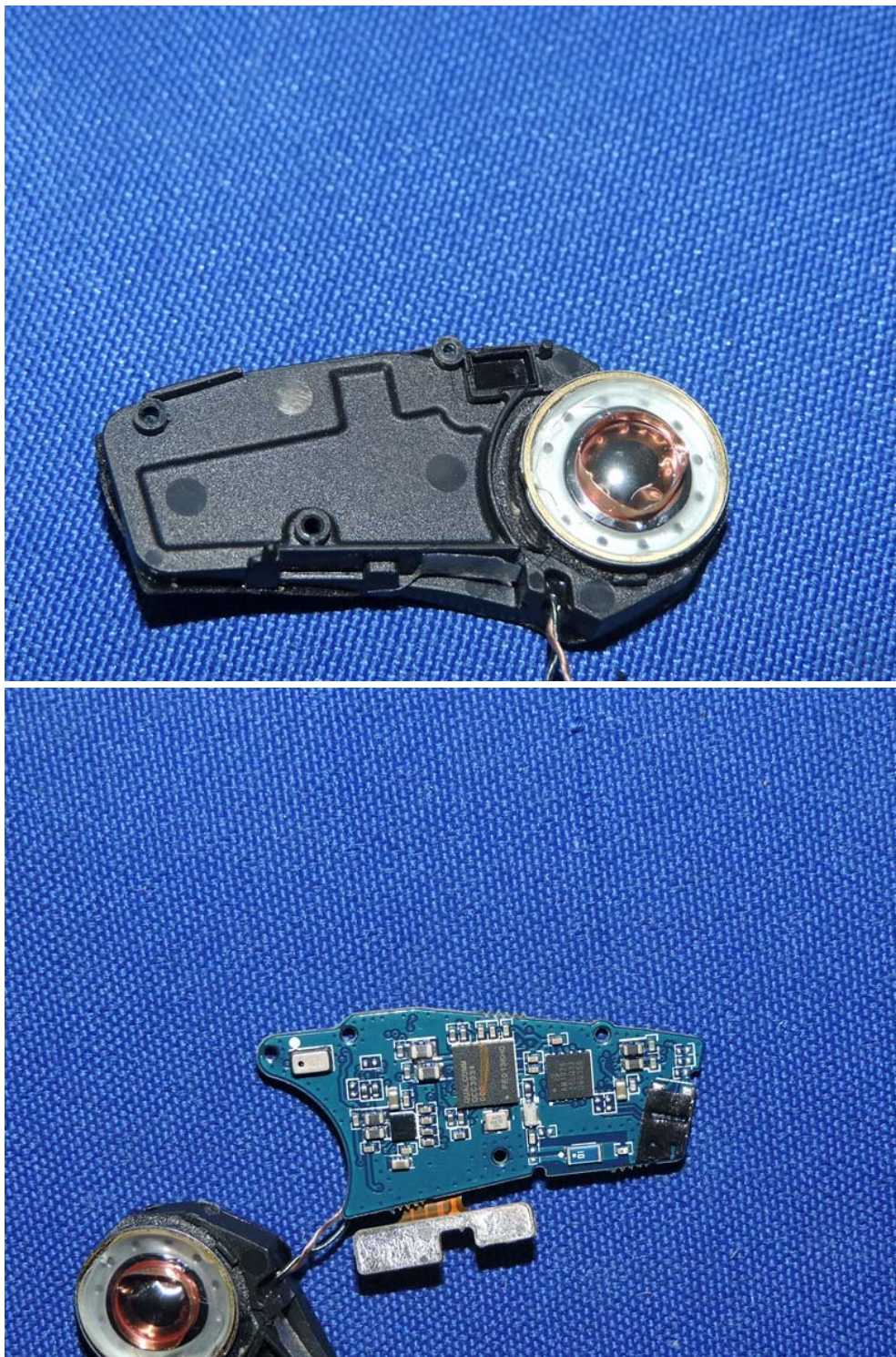
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Inside view



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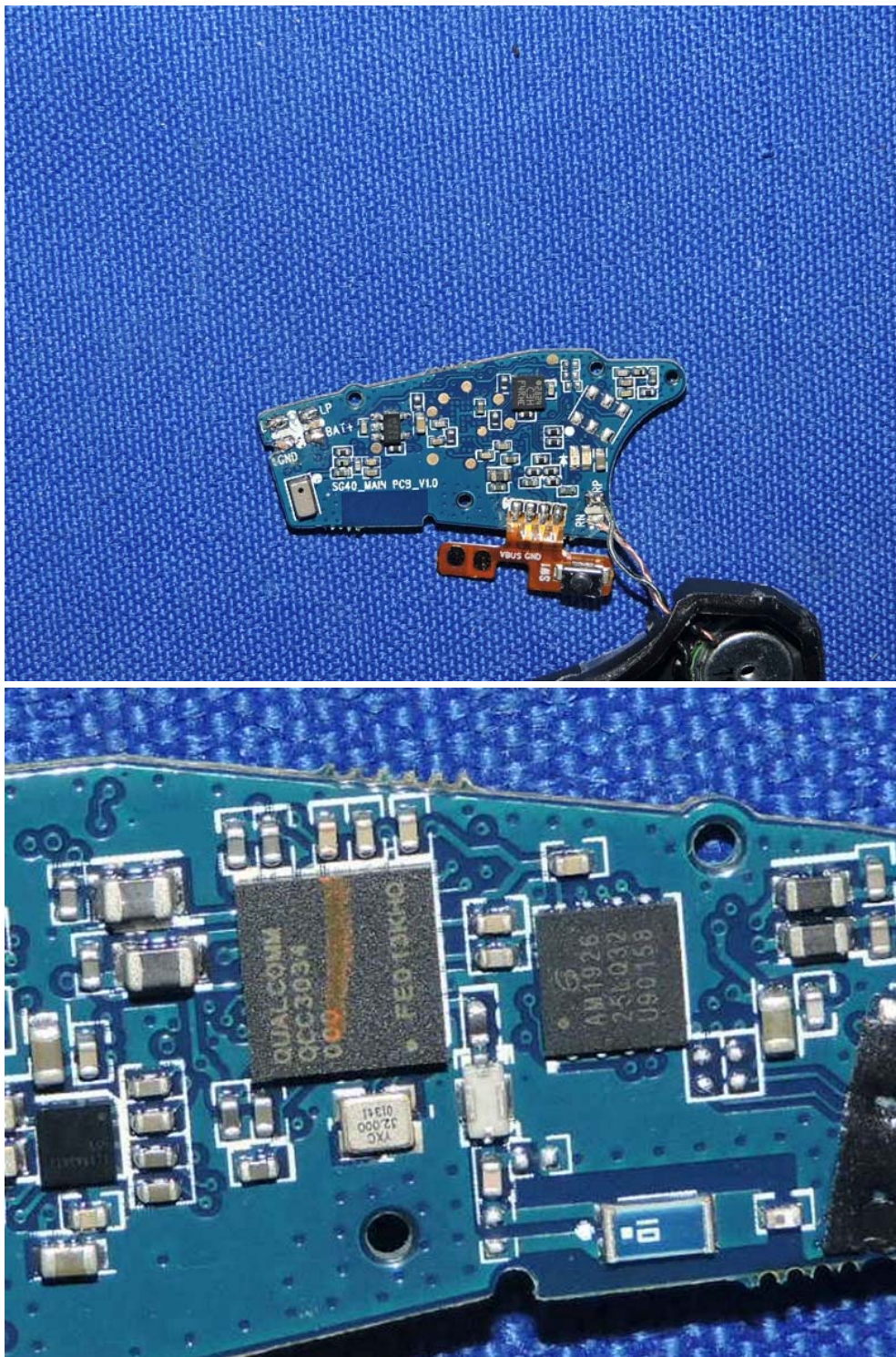
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Inside view



--End of Report--

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