

Wireless test report – 369095-7TRFWL

Applicant:

Topcon AG Turin

Via Nizza 262, Int. 25 – 10126 Torino (TO) – Italy

Product name:

General Purpose IoT device

Model:

CL-10 3G

IC: 24901-CL10

FCC ID: 2ASVE-CL10

- ◆ **FCC 47 CFR Part 15 Subpart C, §15.209/ RSS 210 §8.9**
Radiated emission limits; general requirements.
- ◆ **FCC 47 CFR Part 15 Subpart C, §15.247 (d)/RSS 247 §5.5**
Operation within the bands 902-928 MHz, 2400-243.5 MHz, and 5725-5850 MHz.
- ◆ **FCC 47 CFR Part 22 Subpart H, §22.917 (a) RSS-132 §5.5**
Emission limitations for cellular equipment.
- ◆ **FCC 47 CFR Part 24 Subpart E, §24.238 (a)/ RSS-133 Issue 6 Amd. 1 §6.5.1**
Emission limitations for Broadband PCS equipment.

◆ **RSS-247, Issue 2, Feb 2017, Section 5**

Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices standard specifications for frequency hopping system and digital transmission systems operating in the bands 902–928 MHz, 2400– 2483.5 MHz and 5725–5850 MHz

◆ **RSS-132**

Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz

◆ **SRSP-510**

Technical Requirements for Personal Communications Services (PCS) in the Bands 1850-1915 MHz and 1930-1995 MHz

*The test report merely corresponds to the tested sample.
The phase of sampling / collection of equipment under test is carried out by the customer.*

Test location(s)

Company name	Nemko Spa
Address	Via del Carroccio, 4
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Province	MB
Postal code	20853
Country	Italy
Telephone	+39 039 220 12 01
Facsimile	+39 039 220 12 21
Website	www.nemko.com
Site number	FCC test site registration number: 682159 (10 m semi anechoic chamber) ISED test site number: 9109A

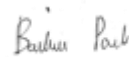
Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report. This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contained in this report are within Nemko Spa's ISO/IEC 17025 accreditation.

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Date of issue: March 29, 2019

Tested by (name, function) P. Barbieri (project handler) Signature: 

Reviewed by (name, function) D. Guarnone (verifier) Signature: 

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Section 1. Report summary

1.1 Applicant and manufacturer

Company name	Topcon AG Turin
Address	Via Nizza 262, Int. 25 – 10126 Torino (TO) – Italy

1.2 Test specifications

FCC 47 CFR Part 15 Subpart C, §15.209	Radiated emission limits; general requirements.
FCC 47 CFR Part 15 Subpart C, §15.247	Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.
FCC 47 CFR Part 22 Subpart H, §22.917	Emission limitations for cellular equipment.
FCC 47 CFR Part 24 Subpart E, §24.238	Emission limitations for Broadband PCS equipment.

1.3 Test methods

ANSI C63.10 v2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
ANSI C63.26 v2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

1.4 Statement of compliance

In the configuration tested, the EUT was found compliant.

Testing was performed against all relevant requirements of the test standard except as noted in section 1.5 below. Results obtained indicate that the product under test complies in full with the requirements tested. The test results relate only to the items tested.

See "Summary of test results" for full details.

1.5 Exclusions

As per quote, the purpose of this report is verification of transmitters colocation. Only inter-modulation products within restricted bands were assessed, other requirements were excluded from the scope of this report.

1.6 Test report revision history

Revision #	Date of issue	Details of changes made to test report
TRF	March 29, 2019	Original report issued

Section 2. Summary of test results

2.1 FCC Part 15 Subpart C, FCC Part 22 Subpart H and FCC Part 24 Subpart E test results

Part	Test description	Verdict
§15.209	Radiated emission limits; general requirements.	Pass
§15.247 (d)	Spurious emissions.	Pass
§22.917 (a)	Out of band emissions for cellular equipment.	Pass
§24.238 (a)	Out of band emissions for Broadband PCS equipment.	Pass

Section 3. Equipment under test (EUT) details

3.1 Sample information

Receipt date	February 25, 2019
Nemko sample ID number	367596-1/3

3.2 EUT information

Product name	General Purpose IoT device
Model	CL-10 3G
Serial number	

3.3 Technical information

Frequency band	WiFi/ BLE: 2400–2483.5 MHz band GSM/PCS: North America Bands
Type of modulation	GFSK, 802.11a/n, OFDM
Emission classification (F1D, G1D, D1D)	F1D, W7D
EUT power requirements	5 V DC
Antenna information	The EUT uses a unique antenna coupling. Integral antenna

3.4 EUT setup diagram

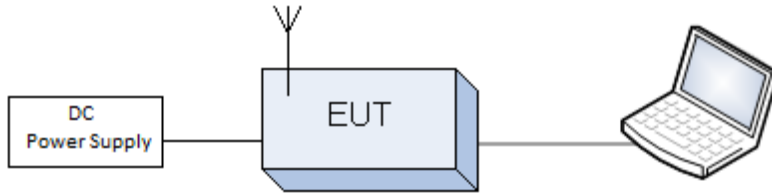


Figure 3.4-1: Setup diagram

3.5 EUT sub assemblies

Table 3.5-1: EUT sub assemblies

Description	Brand name	Model/Part number	Serial number
General Purpose IoT device	Topcon AG Turin	CL-10 3G	1910036AA

Section 4. Engineering considerations

4.1 Modifications incorporated in the EUT

There were no modifications performed to the EUT during this assessment.

4.2 Technical judgment

None

4.3 Deviations from laboratory tests procedures

No deviations were made from laboratory procedures.

Section 5. Test conditions

5.1 Atmospheric conditions

Temperature	18–33 °C
Relative humidity	30–60 %
Air pressure	980–1060 mbar

Test equipment used for the monitoring of the environmental conditions

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
Thermohygrometer data loggers	Testo	175-H2	20012380/305	2019-01	2021-01
Thermohygrometer data loggers	Testo	175-H2	38203337/703	2019-01	2021-01
Barometer	MSR	MSR145B	330080	2018-04	2019-04

5.2 Power supply range

The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages $\pm 5\%$, for which the equipment was designed.

Section 6. Measurement uncertainty

6.1 Uncertainty of measurement

EUT	Type	Test	Range and Setup features	Measurement Uncertainty	Notes	
Transmitter	Conducted	Frequency error	0.001 MHz ÷ 40 GHz	0.08 ppm	(1)	
		Carrier power RF Output Power	10 kHz ÷ 30 MHz	1.0 dB	(1)	
			30 MHz ÷ 18 GHz	1.5 dB	(1)	
			18 MHz ÷ 40 GHz	3.0 dB	(1)	
			Adjacent channel power	1 MHz ÷ 18 GHz	1.6 dB	(1)
		Conducted spurious emissions	10 kHz ÷ 26 GHz	3.0 dB	(1)	
			26 GHz ÷ 40 GHz	4.5 dB	(1)	
		Intermodulation attenuation	1 MHz ÷ 18 GHz	2.2 dB	(1)	
		Attack time – frequency behaviour	1 MHz ÷ 18 GHz	2.0 ms	(1)	
		Attack time – power behaviour	1 MHz ÷ 18 GHz	2.5 ms	(1)	
		Release time – frequency behaviour	1 MHz ÷ 18 GHz	2.0 ms	(1)	
		Release time – power behaviour	1 MHz ÷ 18 GHz	2.5 ms	(1)	
		Transient behaviour of the transmitter– Transient frequency behaviour	1 MHz ÷ 18 GHz	0.2 kHz	(1)	
		Transient behaviour of the transmitter – Power level slope	1 MHz ÷ 18 GHz	9%	(1)	
		Frequency deviation - Maximum permissible frequency deviation	0.001 MHz ÷ 18 GHz	1.3%	(1)	
		Frequency deviation - Response of the transmitter to modulation frequencies above 3 kHz	0.001 MHz ÷ 18 GHz	0.5 dB	(1)	
		Dwell time	-	3%	(1)	
		Hopping Frequency Separation	0.01 MHz ÷ 18 GHz	1%	(1)	
		Occupied Channel Bandwidth	0.01 MHz ÷ 18 GHz	2%	(1)	
		Modulation Bandwidth	0.01 MHz ÷ 18 GHz	2%	(1)	
		Radiated	Radiated spurious emissions	10 kHz ÷ 26.5 GHz	6.0 dB	(1)
				26.5 GHz ÷ 40 GHz	8.0 dB	(1)
			Effective radiated power transmitter	10 kHz ÷ 26.5 GHz	6.0 dB	(1)
				26,5 GHz ÷ 40 GHz	8.0 dB	(1)
		Radiated	Radiated spurious emissions	10 kHz ÷ 26.5 GHz	6.0 dB	(1)
				26.5 GHz ÷ 40 GHz	8.0 dB	(1)
		Receiver	Conducted	Sensitivity measurement	1 MHz ÷ 18 GHz	6.0 dB
Conducted spurious emissions	10 kHz ÷ 26 GHz			3.0 dB	(1)	
	26 GHz ÷ 40 GHz			4.5 dB	(1)	

(1) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2$ which has been derived from the assumed normal probability distribution with infinite degrees of freedom and for a coverage probability of 95 %

Section 7. Test equipment

7.1 Test equipment list

Table 7.1-1: Equipment list

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
EMI receiver (20 Hz ÷ 8 GHz)	R&S	ESU8	100202	2019-01	2020-01
EMI receiver (20 Hz ÷ 8 GHz)	R&S	ESW44	101620	2018-05	2019-05
Trilog Broadband Antenna	Schwarzbeck	VULB 9162	9162-025	2018-07	2021-07
Bilog antenna (1 ÷ 18 GHz)	Schwarzbeck	STLP 9148	9148-123	2018-07	2021-07
Horn antenna (4 ÷ 40 GHz)	RFSpin	DRH40	061106A40	2017-02	2020-02
Preamplifier (1 ÷ 18 GHz)	Schwarzbeck	BBV9718	9718-137	2018-08	2019-08
Preamplifier (18 ÷ 40 GHz)	Miteq	JS44-18004000-35-8P-R	1.627	2018-08	2019-08
Antenna mast	R&S	HCM	836 529/05	NCR	NCR
Controller	R&S	HCC	836 620/7	NCR	NCR
Turning-table	R&S	HCT	835 803/03	NCR	NCR
Semi-anechoic chamber	Nemko	10m semi-anechoic chamber	530	2018-09	2021-09
Shielded room	Siemens	10m control room	1947	NCR	NCR

Note: NCR - no calibration required, VOU - verify on use

Section 8. Testing data

8.1 Radiated emission

Definitions and limits

FCC § 15.209 (f)

In accordance with §15.33(a), in some cases the emissions from an intentional radiator must be measured to beyond the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator because of the incorporation of a digital device. If measurements above the tenth harmonic are so required, the radiated emissions above the tenth harmonic shall comply with the general radiated emission limits applicable to the incorporated digital device, as shown in §15.109 and as based on the frequency of the emission being measured, or, except for emissions contained in the restricted frequency bands shown in §15.205, the limit on spurious emissions specified for the intentional radiator, whichever is the higher limit. Emissions which must be measured above the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator and which fall within the restricted bands shall comply with the general radiated emission limits in §15.109 that are applicable to the incorporated digital device.

FCC §15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

FCC §22.917 (a)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC §24.238 (a)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

Table 8.1-1: FCC §15.209– Radiated emission limits

Frequency, MHz	Field strength of emissions		Measurement distance, m
	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	
0.009–0.490	2400/F	$67.6 - 20 \times \log_{10}(F)$	300
0.490–1.705	24000/F	$87.6 - 20 \times \log_{10}(F)$	30
1.705–30.0	30	29.5	30
30–88	100	40.0	3
88–216	150	43.5	3
216–960	200	46.0	3
above 960	500	54.0	3

Notes: In the emission table above, the tighter limit applies at the band edges.

For frequencies above 1 GHz the limit on peak RF emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test

Table 8.1-2: FCC restricted frequency bands

MHz	MHz	MHz	GHz
0.090–0.110	16.42–16.423	399.9–410	4.5–5.15
0.495–0.505	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225	123–138	2200–2300	14.47–14.5
8.291–8.294	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675	156.7–156.9	2690–2900	22.01–23.12
8.41425–8.41475	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025	240–285	3345.8–3358	36.43–36.5
12.57675–12.57725	322–335.4	3600–4400	Above 38.6
13.36–13.41			

Test summary

Test start date	March 21, 2019
Test engineer	P. Barbieri

Observations, settings and special notes

The spectrum was searched from 30 MHz to 40 GHz.

EUT's LTE and WIFI transmitters were set to transmit continuously, different channel setting has been investigated as per provided by client's setup

Radiated measurements were performed at a distance of 3 m.

Spectrum analyzer settings for frequencies below 1000 MHz:

Detector mode	Quasi-Peak
Resolution bandwidth	120 kHz
Trace mode	Max Hold
Measurement time	100 ms

Spectrum analyser settings for peak radiated measurements within restricted bands above 1 GHz:

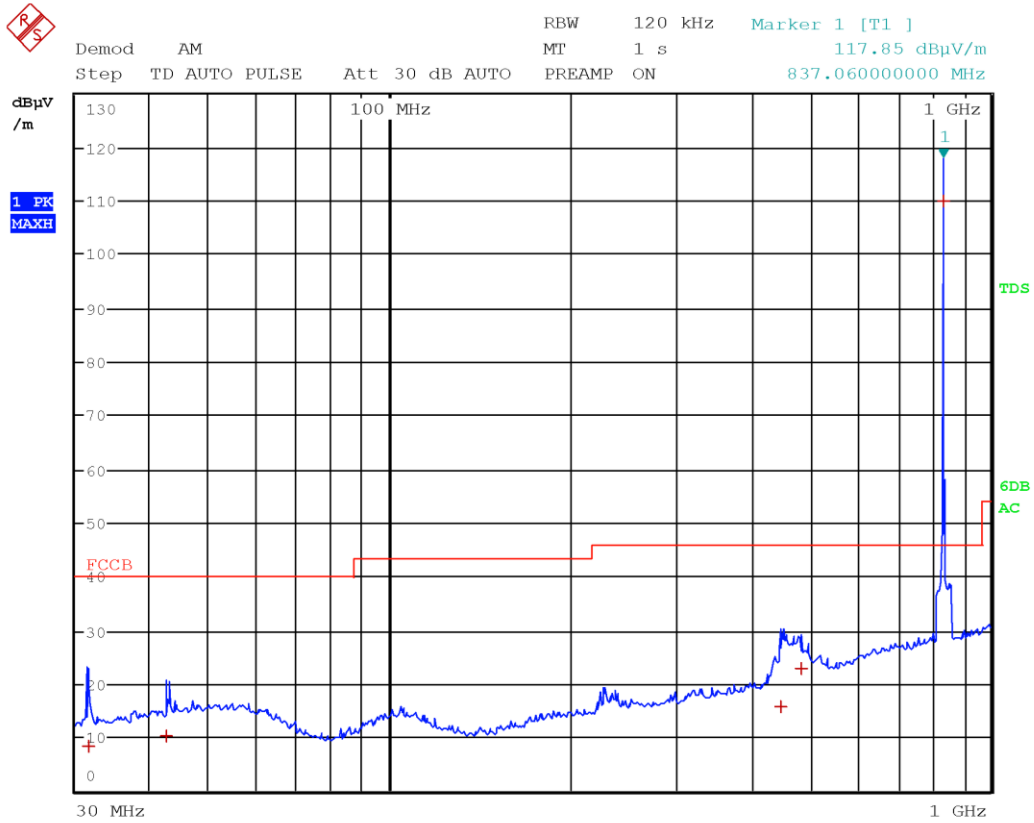
Resolution bandwidth:	1 MHz
Video bandwidth:	3 MHz
Detector mode:	Peak
Trace mode:	Max Hold

Spectrum analyser settings for average radiated measurements within restricted bands above 1 GHz:

Resolution bandwidth:	1 MHz
Video bandwidth:	3 MHz
Detector mode:	Average
Trace mode:	Max Hold

8.1.4 Test data

Radiated spurious emissions with antenna in horizontal polarization and with GSM Tx at 837 MHz, WIFI Tx at 2437 MHz and BT Tx at 2440 MHz (configuration 1)



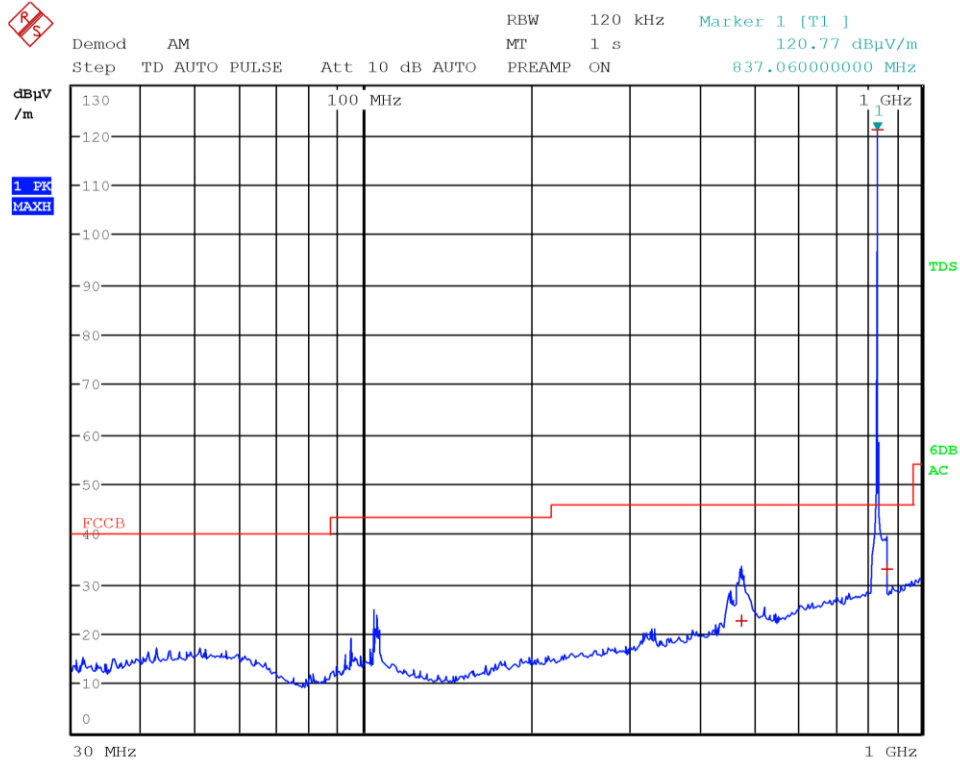
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
31.4400	8.4	40.0	-31.6	QP
42.4200	10.4	40.0	-29.6	QP
447.0000	15.7	46.0	-30.3	QP
483.8400	22.8	46.0	-23.2	QP
837.0600	117.9	--	--	--

Limit exceeded by the carriers

RF output power		
Frequency (MHz)	Level (dBµV/m)	EIRP (dBm)
837.0600	119.4	24.2
Remarks: for MPE calculation		

8.1.4 Test data, continued

Radiated spurious emissions with antenna in vertical polarization and with GSM Tx at 837 MHz, WIFI Tx at 2437 MHz and BT Tx at 2440 MHz (configuration 1)



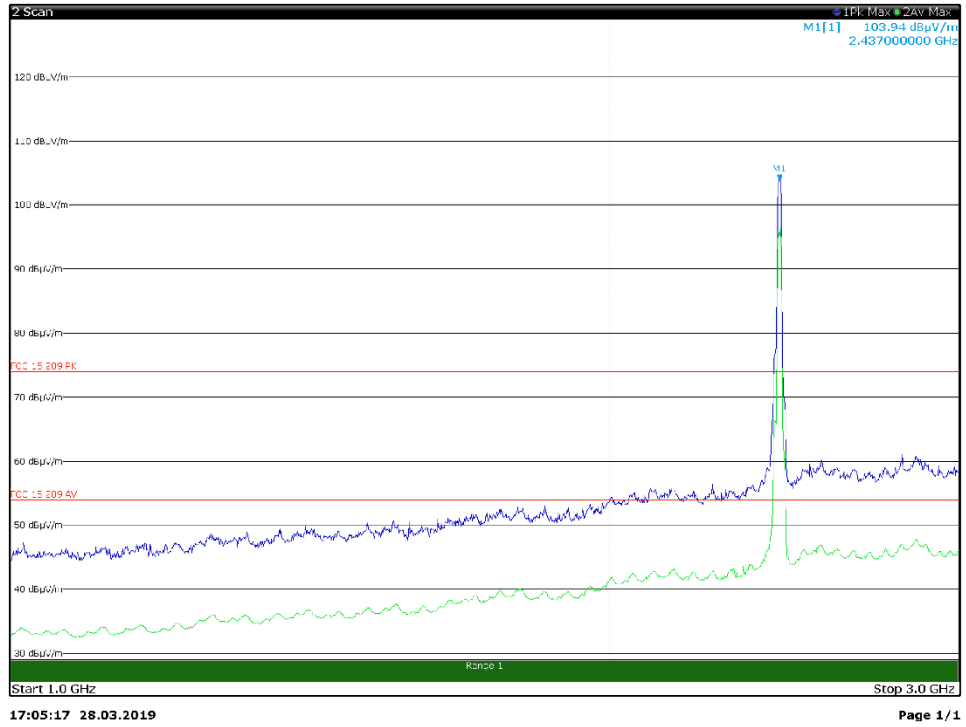
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
474.9300	22.6	46.0	-23.4	QP
837.0600	121.2	46.0	75.1	QP
869.5500	33.1	46.0	-12.9	QP
474.9300	22.6	46.0	-23.4	QP
837.0600	121.0	--	--	--
869.5500	33.1	46.0	-12.9	QP

Limit exceeded by the carriers

RF output power		
Frequency (MHz)	Level (dBµV/m)	EIRP (dBm)
837.0600	122.2	27.0
Remarks: for MPE calculation		

8.1.4 Test data, continued

Radiated spurious emissions with antenna in horizontal polarization and with GSM Tx at 837 MHz, WIFI Tx at 2437 MHz and BT Tx at 2440 MHz (configuration 1)



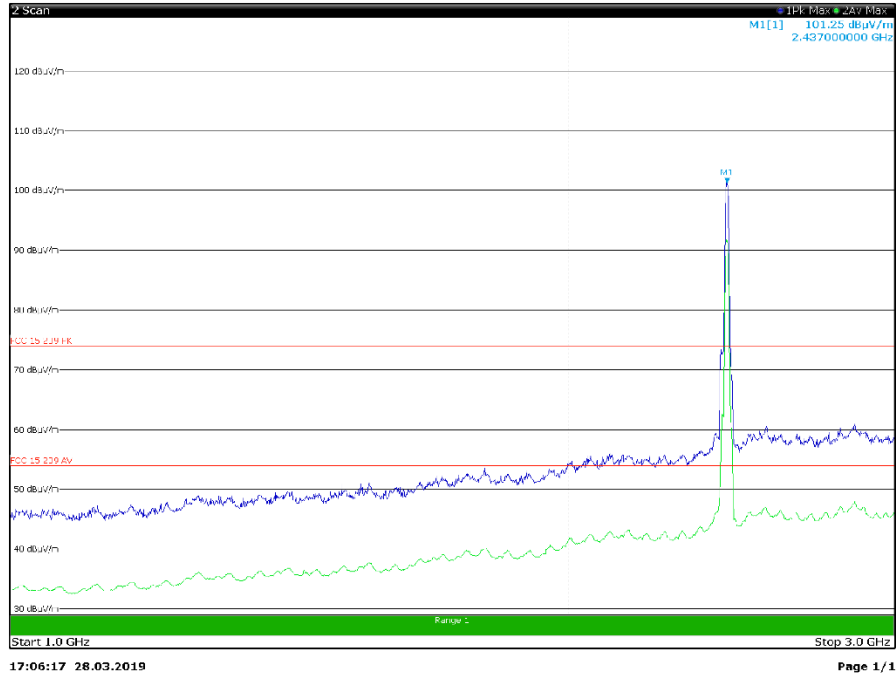
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
2437.0	103.9	--	--	--

Limit exceeded by the carriers

The limit for FCC 22.917 is -13 dBm. Limit (dBµV/m) = limit (dBm) + 95.23 = 82.2 dBµV/m

8.1.4 Test data, continued

Radiated spurious emissions with antenna in vertical polarization and with GSM Tx at 837 MHz, WIFI Tx at 2437 MHz and BT Tx at 2440 MHz (configuration 1)



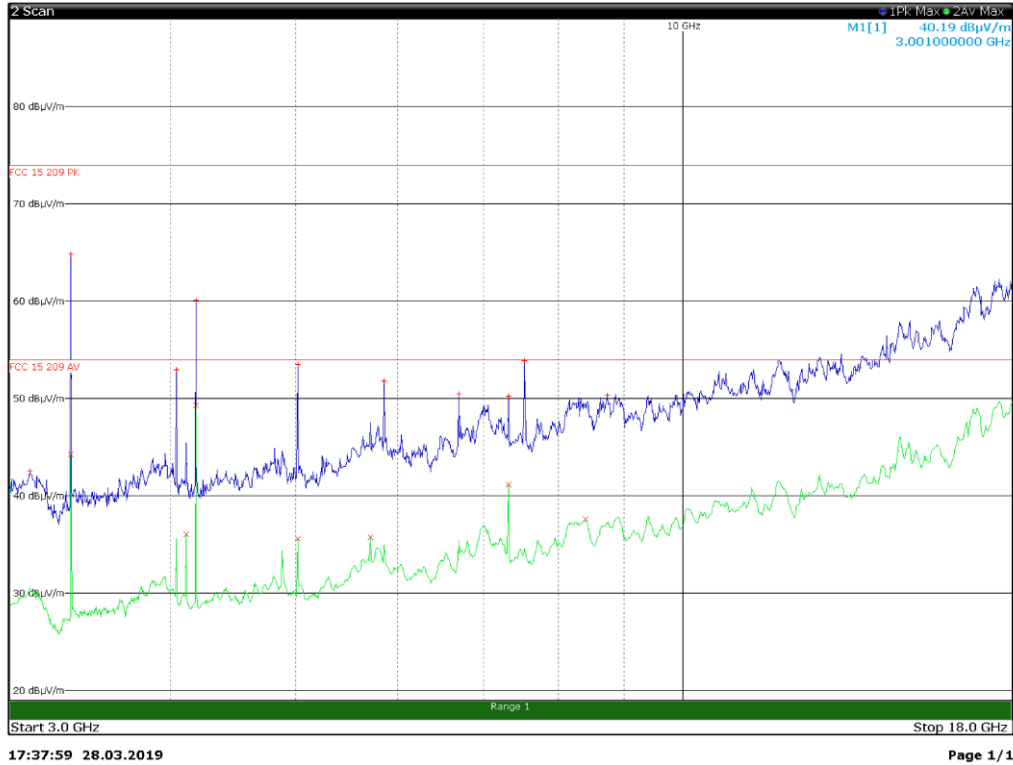
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
2437.0	101.3	--	--	--

Limit exceeded by the carriers

The limit for FCC 22.917 is -13 dBm. Limit (dBµV/m) = limit (dBm) + 95.23 = 82.2 dBµV/m

8.1.4 Test data, continued

Radiated spurious emissions with antenna in horizontal polarization and with GSM Tx at 837 MHz, WIFI Tx at 2437 MHz and BT Tx at 2440 MHz (configuration 1)



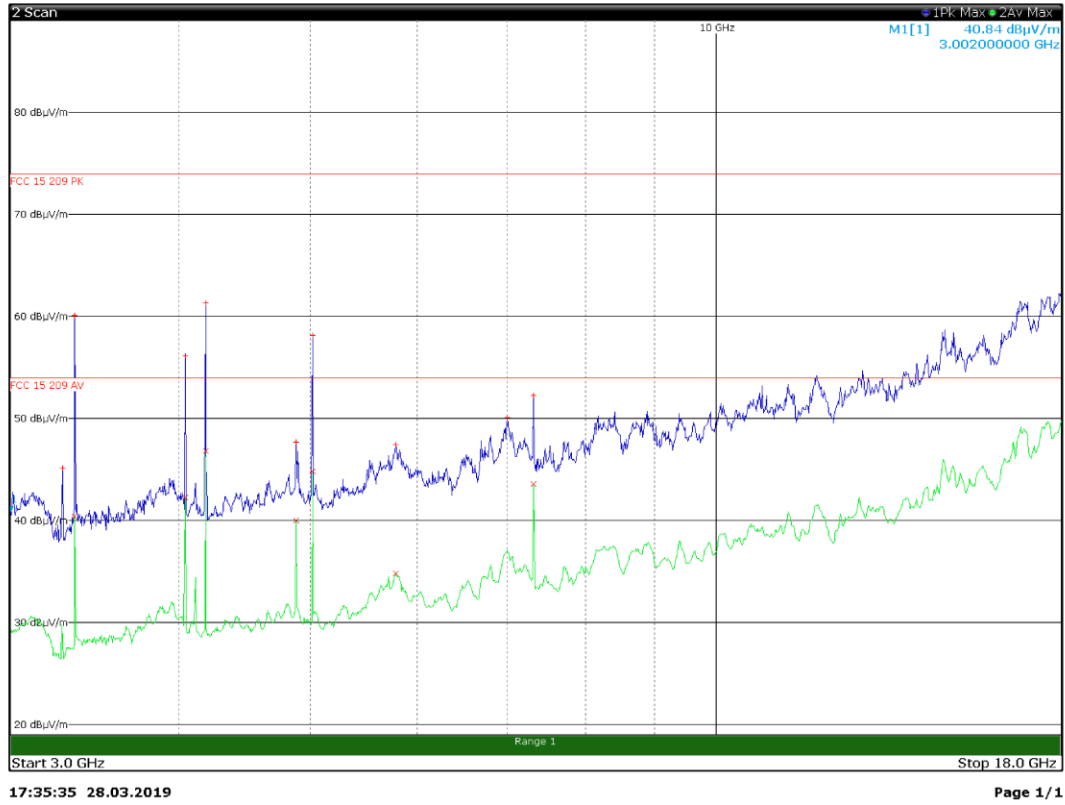
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
3348.2500	64.8	82.2	-17.4	Pk
4184.7500	60.2	82.2	-22	Pk

The limit for FCC 22.917 is -13 dBm. Limit (dBµV/m) = limit (dBm) + 95.23 = 82.2 dBµV/m



8.1.4 Test data, continued

Radiated spurious emissions with antenna in vertical polarization and with GSM Tx at 837 MHz, WIFI Tx at 2437 MHz and BT Tx at 2440 MHz (configuration 1)



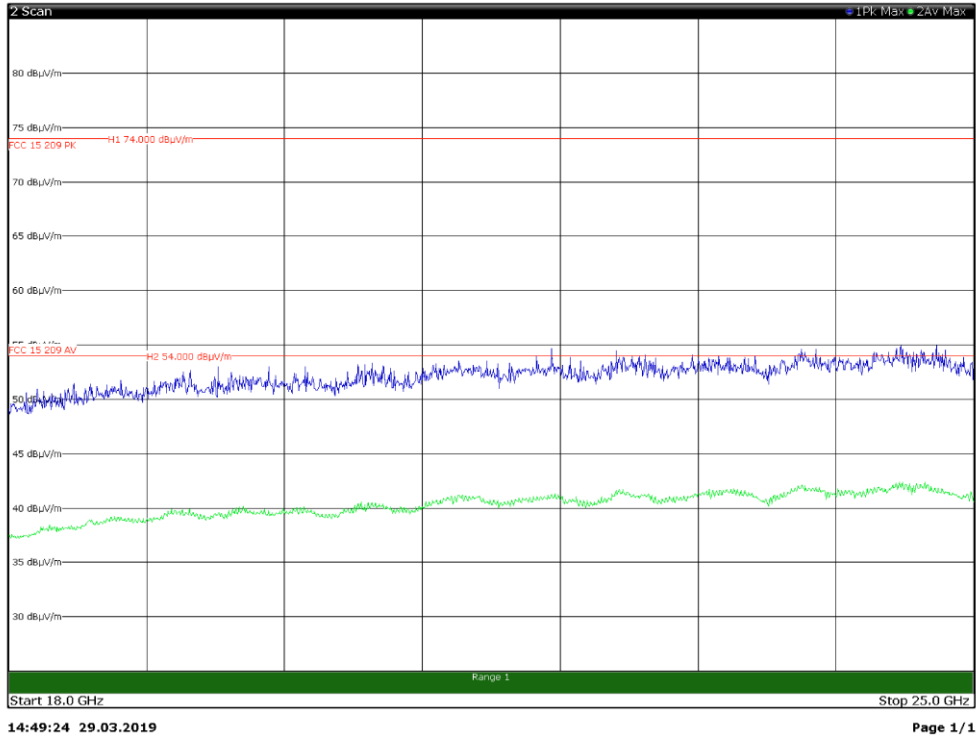
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
3348.2500	60.2	82.2	-22	Pk
4184.7500	61.4	82.2	-20.8	Pk
5022.5000	58.2	82.2	-24	Pk

The limit for FCC 22.917 is -13 dBm. Limit (dBµV/m) = limit (dBm) + 95.23 = 82.2 dBµV/m



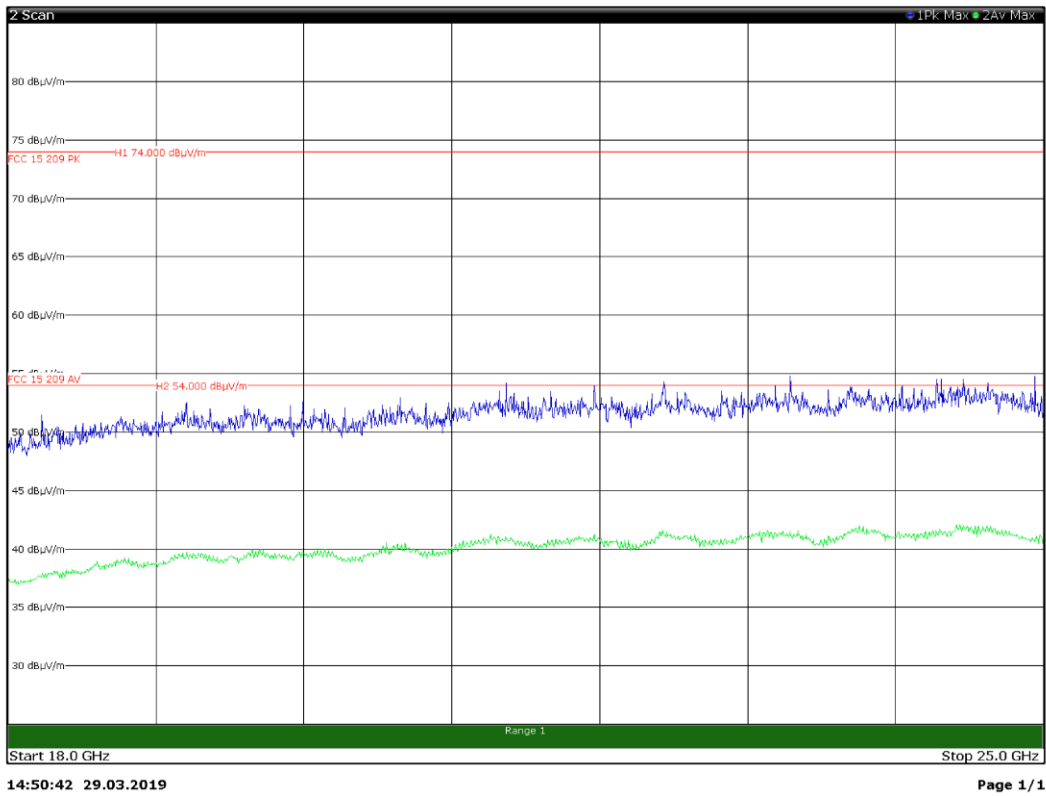
8.1.4 Test data, continued

Radiated spurious emissions with antenna in vertical polarization and with GSM Tx at 837 MHz, WIFI Tx at 2437 MHz and BT Tx at 2440 MHz (configuration 1)



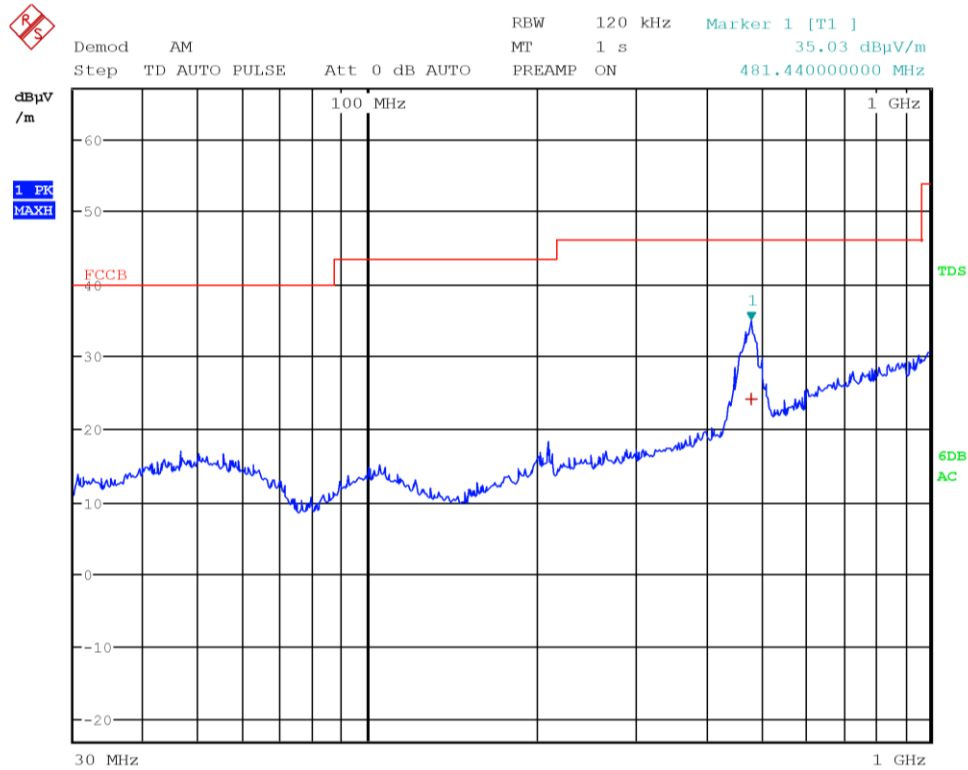
8.1.4 Test data, continued

Radiated spurious emissions with antenna in horizontal polarization and with GSM Tx at 837 MHz, WIFI Tx at 2437 MHz and BT Tx at 2440 MHz (configuration 1)



8.1.4 Test data, continued

Radiated spurious emissions with antenna in horizontal polarization and with GSM Tx at 1880 MHz, WIFI Tx at 2437 MHz and BT Tx at 2440 MHz (configuration 2)

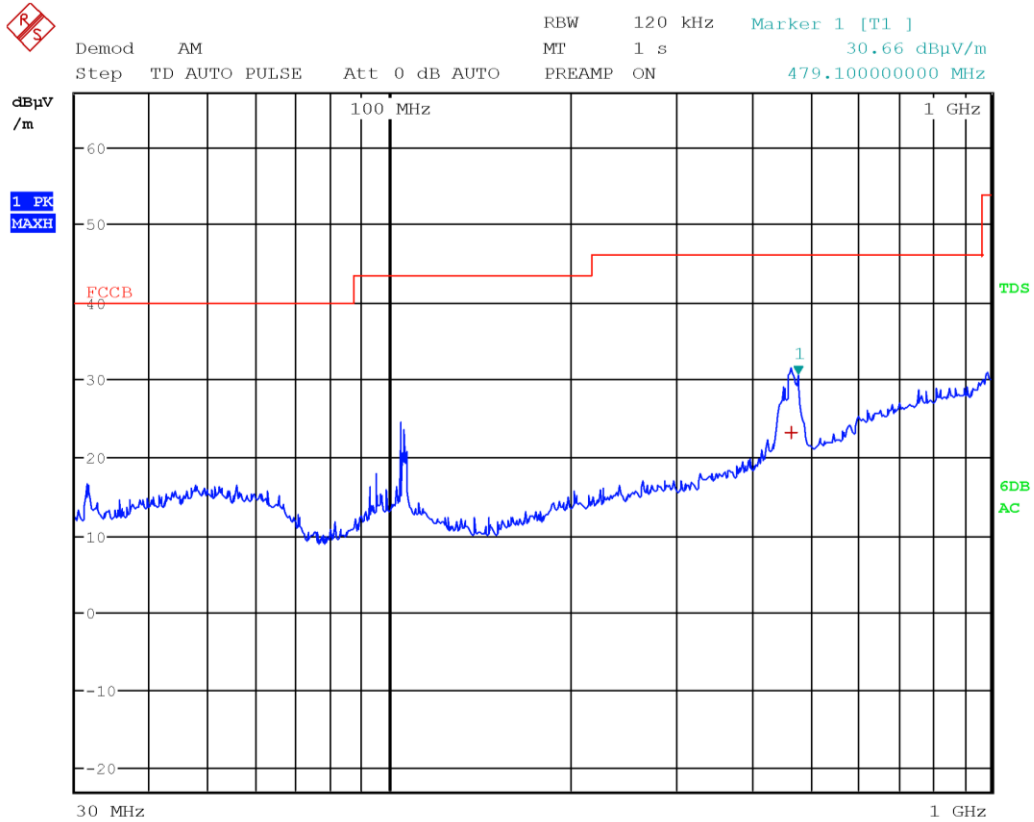


Date: 26.MAR.2019 18:19:49

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
481.4400	24.2	46.0	-21.8	QP

8.1.4 Test data, continued

Radiated spurious emissions with antenna in vertical polarization and with GSM Tx at 1880 MHz, WIFI Tx at 2437 MHz and BT Tx at 2440 MHz (configuration 2)

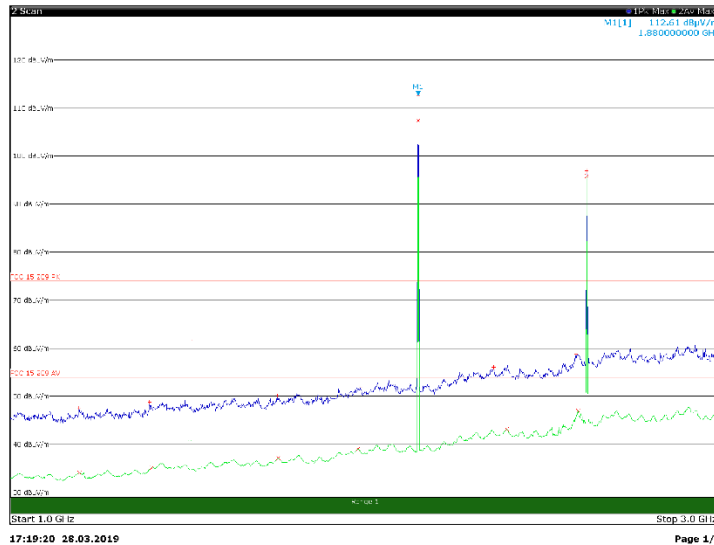


Date: 26.MAR.2019 18:20:44

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
465.5400	23.2	46.0	-22.8	QP

8.1.4 Test data, continued

Radiated spurious emissions with antenna in horizontal polarization and with GSM Tx at 1880 MHz, WIFI Tx at 2437 MHz and BT Tx at 2440 MHz (configuration 2)



Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1880.0000	112.6	82.2	--	
2439.7500	96.9	--	--	

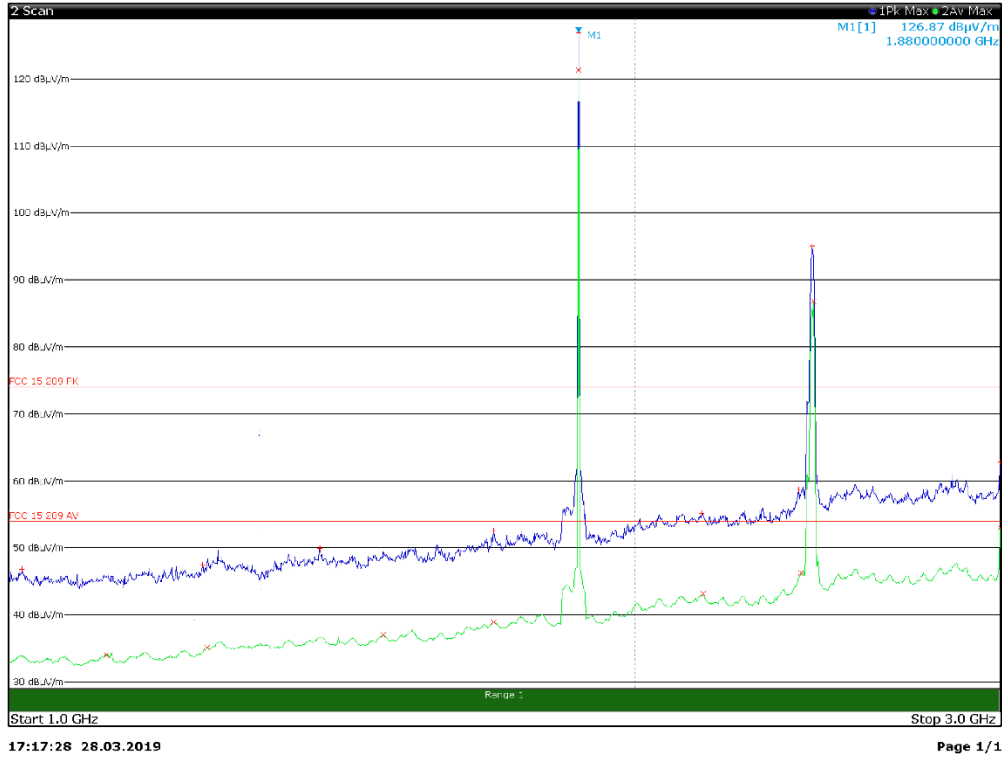
Limit exceeded by the carrier

RF output power		
Frequency (MHz)	Level (dBµV/m)	EIRP (dBm)
1880.0000	114.9	19.7
Remarks: for MPE calculation		



8.1.4 Test data, continued

Radiated spurious emissions with antenna in vertical polarization and with GSM Tx at 1880 MHz, WIFI Tx at 2437 MHz and BT Tx at 2440 MHz (configuration 2)



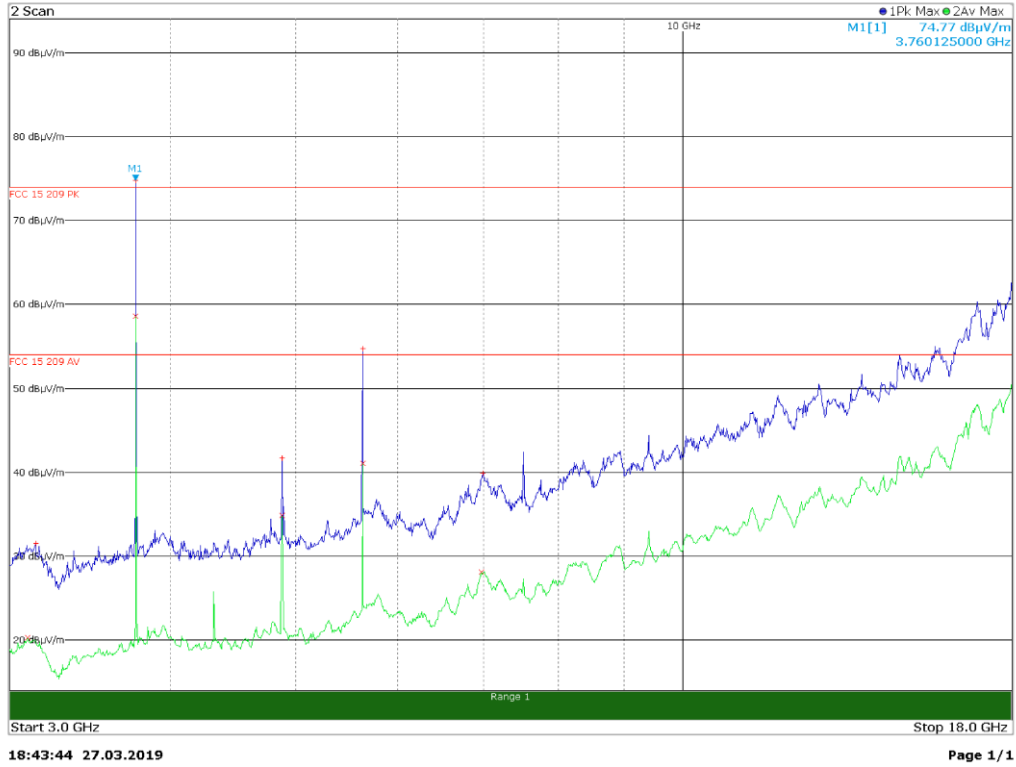
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1880.0000	126.9	--	--	Pk
2434.5000	95.1	--	--	Pk

Limit exceeded by the carriers

RF output power		
Frequency (MHz)	Level (dBµV/m)	EIRP (dBm)
1880.0000	127.5	32.3
Remarks: for MPE calculation		

8.1.4 Test data, continued

Radiated spurious emissions with antenna in horizontal polarization and with GSM Tx at 1880 MHz, WIFI Tx at 2437 MHz and BT Tx at 2440 MHz (configuration 2)



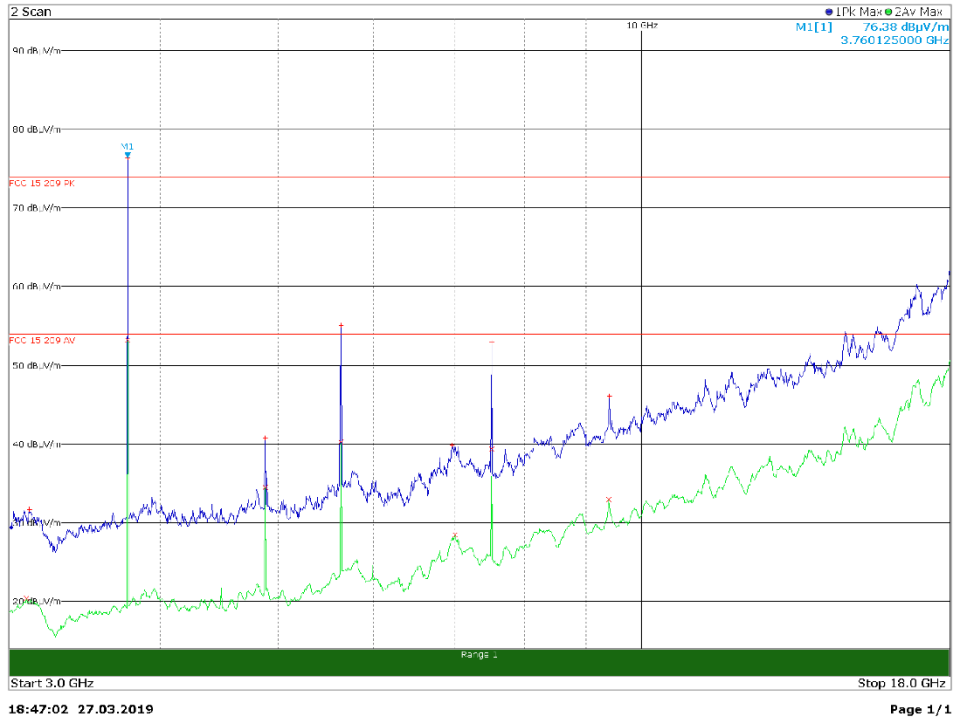
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
3759.9750	58.6	82.2	-23.6	pk
5640.1750	54.7	82.2	-27.5	pk

Limit exceeded by the carriers

The limit for FCC 22.917 is -13 dBm. Limit (dBµV/m) = limit (dBm) + 95.23 = 82.2 dBµV/m

8.1.4 Test data, continued

Radiated spurious emissions with antenna in vertical polarization and with GSM Tx at 1880 MHz, WIFI Tx at 2437 MHz and BT Tx at 2440 MHz (configuration 2)



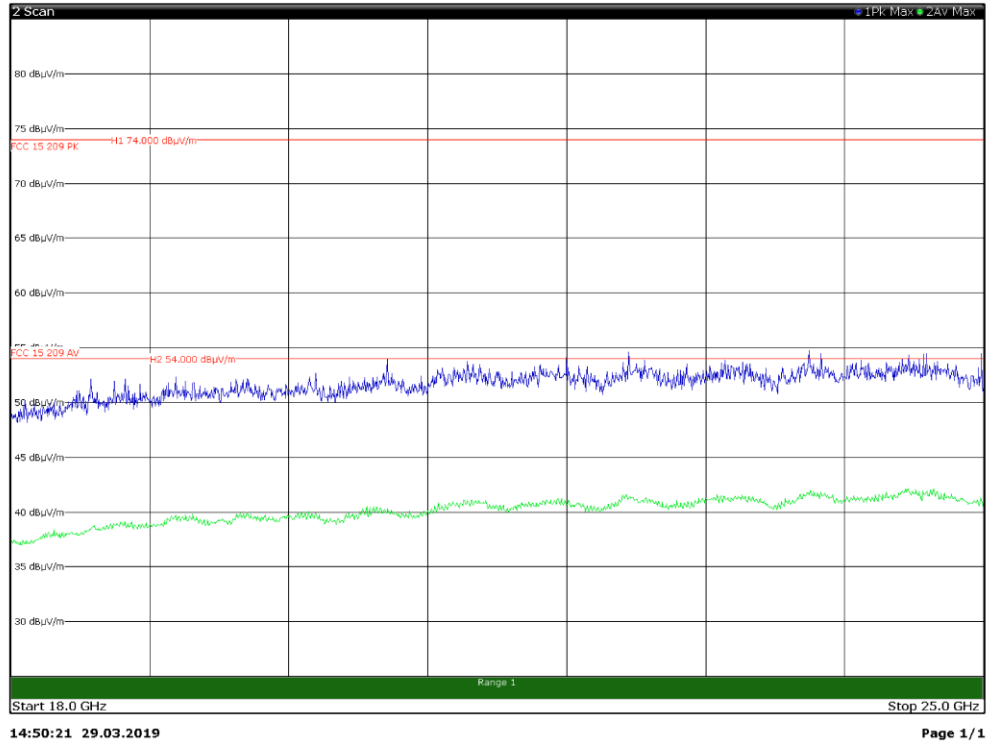
Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
3760.1250	76.4	82.2	-5.8	Pk
4879.4500	40.9	82.2	-41.3	Pk
4879.4750	34.6	82.2	-47.6	Pk
5639.8000	55.1	82.2	-27.1	Pk
9400.3250	46.2	82.2	-36	Pk

Limit exceeded by the carriers

The limit for FCC 22.917 is -13 dBm. Limit (dBµV/m) = limit (dBm) + 95.23 = 82.2 dBµV/m

8.1.4 Test data, continued

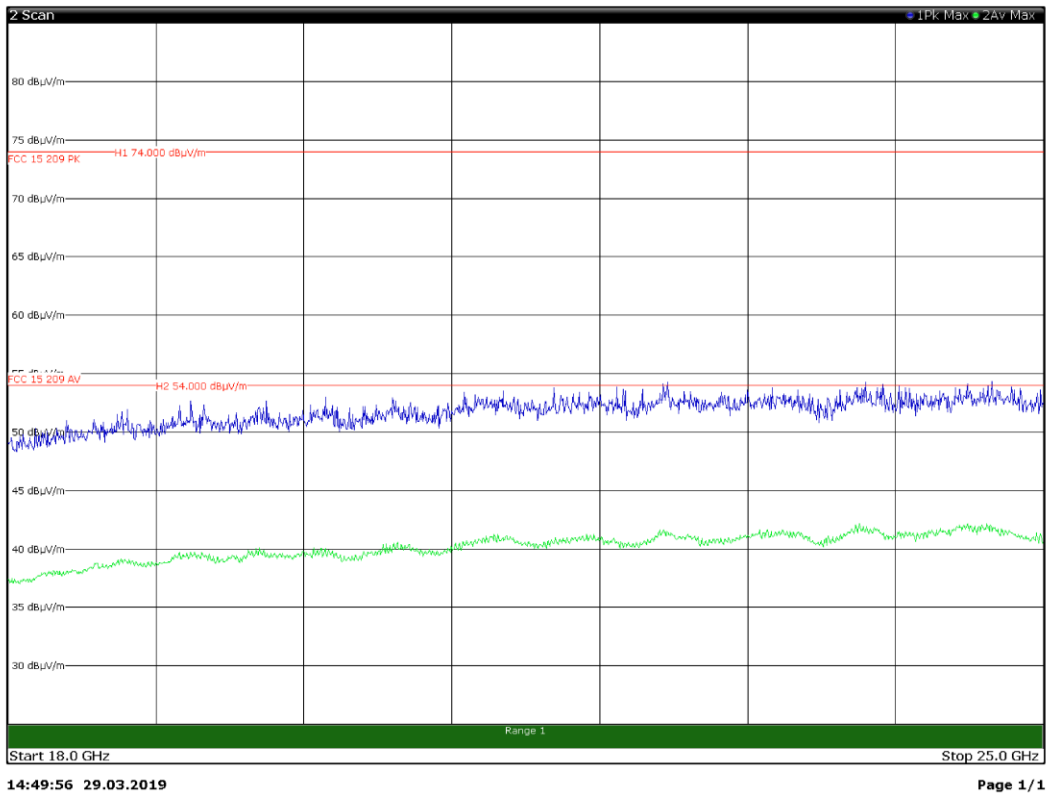
Radiated spurious emissions with antenna in vertical polarization and with GSM Tx at 837 MHz, WIFI Tx at 2437 MHz and BT Tx at 2440 MHz (configuration 1)





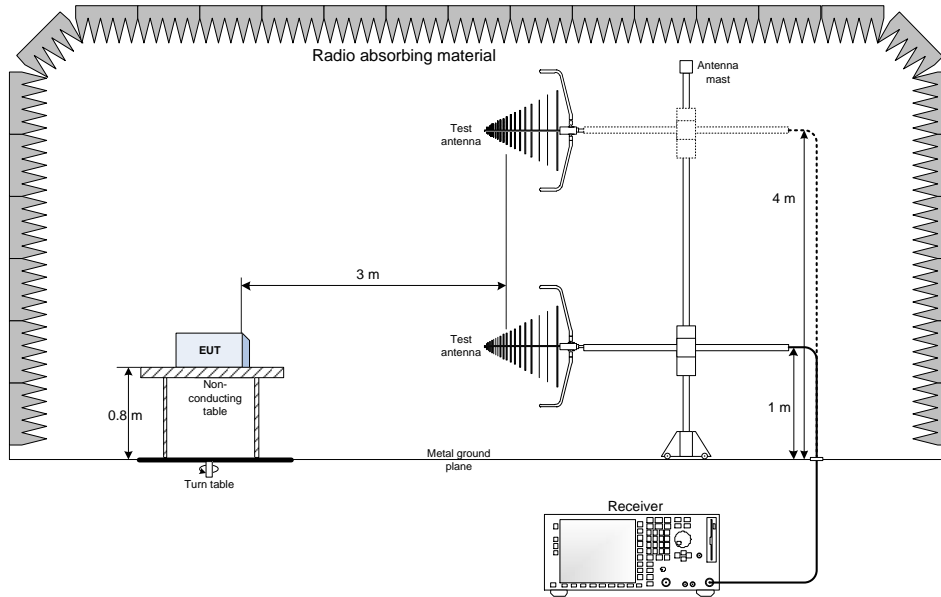
8.1.4 Test data, continued

Radiated spurious emissions with antenna in horizontal polarization and with GSM Tx at 837 MHz, WIFI Tx at 2437 MHz and BT Tx at 2440 MHz (configuration 1)

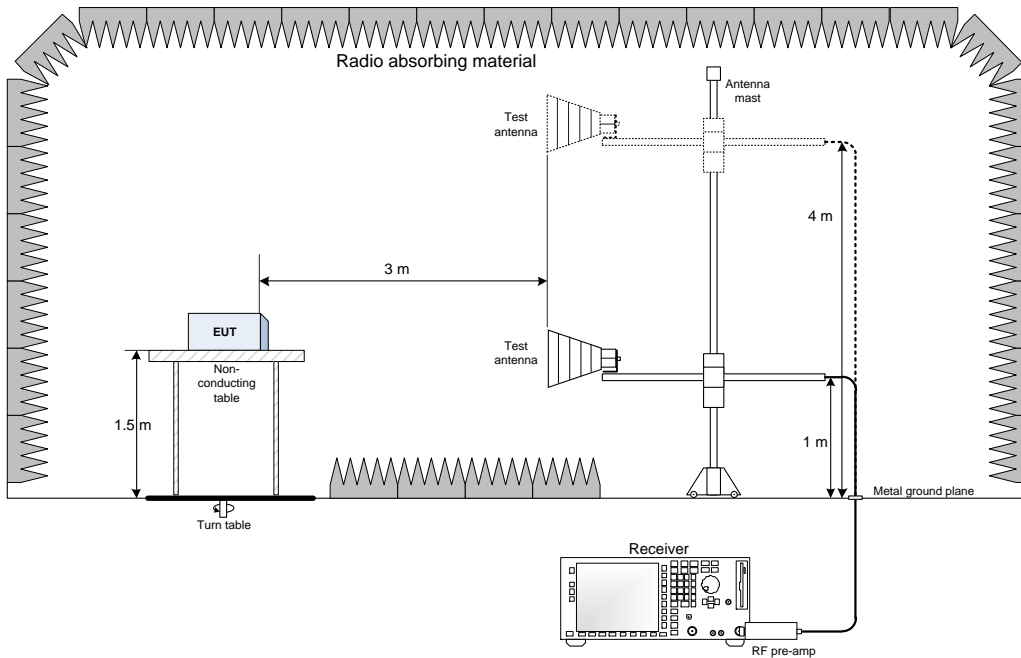


Section 9. Block diagrams of test set-ups

9.1 Radiated emissions set-up for frequencies below 1 GHz

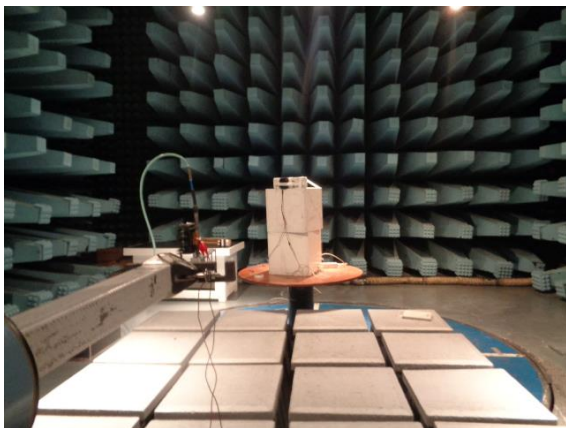
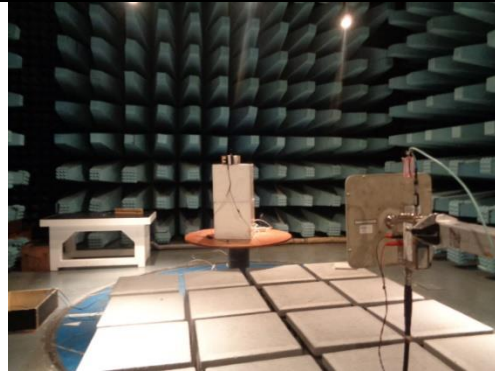


9.2 Radiated emissions set-up for frequencies above 1 GHz



Section 10. Photos

10.1 Photos of the test set-up



10.2 Photos of the EUT



Front



side



rear

(End of report)