

Test report nr. 25611FCC12

Measurements performed in accordance with:

**FCC Rules: code of Federal Regulations (CFR) no. 47
PART 15 – RADIO FREQUENCY DEVICES**

Product: Transmitter (Low Power Device)
Tested model: INTI2/A
FCC ID PML433INA
Applicant: Nice S.p.A.
Manufacturer: Nice S.p.A.
Trademark: Nice
Testing Laboratory Nice S.p.A.
Via Pezza Alta, 13
I-31046 Rustignè di Oderzo (TV)
Registration number: 771316
Date of receipt sample: 2012-12-04
Testing date: 2012-12-04 to 2012-12-07
Issue date: 28 March 2013

Tested by: C. Musat



Checked by: E. Campion



Notice: The result of tests and checks reported in this Test Report refer exclusively to the samples tested and described in the Report itself.
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1

General Description of Equipment under Test**1.1 Applicant**

Name: Nice S.p.A.
Address: Via Pezza Alta, 13 31046 Rustignè di Oderzo (TV)
Country: ITALY

1.2 Manufacturer

Name: Nice S.p.A.
Address: Via Pezza Alta, 13 31046 Rustignè di Oderzo (TV)
Country: ITALY

1.3 Equipment classification

According to definition 15.3 (o) is a intentional Radiator operating within the Bands:

so it shall fulfil provisions of 47CFR Part 15 Subpart C – international radiators – and Section 15.209.

According to definition 15.3 (z) is a unintentional Radiator:

So it shall fulfil provisions of 47CFR Part 15 Subpart B – Unintentional radiator and section 15.107 and 15.109.

1.4 Basic Description of equipment under test

Parameters	Value
Type of equipment:	Transmitter (low power device)
Model:	INTI2/A
FCC ID:	PML433INA
Trade Name:	Nice
Data cable:	-
Telecom cable:	-
Power supply type:	3Vdc (battery type CR2032)
AC power input cable:	-
DC power input cable:	-

Model	Description
INTI2/A	Transmitter with 2 buttons and black enclosure
INTI2B/A	Same of INTI2/A with Blue enclosure
INTI2B/A	Same of INTI2/A with Blue enclosure
INTI2G/A	Same of INTI2/A with Green enclosure
INTI2L/A	Same of INTI2/A with Lilac enclosure
INTI2R/A	Same of INTI2/A with Red enclosure
INTI2Y/A	Same of INTI2/A with Yellow enclosure

1.5 Feature of equipment under test

Parameters	Value
Power specification	3Vdc (battery type CR 2032)
Operating frequency:	433.92MHz
Maximum RF output power:	83.78dB μ V/m peak (average 74.16dB μ V/m)
Occupied Bandwidth (99% BW):	42.29kHz
Emission Designator (ITU):	42K3A1D
Modulation:	OOK (On Off Key)
Channel spacing:	No channel
Antenna:	Integral
Rx Sensitivity:	-
Main SW identification:	FIRFIN201
Main HW board identification:	SB315A2
Peripherals included (for system application):	-
Interfaces:	-
Integrated interfaces	-
AC adapter:	-

2

Test configuration of equipment under test

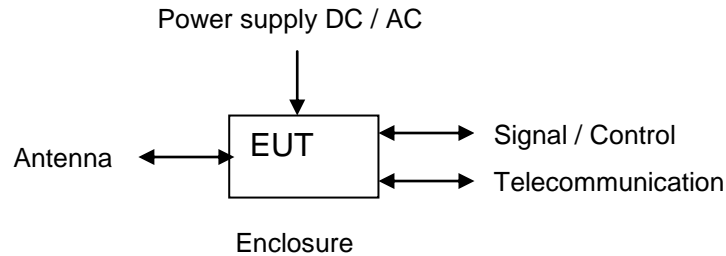
2.1 Environmental conditions

Test conditions	Measured
Ambient temperature:	20 ÷ 25°C
Relative humidity:	50 ÷ 60%
Atmospheric pressure:	900 ÷ 1010mb

2.2 Description of support equipment

Equipment	Manufacturer	Model
-	-	-

2.3 Interface identification and connection diagram of test system



#	Interface	Description	Maximum length	Ref. Document
1	Enclosure	Plastic enclosure	56 x 30 x 10 mm	-
2	AC mains power input	-	-	-
3	DC power port	3Vdc battery type CR2032	-	-
4	Signal / control port	-	-	-
5	Antenna port	-	-	-

3

Operation of equipment under test

3.1 Operating test conditions

#	Description
1	Transmitter
2	Standby

4

Tests identification and result

CFR47 Part 15 Section	Title	Operating condition	Result
15.203 15.247 (b)(4)(i)	Antenna requirements	-	N/A
15.207 (a)	Conducted emission	#1	N/A
15.209 (a) (f)	Radiated emission	#1	Pass
15.231 (a)	Timing of the transmitter	#1	Pass
15.231 (a)	Transmit behaviour after releasing the TX-button	#1	Pass
15.231 (b)	Radiated output power	#1	Pass
15.35 (c)	Typical pulse train of a signal	#1	Pass
15.231 (b)	Compliance with the limit of FCC	#1	Pass
15.231 (b)	Spurious emission - radiated	#1	Pass
15.231 (c)	Occupied bandwidth	#1	Pass

4.1 Methods of measurement

All compliance measurements have been carried out using the procedures described in the standard ANSI C63.4-2009 (excluding sub-par. 4.1.5.2, 5.7.9 and 14), C63.10-2009 and Section 15.31 of CFR47 Part 15 – Subpart A (General).

4.2 Frequency range investigated

- a) conducted emission tests: from 9kHz to 30MHz.
- b) Radiated emission tests: from 150kHz to tenth harmonic of fundamental.

5 Tests

5.1 Antenna requirements

Specify:

Base standard:	47CFR Part 15 Sections 15.203, 15.204
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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. This requirements does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219 or 15.221. Further, this requirements does not apply to intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

Antenna Specification:

N° of authorized antenna type:	
--------------------------------	--

Antenna type:	
---------------	--

Maximum total gain:	
---------------------	--

External power amplifiers:	
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Antenna description:

<i>No.</i>	<i>Manufacturer</i>	<i>Model Type</i>

Comments:

-

5.2 Conduced emission

Specify:

Base standard:	47CFR Part 15 Section 15.207
----------------	------------------------------

- 1) ~~The EUT was placed on wooden table size 80cm, raised 80cm in which is located 40cm away from the vertical wall shielded room.~~
- 2) ~~Each EUT powered input cord was individually connected through a 50Ω/50μH LISN to the input power source.~~
- 3) ~~Exploratory measurements were made identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.~~
- 4) ~~The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was than performed over the frequency range of 0,15MHz to 30MHz.~~
- 5) ~~The measurements were made with the detector set to PEAK and AVERAGE amplitude within a bandwidth of 10kHz during the measurements.~~
- 6) ~~The measurements with Quasi-Peak detector are performed only for frequencies for which the Peak values are \geq (Q.P. limit - 6dB)~~

Test Requirements:

Test Setup:	ANSI C63.4
Limit of mains terminal disturbance voltage:	15.207 (a)
Frequency range:	9kHz - 150kHz 150kHz - 30MHz
IF Bandwidth:	200Hz 9kHz
EMC class	B

Limits ⁽¹⁾:

Frequency [MHz]	Quasi-Peak (dBμV)	Average (dBμV)
0,15 - 0,5	66 - 56	56 - 46
0,5 - 5	56	46
5 - 30	60	50

Note: (1) The lower limit shall apply at the transition frequencies.

—— (2) The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.

Test Data:

Port under test	Operating condition	Result
AC mains power input port	#1	Complies

Comments:

-

5.3 Radiated emission

Specify:

Base standard:	47CFR Part 15 Section 15.209
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- 1) The EUT was placed on turntable which is 0,8m above the ground plane.
- 2) The turntable shall rotate from 0° to 360° degrees to determine the position of maximum emission level.
- 3) The EUT is positioned 3m away from the receiving antenna which varied from 1 to 4m to find the highest emission.
- 4) The measurements were made with the detector set to PEAK and AVERAGE amplitude within a bandwidth of 100kHz below 1000MHz and 1MHz above 1000MHz.
- 5) The receiving antenna was positioned in both horizontal and vertical polarization.
- 6) The measurements with Quasi-Peak detector, below 1000MHz are performed only for frequencies for which the Peak values are \geq (Q.P. limit – 6dB).

Test Requirements:

Test Setup:	ANSI C63.4
Test facility:	Anechoic chamber
Test distance:	3m
Limits for radiated disturbances:	15.209 (a)
Frequency range:	150kHz to 1GHz
IF bandwidth (below 30MHz):	9kHz
IF bandwidth (below 1000MHz):	120kHz
IF bandwidth (above 1000MHz):	1MHz
EMC class:	B

Limits ⁽¹⁾:

Frequency [MHz]	Field Strength (μ V/m)	Measurement distance (m)
0,0009 – 0,490	2400/F(kHz)	300
0,490 – 1,750	24000/F(kHz)	30
1,750 - 30	30	30
30 - 88	100	30
88 -216	150	3
216 - 960	200	3
above 960	500	3

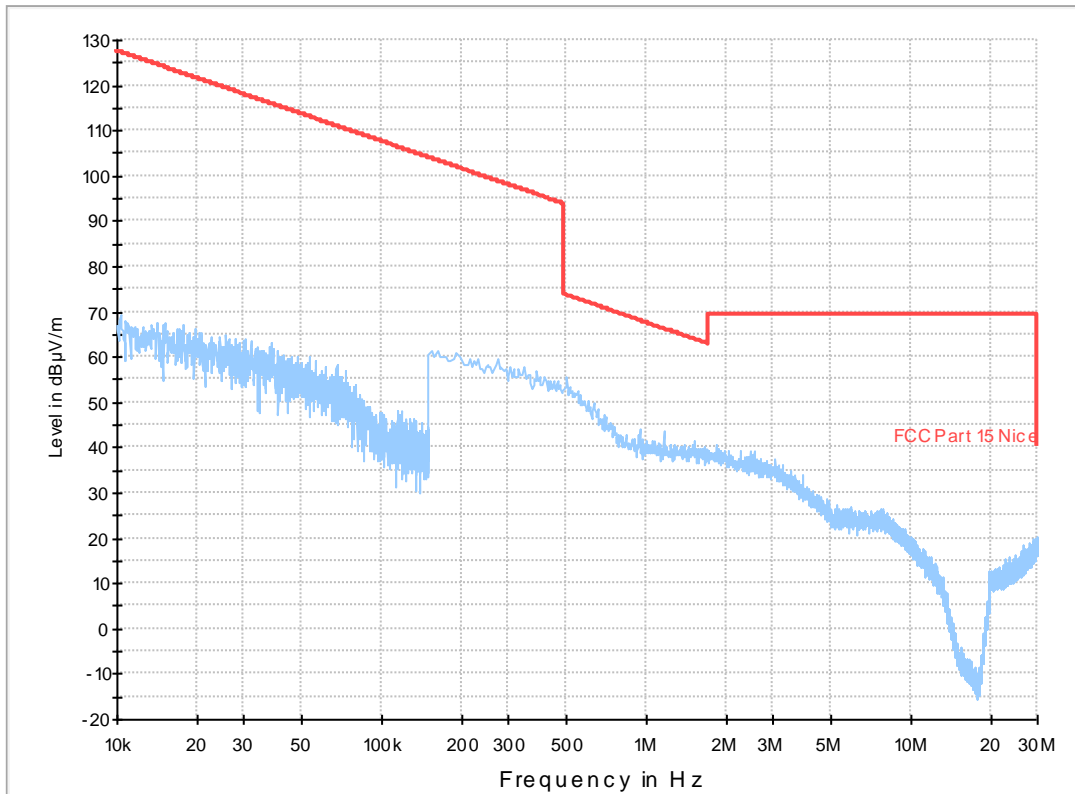
Note: ⁽¹⁾ to convert the measuring distance from 3m to 300m and 30m to 300m a correction factor from 40dB/decade was used

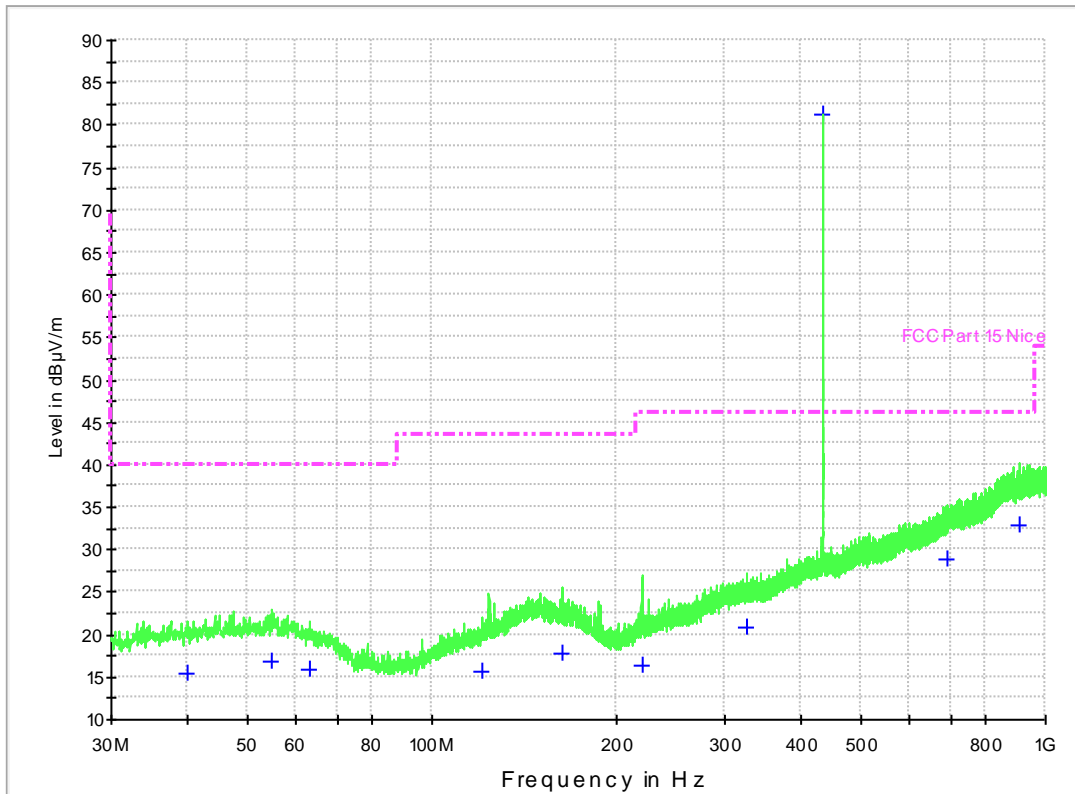
Test Data.:

Port under test	Operating condition	Result
Enclosure	#1	Complies

Comments:

the results represent the worst case of emissions between three polarizations verified (X, Y and Z).



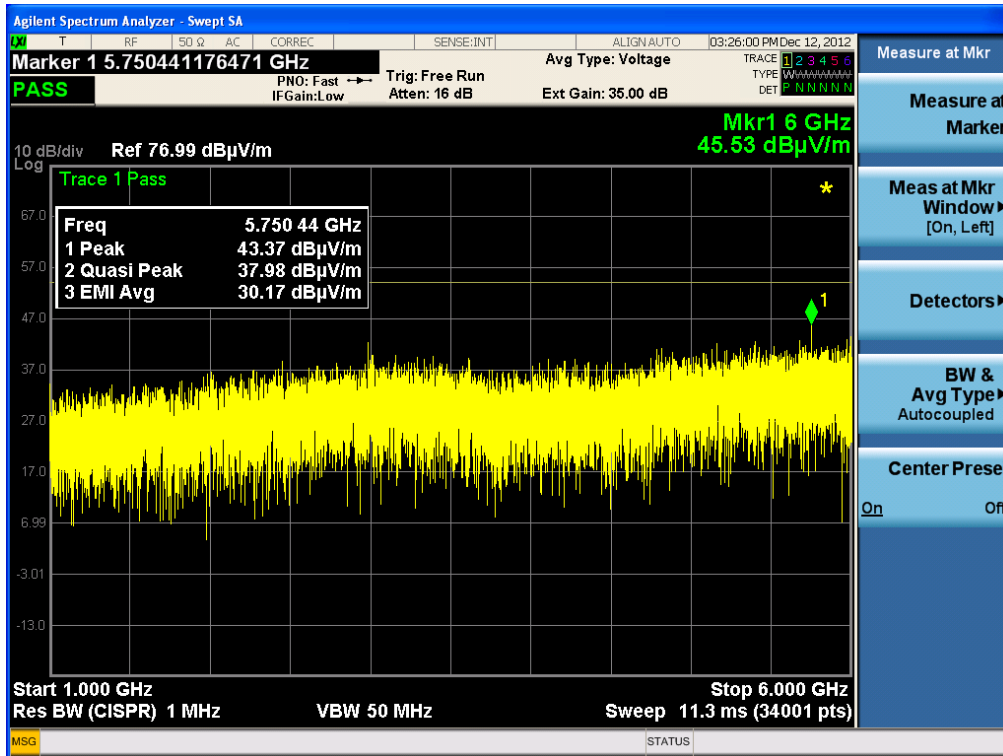


Worst case between Horizontal and Vertical polarizations

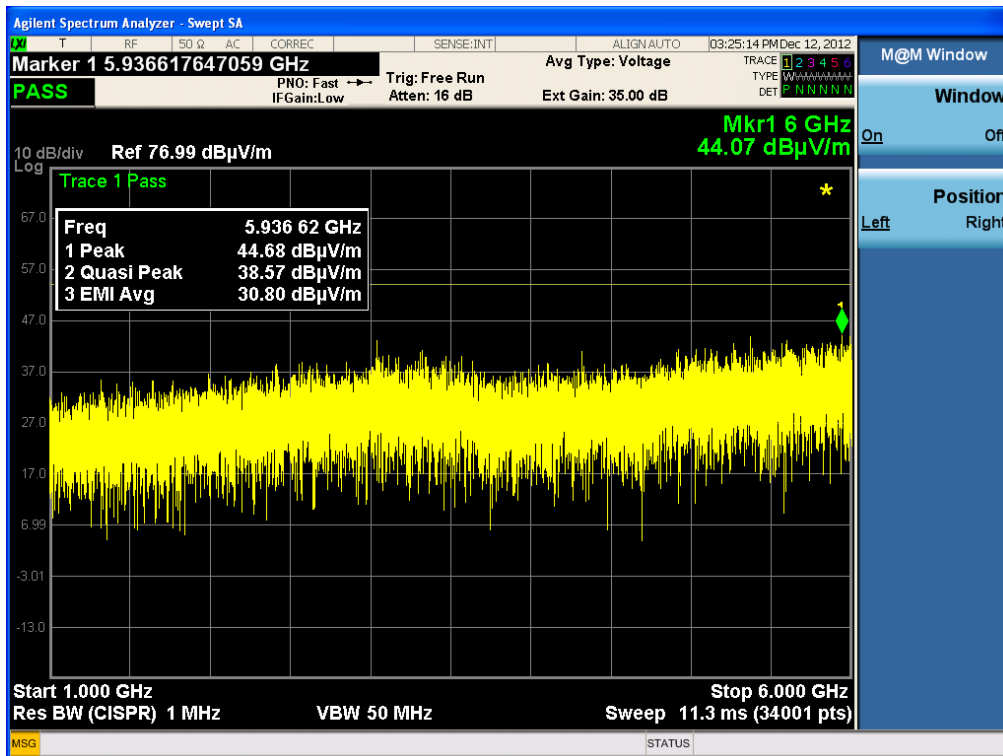
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Comment
39.960000	15.4	1000.0	120.000	100.0	H	0.0	11.6	
54.960000	16.7	1000.0	120.000	100.0	H	0.0	12.7	
63.120000	15.8	1000.0	120.000	100.0	H	0.0	11.7	
120.960000	15.6	1000.0	120.000	100.0	H	0.0	12.1	
163.500000	17.9	1000.0	120.000	100.0	H	0.0	14.3	
220.500000	16.3	1000.0	120.000	100.0	H	0.0	12.9	
326.760000	20.8	1000.0	120.000	100.0	V	0.0	17.3	
433.920000	81.3	1000.0	120.000	100.0	H	0.0	19.9	
690.540000	29.0	1000.0	120.000	100.0	H	0.0	25.1	
903.540000	33.0	1000.0	120.000	100.0	H	0.0	28.3	

Frequency (MHz)	Margin QP (dBµV/m)
39.960000	-24.6
54.960000	-23.3
63.120000	-24.2
120.960000	-27.9
163.500000	-25.6
220.500000	-29.7
326.760000	-25.2
433.920000	35.3
690.540000	-17.0
903.540000	-13.0

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Horizontal polarization



Vertical polarization

5.4 Timing of the transmitter

Specify:

Base standard:	CFR47 Part 15 Section 15.231 (a)
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Unless otherwise specified, e.g. Section 15.225 (b), when the radiated emission limits are expressed in term of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0,1 seconds. As an alternative (provided the transmitter operates for longer than 0,1 seconds) or in cases where the pulse exceeds 0,1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0,1 second interval strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subjected to notification or verification.

Test requirements:

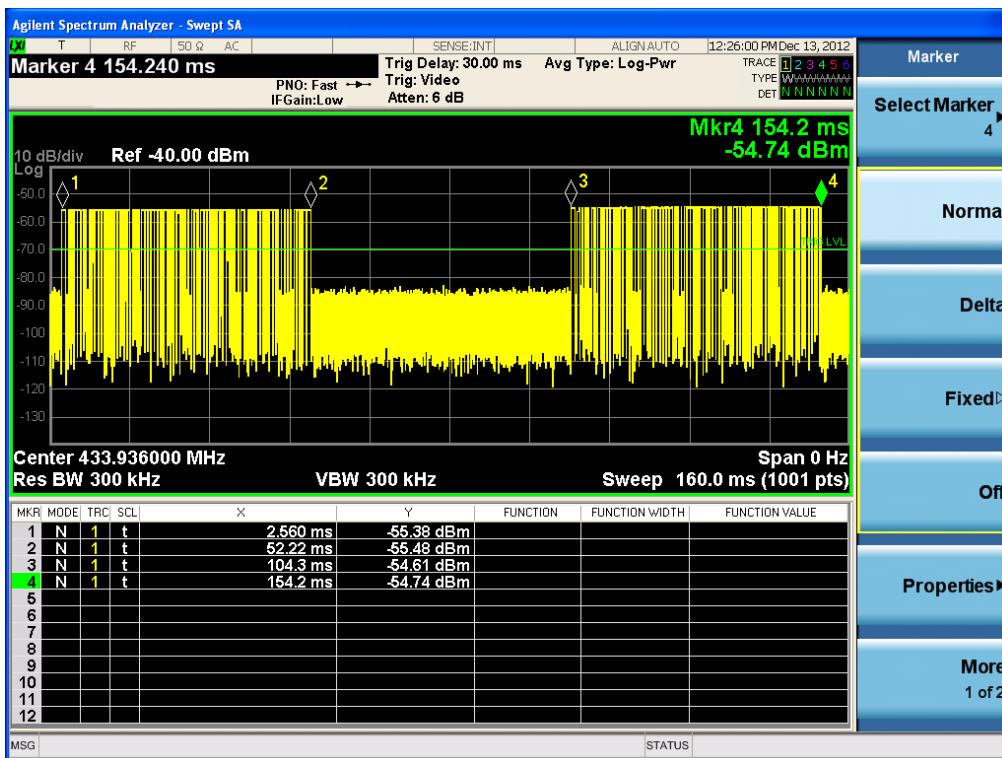
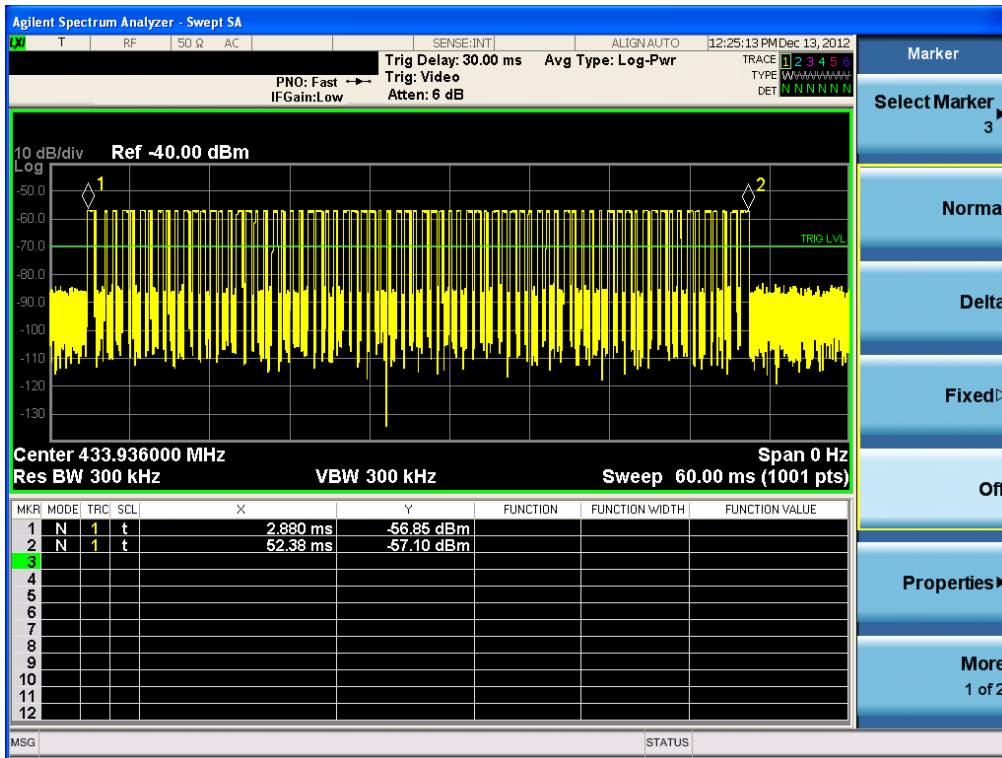
Test Setup:	CFR47 Part 15 Section 15.35 (c)
RBW:	1MHz
VBW:	3MHz

Test Data:

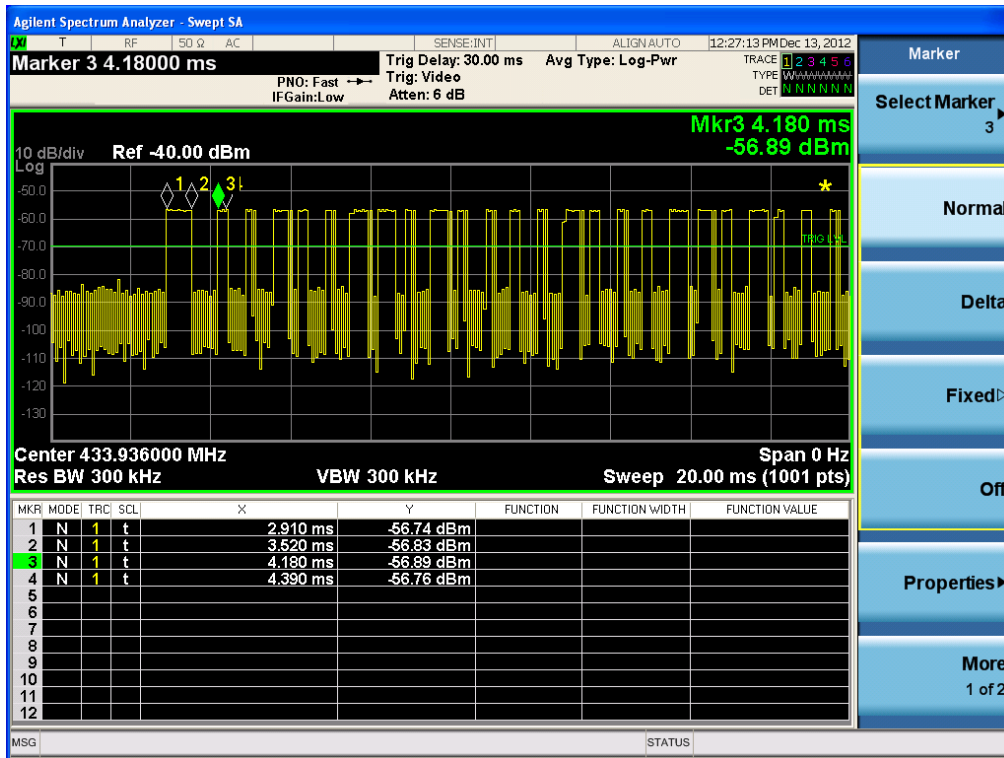
Frame period:	49.5ms
Pause:	50.5ms
Pulse train length:	49.5ms
ON Time:	$72 \times 0.44 + 2 \times 0.66 = 33\text{ms}$ (worst case, all bit at 1. See 5.7)
OFF Time:	$72 \times 0.22 = 15.84$ (worst case, all bit at 1. See 5.7)

Comments:

-



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5.5 Transmit behaviour after releasing the TX-button

Specify:

Base standard: 47CFR Part 15 Section 15.231 (a)

Test requirements:

Test Setup: 47CFR Part 15 Section 15.35 (c)

RBW: 1MHz

VBW: 3MHz

Test data:

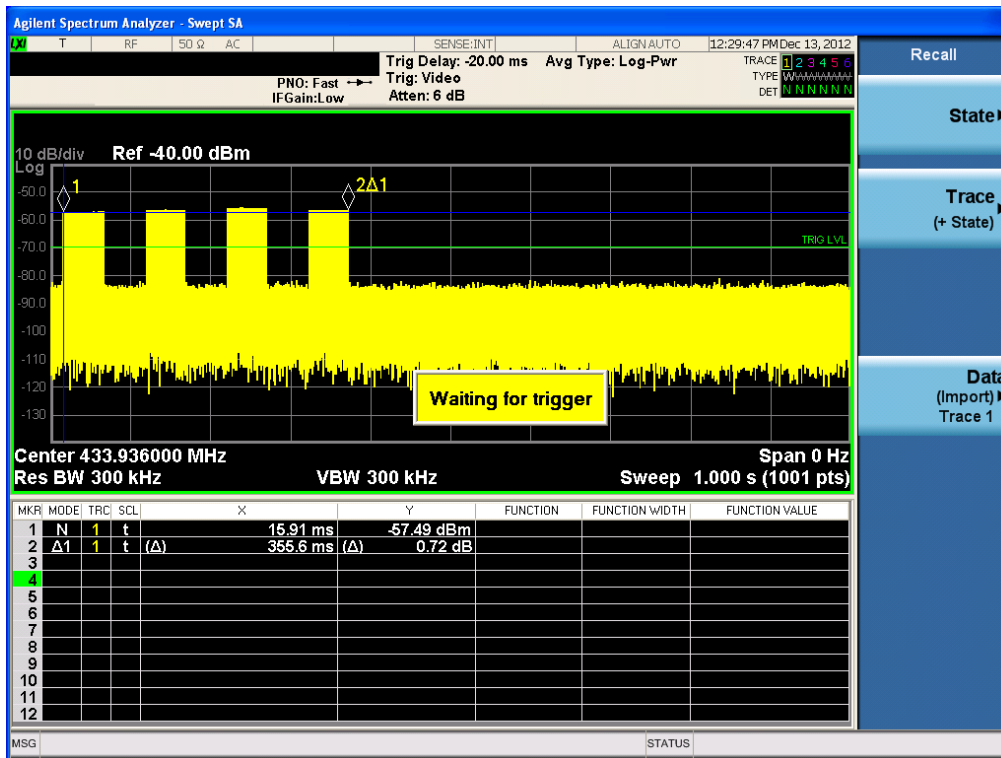
T1: -

T2: -

T2-T1: ms

Comments:

after releasing button, the transmitter stop the transmission in worst case at 482ms.



5.6 Radiated output power

Specify:

Base standard: FCC 15.231 (b)

Test Requirements:

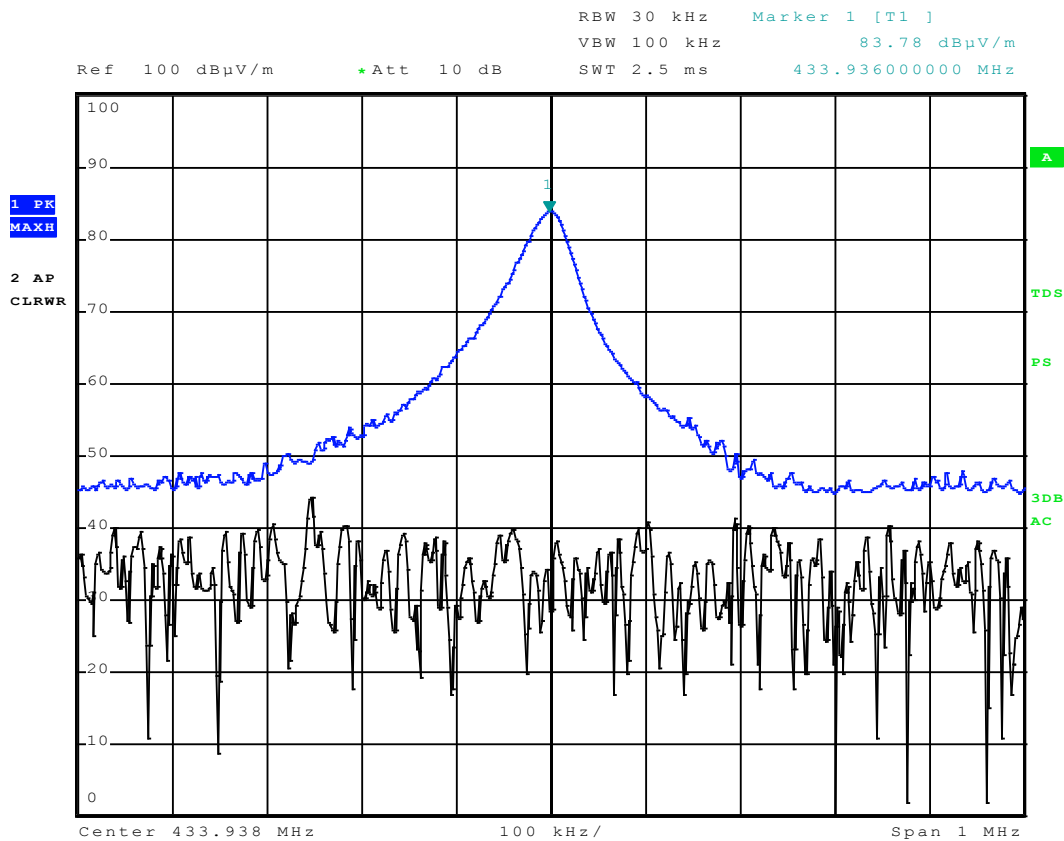
RBW / VBW:	200Hz ($f < 150\text{kHz}$) 9kHz ($150\text{kHz} < f < 30\text{MHz}$) 120kHz ($30\text{MHz} < f < 1000\text{MHz}$) 1MHz ($f > 1000\text{MHz}$)
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Test data:

Output radiated power (3m of distance): Peak dB μ V/m at distance of 3m

Comments:

-



Date: 12.DEC.2012 15:30:08

5.7 Typical pulse train of a signal

Specify:

Base standard:	47CFR Part 15 Section 15.231 (a)
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Test Setup:

RBW:	1MHz
VBW:	3MHz

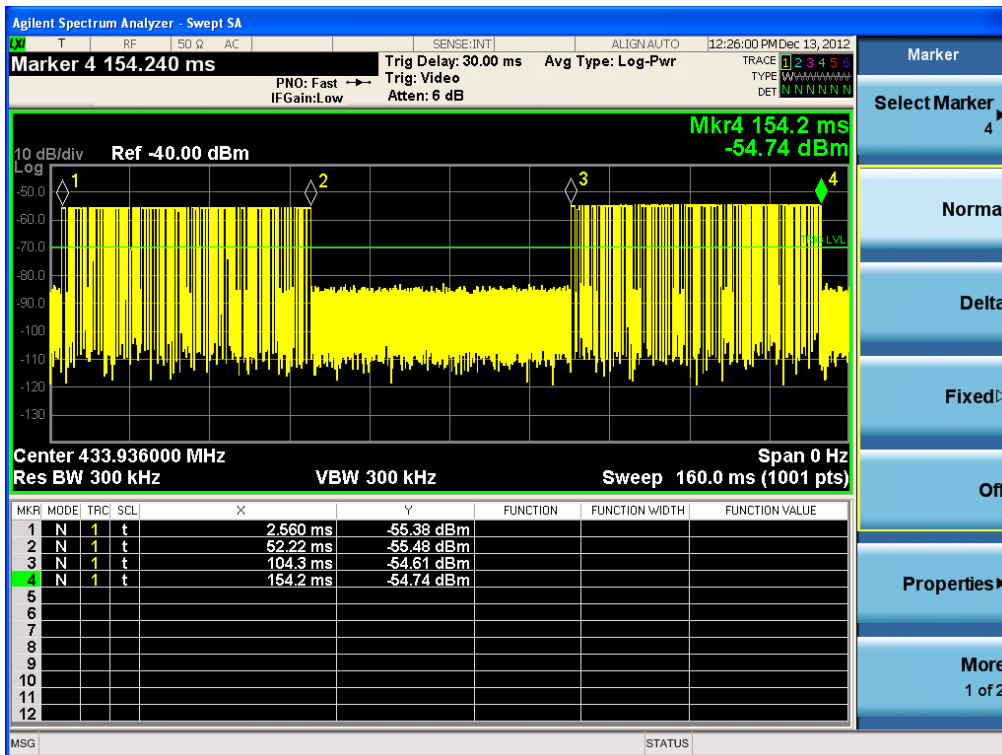
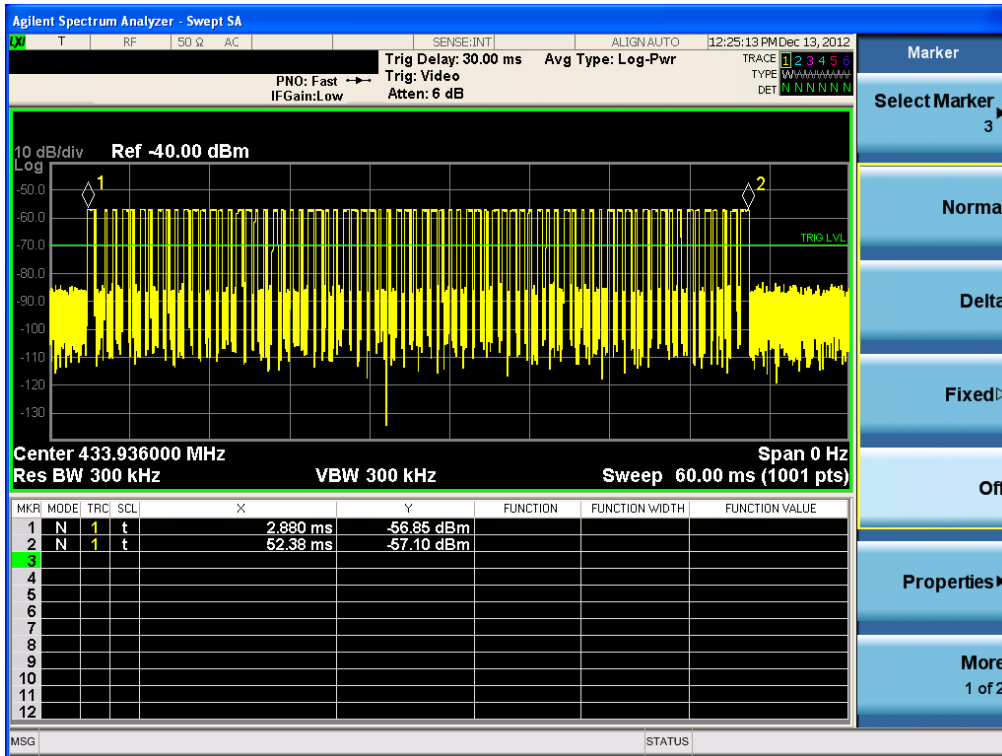
Test Data:

Duty-cycle	0.33
TX on	33ms
TX off	77ms
Average correction factor ($20 \cdot \log(\text{duty cycle})$):	$20 \log (0.33 / 100\text{ms}) = -9.62\text{dB}$

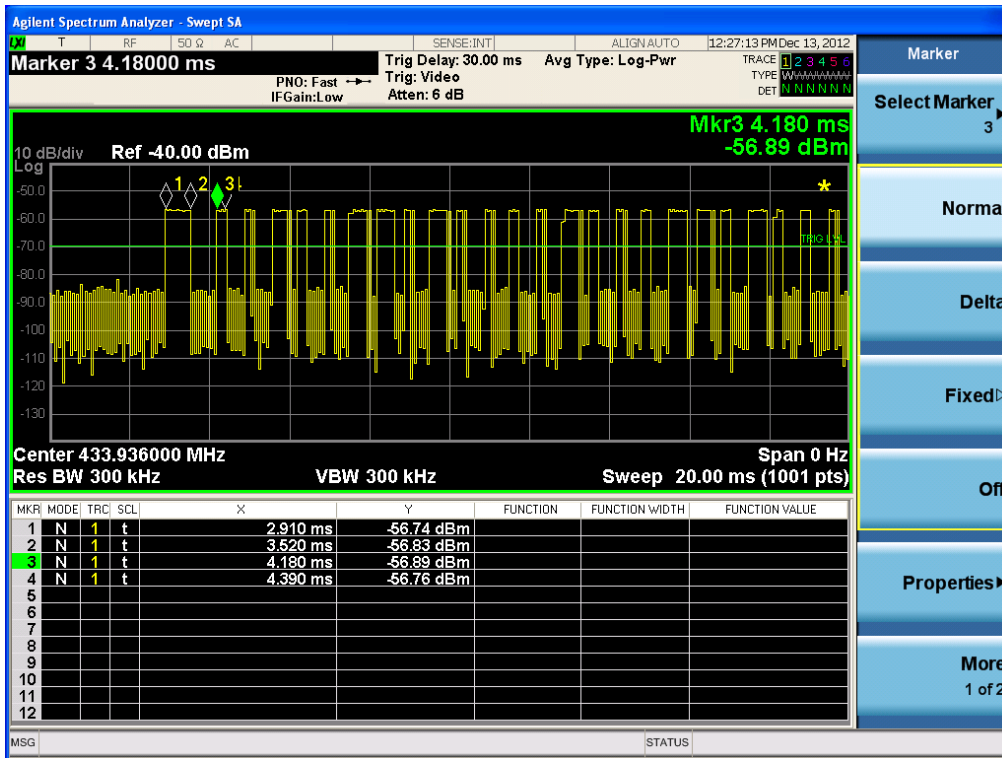
Comments:

Every train of impulse respect the following code:
 72 bit + 1 bit start + 1 bit stop
 Start bit = 0.66ms
 Stop bit = 0.66ms
 Bit 1 = 0.44ms on + 0.22ms off
 Bit 0 = 0.22ms on + 0.44ms off
 Bit train = $(0.66 + 0.66 + 72 \times 0.44) = 33\text{ms}$ (worst case with all bit at 1. This is not a real case)
 In 100ms, in worst case (all bit at 1), the duty cycle is: $33\text{ms}/100\text{ms} = 0.33$
 Calculus average correction factor = $20 \times \log (0.33) = -9.62\text{dB}$

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5.8 Compliance with the limit of FCC

Specify:

Base standard:	47CFRF Part 15 Section 15.231 (b)
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Test Setup:

RBW / VBW:	200Hz (f < 150kHz) 9kHz (150kHz < f < 30MHz) 120kHz (30MHz < f < 1000MHz) 1MHz (f > 1000MHz)
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Limits:

Frequency [MHz]	Field Strength of the fundamental	Field Strength of spurious emissions
40,66 – 40,70	2 250 μ V/m / 67dB μ V/m	225 μ V/m / 47dB μ V/m
70 – 130	1 250 μ V/m / 62dB μ V/m	125 μ V/m / 42dB μ V/m
130 - 174	1 250 μ V/m to 3 750 μ V/m ⁽¹⁾ 62 μ V/m to 71,5 μ V/m	125 μ V/m to 375 μ V/m ⁽¹⁾ 42dB μ V/m to 51,5dB μ V/m
174 – 260	3 750 μ V/m / 71,5dB μ V/m	375 μ V/m / 51,5dB μ V/m
260 – 470	3 750 μ V/m to 12 500 μ V/m ⁽¹⁾ 71,5 dB μ V/m to 82 dB μ V/m	375 μ V/m to 1 250 μ V/m ⁽¹⁾ 51,5dB μ V/m to 62dB μ V/m
above 470	12 500 μ V/m / 82dB μ V/m	1 250 μ V/m / 62dB μ V/m

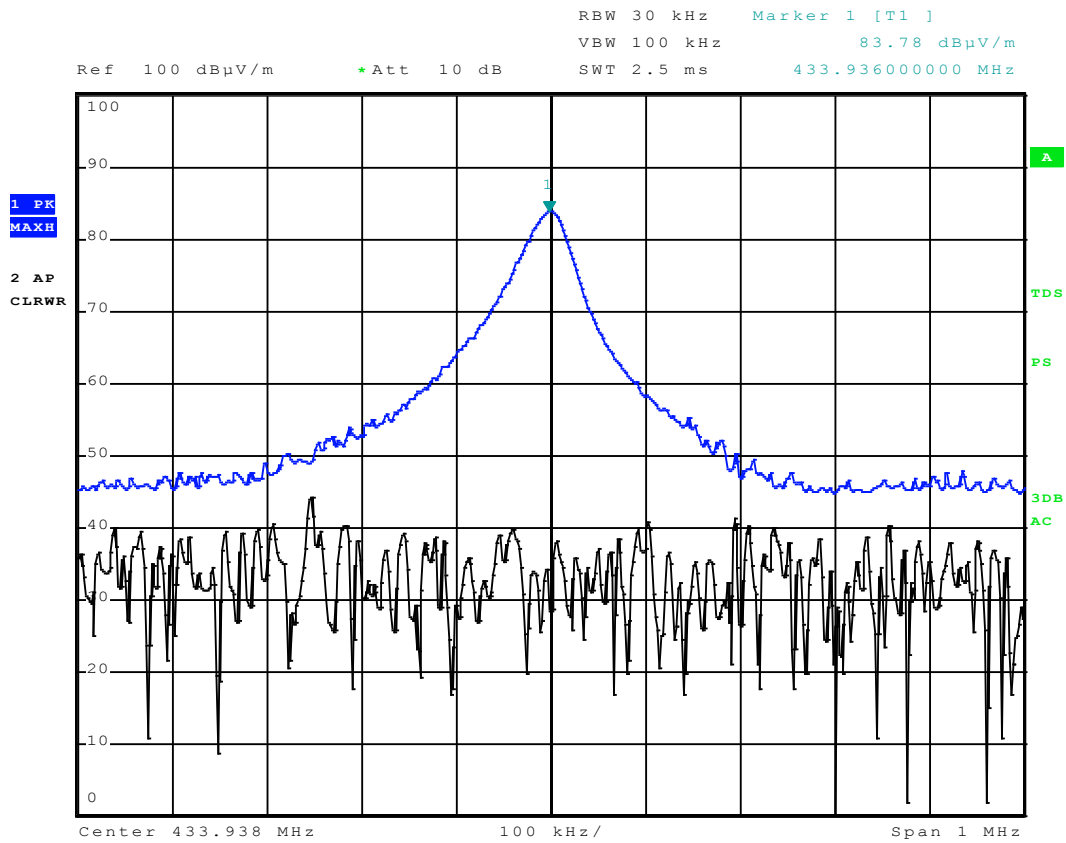
Note: ⁽¹⁾ linear interpolations
for 130 to 174MHz the interpolation is: 56,8182*f – 6136,36 (f in MHz)
for 260 to 470MHz the interpolation is: 41,667*f – 7083,33 (f in MHz)

Test Result:

Frequency:	
Calculated average (3m of distance):	(83.78 – 9.62) dB μ V/m = 74.16dB μ V/m

Comments:

-



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5.9 Spurious emission - radiated

Specify:

Base standard: 47CFR Part 15 Section 15.231 (b)

Test Setup:

-

Limits:

Frequency [MHz]	Field Strength of the fundamental	Field Strength of spurious emissions
40,66 – 40,70	2 250 μ V/m / 67dB μ V/m	225 μ V/m / 47dB μ V/m
70 – 130	1 250 μ V/m / 62dB μ V/m	125 μ V/m / 42dB μ V/m
130 - 174	1 250 μ V/m to 3 750 μ V/m ⁽¹⁾ 62 μ V/m to 71,5 μ V/m	125 μ V/m to 375 μ V/m ⁽¹⁾ 42dB μ V/m to 51,5dB μ V/m
174 – 260	3 750 μ V/m / 71,5dB μ V/m	375 μ V/m / 51,5dB μ V/m
260 – 470	3 750 μ V/m to 12 500 μ V/m ⁽¹⁾ 71,5 dB μ V/m to 82 dB μ V/m	375 μ V/m to 1 250 μ V/m ⁽¹⁾ 51,5dB μ V/m to 62dB μ V/m
above 470	12 500 μ V/m / 82dB μ V/m	1 250 μ V/m / 62dB μ V/m

Note: ⁽¹⁾ linear interpolations
for 130 to 174MHz the interpolation is: $56,8182 \cdot f - 6136,36$ (f in MHz)
for 260 to 470MHz the interpolation is: $41,667 \cdot f - 7083,33$ (f in MHz)

Test Result:

Frequency [MHz]	Peak Amplitude of emission (dB μ V/m)	Average Amplitude of emission (dB μ V/m)	Limit maximum allowed emission power	Actual attenuation below frequency of operation (dB)	Results
433.8960	83.78	74.16	80.83dB μ V/m	6.67	operating frequency
867.792	50.23	40.61	-20dBc	20.21	complies
1301.688	55.51	45.89	54.0dB μ V/m	8.11	complies
1735.584	65.14	55.52	-20dBc	5.3	complies
2169.480	69.62	60	-20dBc	0.82	complies
2603.376	46.83	37.21	-20dBc	43.61	complies
3037.272	57.88	48.26	-20dBc	32.56	complies
3471.168	58.68	49.06	-20dBc	11.76	complies
3905.064	48.79	39.17	54.0dB μ V/m	14.83	complies
4338.960	48.39	38.77	54.0dB μ V/m	15.23	complies

Comments:

-

5.10 Occupied bandwidth**Specify:**

Base standard:	47CFR Part 15.231 (c)
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The bandwidth of the emission shall be no wider than 0,25% of the center frequency for devices operating above 70MHz and below 900MHz. For devices operating above 900MHz, the emission shall be no wider than 0,5% of the center frequency. Bandwidth is determined at the points 20dB down from the modulated carrier.

Test Setup:

RBW:	3kHz
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VBW:	3kHz
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Limits:

< 0,25% of the centre frequency, here 1,08MHz

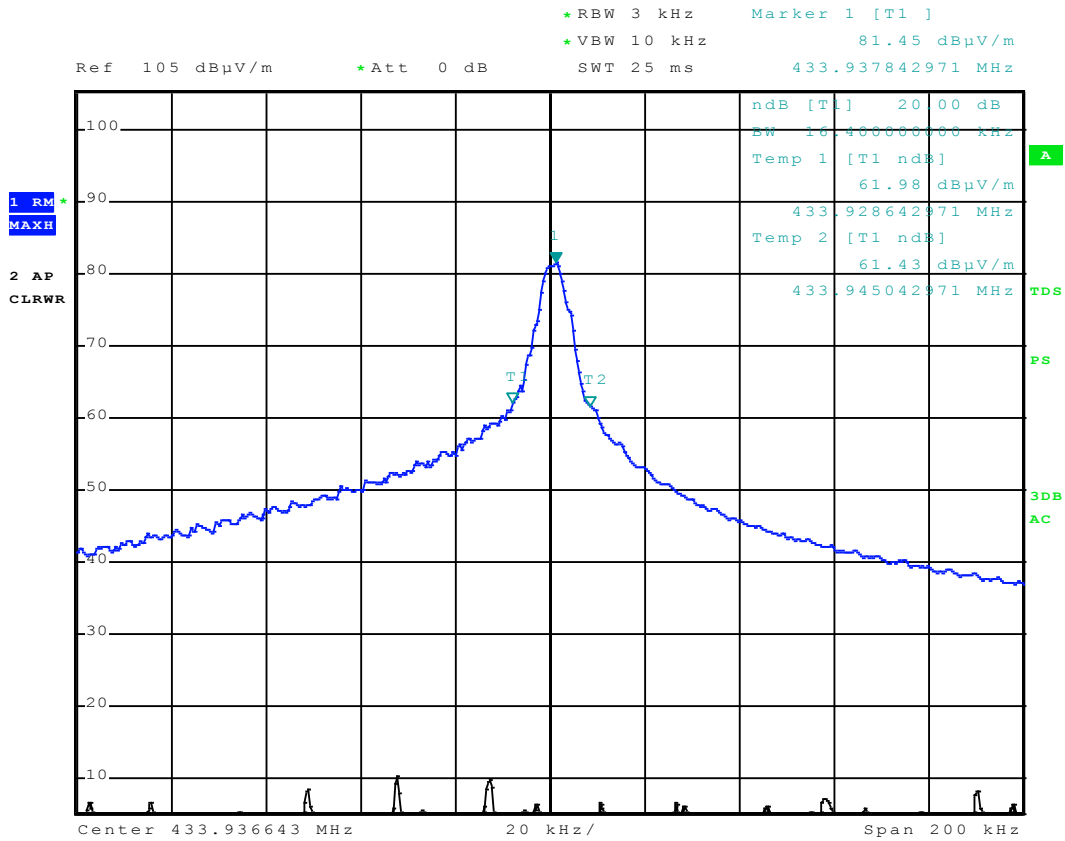
Test Data:

Occupied bandwidth at -20dB:	16.4kHz < 1.08MHz
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Comments:

-

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Date: 12.DEC.2012 18:01:43

6

Measurement and Test Equipment instrumentation

Code	nr.	Manufacturer	Model	Serial number	Date of Calibration	Calibration Due
ANA	7	Agilent	N9020A	MY48011101	10/02/2012	10/02/2013
ANA	11	Rohde & Schwarz	FSL3	102362	02/05/2012	02/05/2014
ANT	1	EMCO	3121C DB-4	9312-901		
ANT	3	Schwarzbeck	VULB9160	3180	07/06/2011	07/06/2013
ANT	4	AH System	SAS-571	684	08/06/2011	08/06/2013
ANT	5	AH System	SAS-562B	236	06/06/2011	06/06/2013
ANT	6	AH System	SAS-571	1025	08/06/2011	08/06/2013
ANT	7	Aaronia	BicoLOG 30100	1293	07/06/2011	07/06/2013
ATT	1	-	PE7021-6		21/06/2011	21/06/2013
ATT	2	Tyco Electronics Co.	50WCW	-	22/06/2011	22/06/2013
ATT	5	RADIAL	R414.710.000	-	23/05/2008	23/05/2013
ATT	6	RADIAL	R414.710.000	-	23/05/2008	23/05/2013
ATT	7	RADIAL	R414.720.000	-	23/05/2008	23/05/2013

Code	nr.	Manufacturer	Model	Serial number	Date of Calibration	Calibration Due
CAV	1	Rohde & Schwarz	HFU2-Z5	-	22/06/2011	22/06/2013
CAV	2	Rohde & Schwarz	HFU2-Z4	-	22/06/2011	22/06/2013
CAV	3	TESEO	CAVO A	-	22/06/2011	22/06/2013
CAV	4	TESEO	CAVO B	-	22/06/2011	22/06/2013
CAV	5	TESEO	CAVO C	-	22/06/2011	22/06/2013
CAV	6	TESEO	CAVO D	-	22/06/2011	22/06/2013
CAV	7	TESEO	CAVO E	-	22/06/2011	22/06/2013
CAV	13	TESEO	CAVO G	-	22/06/2011	22/06/2013
CAV	14	TESEO	CAVO H	-	22/06/2011	22/06/2013
CAV	15	TESEO	CAVO I	-	22/06/2011	22/06/2013
CAV	16	Rohde & Schwarz	9111505/200 (CAVO J)	5995-12-161-6890	22/06/2011	22/06/2013
CAV	17	Nice	CAVO K	-	22/06/2011	22/06/2013

Code	nr.	Manufacturer	Model	Serial number	Date of Calibration	Calibration Due
CAV	18	Nice	CAVO L	-	22/06/2011	22/06/2013
CAV	19	Nice	Cavo M	-	22/06/2011	22/06/2013
CAV	20	Nice	Cavo N	-	22/06/2011	22/06/2013
CAV	21	Nice	Cavo P	-	22/06/2011	22/06/2013
CDN	1	FCC	FCC 801-M2-16A-SPJ	5024	09/06/2011	09/06/2013
CDN	2	FCC	FCC 801-M3-16A-S	5032	09/06/2011	09/06/2013
CDN	3	FCC	FCC801-150-50 CDN	05031 & 05032		
CDN	4	FCC	FCC 801-M1-16A	7035	09/06/2011	09/06/2013
CDN	5	FCC	FCC 801-150-50-CDN	07113 & 07114		
CDN	6	FCC	FCC 801-M4-16A	100726	24/01/2012	24/01/2014
CDN	7	FCC	FCC-801-M5-16A	100727	24/01/2012	24/01/2014
CSA	1	TESEO	EN 55022 EN 610004-3	NSA	04/09/2012	04/09/2013
				CISPR 16-1-4	14/04/2009	14/04/2014
				EN 61000-4-3	10/08/2010	04/09/2013
ECL	1	FCC	F-203I-23	466	09/06/2011	09/06/2013
ECL	2	FCC	F-203I-CF-23MM	445		

Code	nr.	Manufacturer	Model	Serial number	Date of Calibration	Calibration Due
GEN	7	Rohde & Schwarz	SML 03	102178	25/01/2012	25/01/2014
GEN	8	Agilent	N5182A	MY48180288	11/09/2012	11/09/2013
LIS	2	Rohde & Schwarz	ESH2-Z5	100183	09/06/2011	09/06/2013
PAS	1	FCC	F-202	197	29/05/2009	29/05/2013
POW	1	Rohde & Schwarz	NRVD	101221	18/06/2012	18/06/2014
POW	2	Rohde & Schwarz	NRV-Z5	100314	20/06/2012	20/06/2014
POW	3	Rohde & Schwarz	NRV-Z5	100315	20/06/2012	20/06/2014
PRE	2	Schwarzbeck	BBV 9718	9718-178	13/04/2012	13/04/2014
RIC	1	Rohde & Schwarz	ESCI	100140	25/01/2012	25/01/2013
SCO	7	FCC	F-51	454	09/06/2011	07/06/2013
SCO	8	Teseo	EQ-51-1	D047	07/06/2011	07/06/2013
SCO	9	FCC	F-33-4	63	09/06/2011	09/06/2013
SOF	1	Rohde & Schwarz	EMC32	V8.53.0		

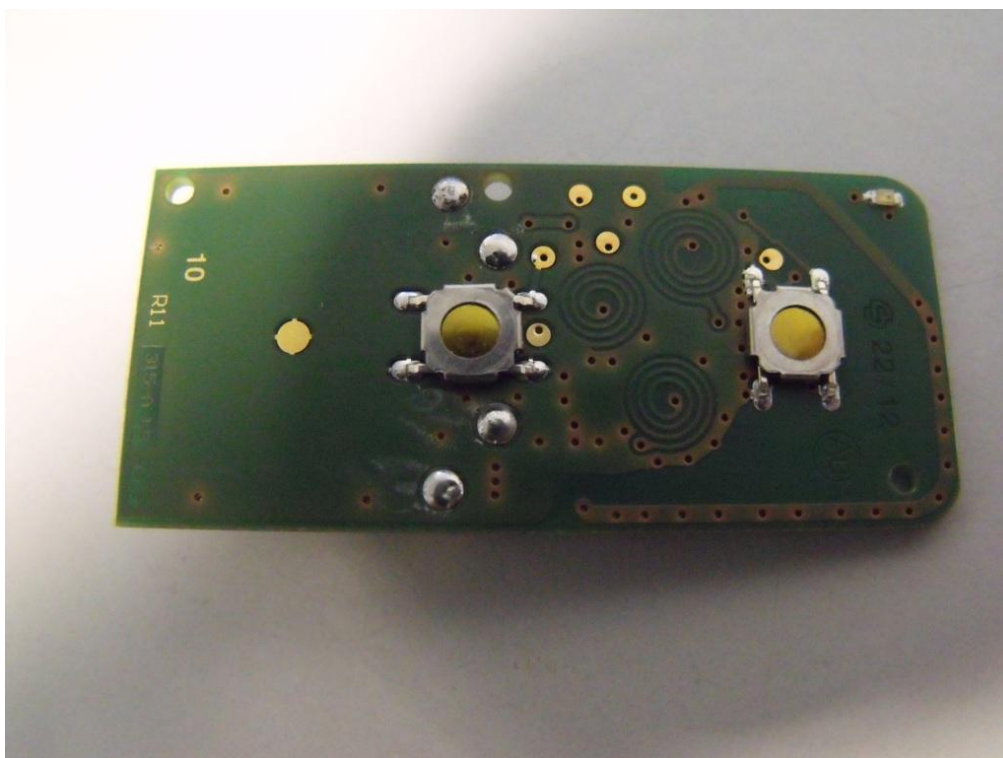
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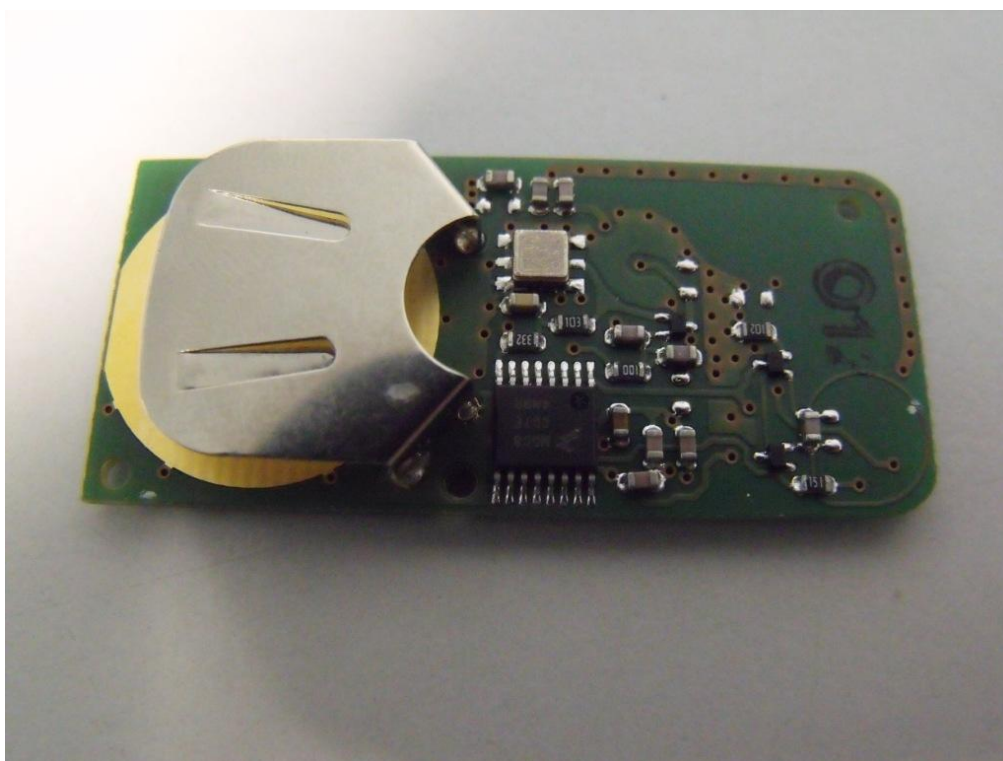
Photographic Documentation

8.1 EUT Identification



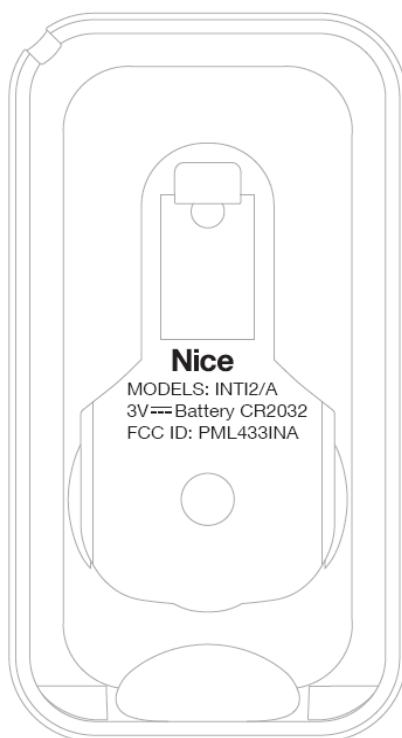












8.2 Test Set-up



