

FCC TEST REPORT

FOR

Radiocontrolli SRL

Transceiver Module

Test Model: RC-SPIRIT2-915

Additional Model No.: RC-SPIRIT2-915-NA

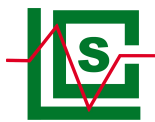
Prepared for : Radiocontrolli SRL
Address : Via Carditello 10 P.co Nuovo Villaggio 6, San Tammaro -CE, Italy

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,
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Date of receipt of test sample : March 07, 2023
Number of tested samples : 2
Sample No. : A030623002-1, A030623002-2
Serial number : Prototype
Date of Test : March 07, 2023 ~ March 29, 2023
Date of Report : March 30, 2023



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FCC TEST REPORT	
FCC CFR 47 PART 15 C (15.249)	
Report Reference No.	: LCSA030623002EA
Date of Issue.....	: March 30, 2023
Testing Laboratory Name.....	: Shenzhen LCS Compliance Testing Laboratory Ltd..
Address.....	: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Testing Location/ Procedure.....	: Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □
Applicant's Name.....	: Radiocontrolli SRL
Address.....	: Via Carditello 10 P.co Nuovo Villaggio 6, San Tammaro -CE, Italy
Test Specification	
Standard.....	: FCC CFR 47 PART 15 C(15.249) / ANSI C63.10: 2013
Test Report Form No.....	: LCSEMC-1.0
TRF Originator.....	: Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF.....	: Dated 2011-03
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Test Item Description..... : Transceiver Module	
Trade Mark.....	: Radiocontrolli
Test Model.....	: RC-SPIRIT2-915
Ratings.....	: DC 3.3V
Result	: Positive

Compiled by:

Diamond Lu/ Administrator

Supervised by:

Cary Luo/ Technique principal

Approved by:

Gavin Liang/ Manager

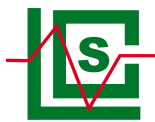


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**FCC -- TEST REPORT**

Test Report No. :	LCSA030623002EA	<u>March 30, 2023</u> Date of issue
--------------------------	------------------------	--

Test Model..... : RC-SPIRIT2-915

EUT..... : Transceiver Module

Applicant..... : Radiocontrolli SRL

Address..... : Via Carditello 10 P.co Nuovo Villaggio 6, San Tammaro -CE, Italy

Telephone..... : /

Fax..... : /

Manufacturer..... : Beijing Jia An Electronics Technology Co., Ltd.

Address..... : Rm1002, FL.10, B China Railway Bldg, No.28 Pingguoyuan Rd,
Shijingshan Dist., Beijing, 100041, China

Telephone..... : /

Fax..... : /

Factory..... : Beijing Jia An Electronics Technology Co., Ltd.

Address..... : Rm1002, FL.10, B China Railway Bldg, No.28 Pingguoyuan Rd,
Shijingshan Dist., Beijing, 100041, China

Telephone..... : /

Fax..... : /

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

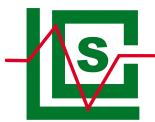


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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	March 30, 2023	Initial Issue	---



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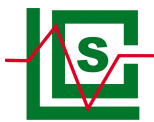


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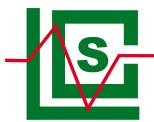


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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT : Transceiver Module

Test Model : RC-SPIRIT2-915

Additional Model No.: : RC-SPIRIT2-915-NA

Model Declaration : PCB board, structure and internal of these model(s) are the same, So no additional models were tested

Power Supply : DC 3.3V

Hardware Version : /

Software Version : /

RFID :

Frequency Range : 905MHz-925MHz

Channel Number : 41 channels

Channel Spacing : 500KHz

Modulation Type : 2-FSK, 4-FSK, 2-GFSK1, 2-GFSK05, 4-GFSK1, 4-GFSK05, OOK, ASK

Antenna Description : External antenna ANT-916-CW-QW by LINX, 1.8dBi(Max.)

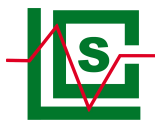


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1.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
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1.3. External I/O

I/O Port Description	Quantity	Cable
---	---	---

1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. Statement of the measurement uncertainty

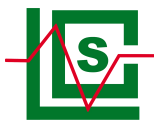
The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Radiation Uncertainty	9KHz~30MHz	±3.10dB	(1)
	30MHz~200MHz	±2.96dB	(1)
	200MHz~1000MHz	±3.10dB	(1)
	1GHz~26.5GHz	±3.80dB	(1)
	26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	150kHz~30MHz	±1.63dB	(1)
Power disturbance	30MHz~300MHz	±1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.





1.7. Description of Test Modes

The system was configured for testing in engineering mode, which was provided by manufacturer.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was determined to be TX (4-GFSK1 Middle Channel).

Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/60Hz, recorded worst case.

The device employs 41 channels:

Channel	Frequency(MHz)	Channel	Frequency(MHz)
00	905.0	21	915.5
01	905.5	22	916.0
02	906.0	23	916.5
03	906.5	24	917.0
04	907.0	25	917.5
05	907.5	26	918.0
06	908.0	27	918.5
07	908.5	28	919.0
08	909.0	29	919.5
09	909.5	3	920.0
10	910.0	31	920.5
11	910.5	32	921.0
12	911.0	33	921.5
13	911.5	34	922.0
14	912.0	35	922.5
15	912.5	36	923.0
16	913.0	37	923.5
17	913.5	38	924.0
18	914.0	39	924.5
19	915.0	40	925.0
20	915.5	---	---

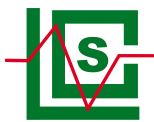


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Test frequency and Modulation

Channel	Modulation	Frequency(MHz)	Power Level Setting	data rate
00(LCH)	2-FSK	905.0	8	Default
19(MCH)	2-FSK	915.0	8	Default
40(HCH)	2-FSK	925.0	8	Default

Channel	Modulation	Frequency(MHz)	Power Level Setting	data rate
00(LCH)	4-FSK	905.0	8	Default
19(MCH)	4-FSK	915.0	8	Default
40(HCH)	4-FSK	925.0	8	Default

Channel	Modulation	Frequency(MHz)	Power Level Setting	data rate
00(LCH)	2-GFSK1	905.0	8	Default
19(MCH)	2-GFSK1	915.0	8	Default
40(HCH)	2-GFSK1	925.0	8	Default

Channel	Modulation	Frequency(MHz)	Power Level Setting	data rate
00(LCH)	2-GFSK05	905.0	8	Default
19(MCH)	2-GFSK05	915.0	8	Default
40(HCH)	2-GFSK05	925.0	8	Default

Channel	Modulation	Frequency(MHz)	Power Level Setting	data rate
00(LCH)	4-GFSK1	905.0	8	Default
19(MCH)	4-GFSK1	915.0	8	Default
40(HCH)	4-GFSK1	925.0	8	Default

Channel	Modulation	Frequency(MHz)	Power Level Setting	data rate
00(LCH)	4-GFSK05	905.0	8	Default
19(MCH)	4-GFSK05	915.0	8	Default
40(HCH)	4-GFSK05	925.0	8	Default

Channel	Modulation	Frequency(MHz)	Power Level Setting	data rate
00(LCH)	OOK	905.0	8	Default
19(MCH)	OOK	915.0	8	Default
40(HCH)	OOK	925.0	8	Default

Channel	Modulation	Frequency(MHz)	Power Level Setting	data rate
00(LCH)	ASK	905.0	8	Default
19(MCH)	ASK	915.0	8	Default
40(HCH)	ASK	925.0	8	Default

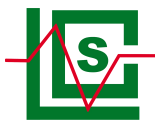


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2. TEST METHODOLOGY

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

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.249 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

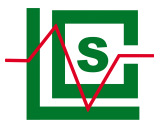
The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above ground plane above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013.

2.4. Test Sample

The application provides 2 samples to meet requirement;

Sample Number	Description
Sample 1(A030623002-1)	Engineer sample – continuous transmit
Sample 2(A030623002-2)	Normal sample – Intermittent transmit





3. CONNECTION DIAGRAM OF TEST SYSTEM

3.1. Justification

The system was configured for testing in a continuous transmit condition. Continuous transmitting was pre-programmed. It'll keep transmitting with modulated signal at the lowest channel by installing the batter. When press the "up" button, it'll move to the next channel. Repeat press "up" button, it'll transmitting at each of the channel used.

3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software(S2-LP DK-Setup-1.2.1.exe) provided by applicant.

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

Please refer to the related document

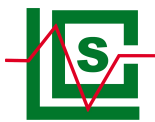
3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.



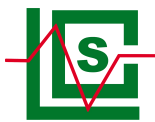


4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart C §15.249		
FCC Rules	Description Of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	Power Line Conducted Emissions	Compliant
§15.205(a), §15.209(a), §15.249(a), §15.249(c)	Radiated Emissions Measurement	Compliant
§15.249 (d)	Band Edges Measurement	Compliant
§2.1049	99% and 20 dB Bandwidth	Compliant



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5. ANTENNA REQUIREMENT

5.1. Standard Applicable

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

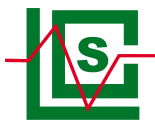
5.2. Antenna Connected Construction

The EUT use External Antenna(UFL Antenna) and maximum antenna gain is 1.8dBi, antenna cannot replacement, meets FCC Part §15.203 antenna requirement. Please see EUT photo for details.

5.3. Results

Compliance





6. POWER LINE CONDUCTED EMISSIONS

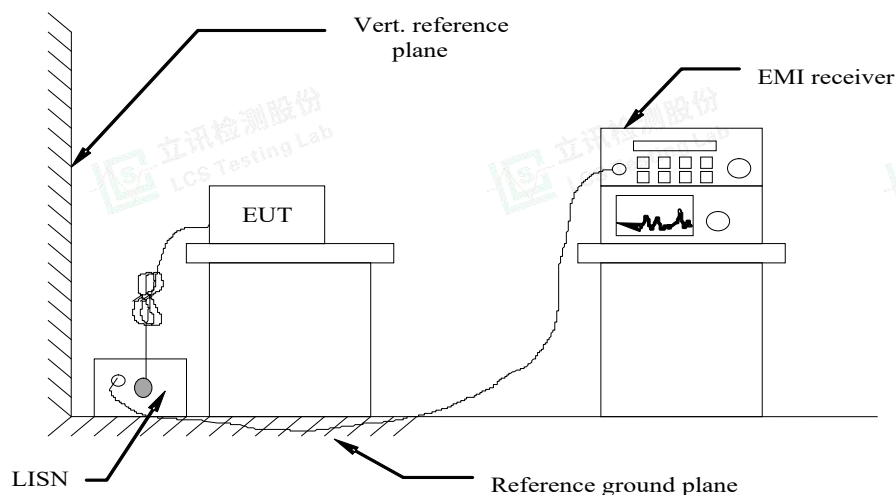
6.1. Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

* Decreasing linearly with the logarithm of the frequency

6.2. Block Diagram of Test Setup



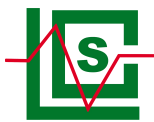
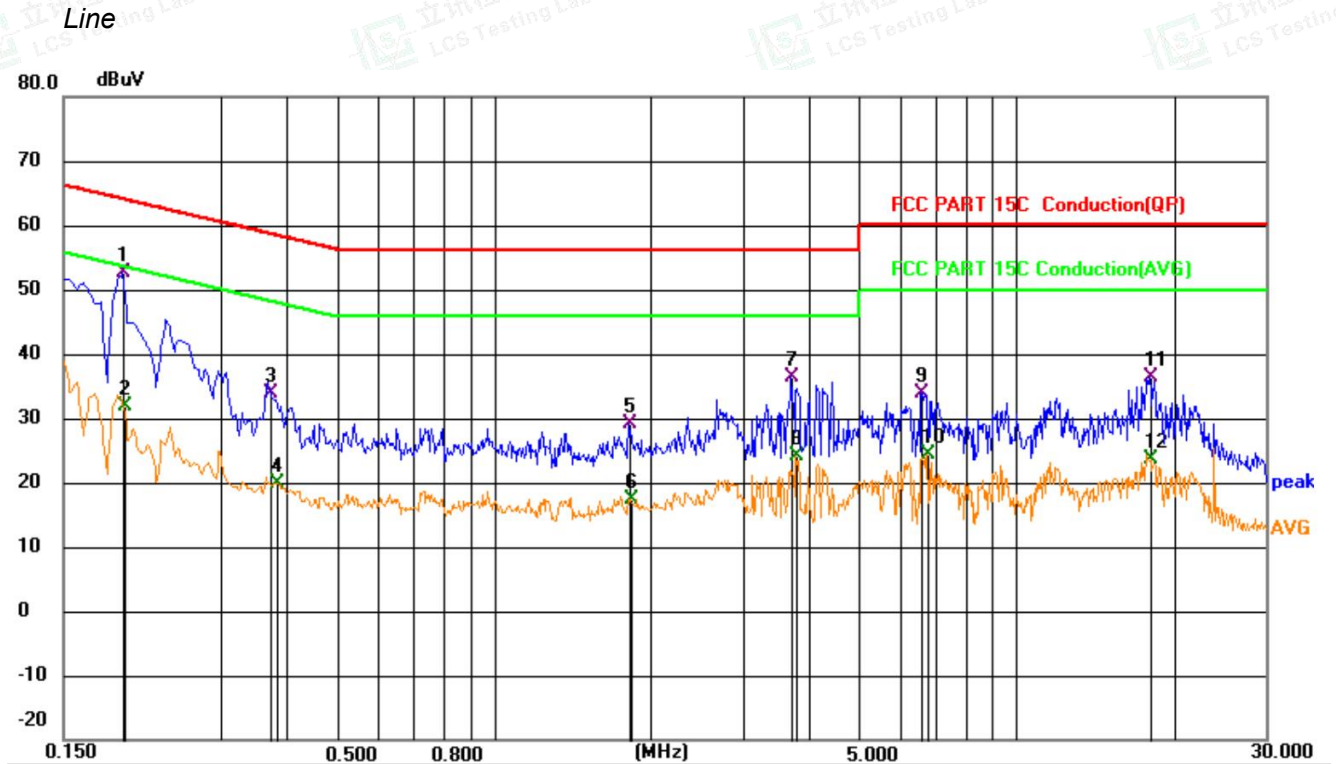
6.3. Test Results

PASS.

The test data please refer to following page.

Temperature	24.3℃	Humidity	53.5%
Test Engineer	Mening Su		



**AC Conducted Emission of Adapter @ AC 120V/60Hz @ GFSK (Low Channel) (worst case)**

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1945	33.05	19.63	52.68	63.84	-11.16	QP	
2		0.1955	12.29	19.63	31.92	53.80	-21.88	AVG	
3		0.3731	14.18	19.63	33.81	58.43	-24.62	QP	
4		0.3832	0.31	19.63	19.94	48.21	-28.27	AVG	
5		1.8096	9.52	19.67	29.19	56.00	-26.81	QP	
6		1.8192	-2.19	19.67	17.48	46.00	-28.52	AVG	
7		3.7001	16.65	19.70	36.35	56.00	-19.65	QP	
8		3.7794	4.42	19.70	24.12	46.00	-21.88	AVG	
9		6.5921	14.27	19.72	33.99	60.00	-26.01	QP	
10		6.7333	4.58	19.72	24.30	50.00	-25.70	AVG	
11		17.9441	16.21	20.15	36.36	60.00	-23.64	QP	
12		18.0393	3.39	20.16	23.55	50.00	-26.45	AVG	

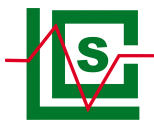


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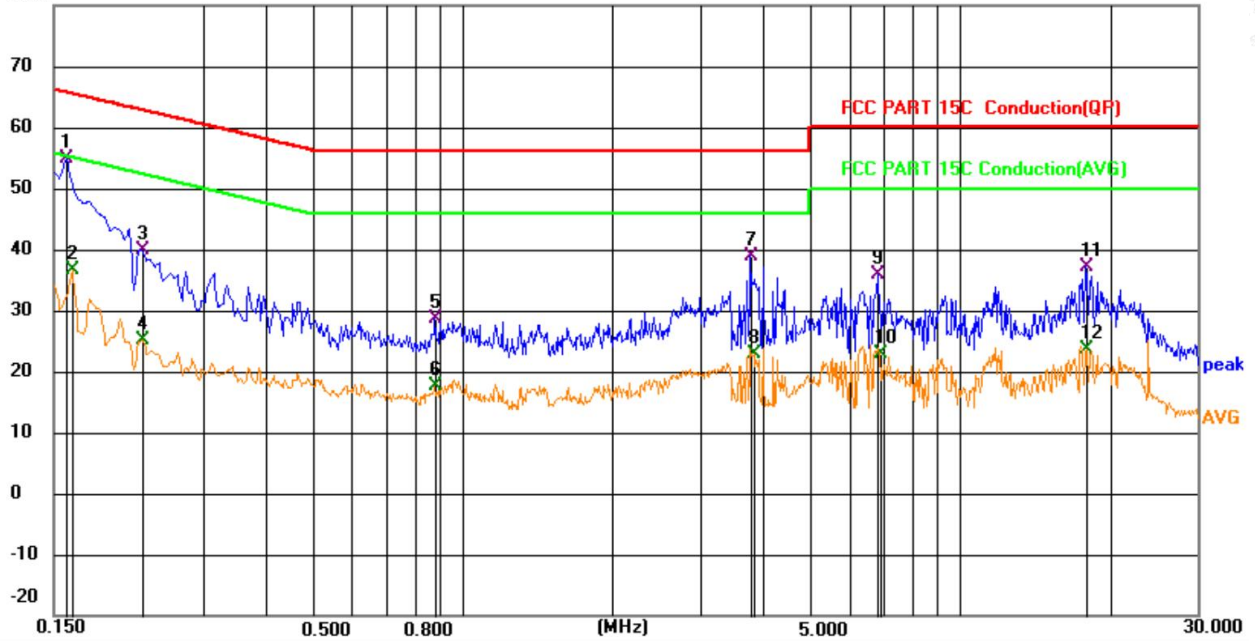
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Neutral

80.0 dBuV



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1	*	0.1590	35.37	19.63	55.00	65.52	-10.52	QP	
2		0.1636	17.02	19.63	36.65	55.28	-18.63	AVG	
3		0.2266	20.34	19.63	39.97	62.57	-22.60	QP	
4		0.2266	5.61	19.63	25.24	52.57	-27.33	AVG	
5		0.8791	8.98	19.64	28.62	56.00	-27.38	QP	
6		0.8791	-1.94	19.64	17.70	46.00	-28.30	AVG	
7		3.7906	19.12	19.70	38.82	56.00	-17.18	QP	
8		3.8446	3.07	19.70	22.77	46.00	-23.23	AVG	
9		6.8371	16.06	19.72	35.78	60.00	-24.22	QP	
10		6.8866	3.17	19.72	22.89	50.00	-27.11	AVG	
11		17.9071	17.03	20.14	37.17	60.00	-22.83	QP	
12		17.9476	3.44	20.15	23.59	50.00	-26.41	AVG	

***Note: Pre-scan all modes and recorded the worst case results in this report (4-GFSK1 Middle Channel).

Measurement= Reading + Correct Factor, Margin = Measurement – Limit.

Correct Factor=Lisn Factor+Cable Factor

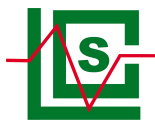


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7. RADIATED EMISSION MEASUREMENT

7.1. Standard Applicable

According to FCC § 15.249: Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) and 15.249 limit in the table below has to be followed.

Fundamental Frequency	Field Strength of fundamental (millivolts/meter)	Field Strength of harmonics (microvolts/meter)
902-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

According to RSS-210 B.10:

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.

The field strength limits shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector.

Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

7.2. Instruments Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10 th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average

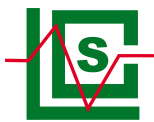


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Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP
Start ~ Stop Frequency	1GHz~10GHz / RB/VB 1MHz/3MHz for PK 1MHz/10Hz for AV

7.3. Test Procedure

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

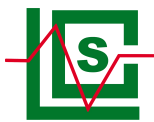
Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1.0 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.





2) Sequence of testing 30 MHz to 1 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

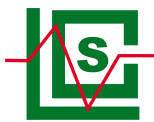
Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.





3) Sequence of testing 1 GHz to 18 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

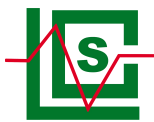
Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 2.5 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

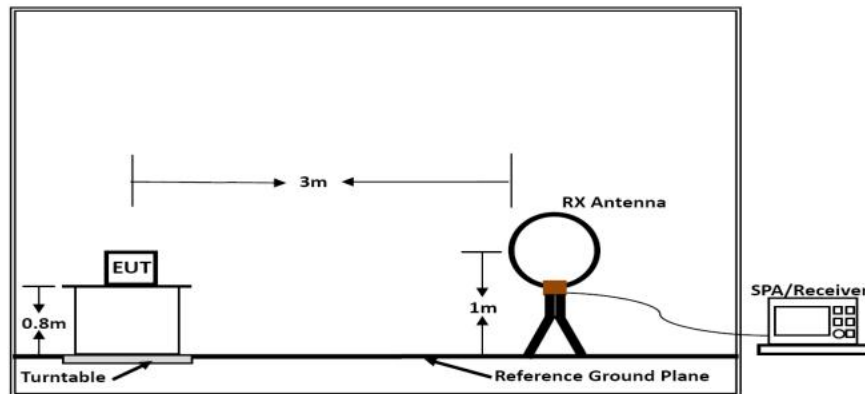
Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

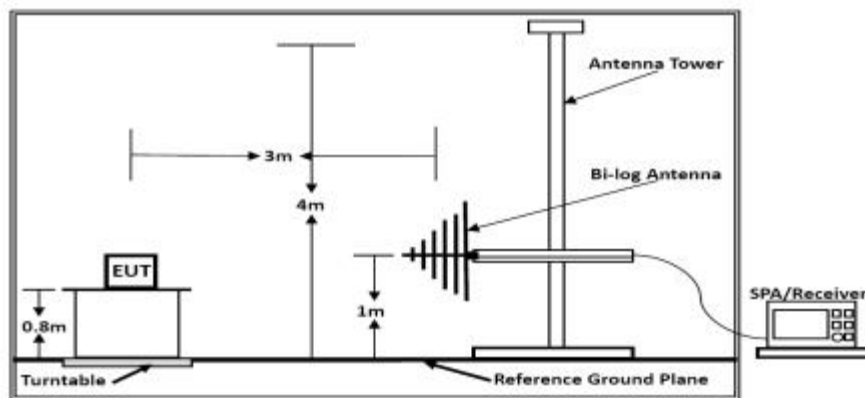




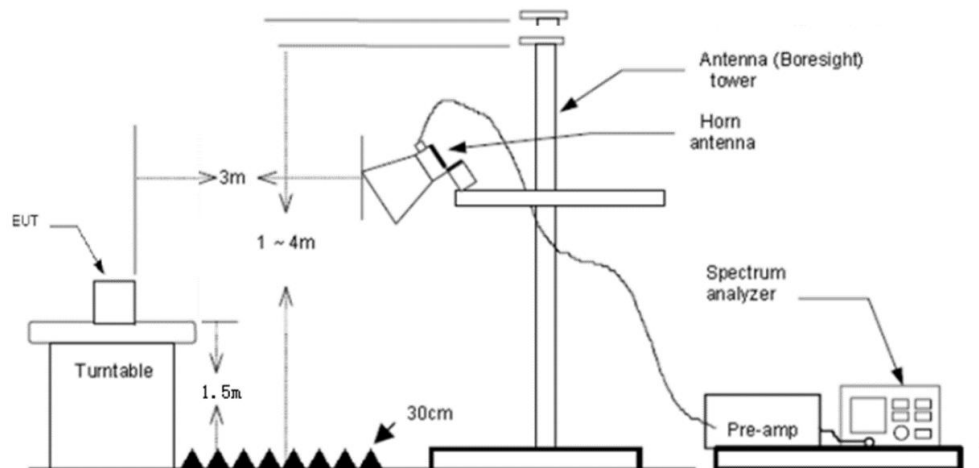
7.4. Block Diagram of Test Setup



Below 30MHz



Below 1GHz

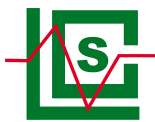


Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

7.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.





7.6. Test Results of Radiated Emissions (9 KHz~30 MHz)

Temperature	23.8℃	Humidity	52.1%
Test Engineer	Mening Su		

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

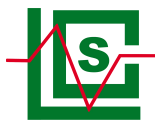
Limit line = specific limits (dBuV) + distance extrapolation factor.

7.7. Test Results of Radiated Emissions (30 MHz – 1000 MHz)

PASS

The test data please refer to following page.



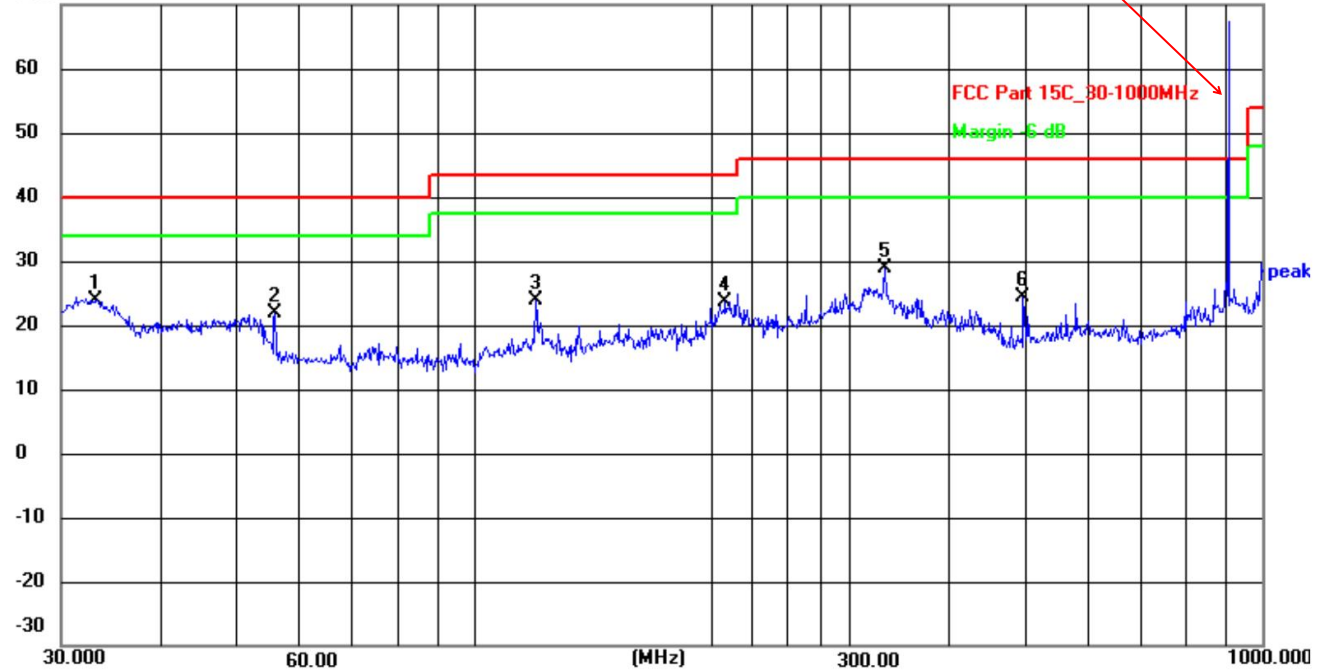


Temperature	23.8℃	Humidity	52.1%
Test Engineer	Mening Su	Modulation	2-GFSK05

Channel 0 / 905.0 MHz

Vertical

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	33.2111	41.93	-18.02	23.91	40.00	-16.09
2	56.0007	39.97	-18.13	21.84	40.00	-18.16
3	119.8555	43.84	-19.93	23.91	43.50	-19.59
4	208.5800	40.91	-17.16	23.75	43.50	-19.75
5	332.5187	43.36	-14.40	28.96	46.00	-17.04
6	497.6764	37.70	-13.28	24.42	46.00	-21.58

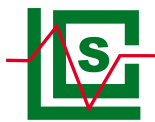


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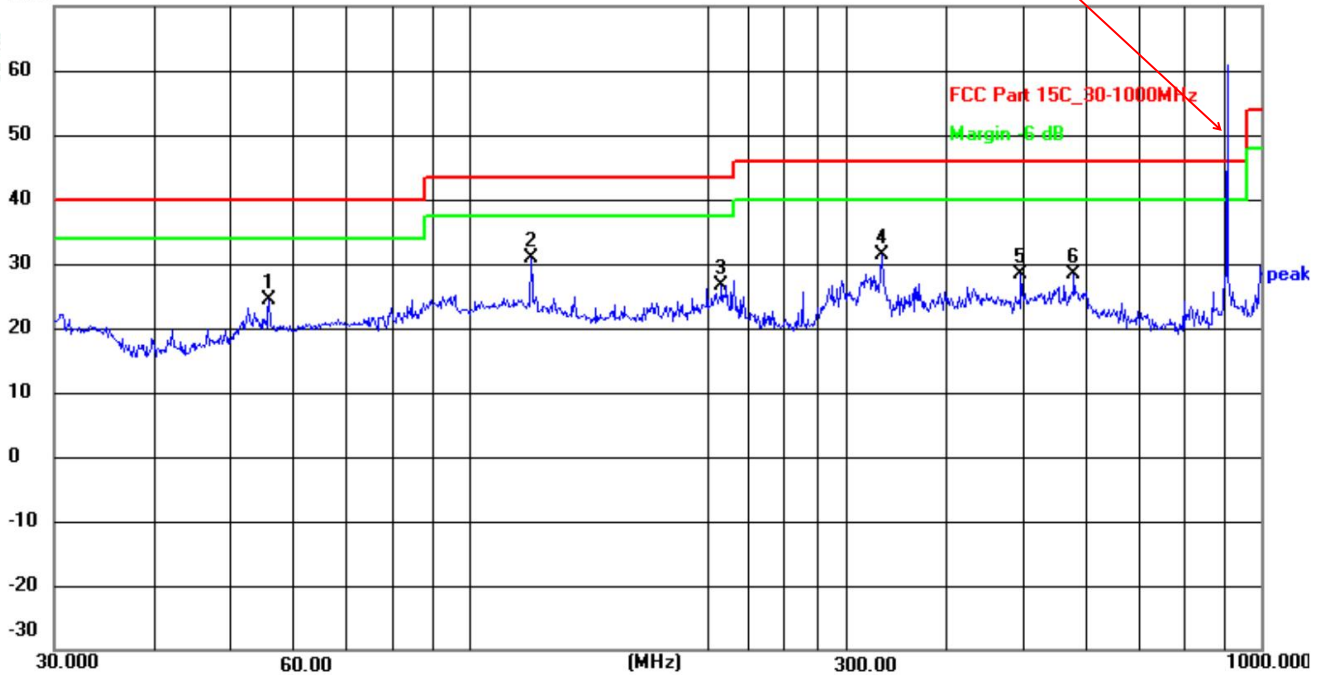
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Horizontal

70.0 dBuV/m

Fundamental frequency



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	56.0007	42.47	-18.13	24.34	40.00	-15.66
2	119.8555	50.84	-19.93	30.91	43.50	-12.59
3	208.5800	43.91	-17.16	26.75	43.50	-16.75
4	332.5187	45.86	-14.40	31.46	46.00	-14.54
5	497.6764	41.70	-13.28	28.42	46.00	-17.58
6	580.7024	39.23	-10.77	28.46	46.00	-17.54

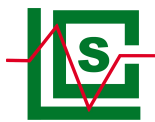


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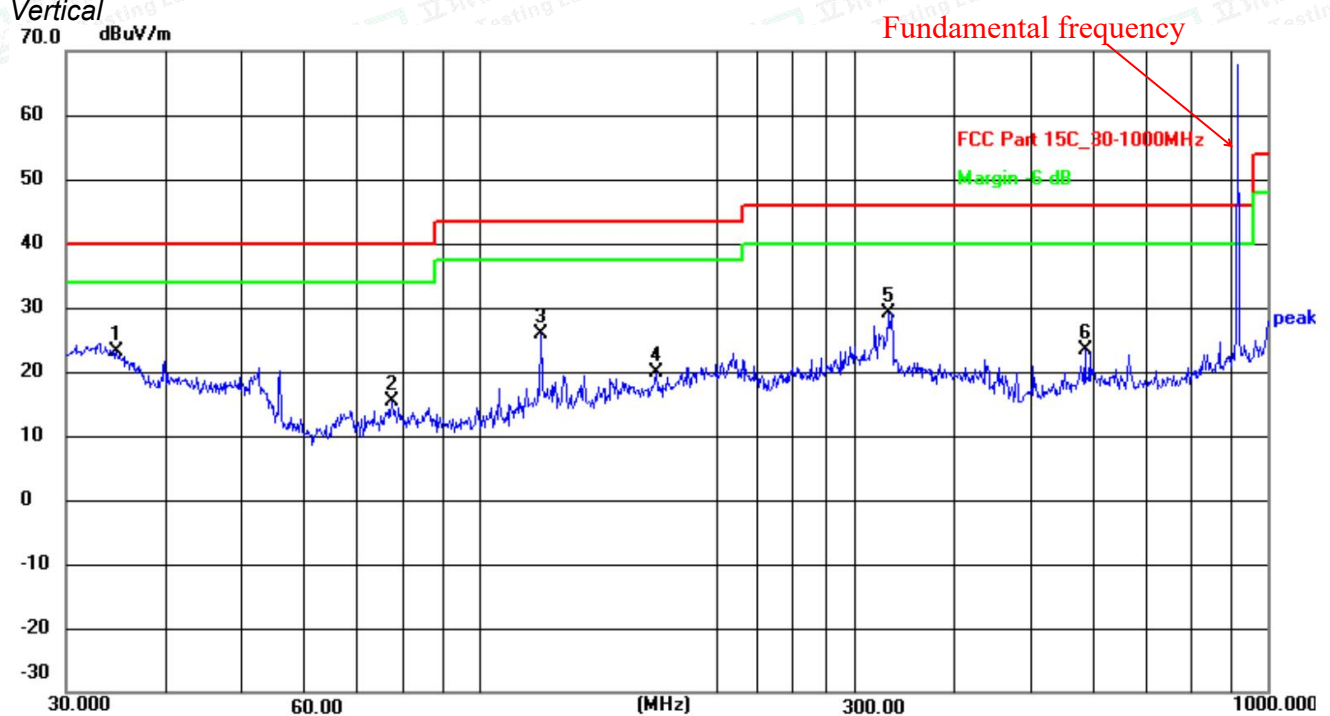
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Channel 19 / 915.0 MHz

Vertical

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	34.7601	41.01	-17.83	23.18	40.00	-16.82
2	77.5926	35.10	-19.78	15.32	40.00	-24.68
3	119.8555	45.79	-19.93	25.86	43.50	-17.64
4	167.8240	39.38	-19.56	19.82	43.50	-23.68
5	330.1947	43.38	-14.33	29.05	46.00	-16.95
6	586.8436	33.94	-10.66	23.28	46.00	-22.72

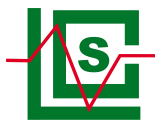


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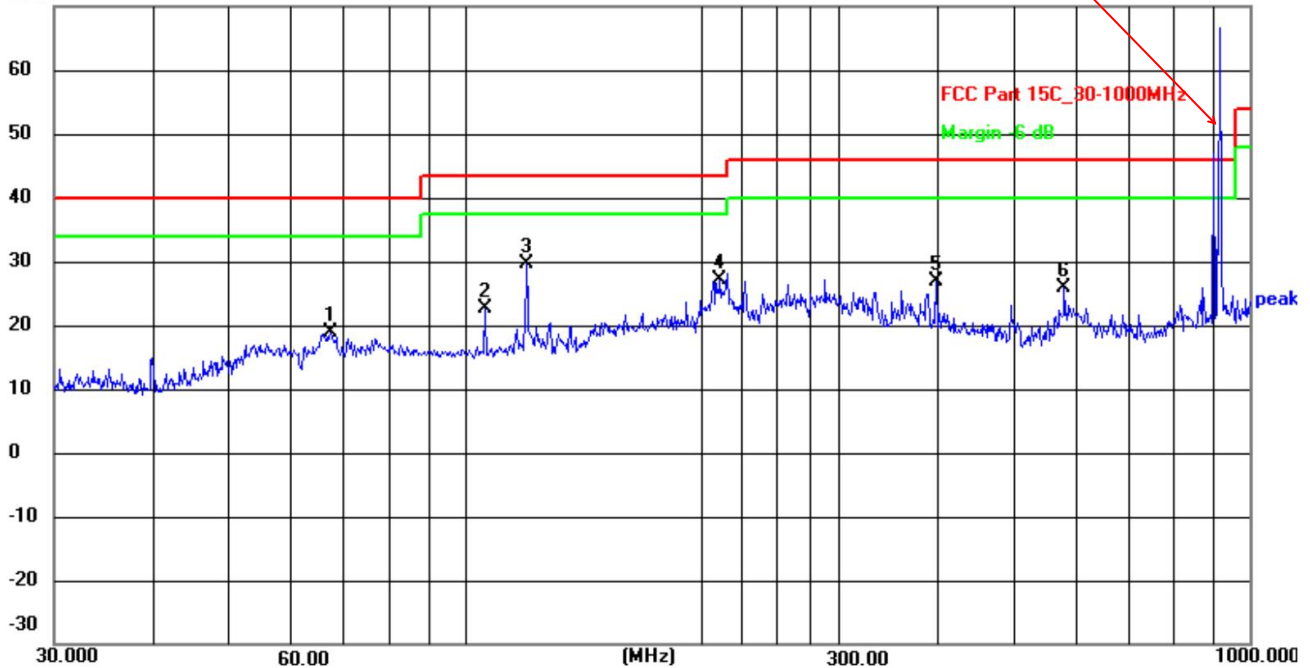
Scan code to check authenticity



Horizontal

70.0 dBuV/m

Fundamental frequency



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	67.4381	38.23	-19.32	18.91	40.00	-21.09
2	106.0126	41.36	-18.71	22.65	43.50	-20.85
3	119.8555	49.50	-19.93	29.57	43.50	-13.93
4	211.5261	44.31	-17.09	27.22	43.50	-16.28
5	399.0300	41.40	-14.43	26.97	46.00	-19.03
6	580.7024	36.54	-10.77	25.77	46.00	-20.23

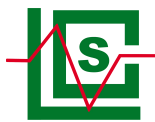


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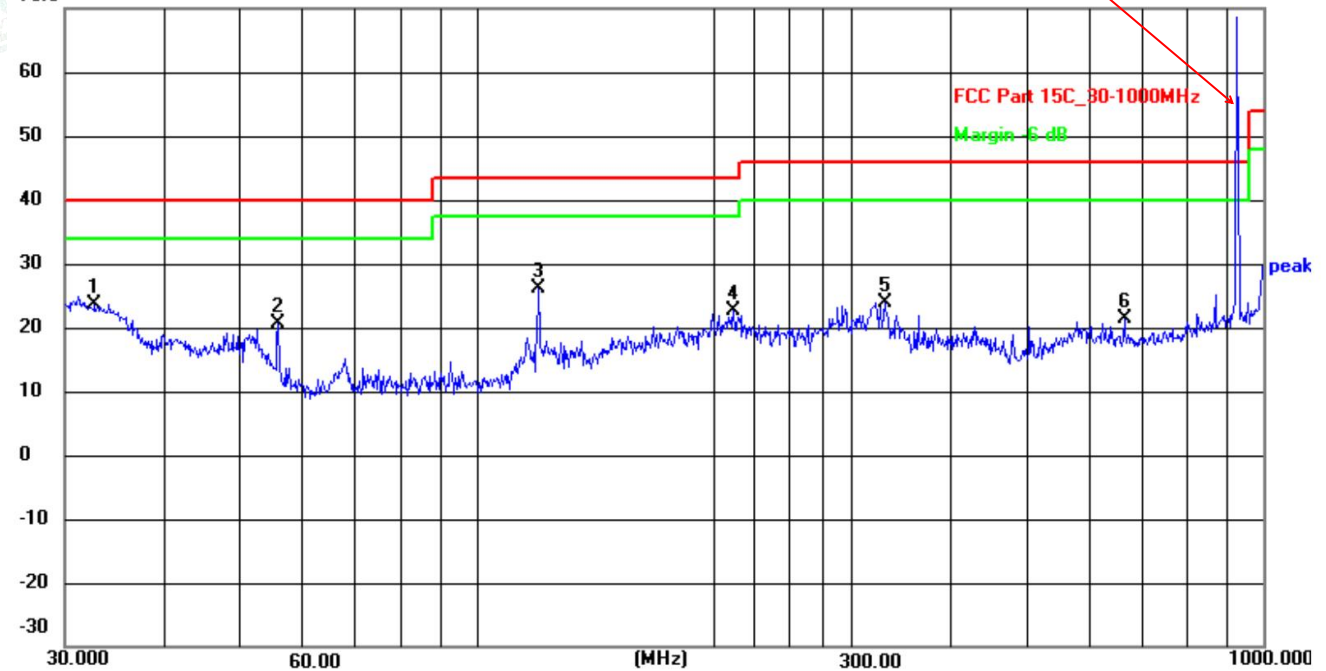
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Channel 40 / 925.0 MHz

Vertical

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	32.7486	41.66	-18.09	23.57	40.00	-16.43
2	56.0007	38.88	-18.13	20.75	40.00	-19.25
3	119.8555	46.07	-19.93	26.14	43.50	-17.36
4	212.2692	39.60	-17.08	22.52	43.50	-20.98
5	330.1947	38.28	-14.33	23.95	46.00	-22.05
6	665.8034	32.42	-11.06	21.36	46.00	-24.64

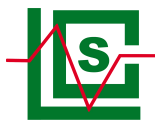


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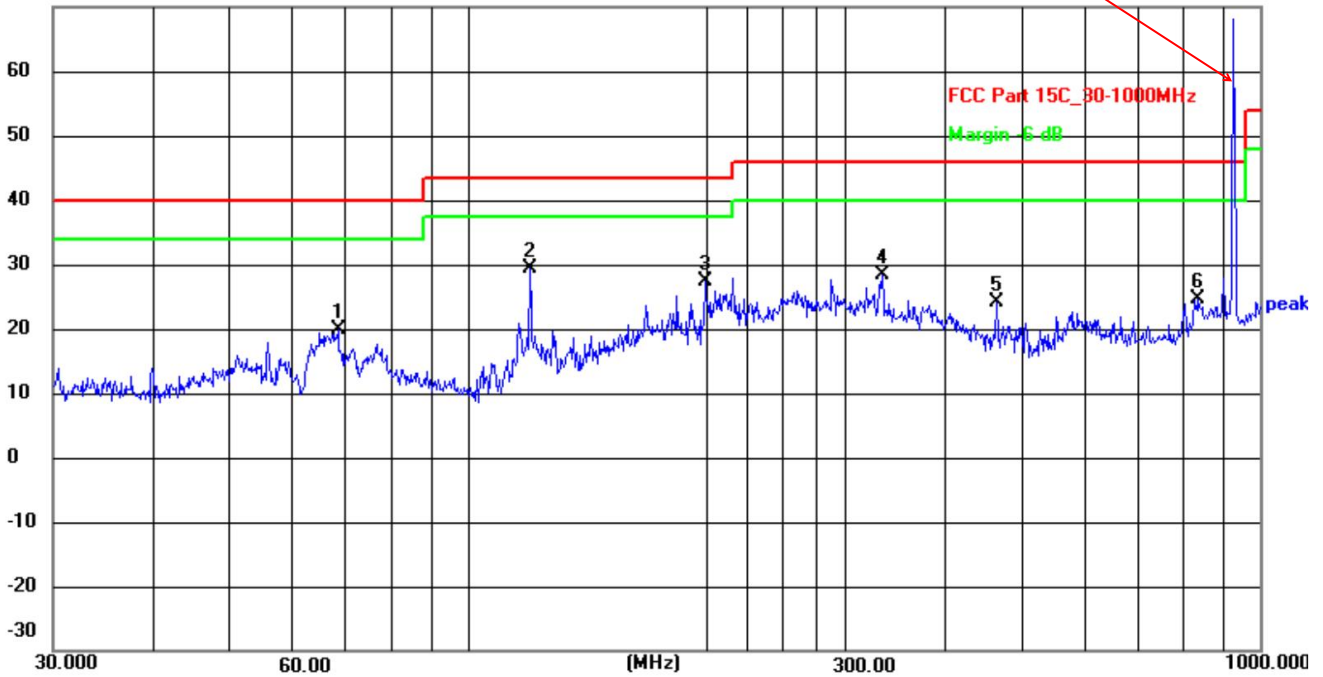
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Horizontal

70.0 dBuV/m

Fundamental frequency



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	68.6310	39.18	-19.38	19.80	40.00	-20.20
2	119.8555	49.22	-19.93	29.29	43.50	-14.21
3	199.2855	44.75	-17.38	27.37	43.50	-16.13
4	333.6865	42.73	-14.43	28.30	46.00	-17.70
5	465.5994	38.38	-14.35	24.03	46.00	-21.97
6	836.2441	33.55	-9.03	24.52	46.00	-21.48

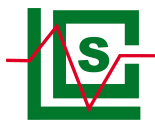


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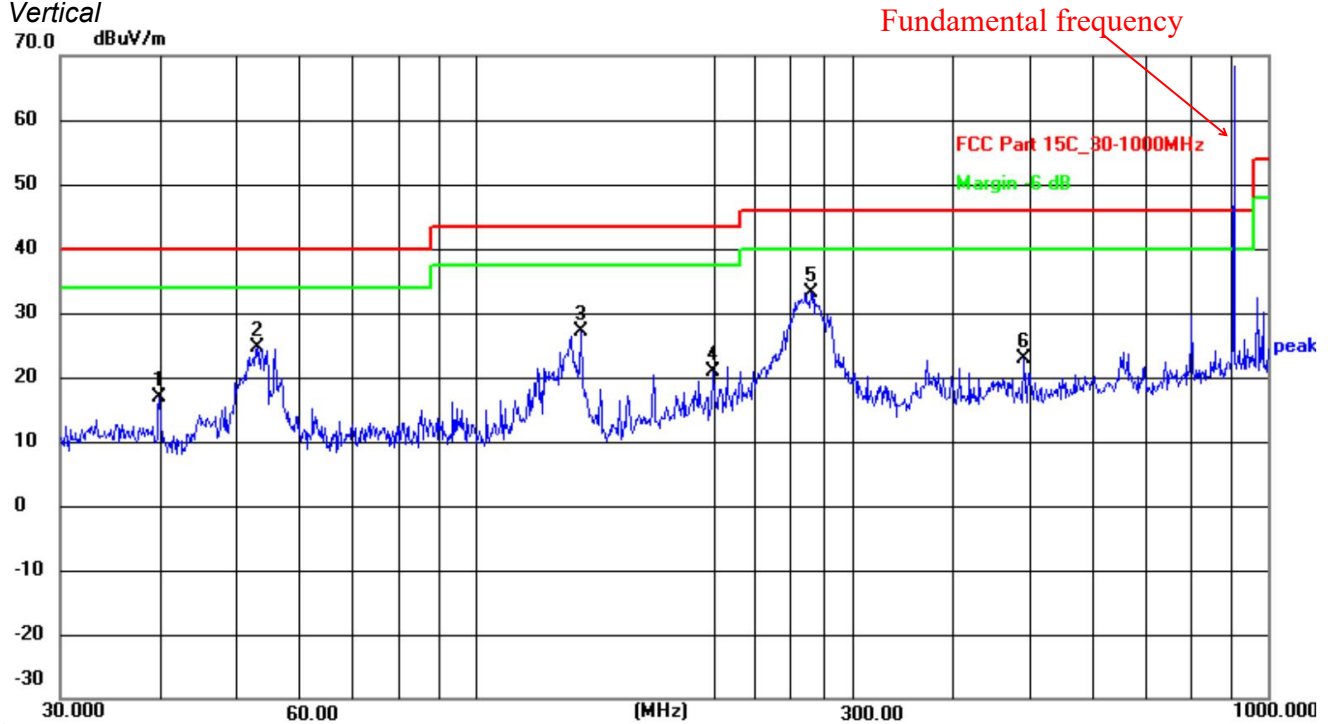


Temperature	23.8℃	Humidity	52.1%
Test Engineer	Mening Su	Modulation	4-GFSK1

Channel 0 /905.0 MHz

Vertical

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	39.9941	34.32	-17.54	16.78	40.00	-23.22
2	53.1313	42.28	-17.60	24.68	40.00	-15.32
3	135.9821	47.88	-20.76	27.12	43.50	-16.38
4	199.9855	38.21	-17.39	20.82	43.50	-22.68
5	265.6757	48.68	-15.45	33.23	46.00	-12.77
6	492.4685	36.45	-13.56	22.89	46.00	-23.11

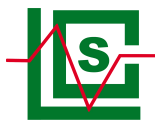


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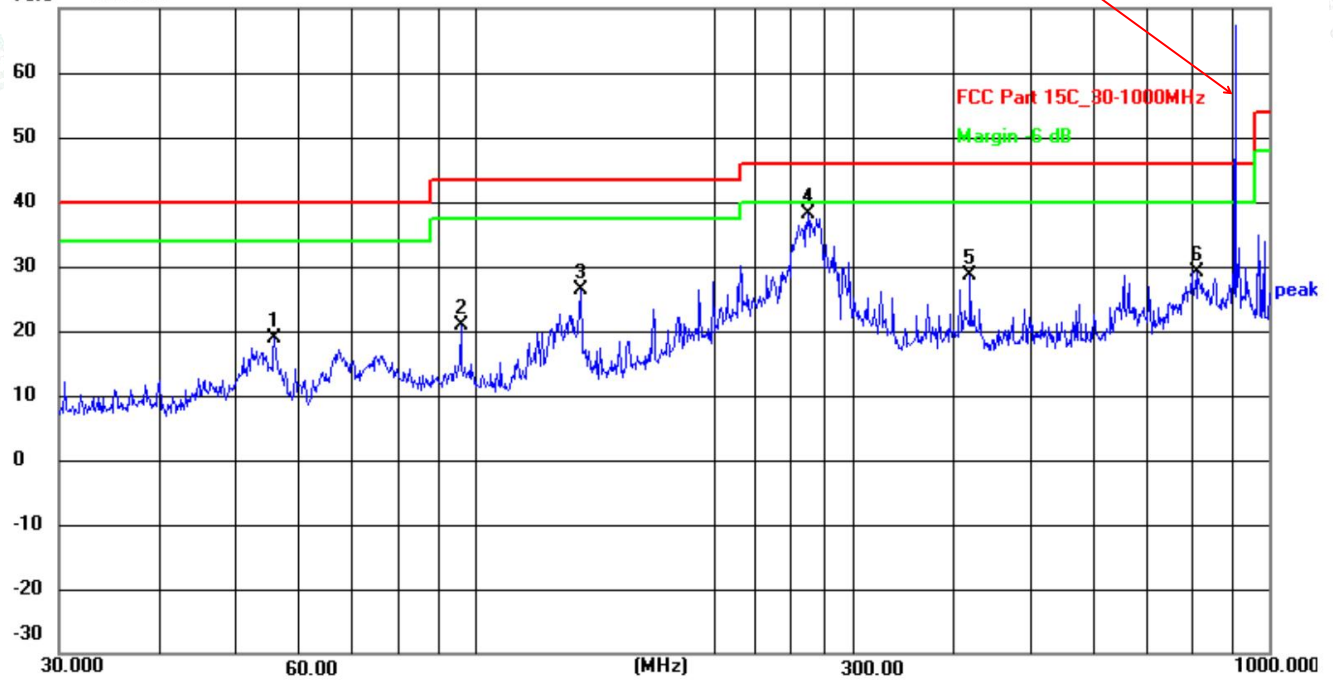
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Horizontal
70.0
dBuV/m

Fundamental frequency



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	56.0007	37.06	-18.13	18.93	40.00	-21.07
2	96.0985	39.22	-18.45	20.77	43.50	-22.73
3	135.9821	47.06	-20.76	26.30	43.50	-17.20
4	262.8955	53.70	-15.48	38.22	46.00	-7.78
5	420.5803	42.49	-13.74	28.75	46.00	-17.25
6	813.1114	38.61	-9.49	29.12	46.00	-16.88

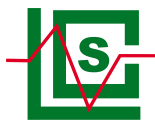


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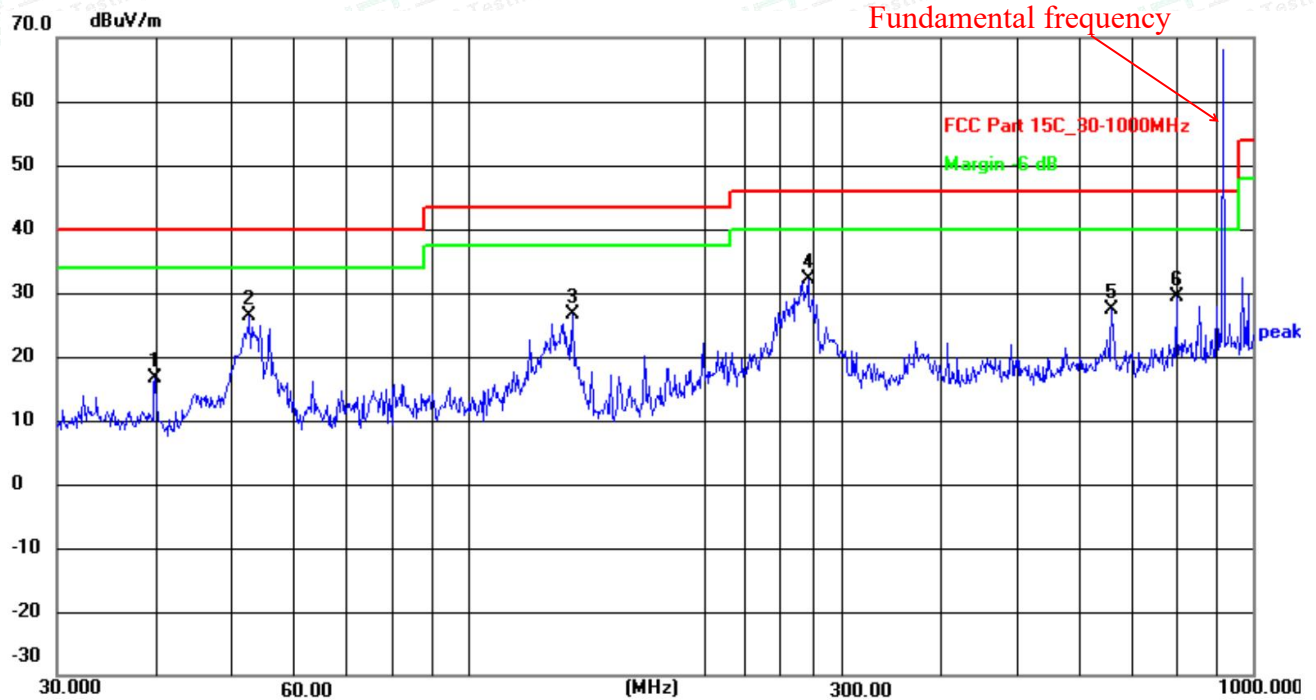
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Channel 19 / 915.0 MHz

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	39.9941	34.26	-17.54	16.72	40.00	-23.28
2	52.7600	43.99	-17.54	26.45	40.00	-13.55
3	135.9821	47.51	-20.76	26.75	43.50	-16.75
4	271.3245	47.56	-15.40	32.16	46.00	-13.84
5	661.1503	38.46	-11.05	27.41	46.00	-18.59
6	798.9796	39.42	-9.96	29.46	46.00	-16.54

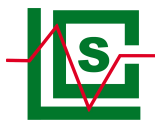


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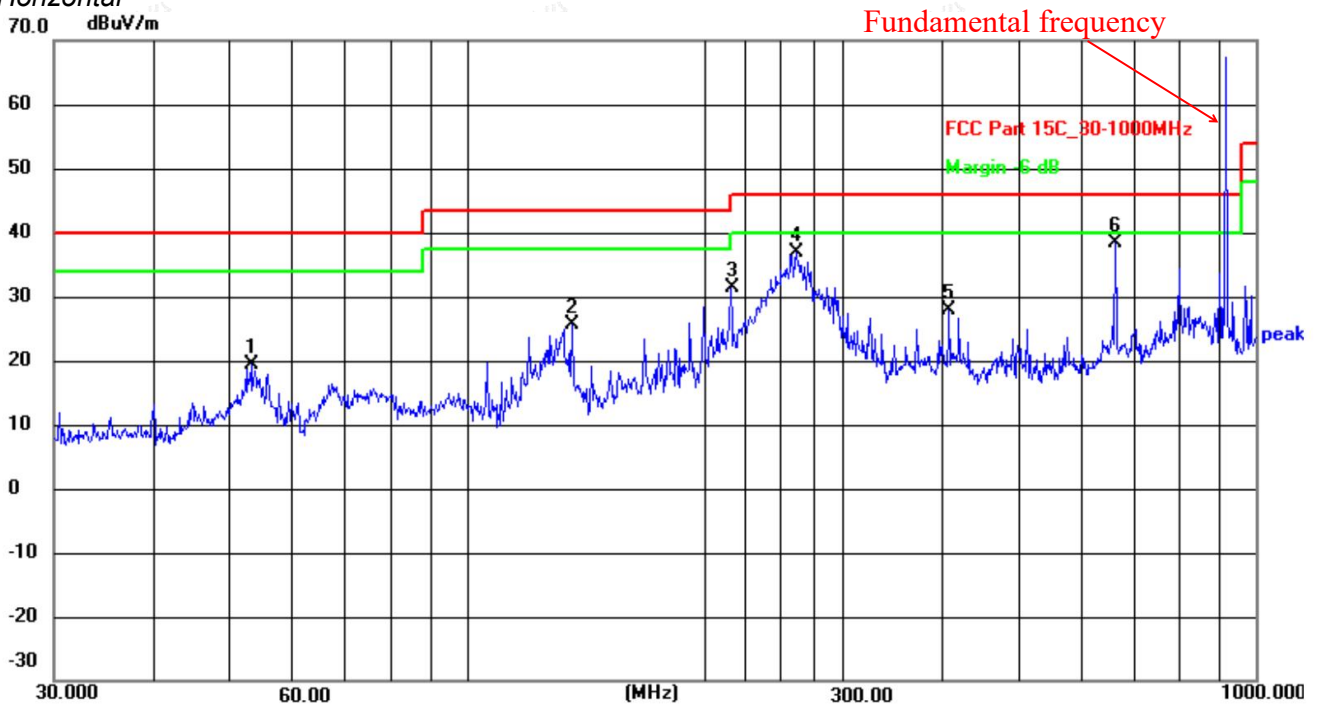
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Horizontal

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	53.3179	36.96	-17.64	19.32	40.00	-20.68
2	135.9821	46.43	-20.76	25.67	43.50	-17.83
3	216.0237	48.45	-16.98	31.47	46.00	-14.53
4	261.9750	52.28	-15.48	36.80	46.00	-9.20
5	408.9458	42.02	-14.12	27.90	46.00	-18.10
6	663.4728	49.43	-11.05	38.38	46.00	-7.62

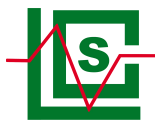


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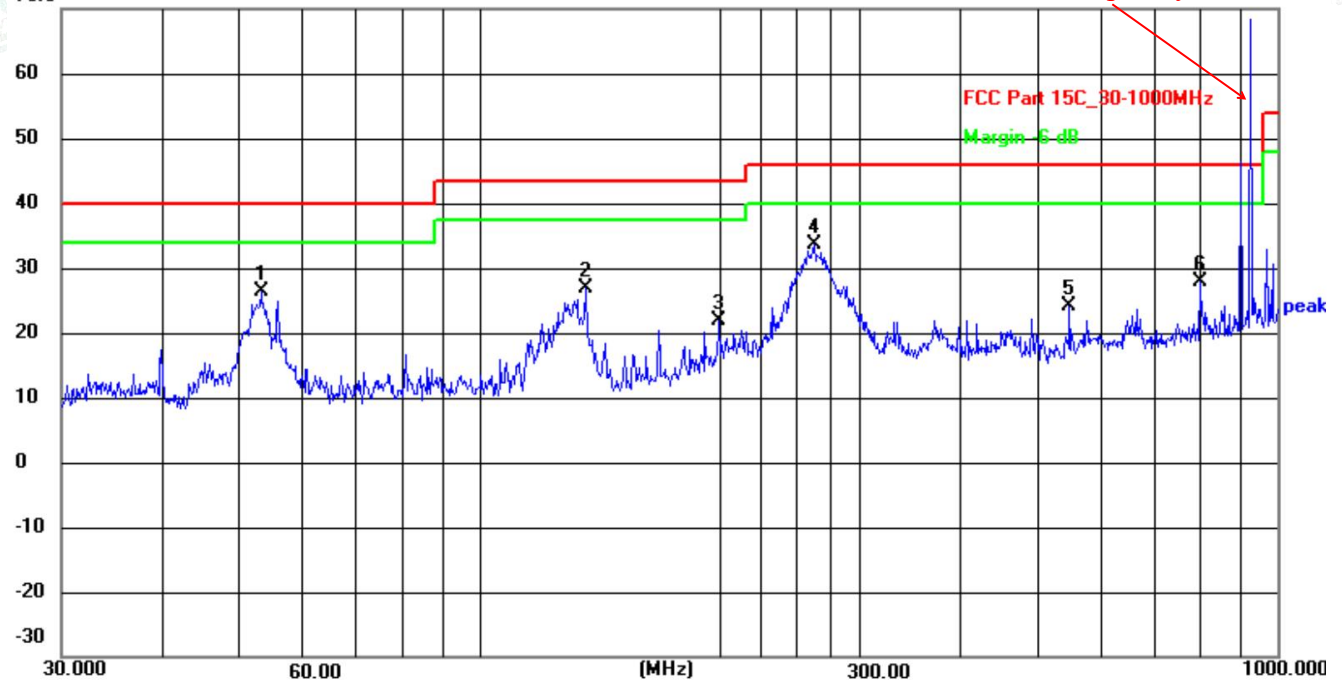
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Channel 40 / 925.0 MHz

Vertical

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	53.3179	44.14	-17.64	26.50	40.00	-13.50
2	135.9821	47.76	-20.76	27.00	43.50	-16.50
3	199.9855	39.37	-17.39	21.98	43.50	-21.52
4	262.8955	49.04	-15.48	33.56	46.00	-12.44
5	549.0193	35.89	-11.83	24.06	46.00	-21.94
6	798.9796	37.92	-9.96	27.96	46.00	-18.04

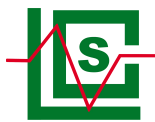


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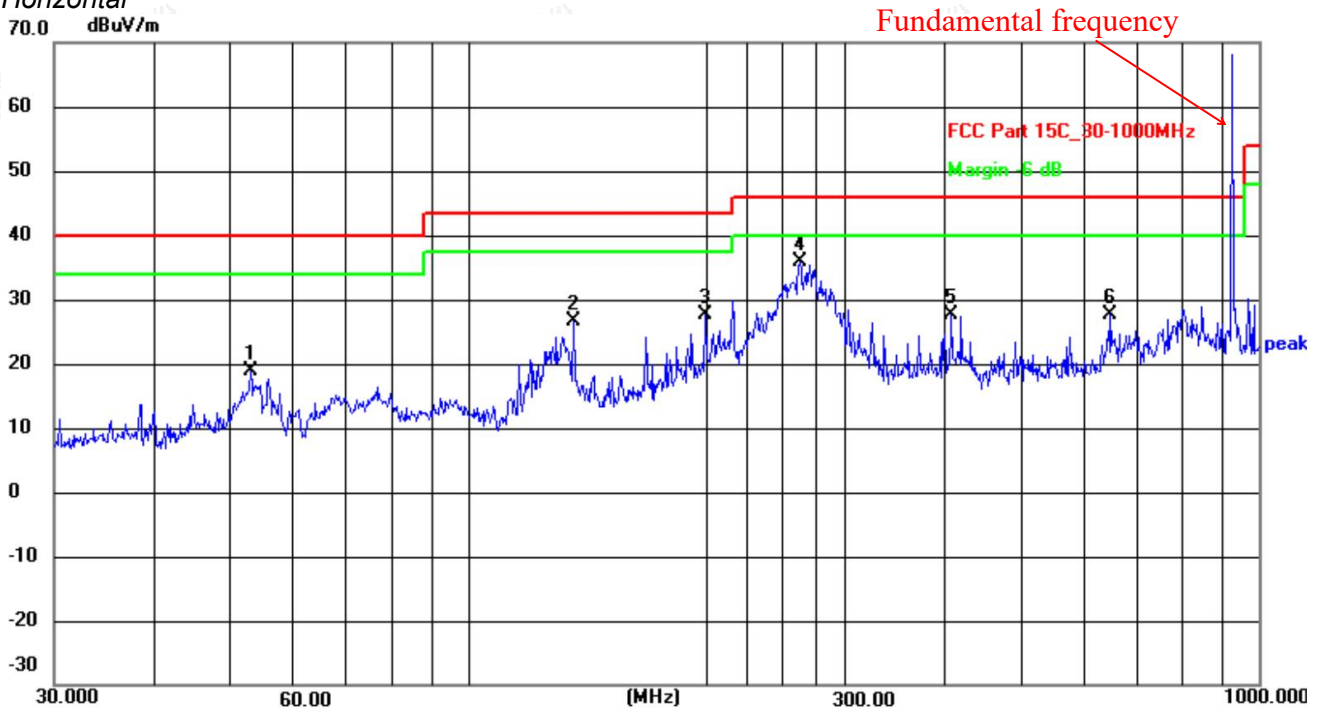
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Horizontal

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	53.1313	36.38	-17.60	18.78	40.00	-21.22
2	135.9821	47.39	-20.76	26.63	43.50	-16.87
3	199.9855	44.98	-17.39	27.59	43.50	-15.91
4	262.8955	51.36	-15.48	35.88	46.00	-10.12
5	408.9458	41.76	-14.12	27.64	46.00	-18.36
6	649.6594	38.66	-11.03	27.63	46.00	-18.37

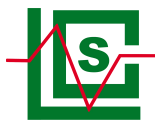


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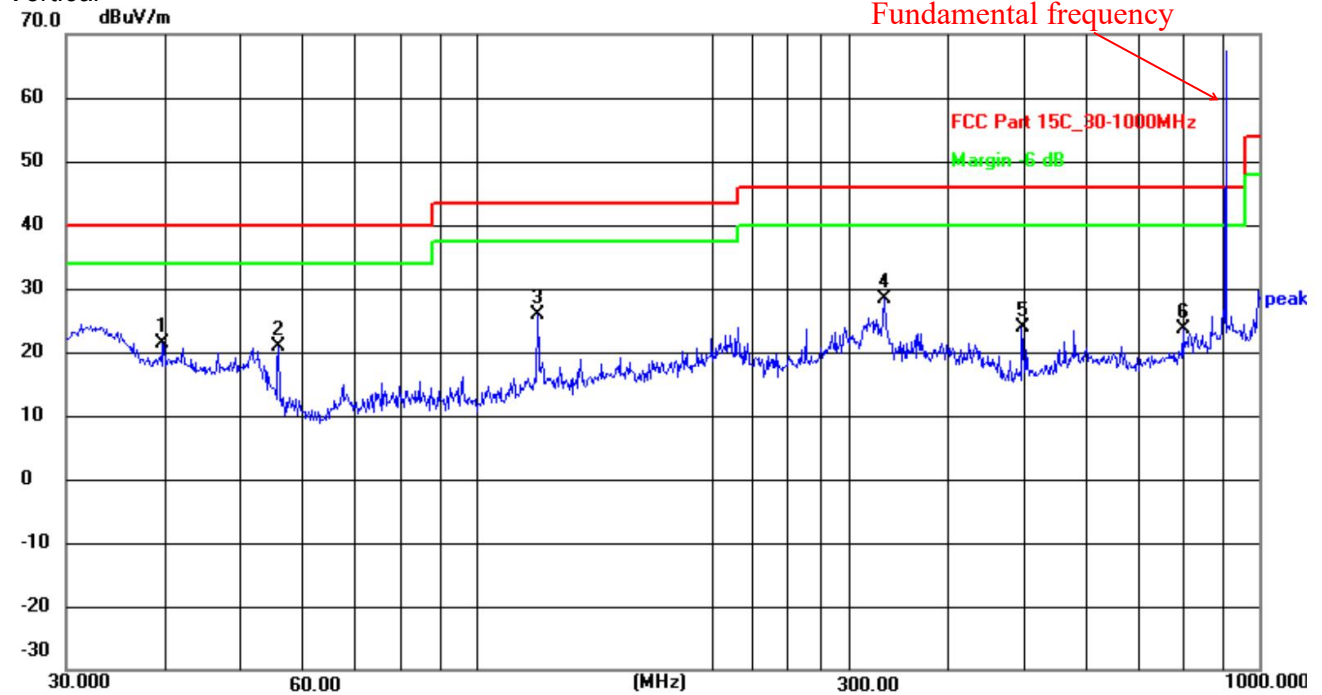
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Temperature	23.8°C	Humidity	52.1%
Test Engineer	Mening Su	Modulation	2-FSK

Channel 0 /905.0 MHz

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	39.8542	39.01	-17.56	21.45	40.00	-18.55
2	56.0007	38.97	-18.13	20.84	40.00	-19.16
3	119.8556	45.84	-19.93	25.91	43.50	-17.59
4	332.5187	42.86	-14.40	28.46	46.00	-17.54
5	497.6765	37.20	-13.28	23.92	46.00	-22.08
6	798.9797	33.67	-9.96	23.71	46.00	-22.29

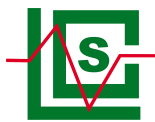


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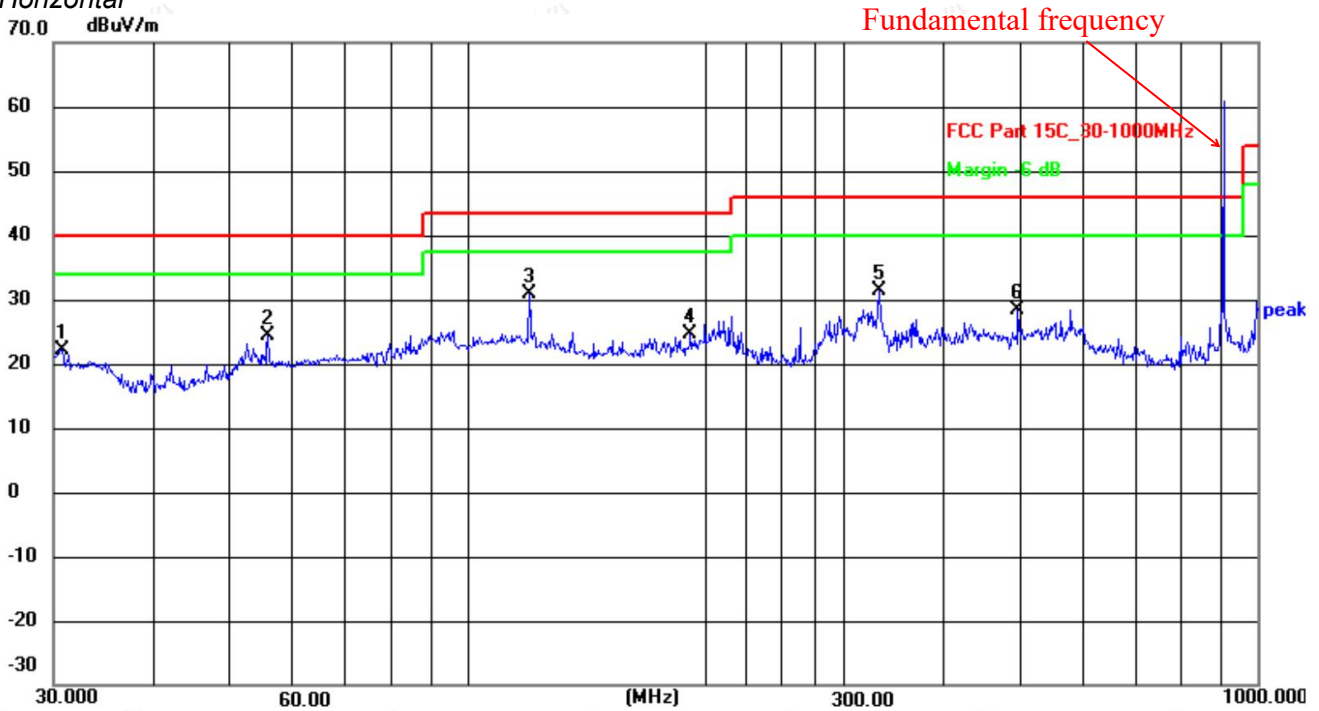
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Horizontal

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	30.7454	40.56	-18.35	22.21	40.00	-17.79
2	56.0007	42.47	-18.13	24.34	40.00	-15.66
3	119.8555	50.84	-19.93	30.91	43.50	-12.59
4	191.7450	42.68	-18.17	24.51	43.50	-18.99
5	332.5187	45.86	-14.40	31.46	46.00	-14.54
6	497.6764	41.70	-13.28	28.42	46.00	-17.58

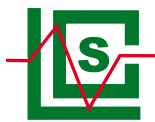


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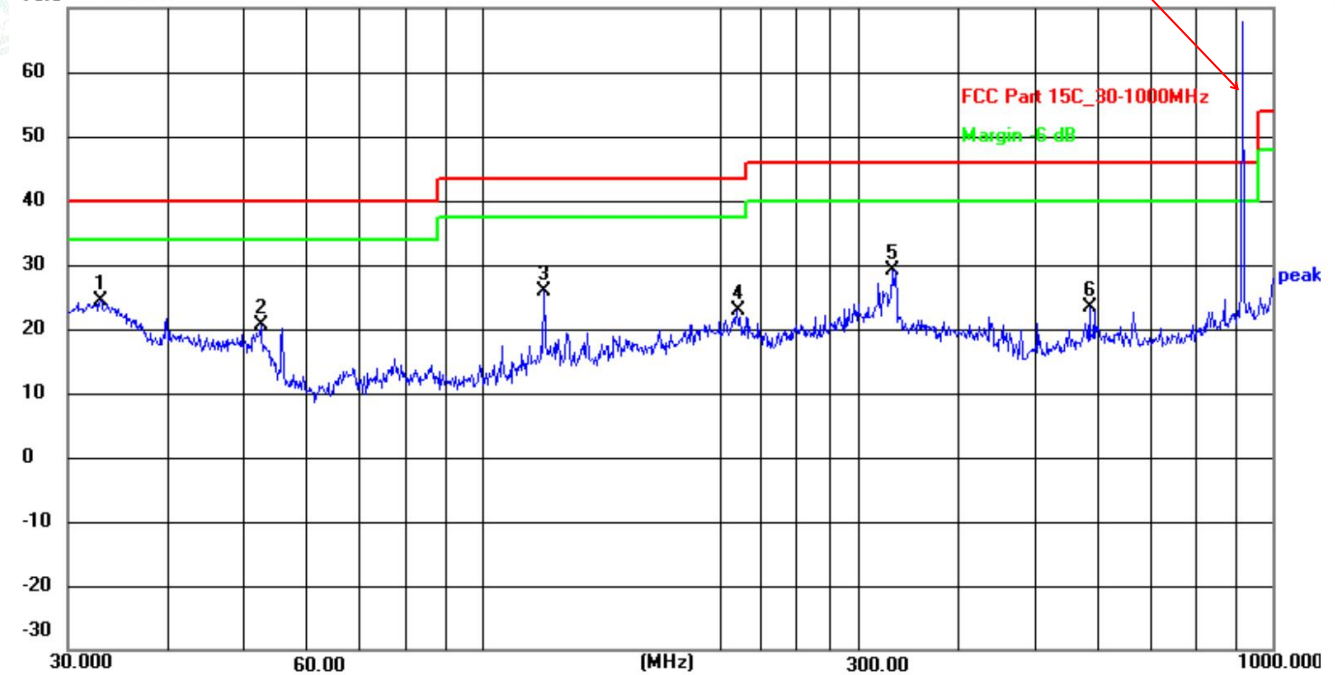
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Channel 19 / 915.0 MHz

Vertical

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	32.9791	42.48	-18.06	24.42	40.00	-15.58
2	52.5753	38.07	-17.50	20.57	40.00	-19.43
3	119.8556	45.79	-19.93	25.86	43.50	-17.64
4	210.0482	39.93	-17.14	22.79	43.50	-20.71
5	330.1949	43.38	-14.33	29.05	46.00	-16.95
6	586.8437	33.94	-10.66	23.28	46.00	-22.72

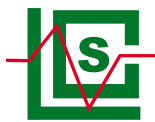


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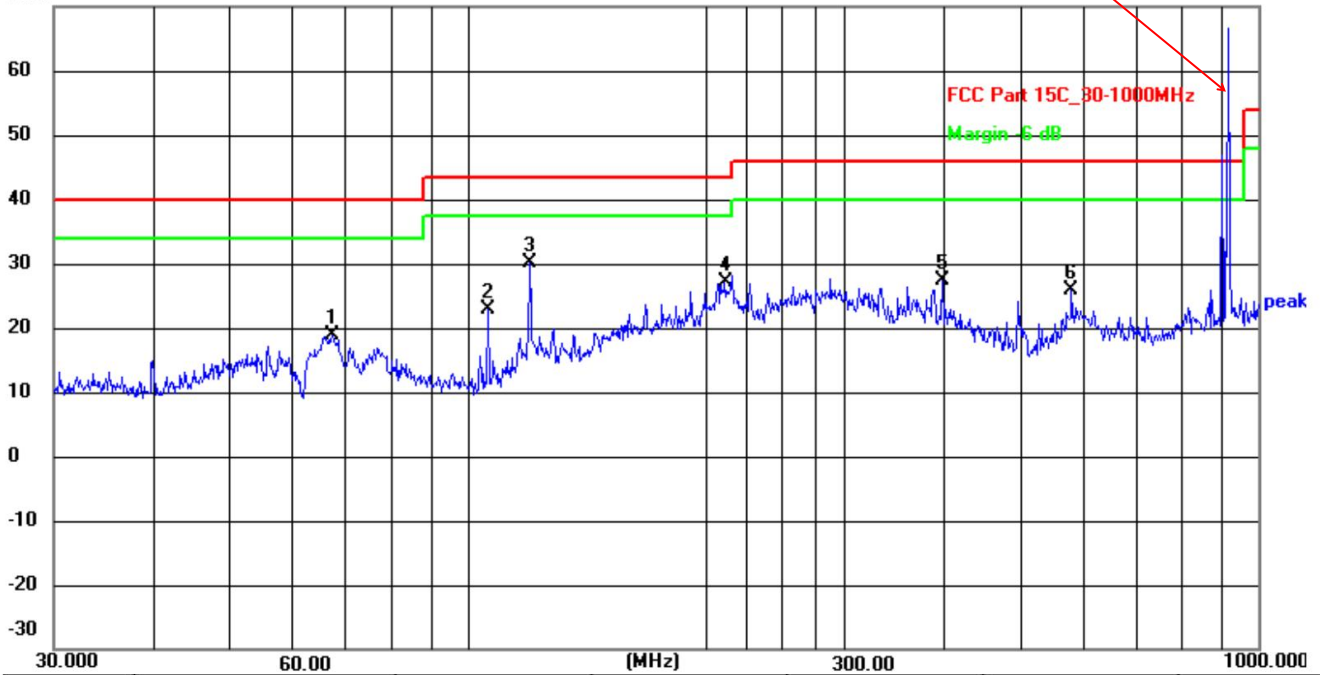
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Horizontal

70.0 dBuV/m

Fundamental frequency



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	67.4382	38.23	-19.32	18.91	40.00	-21.09
2	106.3850	41.51	-18.74	22.77	43.50	-20.73
3	119.8556	50.00	-19.93	30.07	43.50	-13.43
4	211.5265	44.31	-17.09	27.22	43.50	-16.28
5	399.0302	41.90	-14.43	27.47	46.00	-18.53
6	580.7026	36.54	-10.77	25.77	46.00	-20.23

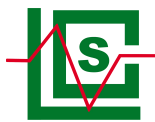


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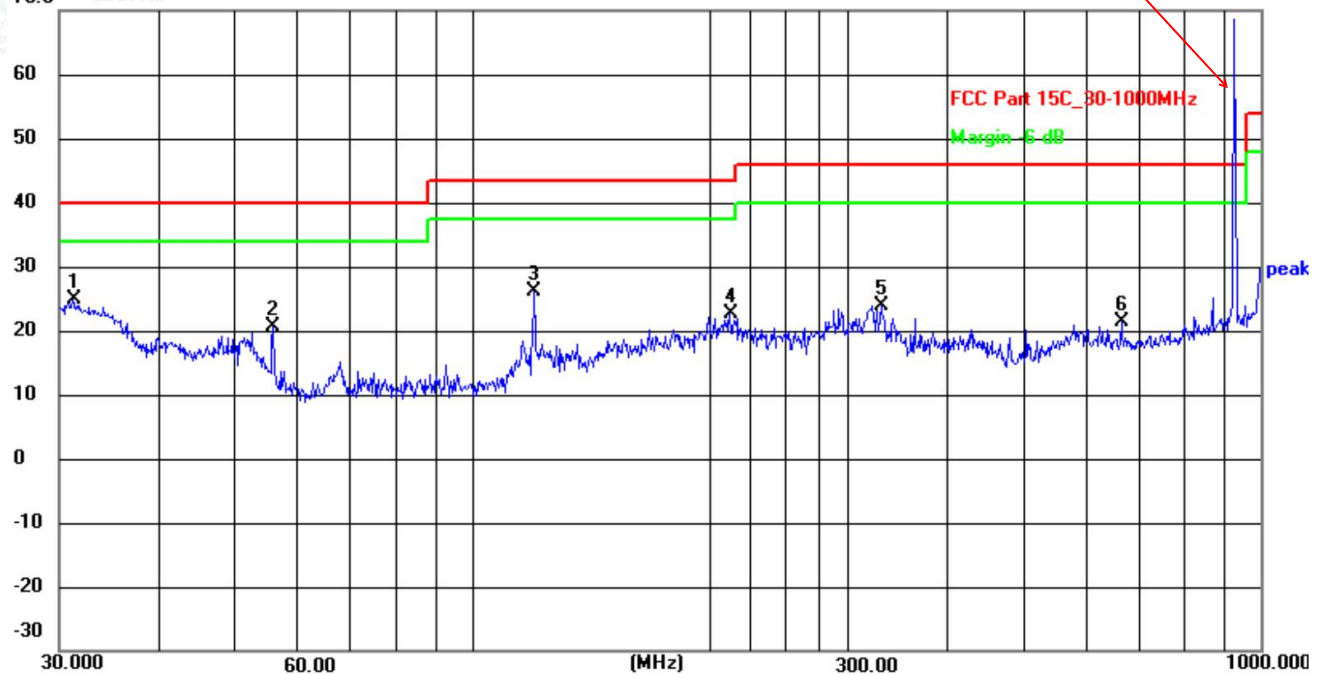


Channel 40 / 925.0 MHz

Vertical

70.0 dBuV/m

Fundamental frequency



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	31.1798	43.16	-18.30	24.86	40.00	-15.14
2	56.0007	38.88	-18.13	20.75	40.00	-19.25
3	119.8556	46.07	-19.93	26.14	43.50	-17.36
4	212.2695	39.60	-17.08	22.52	43.50	-20.98
5	330.1949	38.28	-14.33	23.95	46.00	-22.05
6	665.8035	32.42	-11.06	21.36	46.00	-24.64

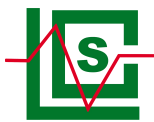


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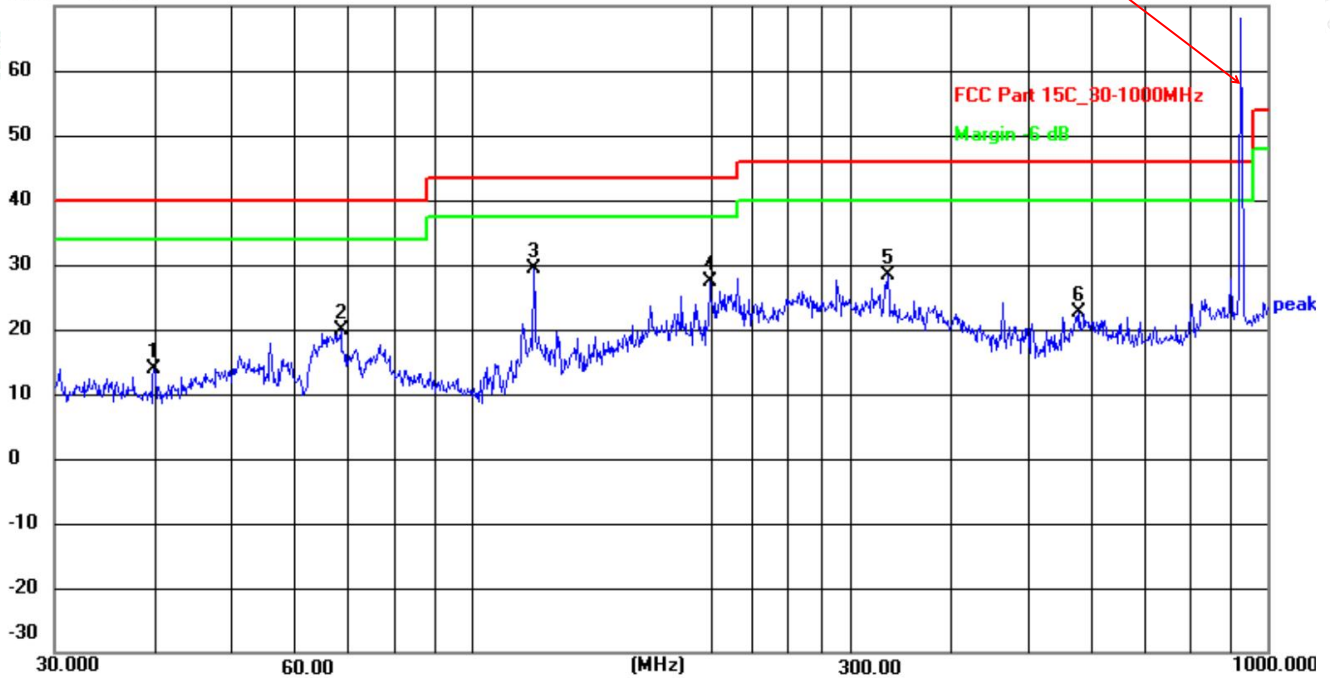
Scan code to check authenticity



Horizontal

70.0 dBuV/m

Fundamental frequency



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	39.9942	31.31	-17.54	13.77	40.00	-26.23
2	68.6310	39.18	-19.38	19.80	40.00	-20.20
3	119.8556	49.22	-19.93	29.29	43.50	-14.21
4	199.2855	44.75	-17.38	27.37	43.50	-16.13
5	333.6867	42.73	-14.43	28.30	46.00	-17.70
6	580.7026	33.49	-10.77	22.72	46.00	-23.28

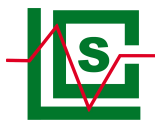


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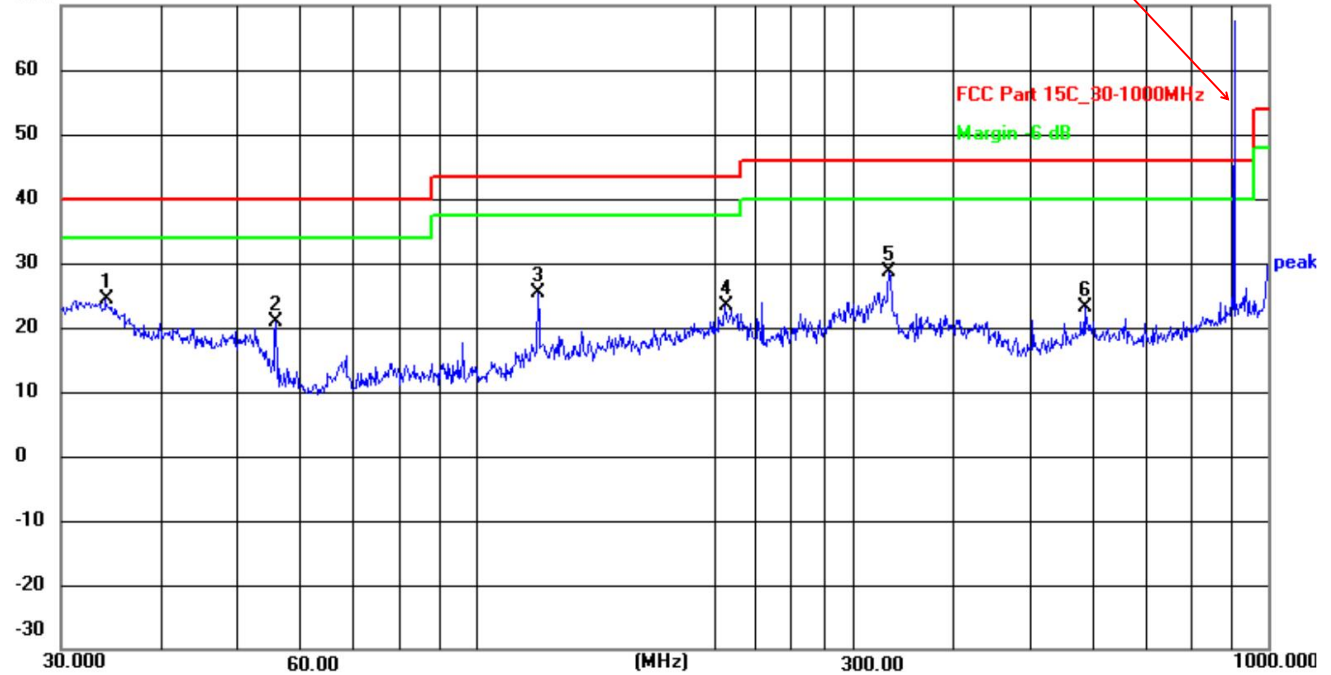


Temperature	23.8°C	Humidity	52.1%
Test Engineer	Mening Su	Modulation	2-GFSK1

Channel 0 /905.0 MHz

Vertical

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	34.1561	42.28	-17.91	24.37	40.00	-15.63
2	56.0007	39.05	-18.13	20.92	40.00	-19.08
3	119.8556	45.37	-19.93	25.44	43.50	-18.06
4	206.3976	40.53	-17.23	23.30	43.50	-20.20
5	332.5187	42.97	-14.40	28.57	46.00	-17.43
6	586.8437	33.80	-10.66	23.14	46.00	-22.86



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