

TEST REPORT # EMCC-110265F 2014-04-14**EQUIPMENT UNDER TEST**

Trade Name: MTP40S Pocket Transmitter
Model: MTP40S-USX
Serial No: T1541593, T1541595
Equipment Category: Wideband bodypack transmitter

Manufacturer: WISYCOM SRL
Via Spin, 156
36060 Romano d'Ezzelino (VI)
Italy

Applicant: same as manufacturer

Phone: +39 0424 382605
E-Mail: support@wisyscom.com

RELEVANT STANDARD(S):

FCC Rules & Regulations, Title 47 - Part 74.861
IC RSS-123 Section 5

MEASUREMENT PROCEDURE USED:

ANSI/TIA-603-D

TEST REPORT PREPARED BY:

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TEST PERSONEL:

Patrick Reusch

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1 GENERAL INFORMATION

1.1 Limits and Reservations

The test results in this report apply only to the particular Equipment Under Test (EUT), as declared in this report. This test report shall not be reproduced except in full without the written permission of EMCCons DR. RAŠEK GmbH & Co. KG.

1.2 Test Location

Company:	EMCCons DR. RAŠEK GmbH & Co. KG Moggast, Boelwiese 8 91320 Ebermannstadt Germany
Accreditation No.:	D-PL-12067-01-00
Address of Labs I, II, III and Head Office:	EMCCons DR. RAŠEK GmbH & Co. KG Moggast, Boelwiese 8 91320 Ebermannstadt Germany
Address of Labs IV and V:	EMCCons DR. RAŠEK GmbH & Co. KG Stoernhofer Berg 15 91364 Unterleinleiter Germany
Test Laboratory:	EMCCons DR. RAŠEK GmbH & Co. KG, Test Laboratory IV located at Stoernhofer Berg 15, 91364 Unterleinleiter, Germany The 3m & 10m semi-anechoic chamber site has been fully described in a report submitted to the FCC, and accepted in the letter dated December 24, 2013, Registration Number 878769. The 3m & 10m semi-anechoic chamber site has been fully described in a report submitted to the IC. This 3m/10m alternative test site is approved by Industry Canada under file number 3464C-1.
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FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX

1.3 Manufacturer

Company Name: WISYCOM SRL
Street: Via Spin, 156
City: 36060 Romano d'Ezzelino (VI)
Country: Italy

Name for contact purposes: Nadia Sbrissa
Phone: +39 0424 382605
Fax: +39 0424 382733
E-mail: support@wisyscom.com

1.4 Applicant

Same as manufacturer

1.5 Dates

Date of receipt of EUT: 2014-04-14
Test Date: 2014, CW 17 to 18

1.6 Ordering Information

Purchase Order: AQ14 0237 dated 2014-04-07
Vendor Number: ---

1.7 Climatic Conditions

Date	Temperature [°C]	Relative Humidity [%]	Air Pressure [hPa]	Lab	Customer attended tests
2014-04-23	22	41	976	IV	no
2014-04-24	22	42	970	IV	no
2014-04-29	23	48	968	IV	no
2014-05-02	23	47	968	IV	no

2 PRODUCT DESCRIPTION

2.1 Equipment Under Test (EUT)

Trade Name:	MTP40S Pocket Transmitter
Model:	MTP40S-USX
Serial Number:	T1541593, T1541595
FCC ID:	POUMTP40SUSX
IC ID:	11967A-MTP40SUSX
Application:	Pocket transmitter
Power:	DC 3 V, (2x battery AA alkaline).
Frequency Range:	470 – 640 MHz for EUT #T1541593 510 – 698 MHz for EUT #T1541595
Channel Settings	470 – 638 MHz for EUT #T1541593 640 – 698 MHz for EUT #T1541595
Channel Spacing:	25 kHz
Authorized Bandwidth:	200 kHz
Rated Power:	100 mW (ERP)
Antenna:	External rod antenna: AWF30-B1-507 and AWF30-B1-590 for EUT #T1541593 AWF30-B3-552 and AWF30-B3-646 for EUT #T1541595
Interface Ports:	Microphone
Variants:	two
Remarks:	None

2.2 EUT Peripherals

The antenna was not connected during the test. A dummy microphone LL1532 (delivered by the customer) was connected at the microphone input.

2.3 Mode of Operation during Testing

The EUT was tested under normal operation and powered by 2x Alkaline battery (except for the frequency stability tests). High power (100 mW ERP) was selected.

The used channel was modulated by 2500 Hz. The level was 16 dB greater than that necessary to produce 50 % of rated system deviation. This signal was applied to the EUT via the dummy microphone LL1532.

2.4 Modifications required for Compliance

None.

3 TEST RESULTS SUMMARY

Summary of Test Results for the following EUT:

Manufacturer: WISYCOM SRL
Device: MTP40S Pocket Transmitter
Model No.: MTP40S-USX
Serial Number: T1541593, T1541595

Requirement	Specification	Test Result
RF Power Output	FCC: Part 74.861 (e) (1) IC: RSS-123 Section 5.1	Complied
Frequency Stability	FCC: Part 74.861 (e) (4) IC: RSS-123 Section 5.4	Complied
Audio Modulation Characteristic	FCC: Part 74.861 (e) (3) IC: RSS-123 Section 5.2	Complied
Emission Bandwidth	FCC: Part 74.861 (e) (5) IC: RSS-123 Section 5.3	Complied
Spurious emissions at antenna port	FCC: Part 74.861 (e) (6) IC: RSS-123 Section 5.5	Complied
Field strength of spurious radiation	FCC: Part 74.861 (e) (6) IC: RSS-123 Section 5.5	Complied

The client has made the determination that EUT Condition, Characterization and Mode of Operation are representative of production units and meet the requirements of the specifications referenced herein.

Consistent with Industry practice, measurement and test equipment not directly involved in obtaining measurement results but having an impact on measurements (such as cable loss, antenna factors, etc.) are factored into the "Correction Factor" documented in certain test results. Instrumentation employed for testing meets tolerances consistent with known Industry Standards and Regulations.

The measurements contained in this report were made in accordance with the procedure RSS-Gen and ANSI/TIA-603-D, respectively. All emissions from the device were found to be within the limits outlined in this report.

The test results in this report apply only to the particular Equipment Under Test (EUT) as declared in this report.

Test Personnel: Patrick Reusch
Issuance Date: 2014-04-14

4 RF OUTPUT POWER

Test Requirement: FCC: Part 74.861 (e) (1)
IC: RSS-123 Section 5.1

Test Procedure: FCC: Section 2.1046
IC: RSS-Gen Section 4.8
IC: RSS-123 Section 4.2

4.1 Regulation

FCC 47 CFR Part 74.861 (e) (1) (ii)

The power of the measured unmodulated carrier power at the output of the transmitter power amplifier (antenna input power) may not exceed the following:
470 - 608 and 614 - 698 MHz bands 250 mW

IC RSS-123 Section 5.1

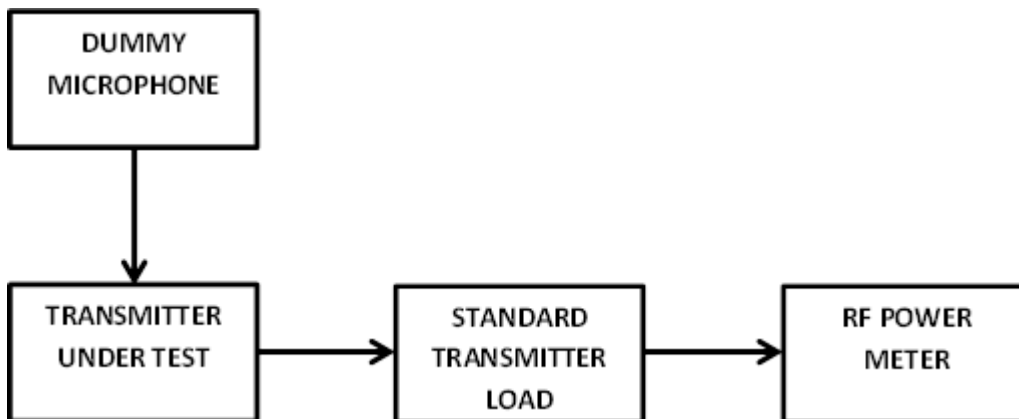
[..] All the other bands in Table 1 may be used for low-power auxiliary equipment, one-or two-way communication:
470 – 608 & 614 – 698 MHz : 250 mW

4.2 Test Equipment

Type	Manufacturer/ Model No.	EMCC Ident No.	Last Calibration	Next Calibration
Radio Communication Tester	R&S, CMTA 84	373	2012-06	2014-06
Attenuator	Bird, 2-18A-MFN-10	2728	2013-05	2015-05
HF-DC-Voltmeter	R&S, URV 5 (URY)	298	2014-02	2016-02
Coaxial Termination	909A	3555	2013-07	2015-07
Insertion Probe	R&S, URV 5-Z2	545	2014-02	2016-02

4.3 Test Procedures

The RF output of the EUT was measured by means of a RF power meter.



4.4 Results

The maximum measured transmitter output power is 19.2 dBm at a carrier frequency of 470 MHz. Therefore, the transmitter output power is below the maximum allowed output power of 250 mW ($\cong$ 24 dBm). See appendix A1.1 for detailed test data.

The EUT meets the requirements of this section.

Test Personnel: Patrick Reusch
Test Date: 2014-04-23

5 AUDIO MODULATION CHARACTERISTICS

Test Requirement: FCC: Part 74.861 (e) (3)
IC: RSS-123 Section 5.2

Test Procedure: FCC: Section 2.1047
IC: RSS-123 Section 4.1

5.1 Regulation

FCC 47 CFR Part 74.861 (e) (3)

Any form of modulation may be used. A maximum deviation of ± 75 kHz is permitted when frequency modulation is employed.

IC RSS-123 Section 5.2

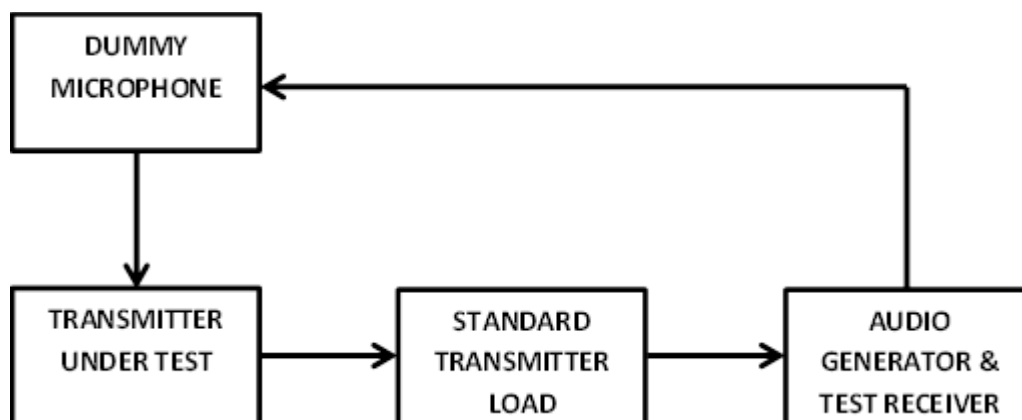
[..] Low-power auxiliary equipment operating in the bands allocated for TV broadcasting and frequency modulation (FM) radio broadcasting (54–72 MHz, 76–88 MHz, 88–107.5 MHz, 174–216 MHz, 470–608 MHz and 614–698 MHz) using FM may employ a frequency deviation up to a maximum of ± 75 kHz.

5.2 Test Equipment

Type	Manufacturer/ Model No.	EMCC Ident No.	Last Calibration	Next Calibration
Radio Communication Tester	R&S, CMTA 84	373	2012-06	2014-06

5.3 Test Procedures

The audio modulation characteristics of the EUT were measured by means of a radio communication tester by varying the audio frequency and the audio input level. The equipment was connected as below. The maximum deviation (positive or negative) was recorded.



5.4 Results

The maximum measured deviation of the transmitter output frequency is 63.9 kHz. Therefore, there is a margin of 11.1 kHz to the maximum allowed deviation of ± 75 kHz. See appendix A1.2 for detailed test data.

The EUT meets the requirements of this section.

Test Personnel: Patrick Reusch
Test Date: 2014-04-23

6 FREQUENCY STABILITY

Test Requirement: FCC: Part 74.861 (e) (4)
IC: RSS-123 Section 5.4

Test Procedure: FCC: Section 2.1055
IC: RSS-Gen Section 4.7

6.1 Regulation

FCC 47 CFR Part 74.861 (e) (4)

The frequency tolerance of the transmitter shall be 0.005 percent.

IC RSS-123 Section 5.4

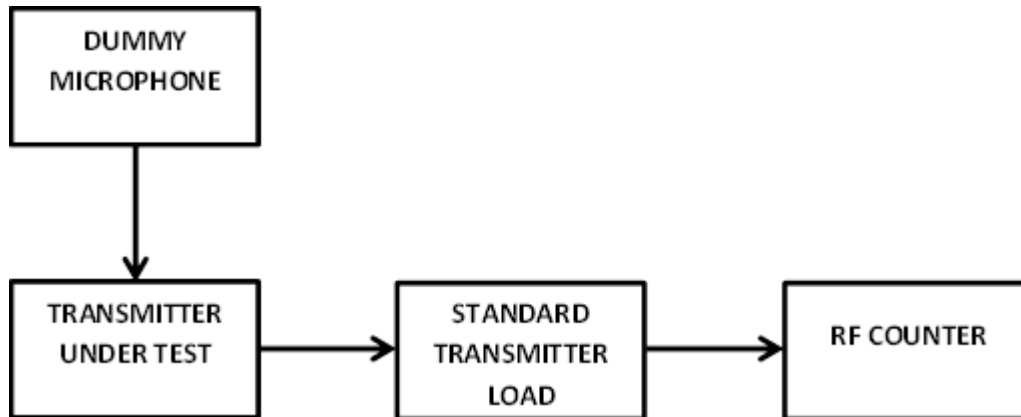
The frequency stability of low-power licensed radio apparatus shall comply with the limits specified in tables 1 and 2 when tested under the frequency stability testing condition specified in RSS-Gen. Frequency Stability according to Table 1, RSS-123 Section 5: ± 50 ppm

6.2 Test Equipment

Type	Manufacturer/ Model No.	EMCC Ident No.	Last Calibration	Next Calibration
Radio Communication Tester	R&S, CMTA 84	373	2012-06	2014-06
Attenuator	Bird, 2-18A-MFN-10	2728	2013-05	2015-05
Attenuator	Bird, 2-18A-MFN-10	2725	2013-06	2015-06
Digital Multimeter	Keithley, Model 2000	3069	2012-12	2014-12
Spectrum Analyzer	R&S, FSU50	3831	2013-07	2014-07
DC Power Supply	Tektronix, PWS4205	4721	-	-
Thermal and climatic chamber	VC 4018, Vötsch	2996	2013-02	2015-02

6.3 Test Procedures

The frequency stability of the EUT was measured by variation of the supply voltage and the ambient temperature by means of a Spectrum Analyzer.



6.4 Results

The maximum measured deviation of the transmitter's nominal frequency is 0.39 ppm (over supply voltage range) and 0.43 ppm (over temperature range). The maximum allowed deviation amounts ± 50 ppm, 0.005 percent, respectively. See appendix A1.3 and A1.4 for detailed test data.

The EUT meets the requirements of this section.

Test Personnel: Patrick Reusch
Test Date: 2014-04-23 and 2014-04-24

7 EMISSION BANDWIDTH

Test Requirement: FCC: Part 74.861 (e) (5)
IC: RSS-123 Section 5.3

Test Procedure: FCC: Section 2.1049
IC: RSS-Gen Section 4.6

7.1 Regulation

FCC 47 CFR Part 74.861 (e) (5)

The operating bandwidth shall not exceed 200 kHz.

IC RSS-123 Section 5.3

The occupied bandwidth as defined in RSS-Gen shall not exceed the authorized bandwidth specified in tables 1 and 2.

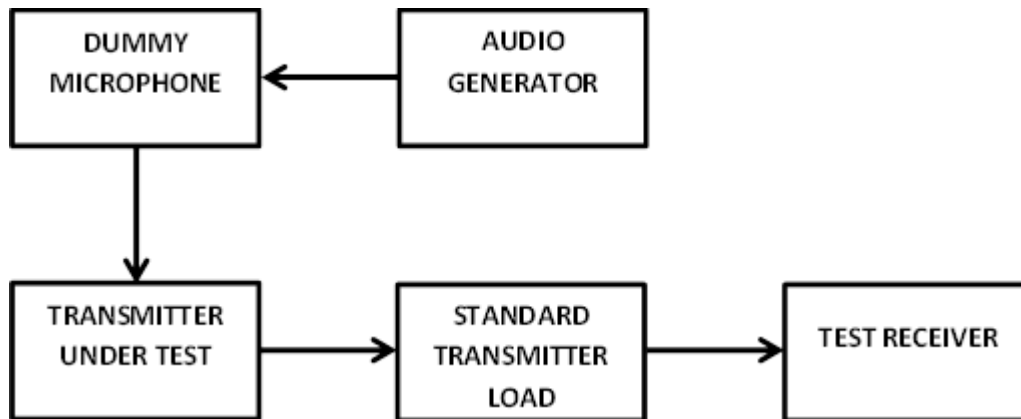
Authorized Bandwidth according to Table1 in 470–608 and 614-698 MHz band: 200 kHz

7.2 Test Equipment

Type	Manufacturer/ Model No.	EMCC Ident No.	Last Calibration	Next Calibration
Radio Communication Tester	R&S, CMTA 84	373	2012-06	2014-06
Attenuator	Bird, 2-18A-MFN-10	2728	2013-05	2015-05
Attenuator	Bird, 2-18A-MFN-10	2725	2013-06	2015-06
Spectrum Analyzer	R&S, FSU50	3831	2013-07	2014-07

7.3 Test Procedures

The emission mask plots were taken in a direct conducted mode of the RF signal to the Spectrum Analyzer via appropriate attenuator. The 2500 Hz modulating signal was applied by dummy microphone to the EUT.



7.4 Results

The maximum measured occupied bandwidth of the transmitter's emission is 128.4 kHz. The margin to the allowed bandwidth of 200 kHz amounts 71.6 kHz. See appendix A1.5 for detailed test data.

The EUT meets the requirements of this section.

Test Personnel: Patrick Reusch
Test Date: 2014-04-25

8 SPURIOUS EMISSIONS AT ANTENNA PORT

Test Requirement: FCC: Part 74.861 (e) (6)
IC: RSS-123 Section 5.5

Test Procedure: FCC: Section 2.1051
IC: RSS-Gen Section 4.9

8.1 Regulation

FCC 47 CFR Part 74.861 (e) (6)

The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

- (i) On any frequency removed from the operating frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: at least 25 dB;
- (ii) On any frequency removed from the operating frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: at least 35 dB;

(iii) On any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth: at least $43 + 10 \log_{10}(\text{mean output power in watts})$ dB.

$$43 + 10 \log_{10}(P [W]) = 43 + 10 \log_{10}(0.1 W) = 33 \text{ dB}$$

Calculation of limit

$$20 \text{ dBm} - 33 \text{ dB} = -13 \text{ dBm}$$

IC RSS-123 Section 5.5

The power of unwanted emissions (measured with a resolution bandwidth of 1% of the authorized bandwidth) shall be attenuated below the mean output power, P_{MEAN} in dBW, of the transmitter as follows:

- (i) at least 25 dB on any frequency removed from the operating frequency by more than 50% up to and including 100% of the authorized bandwidth; and
- (ii) at least 35 dB on any frequency removed from the operating frequency by more than 100% up to and including 250% of the authorized bandwidth.

The power of unwanted emissions (measured with a resolution bandwidth of 30 kHz) shall be attenuated below the mean output power, P_{MEAN} in dBW, of the transmitter as follows:

- (i) at least $55 + 10 \log_{10}(P_{\text{MEAN}} \text{ in watts})$ dB: on any frequency removed from the operating frequency by more than 250% of the authorized bandwidth.

$$55 + 10 \log_{10}(P [W]) = 55 + 10 \log_{10}(0.1 W) = 45 \text{ dB}$$

Calculation of limit

$$20 \text{ dBm} - 45 \text{ dB} = -25 \text{ dBm}$$

According to ANSI/TIA-603-D transmitter unwanted emissions must be tested twice:

- a) Radiated spurious emissions with the EUT antenna port terminated with a non-radiating load and
- b) Conducted spurious emissions with the EUT antenna port connected via attenuator to the test receiver.

8.2 Test Equipment

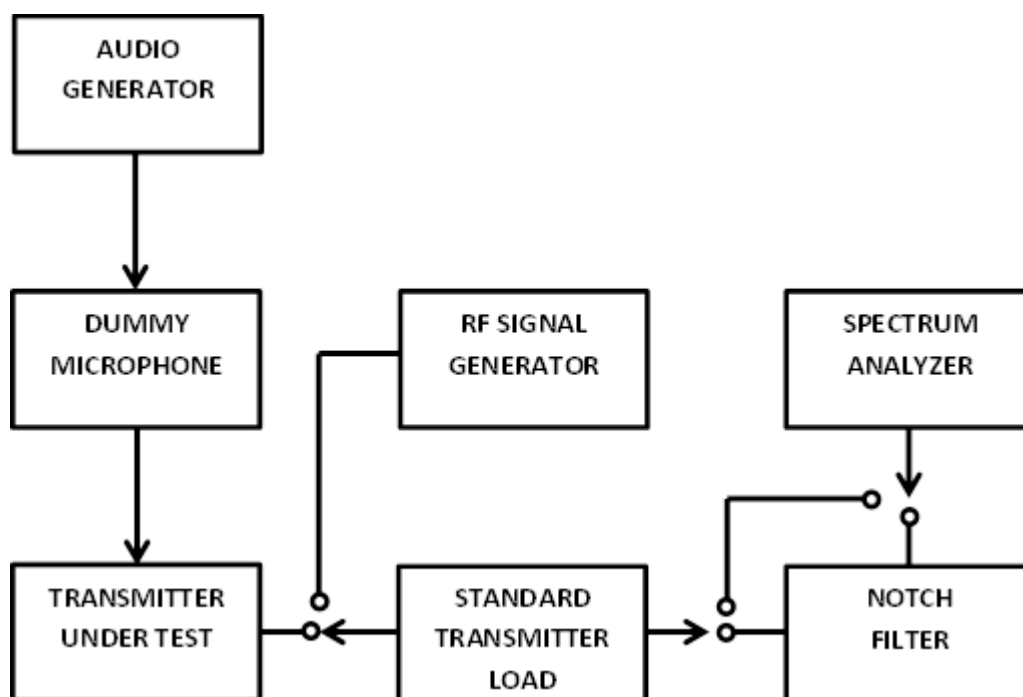
Type	Manufacturer/ Model No.	EMCC Ident No.	Last Calibration	Next Calibration
Radio Communication Tester	R&S, CMTA 84	373	2012-06	2014-06
Attenuator	Bird, 2-18A-MFN-10	2728	2013-05	2015-05
Spectrum Analyzer	R&S, FSU50	3831	2013-07	2014-07
Tunable Reject Filter	Anthony, ATR 450-1000-3EE	1807	-	-
Octave Bandpass Filter	Microphase, K0916	1036	2013-07	2015-07
Octave Bandpass Filter	Microphase, K0917	1037	2013-06	2015-06
Octave Bandpass Filter	Microphase, K0918	1038	2013-06	2015-06

8.3 Test Procedure

The EUT was connected as illustrated below. The 2500 Hz modulating signal was applied by dummy microphone to the EUT.

Prescan: The measurement was performed by using a notch filter, which is tuned to the carrier frequency of the transmitter to avoid analyzer overload.

Final measurement: A notch filter respectively bandpass filter was used to avoid analyzer overload for harmonics measurement.



FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX

Conducted Emission Test Characteristics	up to 1 GHz
Test frequencies	Prescan: 5 MHz to 1 GHz Final: 5 MHz up to less than 2 nd harmonic
Test instrumentation resolution bandwidth	10 kHz (acc. to TIA 603-D, chapter 2.2.13)
Test instrumentation detector	Peak detector

Conducted Emission Test Characteristics	above 1 GHz
Test frequencies	Prescan: 1 GHz to 10 GHz Final: up to the 10 th harmonic
Test instrumentation resolution bandwidth	Prescan: 10 kHz Final: 1 MHz
Test instrumentation detector	Peak detector

8.4 Results

The maximum harmonics were measured at a carrier frequency of 470 MHz.
The 2nd harmonic of the transmitter is -53.18 dBm with 72.41 dBc and the 3rd harmonic has a level of -69.14 dBm with 88.37 dBc. Further harmonics are below the noise floor. See appendix A1.6 for detailed test data.

The EUT meets the requirements of this section.

Test Personnel: Patrick Reusch
Test Date: 2014-04-25 and 2014-04-29

9 FIELD STRENGTH OF SPURIOUS RADIATION

Test Requirement: FCC: Part 74.861 (e) (6)
 IC: RSS-123 Section 5.5

Test Procedure: FCC: Section 2.1053
 IC: RSS-Gen Section 4.9

9.1 Regulation

FCC 47 CFR Part 74.861 (e) (6)

[.] The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

(iii) On any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth: at least $43 + 10 \log_{10}$ (mean output power in watts) dB.

$$43 + 10 \log_{10}(P [W]) = 43 + 10 \log_{10}(0.1 W) = 33 \text{ dB}$$

Calculation of limit

$$20 \text{ dBm} - 33 \text{ dB} = -13 \text{ dBm}$$

IC RSS-123 Section 5.5

[.] The power of unwanted emissions (measured with a resolution bandwidth of 30 kHz) shall be attenuated below the mean output power, P_{MEAN} in dBW, of the transmitter as follows:

(i) at least $55 + 10 \log_{10}$ (P_{MEAN} in watts) dB: on any frequency removed from the operating frequency by more than 250% of the authorized bandwidth.

$$55 + 10 \log_{10}(P [W]) = 55 + 10 \log_{10}(0.1 W) = 45 \text{ dB}$$

Calculation of limit

$$20 \text{ dBm} - 45 \text{ dB} = -25 \text{ dBm}$$

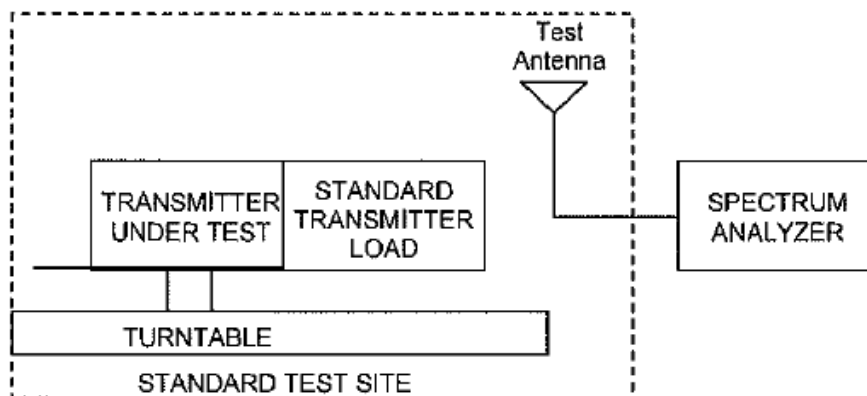
9.2 Test Equipment

Type	Manufacturer/ Model No.	EMCC Ident No.	Last Calibration	Next Calibration
EMI/RFI Test Receiver	R&S, ESS	303	2014-02	2015-02
Spectrum Analyzer	R&S, FSU50	3831	2013-07	2014-07
Biconilog. Antenna	EMCO, 3143	898	2014-01	2016-01
Double Ridged Guide Ant.	Schwarzbeck, BBHA 9120D	3236	2013-02	2015-02
Loop Antenna	R&S, HFH 2-Z2	374	2011-04	2014-04
HF-Cable	IW, NPS-2801AN-2756	4393	2013-09	2014-09
Anechoic Room SAC	Frankonia	1889	-	-
Coaxial Termination	909A	3555	2013-07	2015-07

9.3 Test Procedures

For measuring the radiated spurious emissions of the EUT, the antenna port has to be terminated with a non-radiating load according to ANSI-TIA 603-D. The signal is unmodulated during radiated spurious emission tests.

The equipment has to be connected as shown in the picture below:



The EUT is placed on the turntable in the standard test site. All sides of the EUT have to be investigated during the measurement.

Remark:

Measurements below 1 GHz performed in dBm units. The limits for frequencies above 1 GHz are converted into dB μ V/m units. This has been done with the following equations:

$$E [dB\mu V/m] = EIRP[dBm] + 104.8 - 20 \log\left(\frac{r}{m}\right)$$

The resulting limits for frequencies above 1 GHz are:

$$E_{FCC} [dB\mu V/m] = 82.3 dB\mu V/m$$

$$E_{IC} [dB\mu V/m] = 70.3 dB\mu V/m$$

9.4 Results

The antenna port of the EUT was terminated with a non-radiating load. Therefore, the radiated emission of the carrier is highly attenuated. All other radiated emissions of the EUT were found to be below the noise floor. See appendix A1.7 for detailed test data.

The EUT meets the requirements of this section.

Test Personnel: Patrick Reusch

Test Date: 2014-05-02

10 MISCELLANEOUS COMMENTS AND NOTES

None.

APPENDIX 1 – TEST DATA

A1.1 RF Power Output

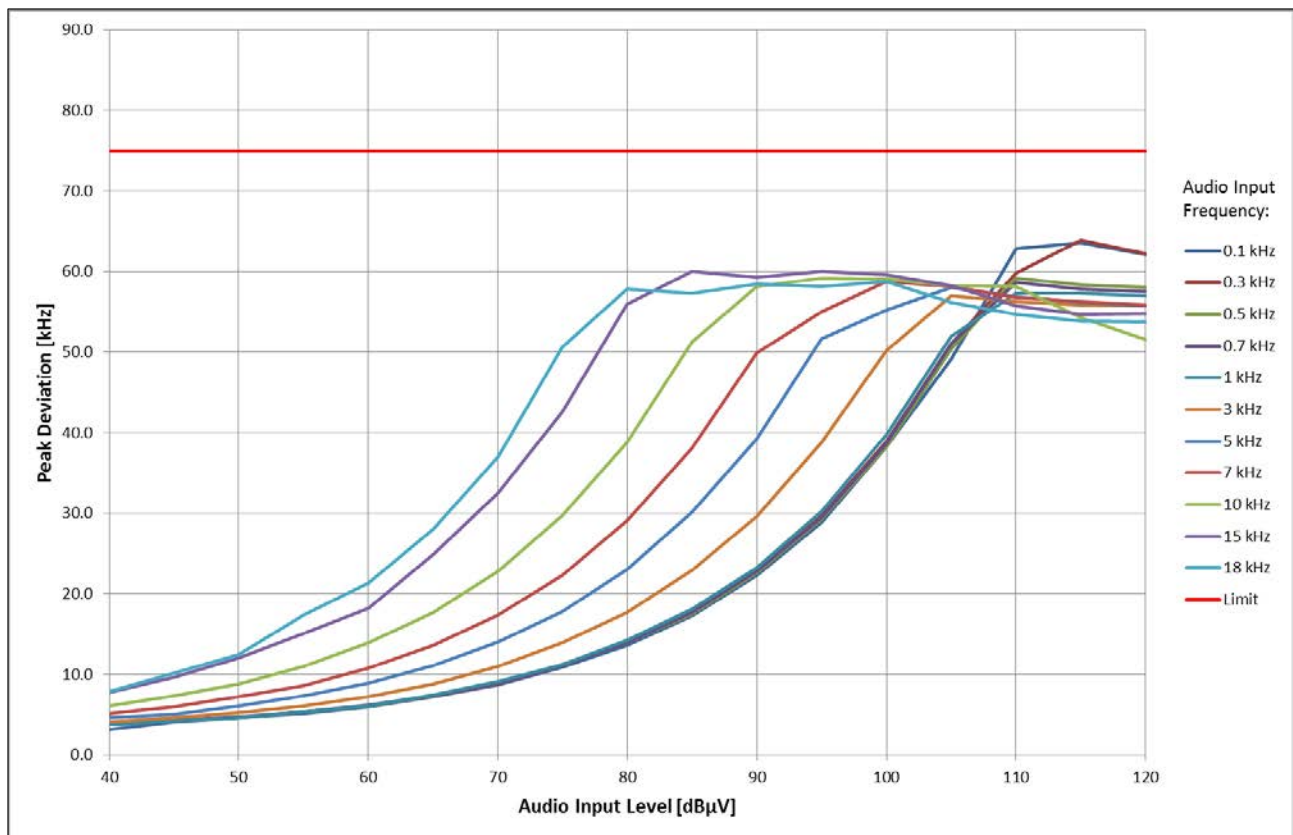
Conducted Power Measurement Results, Supply Voltage 3.0 V						
Frequency Setting	EUT	Modulation	Power Setting	Rated Power	Result	Deviation
470.000 MHz	T1541593	CW	HIGH	100mW ± 20 dBm	19.20 dBm	- 0.80 dB
555.000 MHz					17.68 dBm	- 2.32 dB
607.925 MHz					18.89 dBm	- 1.11 dB
614.075 MHz					18.73 dBm	- 1.27 dB
640.000 MHz					18.45 dBm	- 1.58 dB
640.000 MHz	T1541595	CW	HIGH	100mW ± 20 dBm	18.54 dBm	- 1.46 dB
667.000 MHz					18.45 dBm	- 1.56 dB
698.000 MHz					18.50 dBm	- 1.50 dB

Losses are taken into account for the results. Calculation formula:

Result = Reading + Cable Loss + Atten. Loss

A1.2 Audio Modulation Characteristics

AF level [dBμV]	AF Frequency [kHz] / Peak Deviation [kHz]										
	0.1	0.3	0.5	0.7	1	3	5	7	10	15	18
40	3.1	3.8	3.8	3.8	3.8	4.1	4.6	5.1	6.1	7.7	7.8
45	4.1	4.2	4.3	4.3	4.2	4.6	5.0	6.0	7.3	9.6	10.1
50	4.6	4.6	4.6	4.7	4.6	5.2	6.1	7.2	8.8	12.0	12.5
55	5.1	5.3	5.3	5.3	5.3	6.1	7.3	8.6	11.0	15.1	17.4
60	6.0	6.1	6.1	6.2	6.1	7.2	8.9	10.8	13.9	18.2	21.3
65	7.2	7.3	7.3	7.3	7.4	8.8	11.1	13.6	17.7	24.9	28.0
70	8.7	8.8	8.8	8.8	9.1	11.0	14.0	17.4	22.8	32.5	37.0
75	10.9	11.1	11.2	11.1	11.2	13.9	17.8	22.3	29.7	42.6	50.6
80	13.6	14.0	13.9	13.9	14.2	17.7	23.0	29.1	38.8	55.9	57.8
85	17.3	17.8	17.5	17.7	18.1	22.9	30.1	38.1	51.2	60.0	57.3
90	22.3	22.9	22.6	22.8	23.2	29.6	39.2	49.9	58.1	59.3	58.4
95	28.9	29.7	29.3	29.5	30.2	38.8	51.6	55.0	59.2	60.0	58.1
100	38.3	38.9	38.3	38.7	39.7	50.2	55.2	58.8	59.1	59.6	58.8
105	49.1	51.0	50.4	51.0	52.0	57.0	58.0	58.1	58.2	58.2	56.1
110	62.8	59.8	59.2	58.7	57.3	56.2	56.9	56.8	58.1	55.7	54.7
115	63.6	63.9	58.3	57.8	57.3	55.8	56.1	56.2	54.3	54.7	53.8
120	62.1	62.2	58.0	57.5	57.0	55.7	55.7	55.8	51.5	54.8	53.7



A1.3 Frequency Stability vs. Voltage

EUT #T1541593				
Frequency setting: 470.000 MHz				
Voltage [V]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [%]	Frequency Error [ppm]
1.8	EUT is shutting down			
1.9	470.0000933	93.3	0.0000199	0.199
2.0	470.0000960	96.0	0.0000204	0.204
2.2	470.0000966	96.6	0.0000206	0.206
2.4	470.0000969	96.9	0.0000206	0.206
2.6	470.0000972	97.2	0.0000207	0.207
2.8	470.0000932	93.2	0.0000198	0.198
3.0	470.0000939	93.9	0.0000200	0.200
3.2	470.0000970	97.0	0.0000206	0.206
3.4	470.0000942	94.2	0.0000200	0.200
3.5	470.0000927	92.7	0.0000197	0.197

EUT #T1541593				
Frequency setting: 555.000 MHz				
Voltage [V]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [%]	Frequency Error [ppm]
1.8	EUT is shutting down			
1.9	555.0001169	116.9	0.0000211	0.211
2.0	555.0001145	114.5	0.0000206	0.206
2.2	555.0001147	114.7	0.0000207	0.207
2.4	555.0001129	112.9	0.0000203	0.203
2.6	555.0001151	115.1	0.0000207	0.207
2.8	555.0001126	112.6	0.0000203	0.203
3.0	555.0001098	109.8	0.0000198	0.198
3.2	555.0001109	110.9	0.0000200	0.200
3.4	555.0001105	110.5	0.0000199	0.199
3.5	555.0001193	119.3	0.0000215	0.215

EUT #T1541593				
Frequency setting: 639.000 MHz				
Voltage [V]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [%]	Frequency Error [ppm]
1.8	EUT is shutting down			
1.9	639.0001284	128.4	0.0000201	0.201
2.0	639.0001273	127.3	0.0000199	0.199
2.2	639.0001261	126.1	0.0000197	0.197
2.4	639.0001285	128.5	0.0000201	0.201
2.6	639.0001303	130.3	0.0000204	0.204
2.8	639.0001258	125.8	0.0000197	0.197
3.0	639.0001289	128.9	0.0000202	0.202
3.2	639.0001256	125.6	0.0000197	0.197
3.4	639.0001253	125.3	0.0000196	0.196
3.5	639.0001189	118.9	0.0000186	0.186
EUT #T1541595				

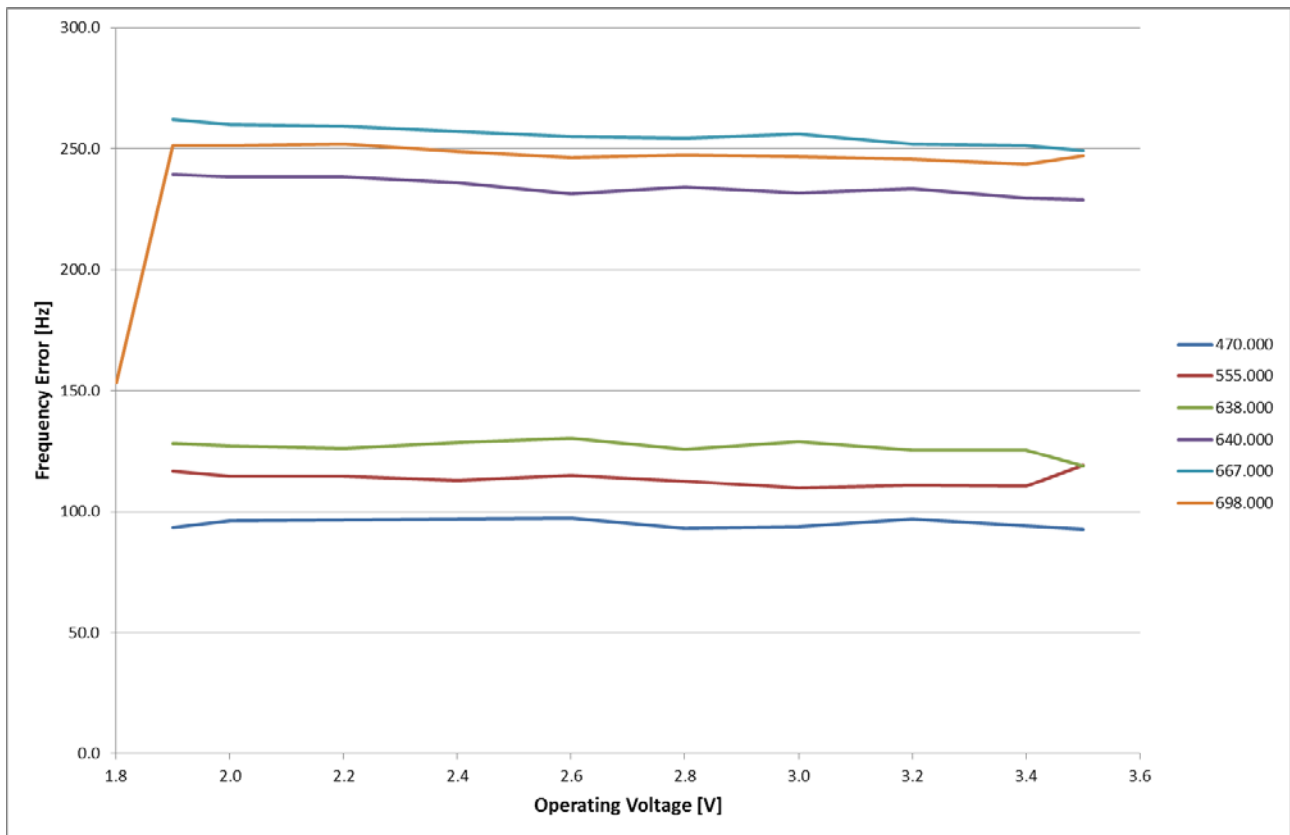
FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX

Frequency setting: 640.000 MHz				
Voltage [V]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [%]	Frequency Error [ppm]
1.8	EUT is shutting down			
1.9	640.0002395	239.5	0.0000374	0.374
2.0	640.0002383	238.3	0.0000372	0.372
2.2	640.0002384	238.4	0.0000372	0.372
2.4	640.0002359	235.9	0.0000369	0.369
2.6	640.0002315	231.5	0.0000362	0.362
2.8	640.0002343	234.3	0.0000366	0.366
3.0	640.0002316	231.6	0.0000362	0.362
3.2	640.0002336	233.6	0.0000365	0.365
3.4	640.0002297	229.7	0.0000359	0.359
3.5	640.0002291	229.1	0.0000358	0.358

EUT #T1541595 Frequency setting: 667.000 MHz				
Voltage [V]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [%]	Frequency Error [ppm]
1.8	EUT is shutting down			
1.9	667.0002621	262.1	0.0000393	0.393
2.0	667.0002598	259.8	0.0000390	0.390
2.2	667.0002591	259.1	0.0000388	0.388
2.4	667.0002573	257.3	0.0000386	0.386
2.6	667.0002522	252.2	0.0000378	0.378
2.8	667.0002545	254.5	0.0000382	0.382
3.0	667.0002563	256.3	0.0000384	0.384
3.2	667.0002519	251.9	0.0000378	0.378
3.4	667.0002514	251.4	0.0000377	0.377
3.5	667.0002493	249.3	0.0000374	0.374

EUT #T1541595 Frequency setting: 698.000 MHz				
Voltage [V]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [%]	Frequency Error [ppm]
1.8	698.0001532	153.2	0.0000219	0.219
1.9	698.0002514	251.4	0.0000360	0.360
2.0	698.0002511	251.1	0.0000360	0.360
2.2	698.0002520	252.0	0.0000361	0.361
2.4	698.0002488	248.8	0.0000356	0.356
2.6	698.0002465	246.5	0.0000353	0.353
2.8	698.0002475	247.5	0.0000355	0.355
3.0	698.0002466	246.6	0.0000353	0.353
3.2	698.0002457	245.7	0.0000352	0.352
3.4	698.0002436	243.6	0.0000349	0.349
3.5	698.0002469	246.9	0.0000354	0.354

FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX



The EUT is shutting down, when the operating voltage is lower than 1.9 V (1.8 V, when operating at 698.000 MHz)

Calculation formula of the ppm frequency error:

$$ppm\ error = \left(\frac{MCF_{MHz}}{ACF_{MHz}} - 1 \right) \cdot 10^6$$

MCF is the Measured Carrier Frequency
 ACF is the Assigned Carrier Frequency

A1.4 Frequency Stability vs. Temperature

EUT #T1541593				
Frequency setting: 470.000 MHz				
Temperature [°C]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [%]	Frequency Error [ppm]
-30	470.0001301	130.1	0.00002768	0.277
-20	470.0001321	132.1	0.00002811	0.281
-10	470.0001383	138.3	0.00002943	0.294
0	470.0001401	140.1	0.00002981	0.298
10	470.0001390	139.0	0.00002957	0.296
20	470.0001394	139.4	0.00002966	0.297
30	470.0001421	142.1	0.00003023	0.302
40	470.0001411	141.1	0.00003002	0.300
50	470.0001397	139.7	0.00002972	0.297
55	470.0001486	148.6	0.00003162	0.316

EUT #T1541593				
Frequency setting: 555.000 MHz				
Temperature [°C]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [%]	Frequency Error [ppm]
-30	555.0001478	147.8	0.00002663	0.266
-20	555.0001499	149.9	0.00002701	0.270
-10	555.0001525	152.5	0.00002748	0.275
0	555.0001529	152.9	0.00002755	0.275
10	555.0001535	153.5	0.00002766	0.277
20	555.0001529	152.9	0.00002755	0.275
30	555.0001530	153.0	0.00002757	0.276
40	555.0001541	154.1	0.00002777	0.278
50	555.0001595	159.5	0.00002874	0.287
55	555.0001578	157.8	0.00002843	0.284

EUT #T1541593				
Frequency setting: 639.000 MHz				
Temperature [°C]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [%]	Frequency Error [ppm]
-30	639.0001698	169.8	0.00002657	0.266
-20	639.0001726	172.6	0.00002701	0.270
-10	639.0001742	174.2	0.00002726	0.273
0	639.0001740	174.0	0.00002723	0.272
10	639.0001762	176.2	0.00002757	0.276
20	639.0001766	176.6	0.00002764	0.276
30	639.0001750	175.0	0.00002739	0.274
40	639.0001780	178.0	0.00002786	0.279
50	639.0001794	179.4	0.00002808	0.281
55	639.0001789	178.9	0.00002800	0.280

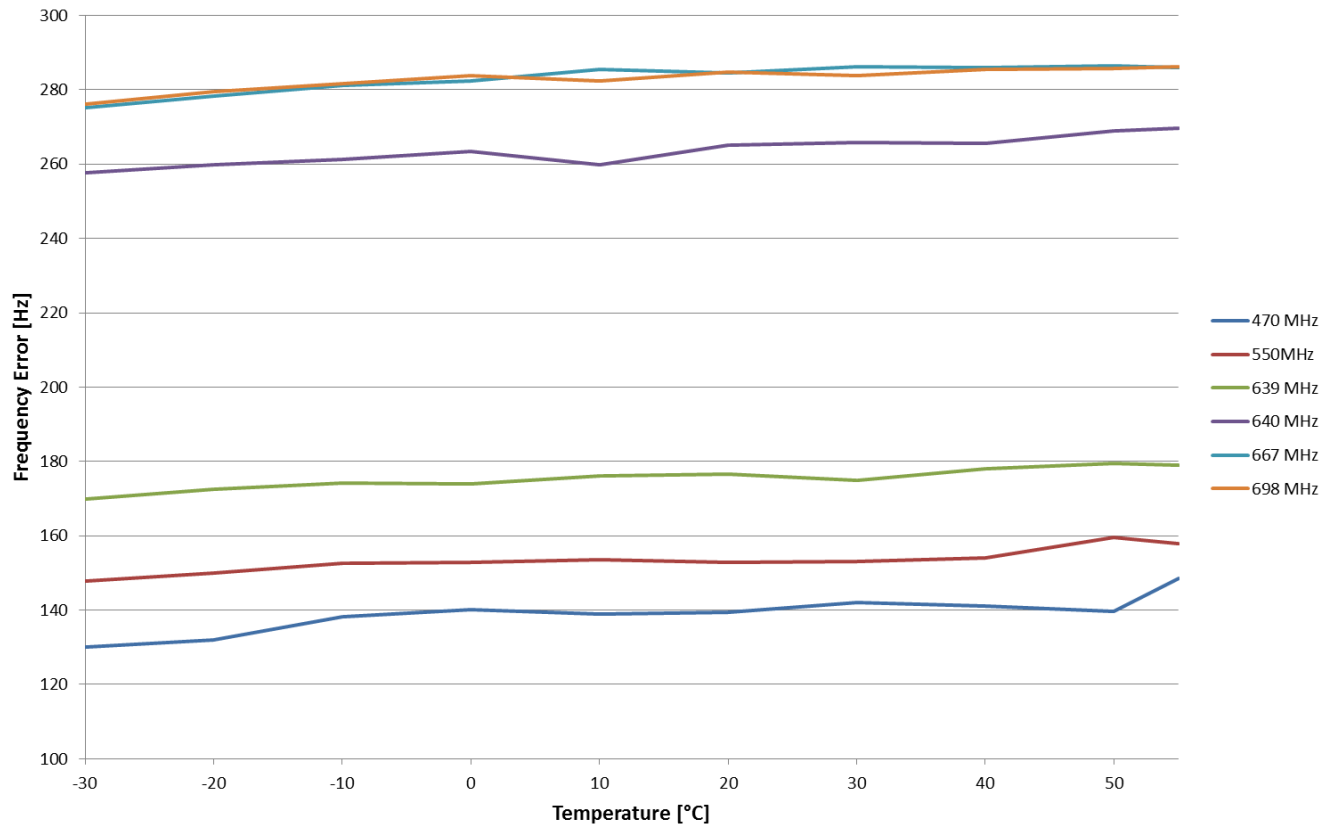
FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX

EUT #T1541595				
Frequency setting: 640.000 MHz				
Temperature [°C]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [%]	Frequency Error [ppm]
-30	640.0002577	257.7	0.00004027	0.403
-20	640.0002598	259.8	0.00004059	0.406
-10	640.0002612	261.2	0.00004081	0.408
0	640.0002634	263.4	0.00004116	0.412
10	640.0002599	259.9	0.00004061	0.406
20	640.0002651	265.1	0.00004142	0.414
30	640.0002658	265.8	0.00004153	0.415
40	640.0002655	265.5	0.00004148	0.415
50	640.0002689	268.9	0.00004202	0.420
55	640.0002697	269.7	0.00004214	0.421

EUT #T1541595				
Frequency setting: 667.000 MHz				
Temperature [°C]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [%]	Frequency Error [ppm]
-30	667.0002751	275.1	0.00004124	0.412
-20	667.0002783	278.3	0.00004172	0.417
-10	667.0002812	281.2	0.00004216	0.422
0	667.0002823	282.3	0.00004232	0.423
10	667.0002854	285.4	0.00004279	0.428
20	667.0002846	284.6	0.00004267	0.427
30	667.0002861	286.1	0.00004289	0.429
40	667.0002859	285.9	0.00004286	0.429
50	667.0002864	286.4	0.00004294	0.429
55	667.0002860	286.0	0.00004288	0.429

EUT #T1541595				
Frequency setting: 698.000 MHz				
Temperature [°C]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [%]	Frequency Error [ppm]
-30	698.0002762	276.2	0.00003957	0.396
-20	698.0002795	279.5	0.00004004	0.400
-10	698.0002816	281.6	0.00004034	0.403
0	698.0002839	283.9	0.00004067	0.407
10	698.0002823	282.3	0.00004044	0.404
20	698.0002848	284.8	0.00004080	0.408
30	698.0002839	283.9	0.00004067	0.407
40	698.0002854	285.4	0.00004089	0.409
50	698.0002858	285.8	0.00004095	0.409
55	698.0002861	286.1	0.00004099	0.410

FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX



Calculation formula of the ppm frequency error:

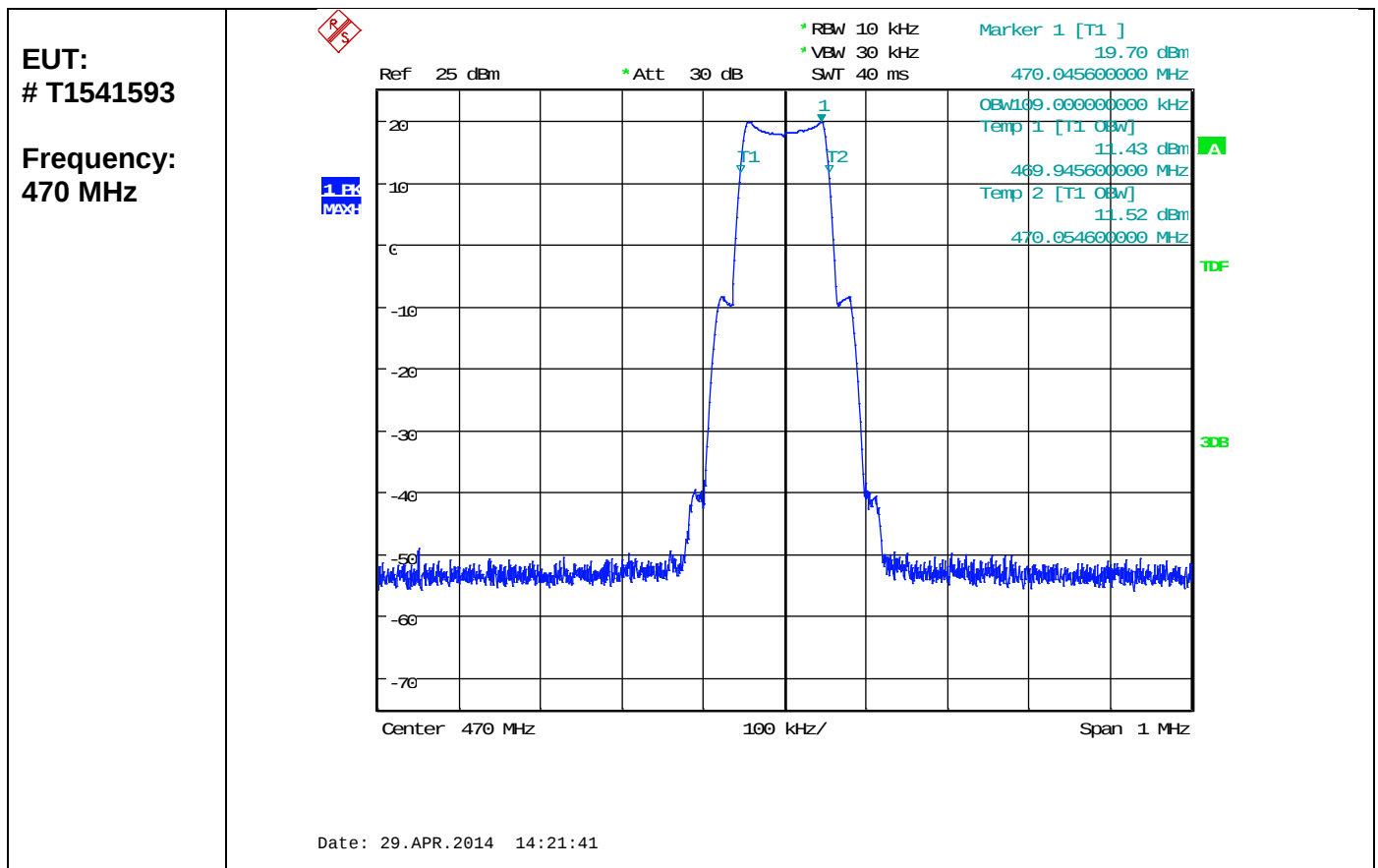
$$ppm\ error = \left(\frac{MCF_{MHz}}{ACF_{MHz}} - 1 \right) \cdot 10^6$$

MCF is the Measured Carrier Frequency
 ACF is the Assigned Carrier Frequency

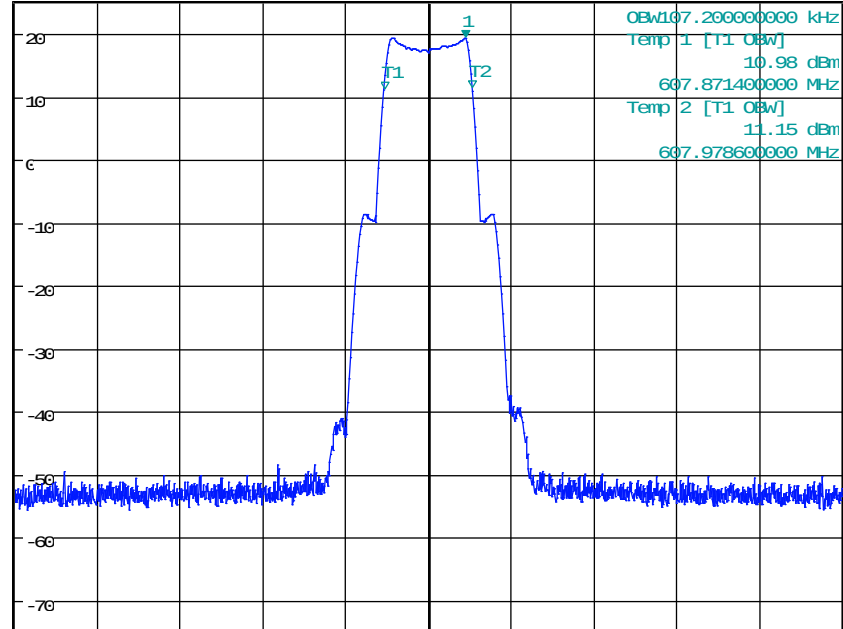
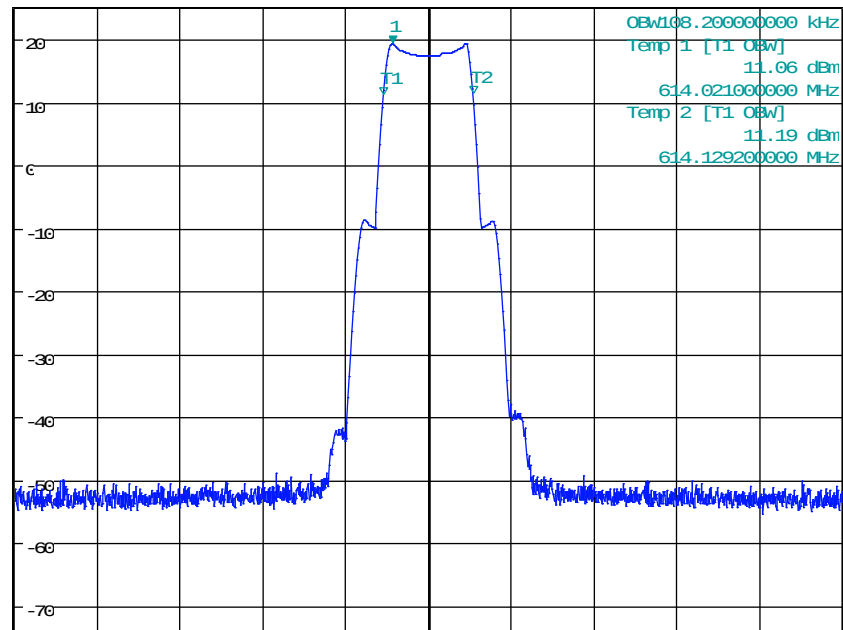
A1.5 Emission Bandwidth

EUT	Channel	Frequency [MHz]	99% Occupied Bandwidth [kHz]	Limit [kHz]	Margin [kHz]
# T1541593	Low	470	109.0	200	91.0
# T1541593	Restricted bandedge low	607.925	107.2	200	92.8
# T1541593	Restricted bandedge high	614.075	108.2	200	91.8
# T1541593	High	640	107.4	200	92.6
# T1541595	Low	640	128.4	200	71.6
# T1541595	Middle	667	127.2	200	72.8
# T1541595	High	698	125.8	200	74.2

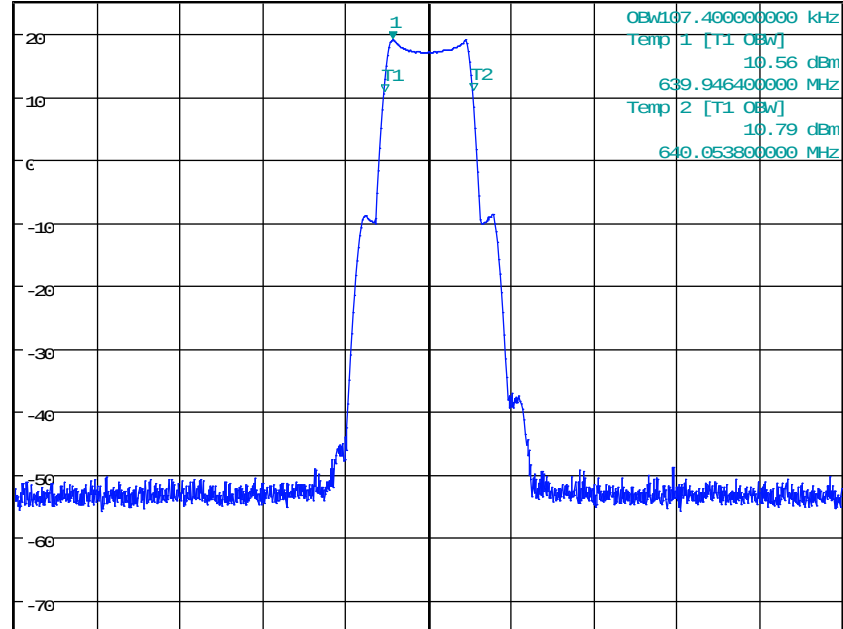
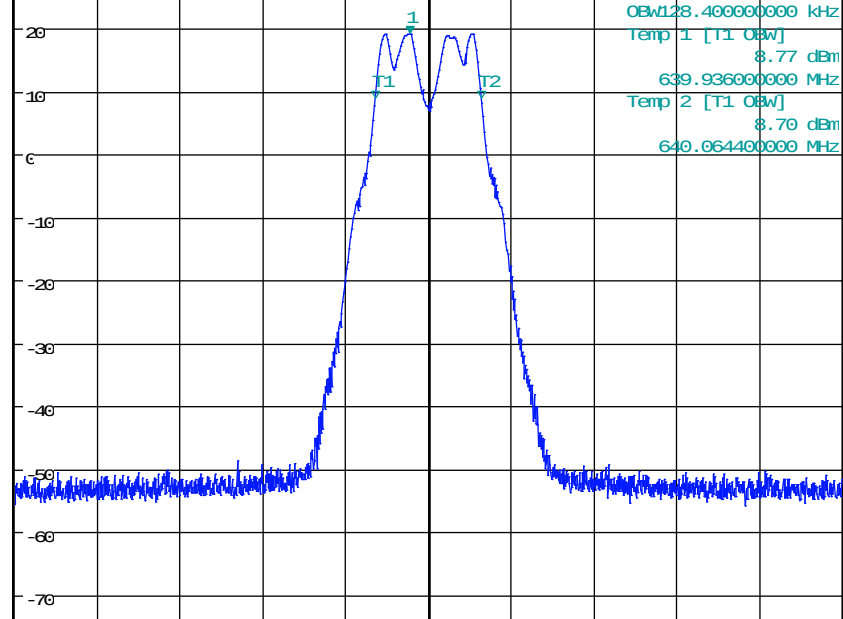
Trace 1, blue: Modulated signal



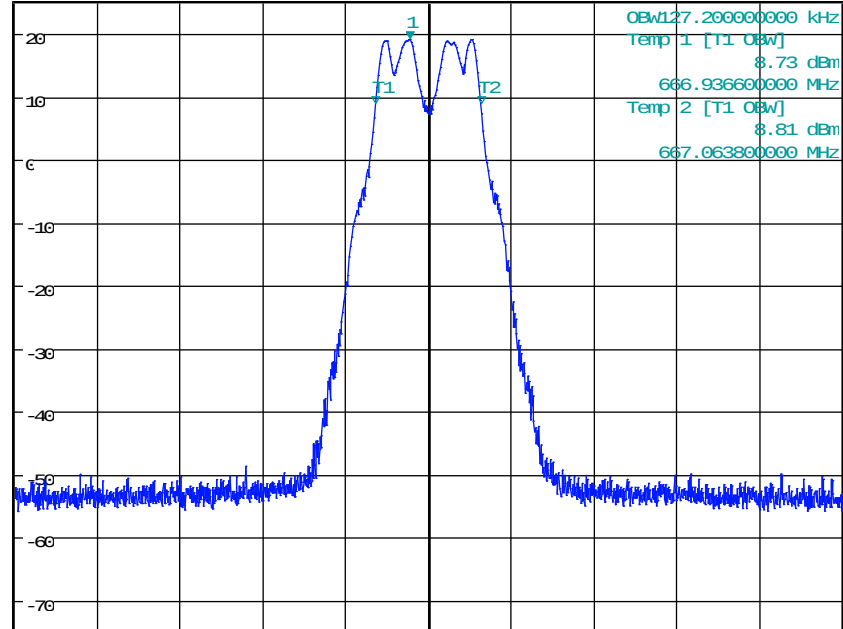
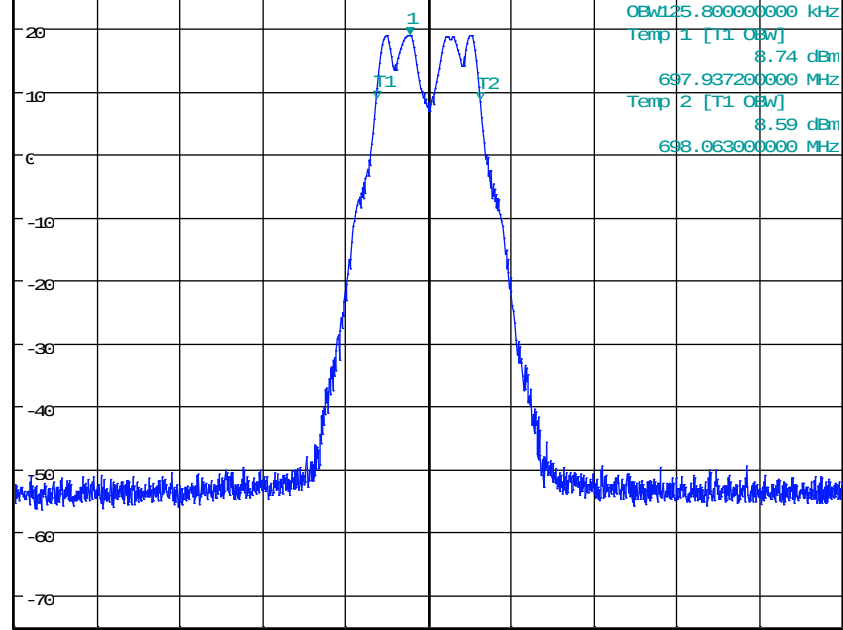
FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX

EUT: # T1541593 Frequency: 607.925 MHz	 1 PR MAX Ref 25 dBm *Att 30 dB *RBW 10 kHz *VBW 30 kHz SWT 40 ms Marker 1 [T1] 19.24 dBm 607.969400000 MHz OBW107.200000000 kHz Temp 1 [T1 OBW] 10.98 dBm 607.871400000 MHz Temp 2 [T1 OBW] 11.15 dBm 607.978600000 MHz  Center 607.925 MHz 100 kHz/ Span 1 MHz Date: 29.APR.2014 14:23:54
EUT: # T1541593 Frequency: 614.075 MHz	 1 PR MAX Ref 25 dBm *Att 30 dB *RBW 10 kHz *VBW 30 kHz SWT 40 ms Marker 1 [T1] 19.23 dBm 614.031000000 MHz OBW108.200000000 kHz Temp 1 [T1 OBW] 11.06 dBm 614.021000000 MHz Temp 2 [T1 OBW] 11.19 dBm 614.129200000 MHz  Center 614.075 MHz 100 kHz/ Span 1 MHz Date: 29.APR.2014 14:20:28

FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX

EUT: # T1541593 Frequency: 640 MHz	 1 PK MAX Ref 25 dBm *Att 30 dB *RBW 10 kHz *VBW 30 kHz SWT 40 ms Marker 1 [T1] 18.92 dBm 639.956600000 MHz OBW107.400000000 kHz Temp 1 [T1 OBW] 10.56 dBm 639.946400000 MHz Temp 2 [T1 OBW] 10.79 dBm 640.053800000 MHz  Center 640 MHz 100 kHz/ Span 1 MHz Date: 29.APR.2014 14:22:53
EUT: # T1541595 Frequency: 640 MHz	 1 PK MAX Ref 25 dBm *Att 30 dB *RBW 10 kHz *VBW 30 kHz SWT 40 ms Marker 1 [T1] 19.01 dBm 639.977600000 MHz OBW128.400000000 kHz Temp 1 [T1 OBW] 8.77 dBm 639.936600000 MHz Temp 2 [T1 OBW] 8.70 dBm 640.064400000 MHz  Center 640 MHz 100 kHz/ Span 1 MHz Date: 29.APR.2014 14:27:47

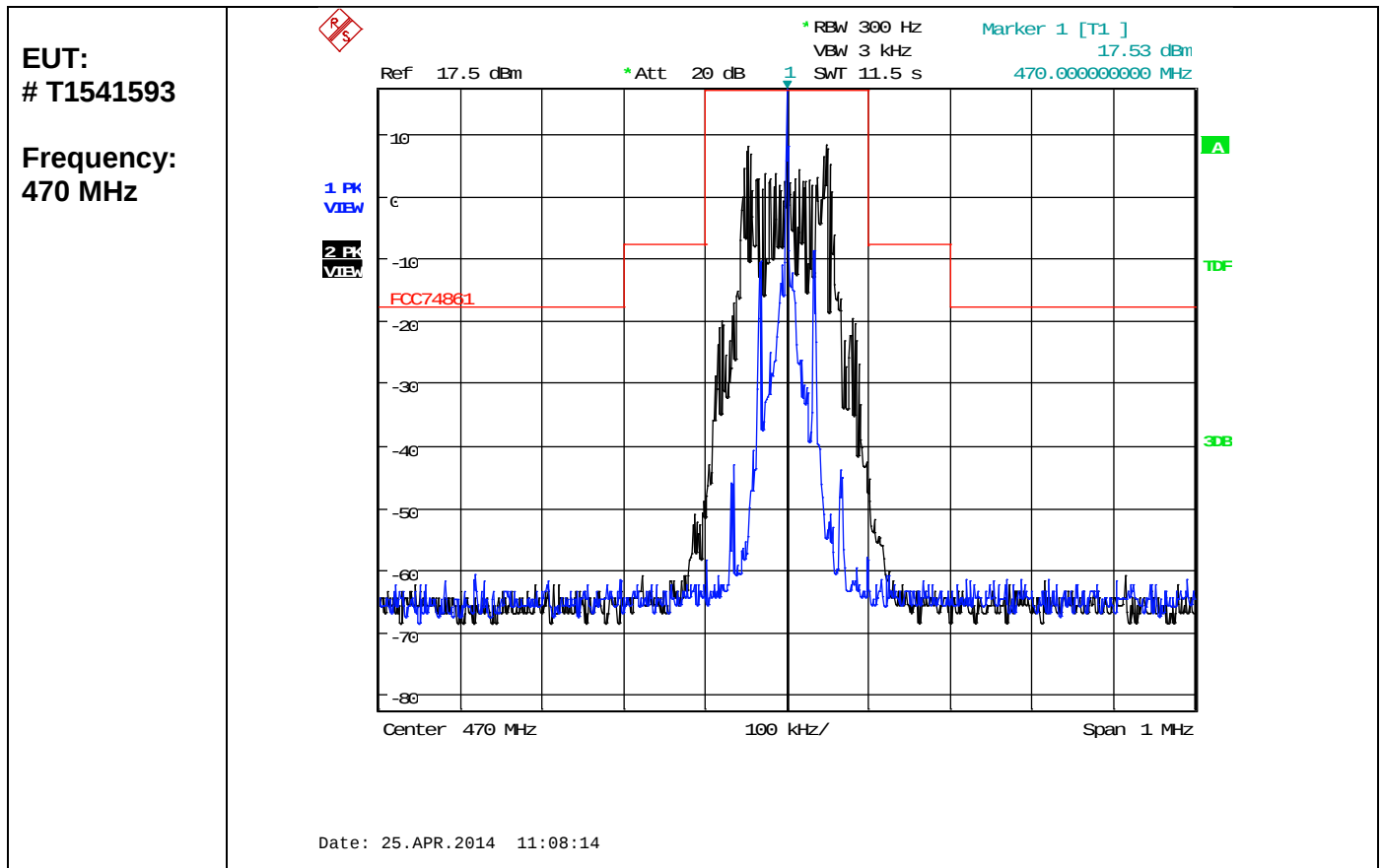
FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX

EUT: # T1541595 Frequency: 667 MHz	 1 PR MAX Ref 25 dBm *Att 30 dB *RBW 10 kHz *VBW 30 kHz SWT 40 ms Marker 1 [T1] 18.93 dBm 666.977800000 MHz OBW127.200000000 kHz 8.73 dBm Temp 1 [T1 OBW] 666.936600000 MHz 8.81 dBm Temp 2 [T1 OBW] 667.063800000 MHz  Center 667 MHz 100 kHz/ Span 1 MHz A TDF 3DB Date: 29.APR.2014 14:28:19
EUT: # T1541595 Frequency: 698 MHz	 1 PR MAX Ref 25 dBm *Att 30 dB *RBW 10 kHz *VBW 30 kHz SWT 40 ms Marker 1 [T1] 18.83 dBm 697.978200000 MHz OBW125.800000000 kHz 8.74 dBm Temp 1 [T1 OBW] 697.937200000 MHz 8.59 dBm Temp 2 [T1 OBW] 698.063000000 MHz  Center 698 MHz 100 kHz/ Span 1 MHz A TDF 3DB Date: 29.APR.2014 14:27:11

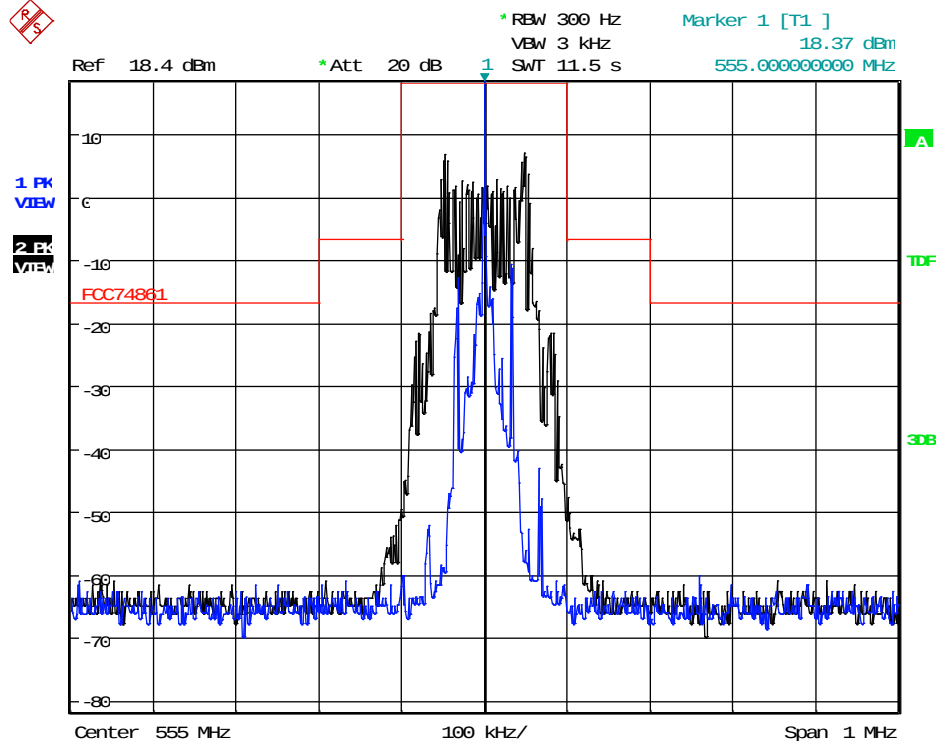
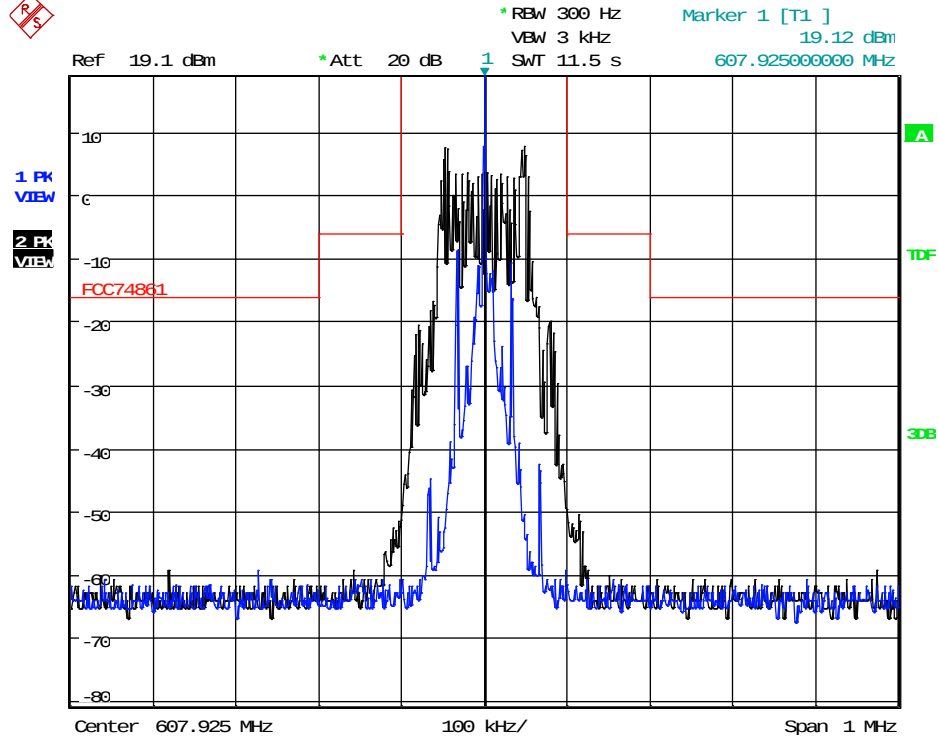
A1.6 Spurious emissions at antenna port

A1.6.1 Emission Mask

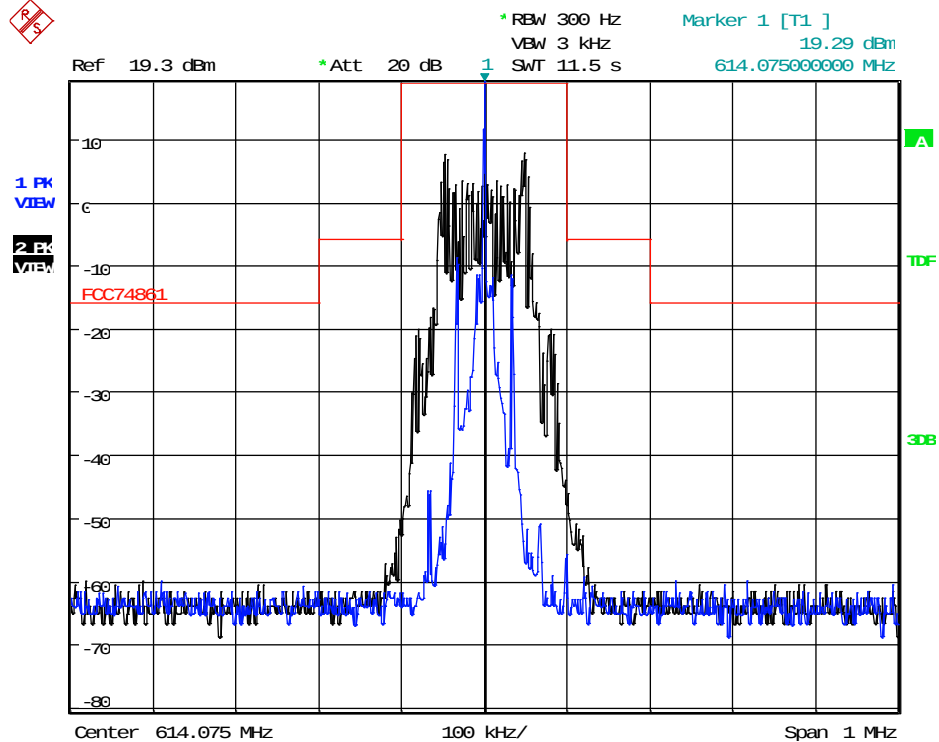
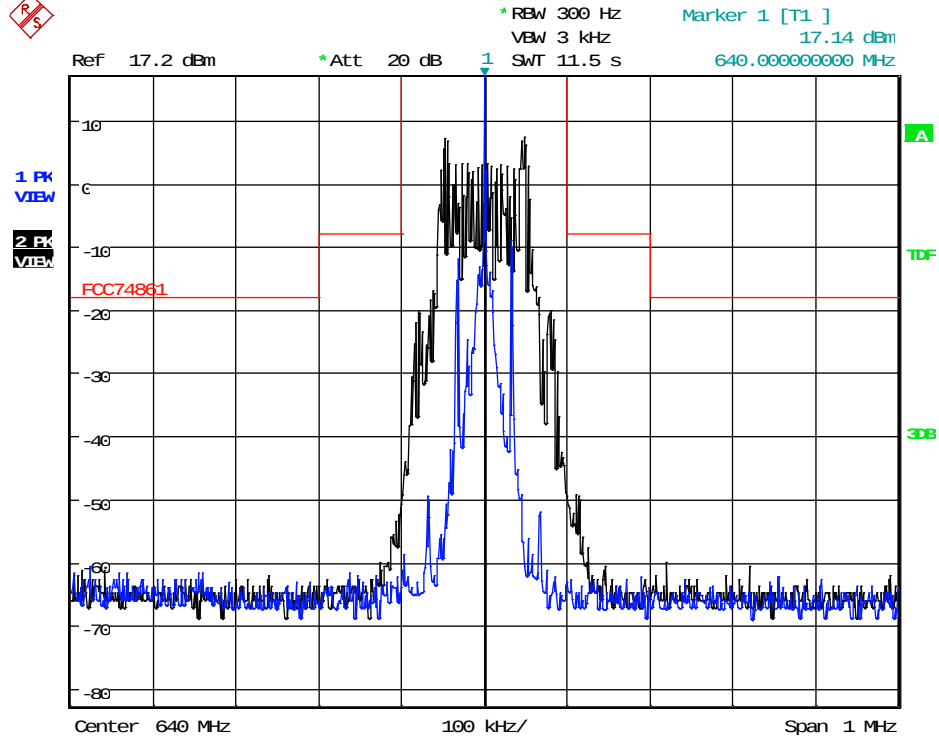
Trace 1, blue: Continuous wave
 Trace 2, black: Modulated signal



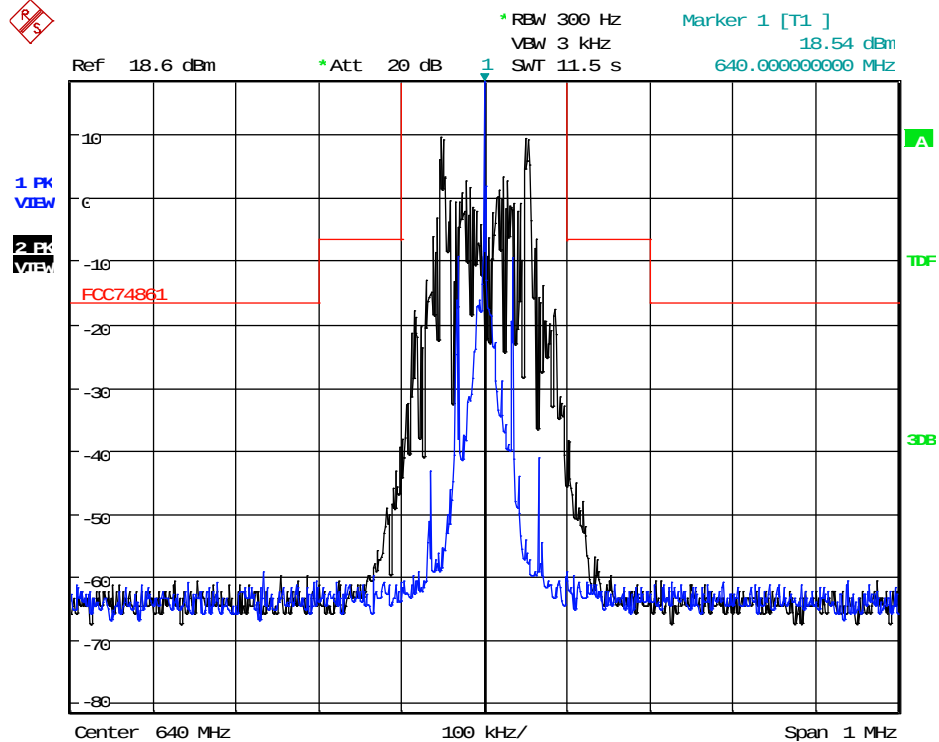
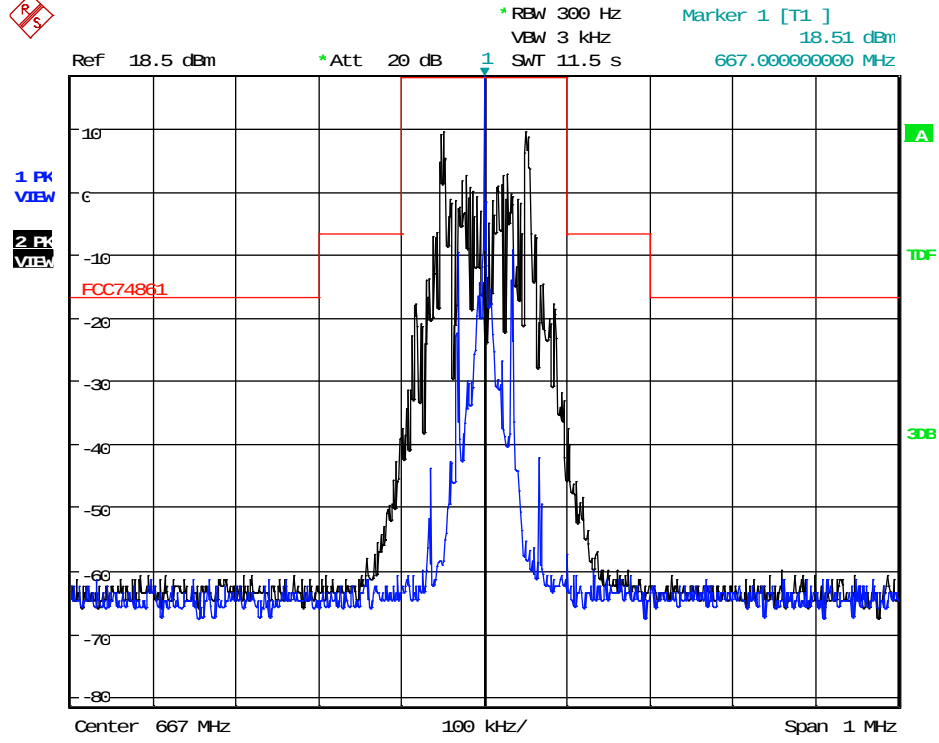
FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX

EUT: # T1541593 Frequency: 555 MHz	 Ref 18.4 dBm *Att 20 dB 1 RBW 300 Hz VBW 3 kHz SWT 11.5 s Marker 1 [T1] 18.37 dBm 555.00000000 MHz 1 PK VIBW 2 PK VIBW FCC74861 Center 555 MHz 100 kHz/ Span 1 MHz Date: 25.APR.2014 11:10:16
EUT: # T1541593 Frequency: 607.925 MHz	 Ref 19.1 dBm *Att 20 dB 1 RBW 300 Hz VBW 3 kHz SWT 11.5 s Marker 1 [T1] 19.12 dBm 607.92500000 MHz 1 PK VIBW 2 PK VIBW FCC74861 Center 607.925 MHz 100 kHz/ Span 1 MHz Date: 25.APR.2014 11:13:46

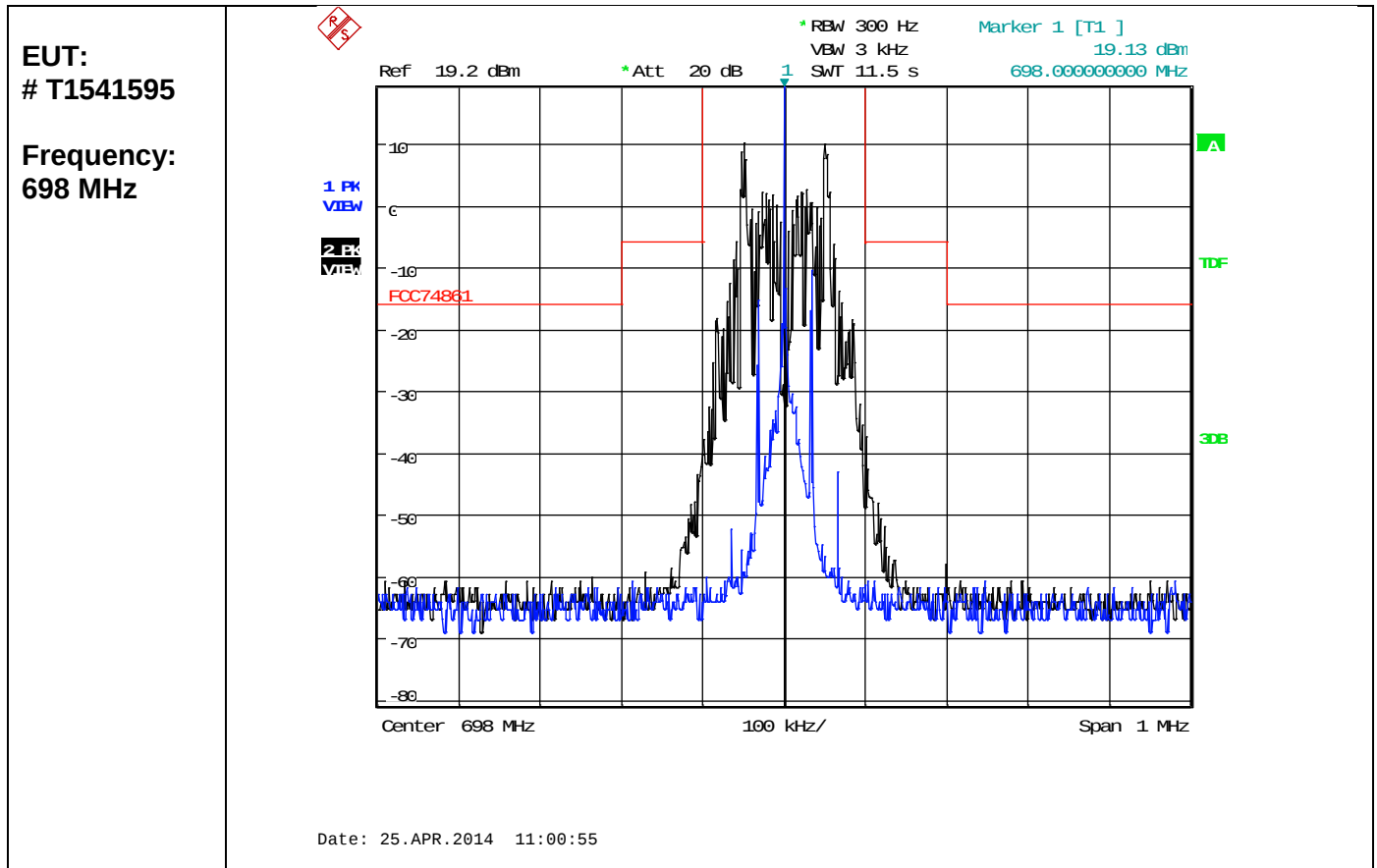
FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX

EUT: # T1541593 Frequency: 614.075 MHz	 Date: 25.APR.2014 11:15:40
EUT: # T1541593 Frequency: 640 MHz	 Date: 25.APR.2014 11:18:32

FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX

EUT: # T1541595 Frequency: 640 MHz	 Ref 18.6 dBm *Att 20 dB 1 RBW 300 Hz VBW 3 kHz SWT 11.5 s Marker 1 [T1] 18.54 dBm 640.00000000 MHz 1 PK VIBW 2 PK VIBW FCC74861 Center 640 MHz 100 kHz/ Span 1 MHz Date: 25.APR.2014 11:03:09
EUT: # T1541595 Frequency: 667 MHz	 Ref 18.5 dBm *Att 20 dB 1 RBW 300 Hz VBW 3 kHz SWT 11.5 s Marker 1 [T1] 18.51 dBm 667.00000000 MHz 1 PK VIBW 2 PK VIBW FCC74861 Center 667 MHz 100 kHz/ Span 1 MHz Date: 25.APR.2014 11:05:36

FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX



A1.6.2 Spurious conducted emissions

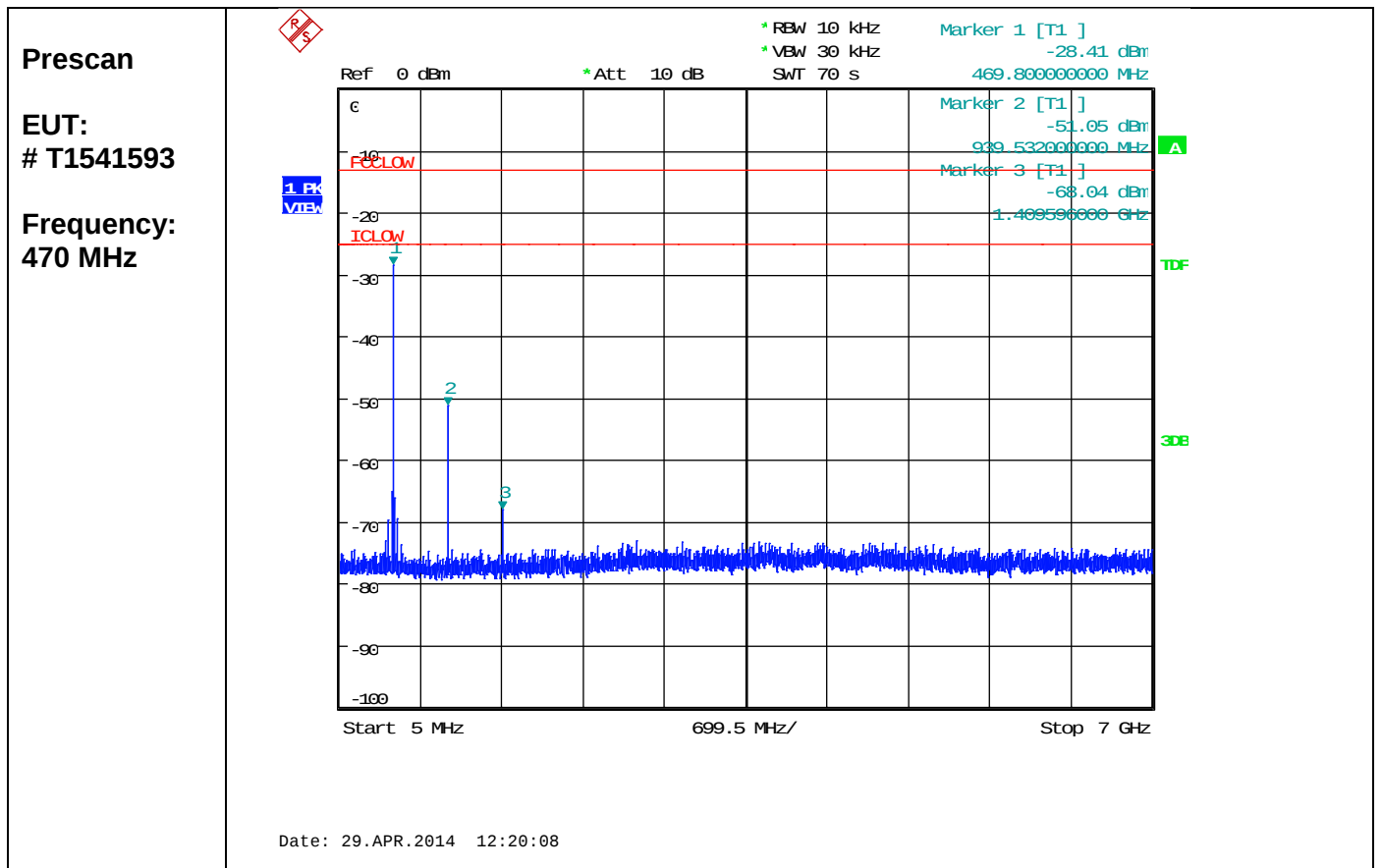
EUT # T1541593, 470 MHz					
Harmonic No.	Frequency [MHz]	Level [dBm]	dB Carrier [dBc]	Margin acc. FCC [dB]	Margin acc. IC [dB]
1	470	19.23	---	---	---
2	940	-53.18	72.41	40.18	28.18
3	1410	-69.14	88.37	56.14	44.14
4	1880	No emissions above noise floor			
5	2350				
6	2820				
7	3290				
8	3760				
9	4230				
10	4700				

EUT # T1541593, 607.925 MHz					
Harmonic No.	Frequency [MHz]	Level [dBm]	dB Carrier [dBc]	Margin acc. FCC [dB]	Margin acc. IC [dB]
1	607.925	18.89	---	---	---
2	1215.85	-81.34	100.23	68.34	56.34
3	1823.775	-85.95	104.84	72.95	60.95
4	2431.7	No emissions above noise floor			
5	3039.625				
6	3647.55				
7	4255.475				
8	4863.4				
9	5471.325				
10	6079.25				

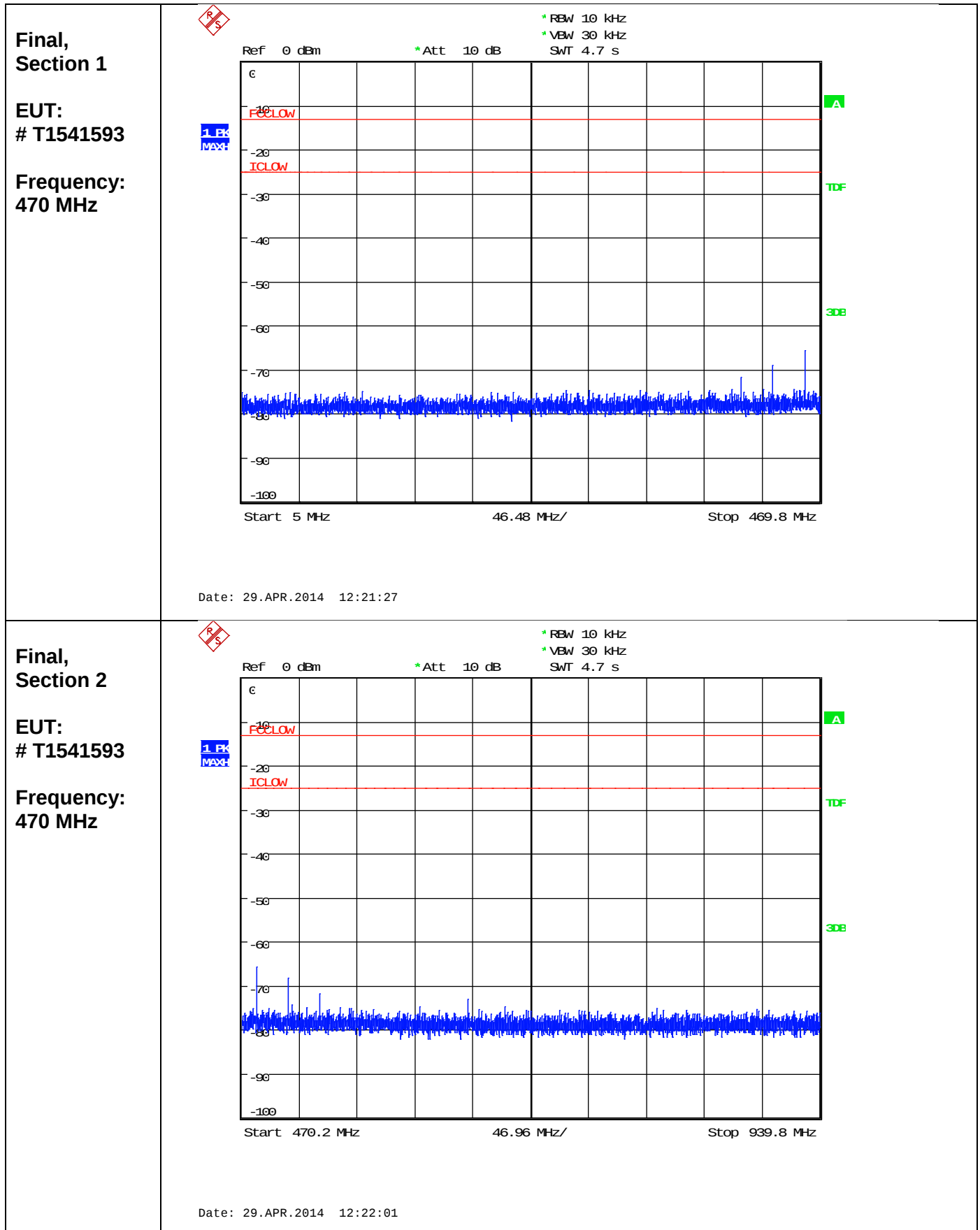
EUT # T1541593, 614.075 MHz					
Harmonic No.	Frequency [MHz]	Level [dBm]	dB Carrier [dBc]	Margin acc. FCC [dB]	Margin acc. IC [dB]
1	614.075	18.73	---	---	---
2	1228.15	-79.87	98.6	66.87	54.87
3	1842.225	-87.32	106.05	74.32	62.32
4	2456.3	No emissions above noise floor			
5	3070.375				
6	3684.45				
7	4298.525				
8	4912.6				
9	5526.675				
10	6140.75				

FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX

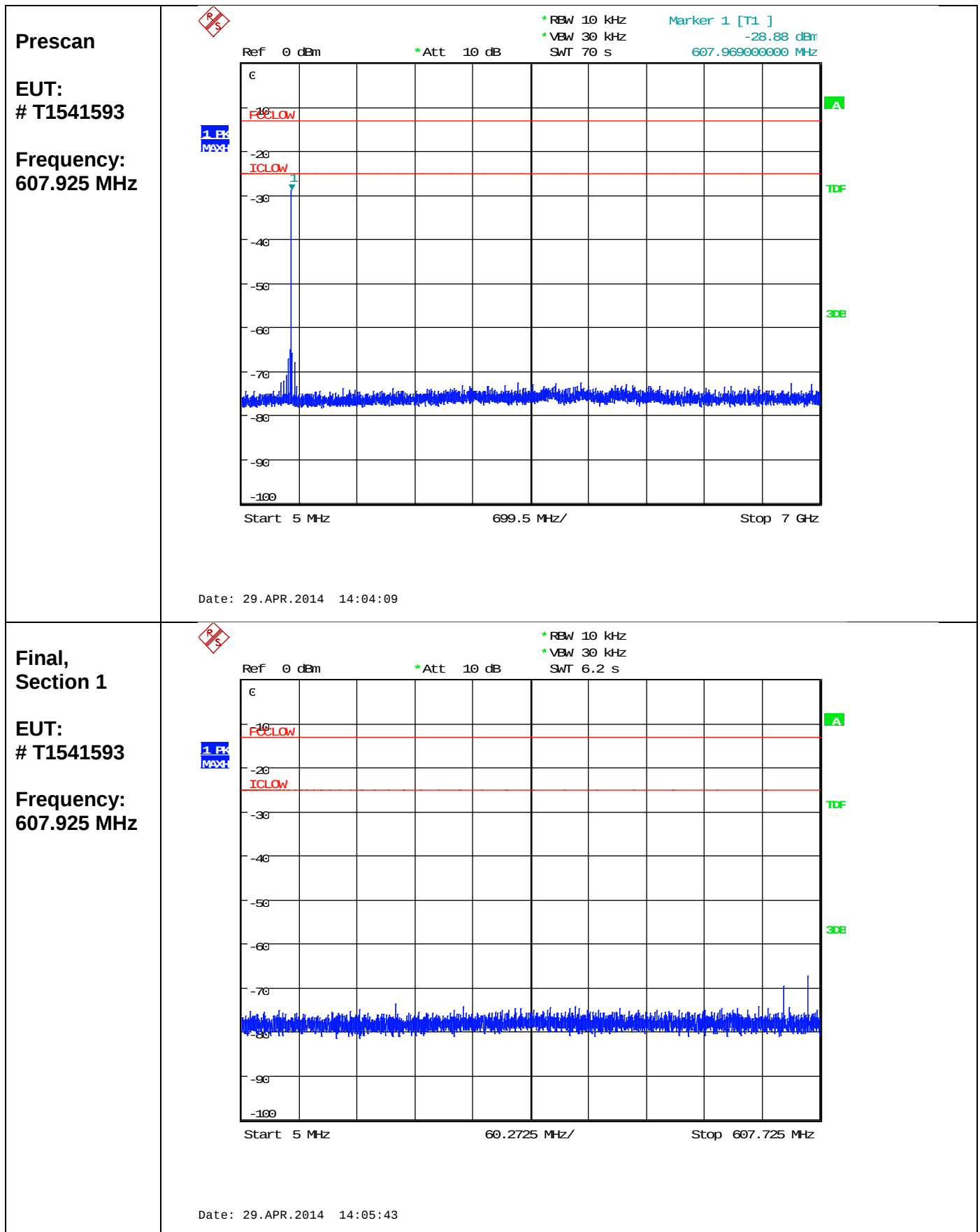
EUT # T1541595, 698 MHz					
Harmonic No.	Frequency [MHz]	Level [dBm]	dB Carrier [dBc]	Margin acc. FCC [dB]	Margin acc. IC [dB]
1	698	18.50	---	---	---
2	1396	-56.04	74.54	43.04	31.04
3	2094	-73.51	92.01	60.51	48.51
4	2792	No emissions above noise floor			
5	3490				
6	4188				
7	4886				
8	5584				
9	6282				
10	6980				



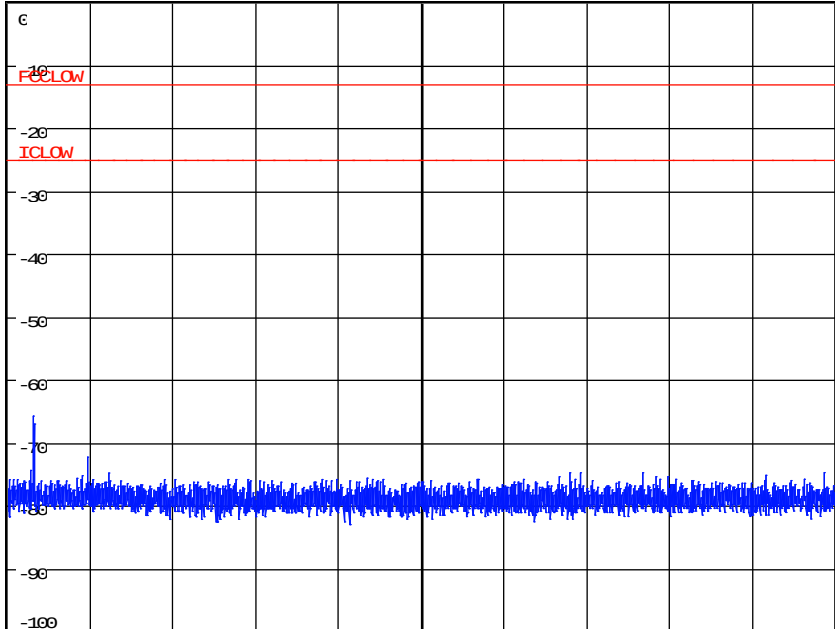
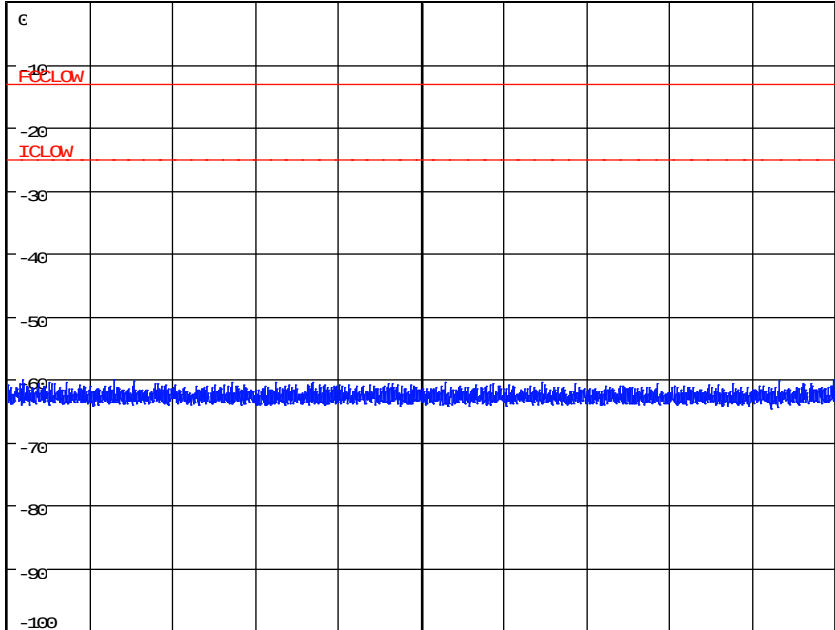
FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX



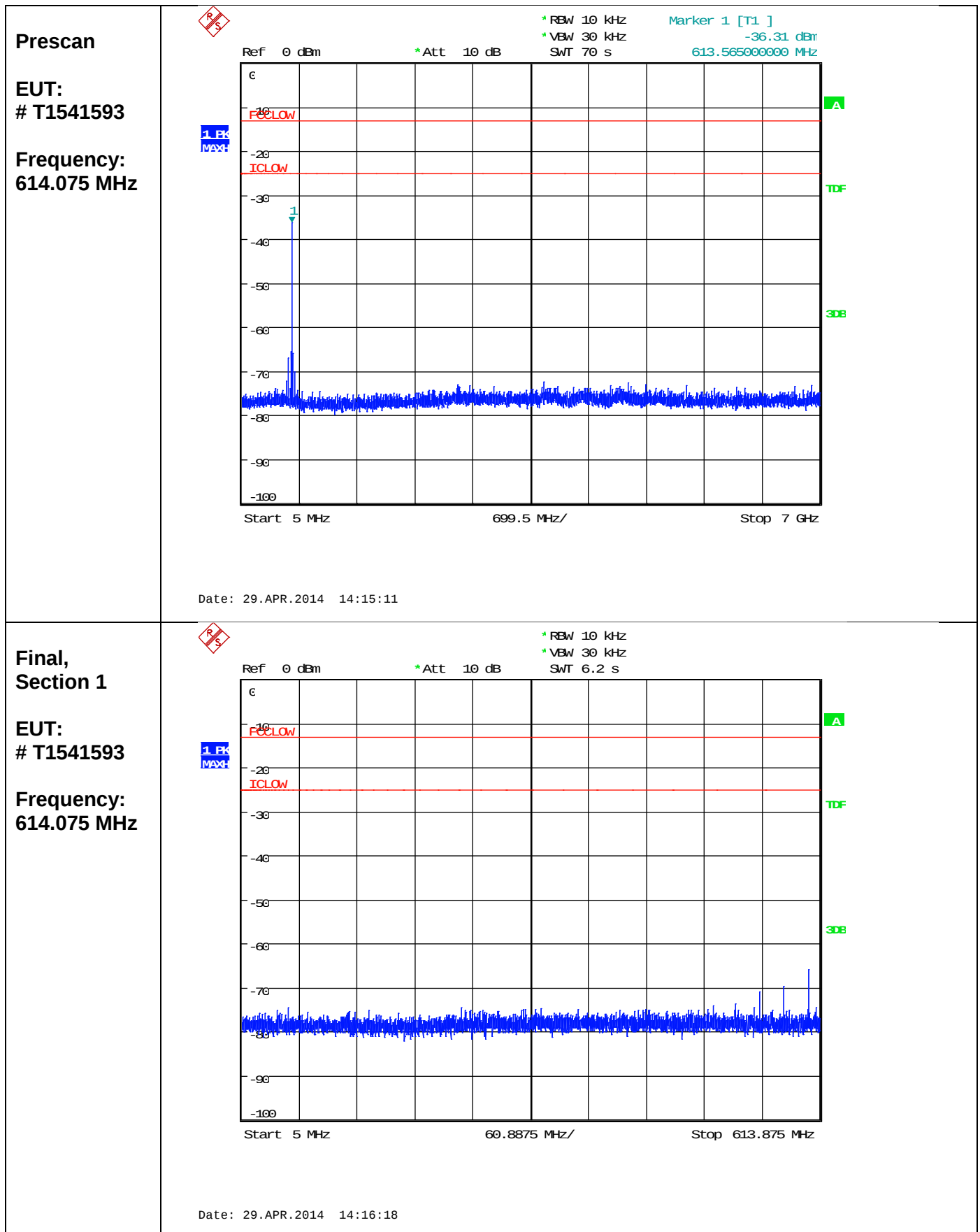
FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX



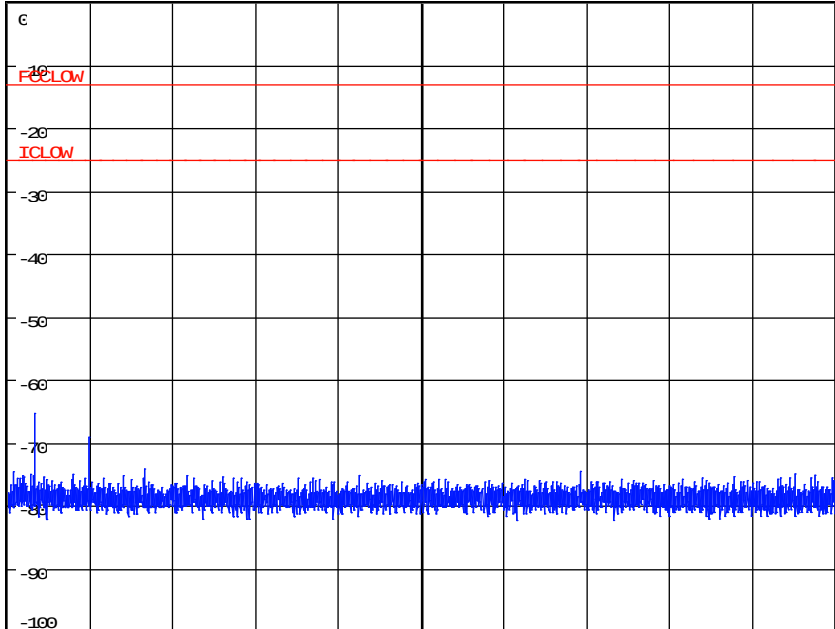
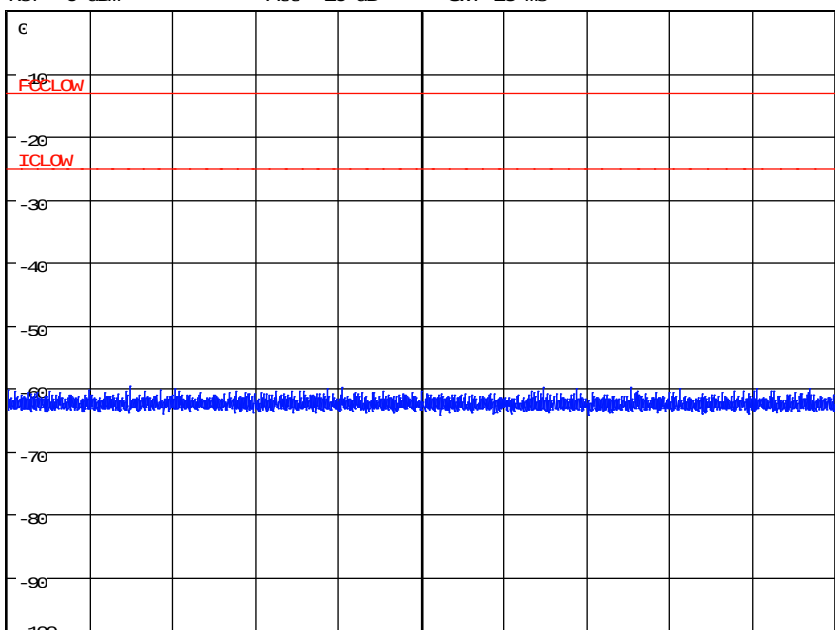
FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX

Final, Section 2 EUT: # T1541593 Frequency: 607.925 MHz	 * RBW 10 kHz * VBW 30 kHz SWT 4 s Ref 0 dBm * Att 10 dB  Start 608.125 MHz 39.1875 MHz/ Stop 1 GHz Date: 29.APR.2014 14:06:48
Final, Section 3 EUT: # T1541593 Frequency: 607.925 MHz	 * RBW 1 MHz * VBW 3 MHz SWT 25 ms Ref 0 dBm * Att 10 dB  Start 1 GHz 21.565 MHz/ Stop 1.21565 GHz Date: 29.APR.2014 14:38:44

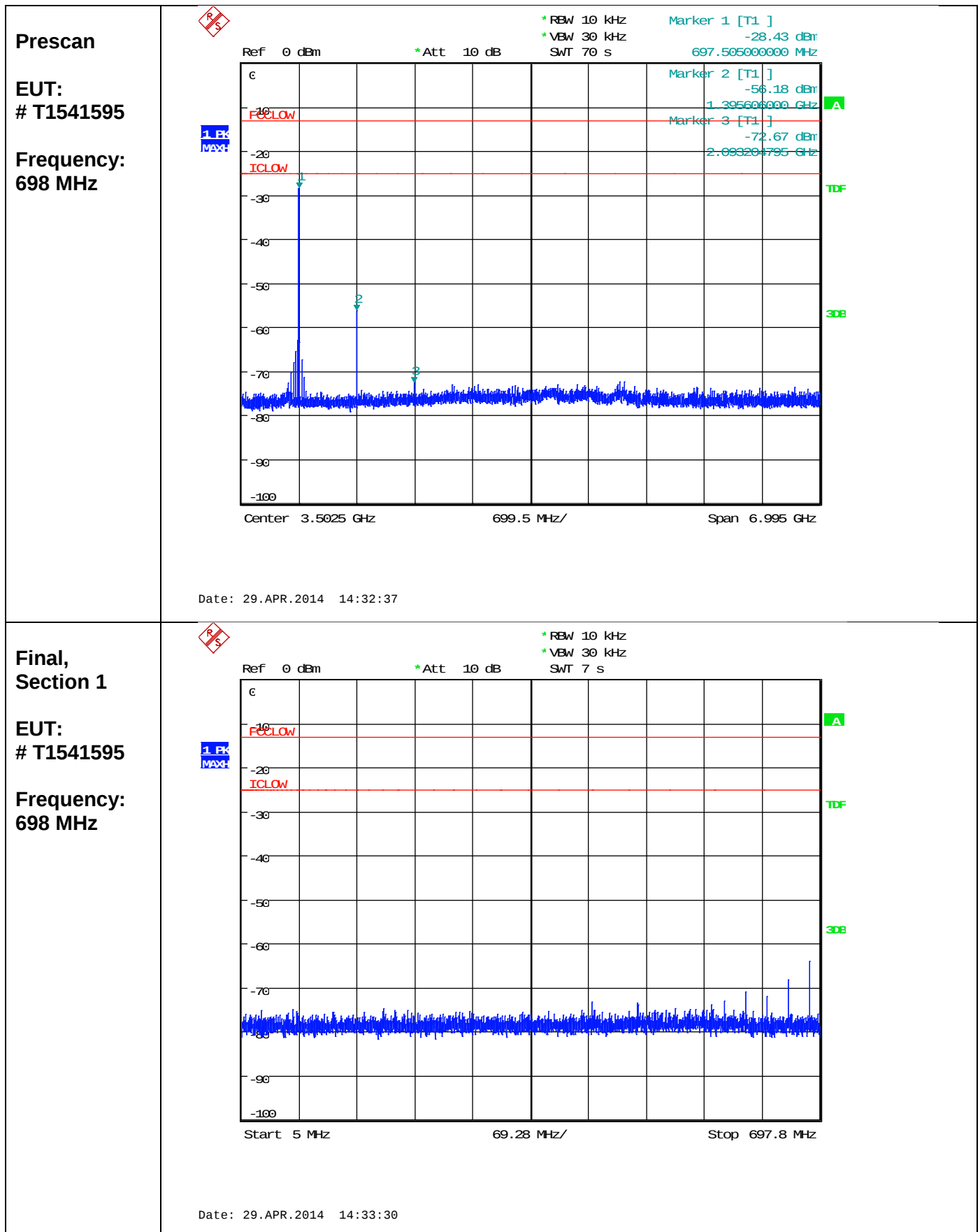
FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX



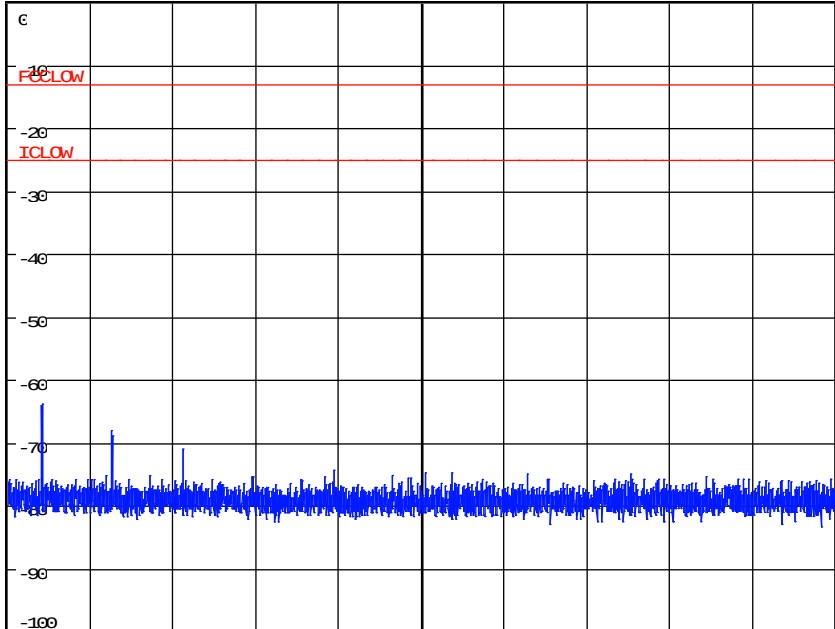
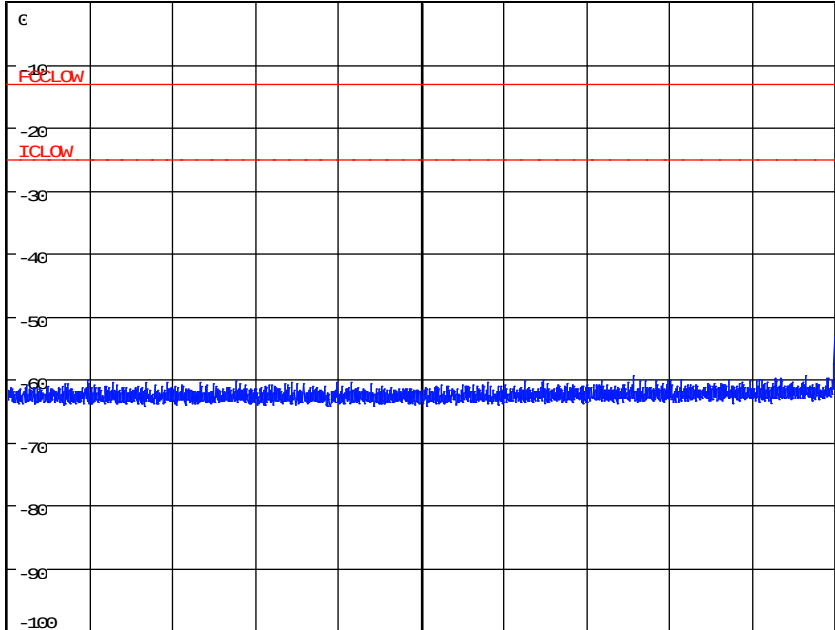
FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX

Final, Section 2 EUT: # T1541593 Frequency: 614.075 MHz	 * RBW 10 kHz * VBW 30 kHz SWT 3.9 s Ref 0 dBm * Att 10 dB  Start 614.275 MHz 38.5725 MHz/ Stop 1 GHz Date: 29.APR.2014 14:16:47
Final, Section 3 EUT: # T1541593 Frequency: 614.075 MHz	 * RBW 1 MHz * VBW 3 MHz SWT 25 ms Ref 0 dBm * Att 10 dB  Start 1 GHz 22.795 MHz/ Stop 1.22795 GHz Date: 29.APR.2014 14:39:27

FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX



FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX

Final, Section 2 EUT: # T1541595 Frequency: 698 MHz	 * RBW 10 kHz * VBW 30 kHz SWT 3.1 s Ref 0 dBm * Att 10 dB  Start 698.2 MHz 30.18 MHz/ Stop 1 GHz Date: 29.APR.2014 14:33:52
Final, Section 3 EUT: # T1541595 Frequency: 698 MHz	 * RBW 1 MHz * VBW 3 MHz SWT 25 ms Ref 0 dBm * Att 10 dB  Start 1 GHz 39.58 MHz/ Stop 1.3958 GHz Date: 29.APR.2014 14:37:27

FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX

A1.7 Field Strength of Radiated Spurious

**Prescan,
9 kHz – 30 MHz**

**EUT:
T1541593**

**Frequency:
470 MHz**

**Orientation of
the EUT:
lying &
standing**

EMCCons DR. RAŠEK

02. May 14 12:20

Radiated Emissions H Field in SAR, d=3m

EUT:

Manuf:

Op Cond:

Operator:

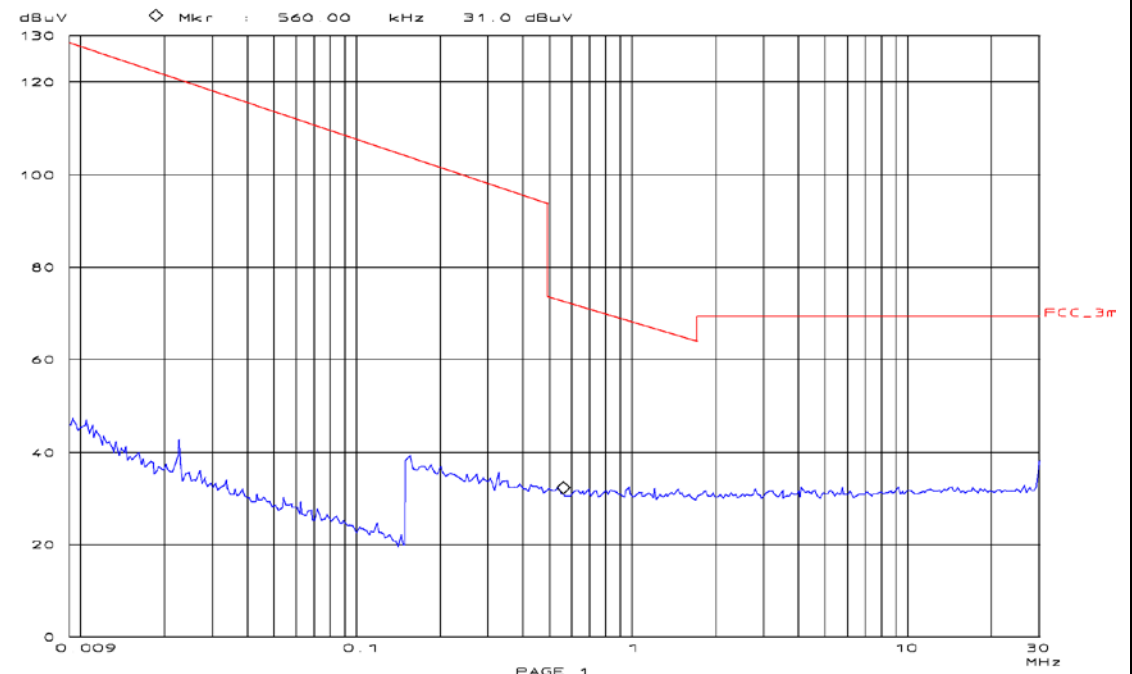
Test Spec:

Comment:

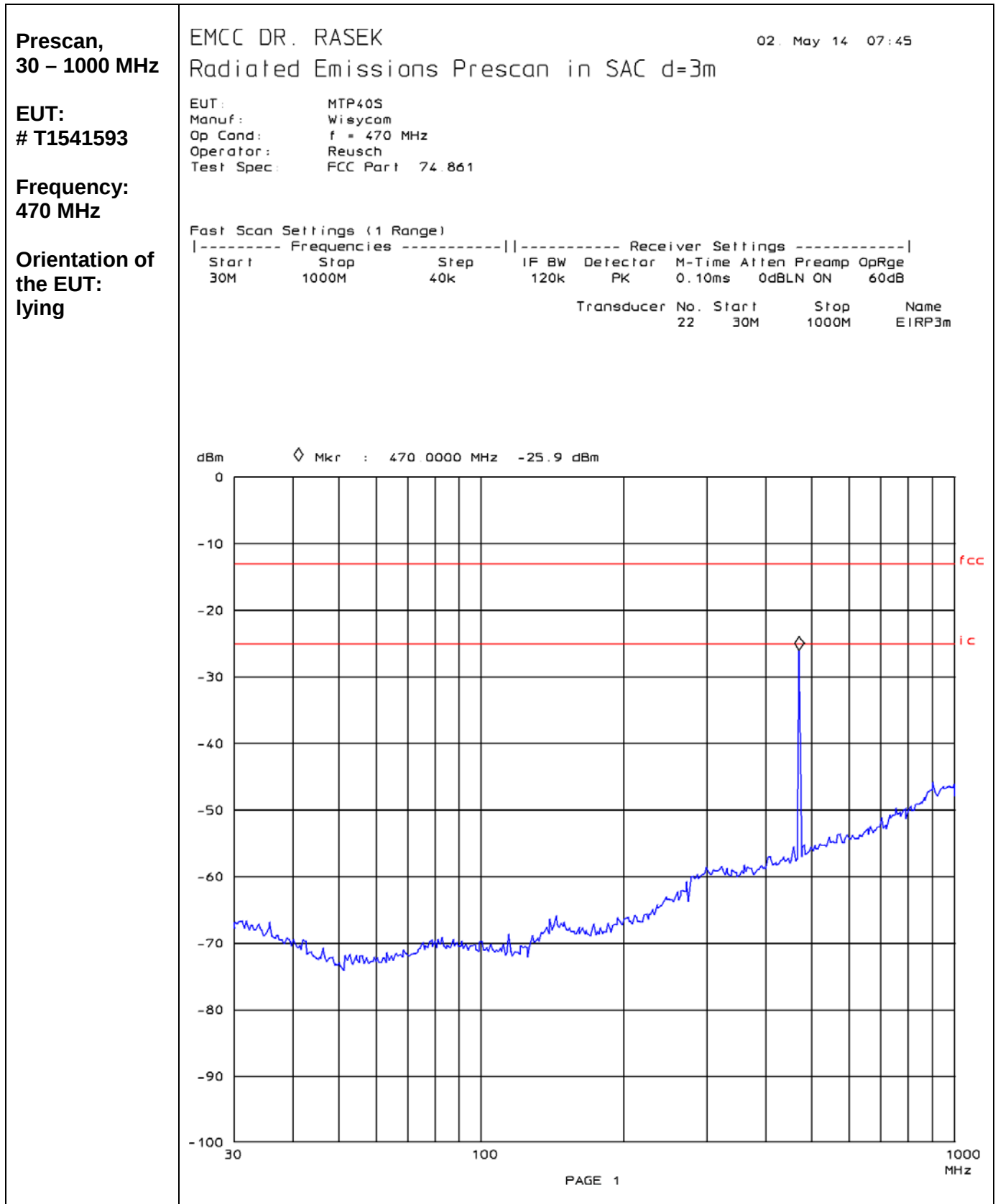
Scan Settings (2 Ranges)

Frequencies			Receiver Settings						
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge	
9k	150k	100Hz	200Hz	PK	10ms	AUTO	LN	OFF	
150k	30M	5k	10k	PK	5ms	AUTO	LD	OFF	

Final Measurement: x Hor-Max / + Vert-Max
 Meas Time: 1 s
 Subranges: 25
 Acc Margin: 30dB



FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX



FCC and IC Radio Tests on WISYCOM SRL MTP40S-USX

