

Test report nr.

20611FCC17

Measurements performed in accordance with:

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

Product: LPD transmitter

Tested model: NEMOVIBE/U

FCC ID PMLNEMOVBU

Applicant: Nice S.p.A.
Via Pezza Alta, 13 I-31046 Rustignè di Oderzo (TV)

Manufacturer: Nice S.p.A.
Via Pezza Alta, 13 I-31046 Rustignè di Oderzo (TV)

Trademark: Nice

Testing Laboratory Nice Laboratory

Registration number: 771316

Date of receipt sample: 9th February 2017

Testing date: 9th February 2016 to 10th February 2017

Issue date: 14 February 2017

Tested by: L. Pastres *L. Pastres*

Checked by: E. Campion *E. Campion*

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

Name: Nice S.p.A.
Address: via Pezza alta, 13 I-31046 Rustignè di Oderzo (TV)
Country: ITALY

1.2 Manufacturer

Name: Nice S.p.A.
Address: via Pezza alta, 13 I-31046 Rustignè di Oderzo (TV)
Country: ITALY

1.3 Equipment classification

According to definition 15.3 (o) is a intentional Radiator operating within the Frequency: 433.92MHz.

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 15.231.

1.4 Basic Description of equipment under test

Parameters	Value
Type of equipment:	LPD transmitter
Model:	NEMOVIBE/U
FCC ID:	PMLNEMOVBU
Trade Name:	Nice
Data cable:	N/A
Telecom cable:	N/A
Power supply type:	Battery, 2 x 1.5V type AA
AC power input cable:	N/A
DC power input cable:	N/A

Model	Description
-	-

1.5 Feature of equipment under test

Parameters	Value
Power specification	LPD transmitter for tubular motor application Nice
Operating frequency:	433.92MHz
Maximum RF output power:	82.05 dB μ V/m (Peak) 76.95 dB μ V/m (Average after correction) = 29.32 μ W
Occupied Bandwidth (99% BW):	12.43 kHz
Emission Designator (ITU):	12K4A1D
Modulation:	OOK (On Off Key)
Channel spacing:	No channel
Antenna:	Integral
Rx Sensitivity:	N/A
Main SW identification:	N/A
Main HW board identification:	N/A
Peripherals included (for system application):	N/A
Interfaces:	N/A
Integrated interfaces	N/A
AC adapter:	N/A

2

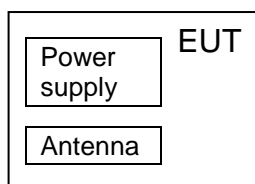
Test configuration of equipment under test**2.1 Environmental conditions**

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	-	-
2	AC mains power input	N/A	-	-
3	DC power port	3Vdc (2 x 1.5Vdc)	-	-
4	Signal / control port	N/A	-	-
5	Antenna port	Integral	-	-
6	Telecommunication	N/A	-	-

3

Operation of equipment under test

3.1 Operating test conditions

#	Description
1	Standby mode
2	Transmission mode

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	-	N/A
15.209 (a) (f)	Radiated emission	#1, #2	PASS
15.35 (c)	Timing of the transmitter	#2	PASS
15.231 (a)	Transmit behaviour after releasing the TX-button	-	PASS
15.231 (b)	Radiated output power	#2	PASS
15.35 (c)	Typical pulse train of a signal	#2	PASS
15.231 (c)	Compliance with the limit of FCC	#2	PASS
15.231 (a)	Spurious emission - radiated	#2	PASS
15.231 (a)	Occupied bandwidth	#2	PASS

4.1 Methods of measurement

All compliance measurements has been carried out using the procedures described in the standard ANSI C63.4-2014 (excluding sub-par. 4.1.5.2, 5.7.9 and 14), C63.10-2013 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
----------------	---------------------------------------

~~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:	Integral
Maximum total gain:	0dB
External power amplifiers:	-

Antenna description:

No.	Manufacturer	Model Type
-	-	-

Comments:

The antenna is integral, therefore this test was not performed

5.2 Conduced emission

Specify:

Base standard:	47CFR Part 15 Section 15.207
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- 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
Uncertainty:	2,3dB

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

Comments:

The equipment is supplied with battery, therefore this test was not performed

5.3 Radiated emission

Specify:

Base standard: 47CFR Part 15 Section 15.209

- 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 6GHz
IF bandwidth (below 30MHz):	9kHz
IF bandwidth (below 1000MHz):	120kHz
IF bandwidth (above 1000MHz):	1MHz
EMC class:	B
Uncertainty:	4.6dB (< 1GHz) 4.7dB (> 1GHz)

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

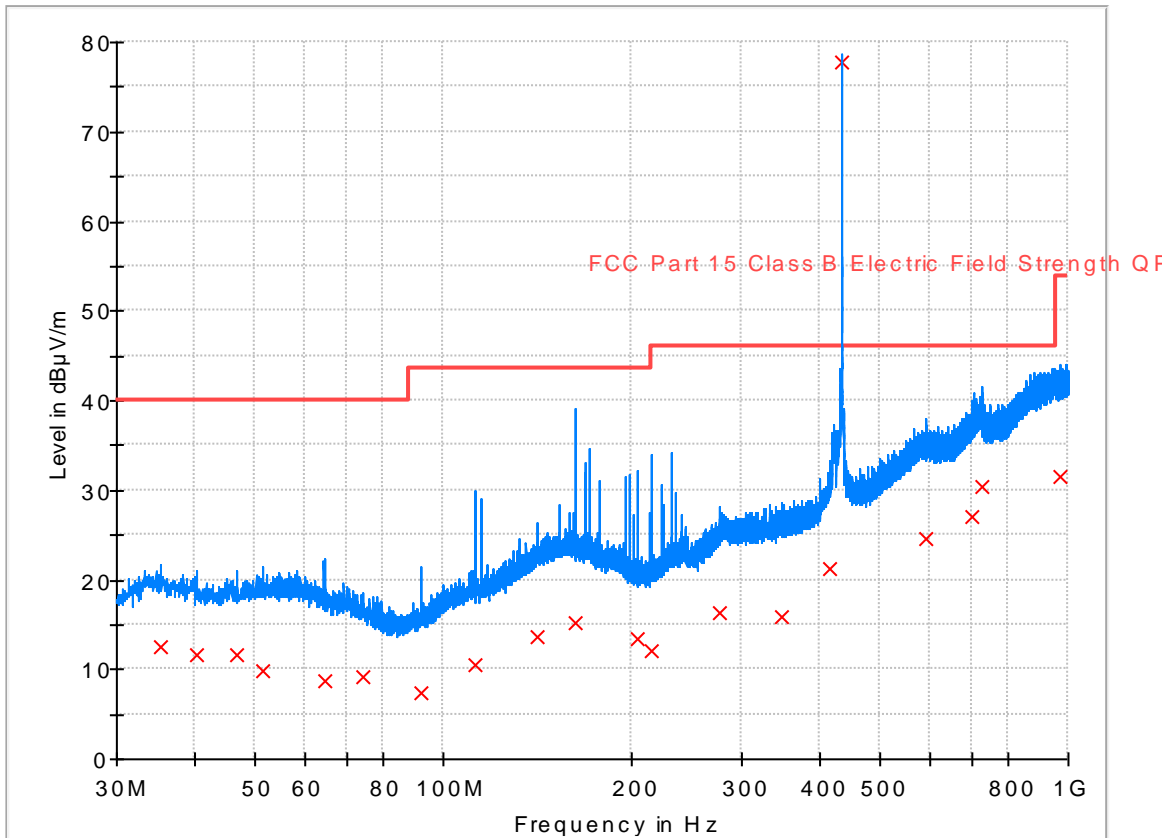
Test Data.:

Port under test	Operating condition	Result
Enclosure	#1, #2	Complies

Comments:

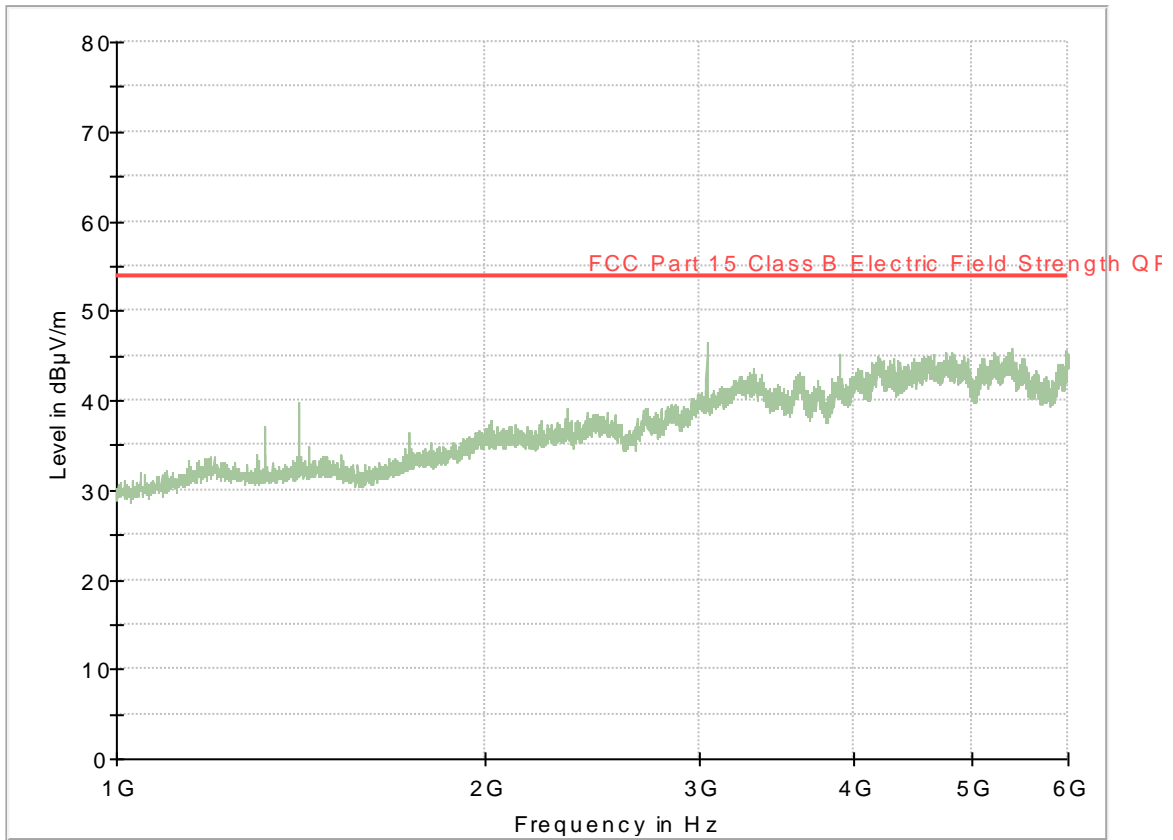
The results represent the worst case of emissions between three polarizations verified (X, Y and Z). The table was rotate of 360° and antenna receiving moved from 1m to 4m to find the maximum emission.
No emissions in standby (conditions #1).

Transmission

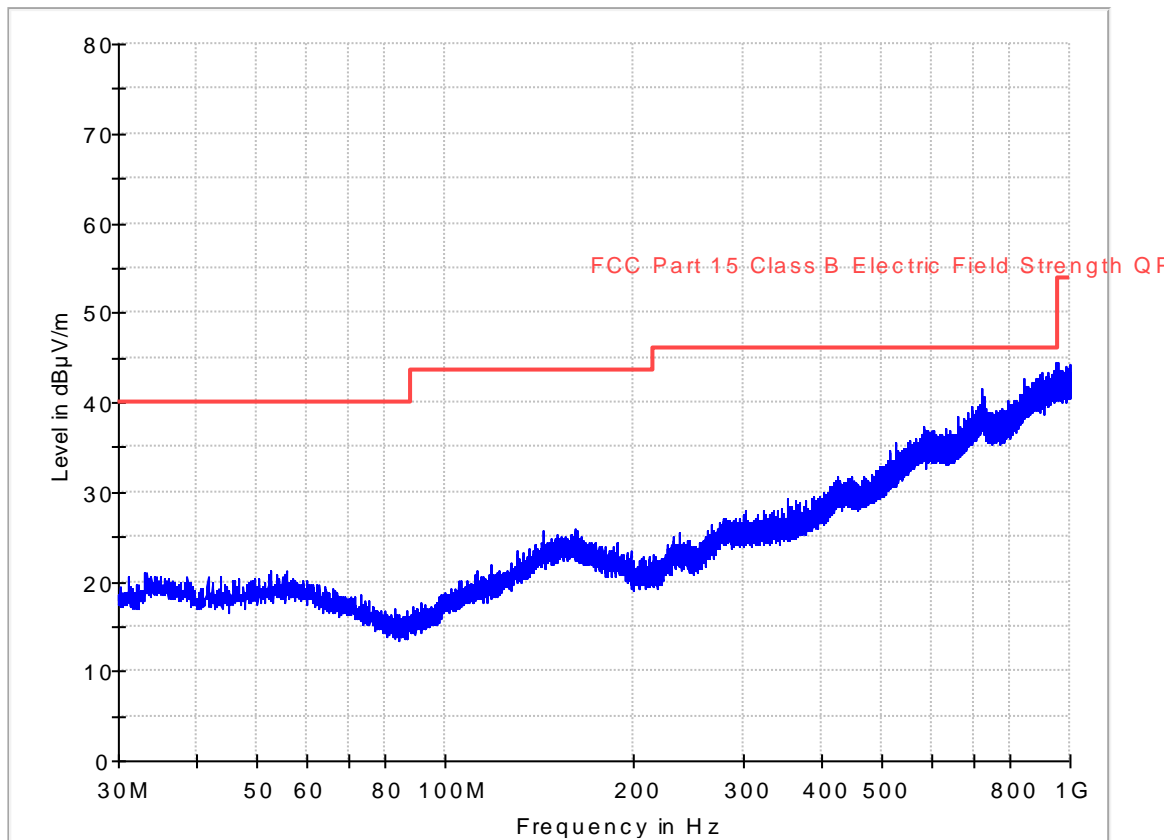


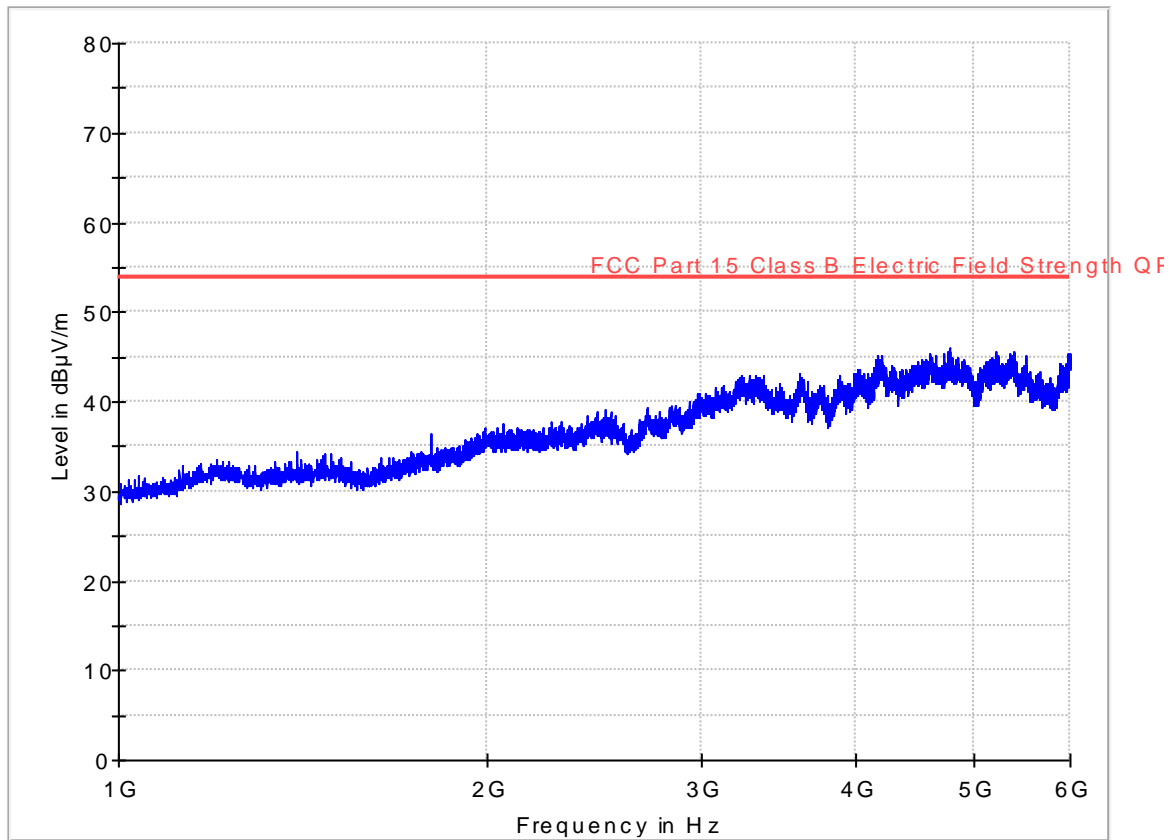
Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
35.320000	12.5	1000.0	120.000	100.0	H	0.0	12.8	
40.360000	11.7	1000.0	120.000	100.0	H	0.0	12.7	
46.600000	11.6	1000.0	120.000	100.0	H	0.0	13.2	
51.320000	9.9	1000.0	120.000	100.0	H	0.0	13.6	
64.560000	8.6	1000.0	120.000	100.0	H	0.0	12.3	
74.240000	9.2	1000.0	120.000	100.0	H	0.0	10.7	
91.960000	7.3	1000.0	120.000	100.0	H	0.0	9.8	
112.520000	10.5	1000.0	120.000	100.0	H	0.0	13.0	
141.480000	13.6	1000.0	120.000	100.0	H	0.0	16.3	
162.400000	15.1	1000.0	120.000	100.0	H	0.0	17.3	
203.960000	13.3	1000.0	120.000	100.0	H	0.0	13.9	
215.920000	12.0	1000.0	120.000	100.0	H	0.0	13.9	
277.760000	16.3	1000.0	120.000	100.0	H	0.0	19.1	
348.320000	15.8	1000.0	120.000	100.0	H	0.0	19.7	
415.600000	21.2	1000.0	120.000	100.0	H	0.0	22.4	
433.920000	77.7	1000.0	120.000	105.0	H	220.0	23.1	
590.960000	24.5	1000.0	120.000	100.0	H	0.0	27.5	
700.640000	27.0	1000.0	120.000	100.0	H	0.0	29.2	
729.320000	30.4	1000.0	120.000	100.0	H	0.0	30.2	
968.200000	31.4	1000.0	120.000	100.0	H	0.0	35.1	



Standby





5.4 Timing of the transmitter

Specify:

Base standard:	CFR47 Part 15 Section 15.35 (c)
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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
Uncertainty:	0.2 μ s

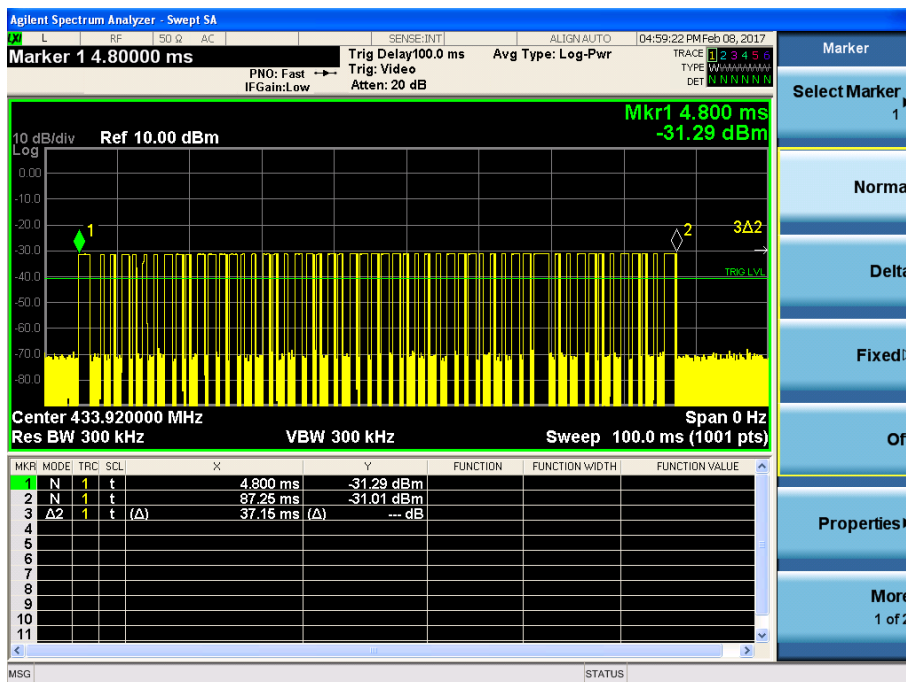
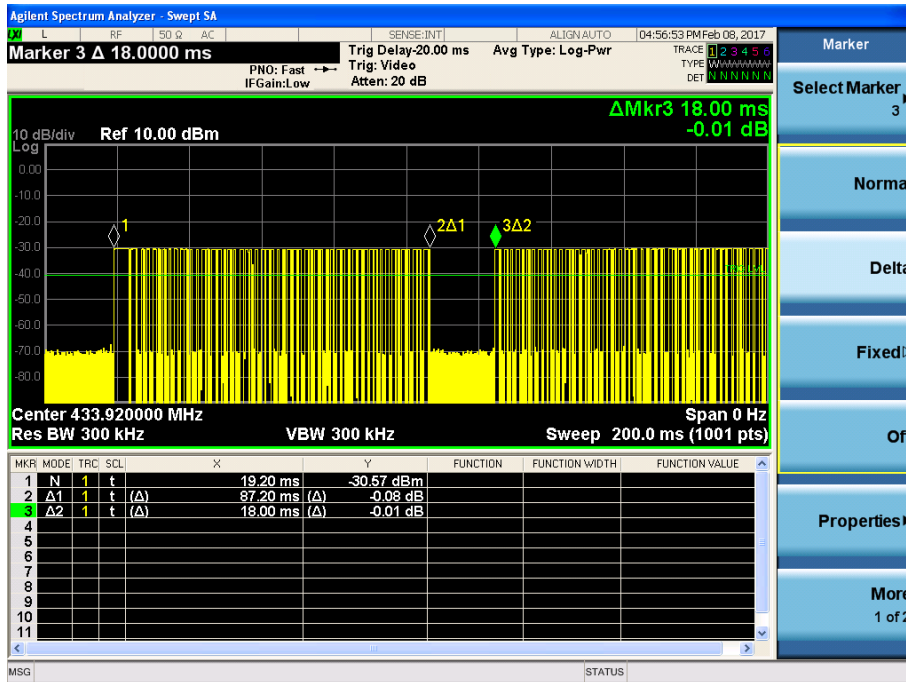
Test Data:

Frequency:	433.92MHz
Frame period:	
Pause:	
Pulse train length:	
ON Time:	87.2ms
OFF Time:	18ms

Comments:

-

FCC test report



5.5 Transmit behaviour after releasing the TX-button

Specify:

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

Test requirements:

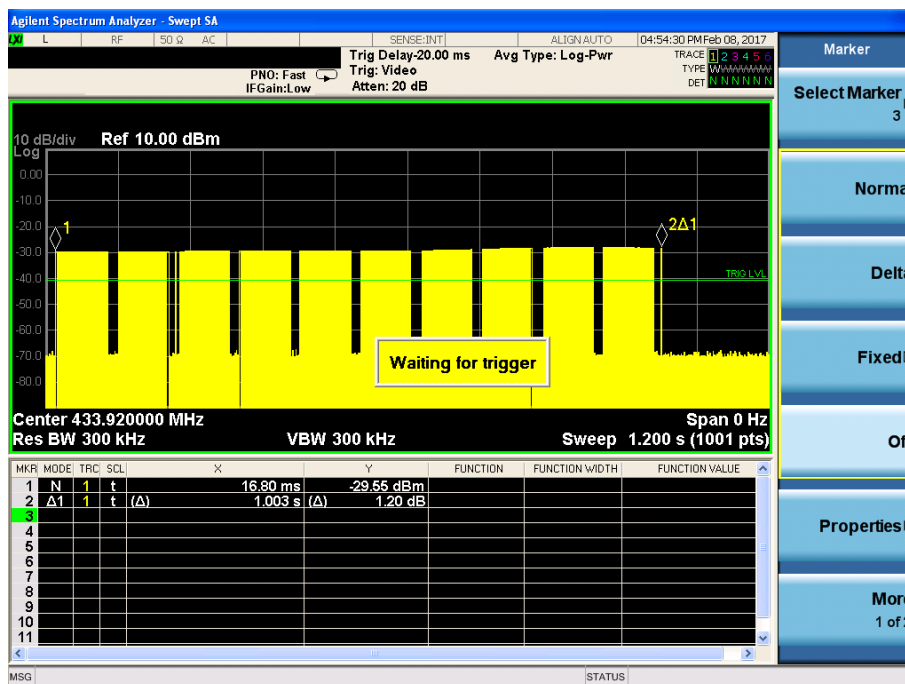
Test Setup:	47CFR Part 15 Section 15.35 (c)
RBW:	1MHz
VBW:	3MHz
Uncertainty:	0.2 μ s

Test data:

T1:	-
T2:	-
T2-T1:	1.003s < 5s

Comments:

After activation of transmission the equipment send 10 pulses train and then goes in standby mode



5.6 Radiated output power

Specify:

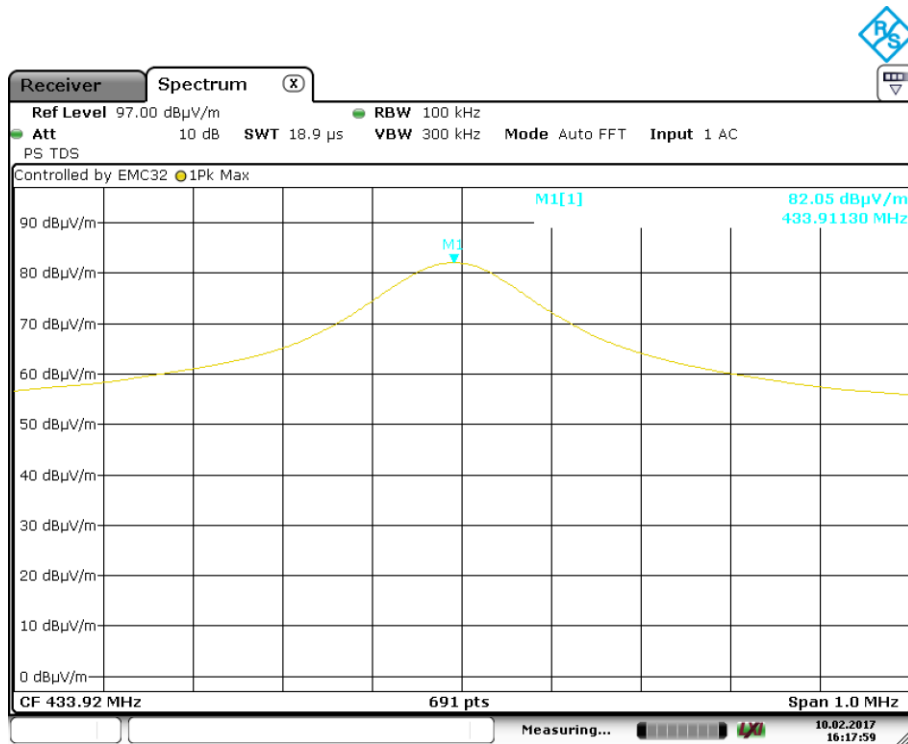
Base standard: FCC 15.231 (b)

Test Requirements:

RBW / VBW:	200Hz (f < 150kHz) 9kHz (150kHz < f < 30MHz) 120kHz (30MHz < f < 1000MHz) 1MHz (f > 1000MHz)
Uncertainty:	3.7dB

Test data:Output radiated power (3m of distance): 82.05 dB μ V/m (Peak)**Comments:**

The results represent the worst case of emissions between three polarizations verified (X, Y and Z). The table was rotate of 360° and antenna receiving moved from 1m to 4m to find the maximum emission.



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5.7 Typical pulse train of a signal

Specify:

Base standard: 47CFR Part 15 Section 15.35 (c)

Test Setup:

RBW:	1MHz
VBW:	3MHz
Uncertainty:	0.2 μ s

Test Data:

Duty-cycle	55%
TX on	55ms
TX off	18ms
Average correction factor (20*log (duty cycle)):	20 x log (55/100) = -5.1dB

Comments:

The impulse train contain a start bit of 1.5ms, a code of 52 pulses and a stop bit of 1.5ms.

Bit 1 = 1ms ON + 0.5ms OFF

Bit 0 = 0.5ms ON + 1ms OFF

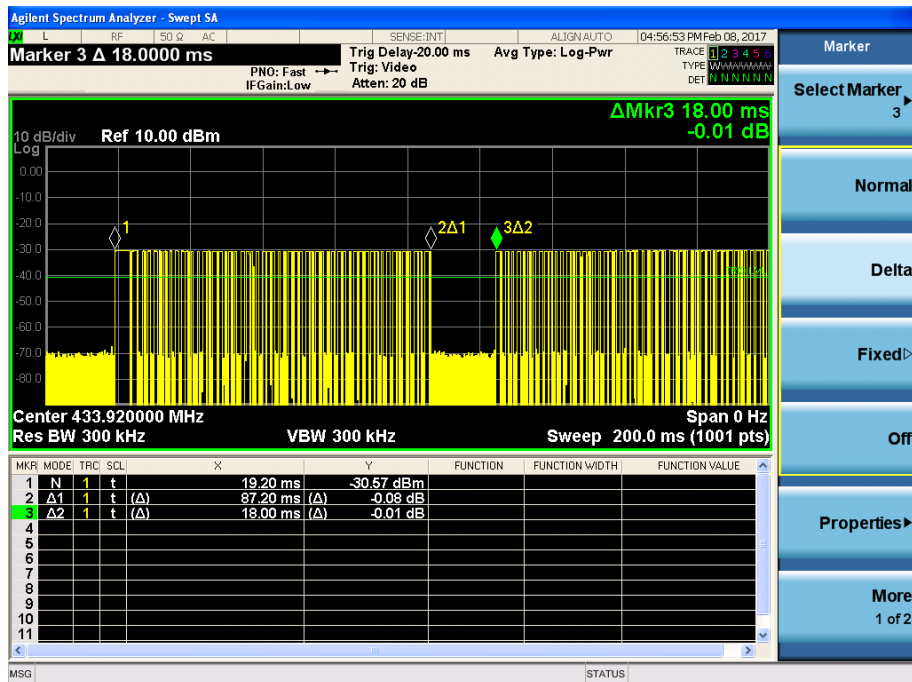
1 pulse = 1ms + 0.5ms = 1.5ms

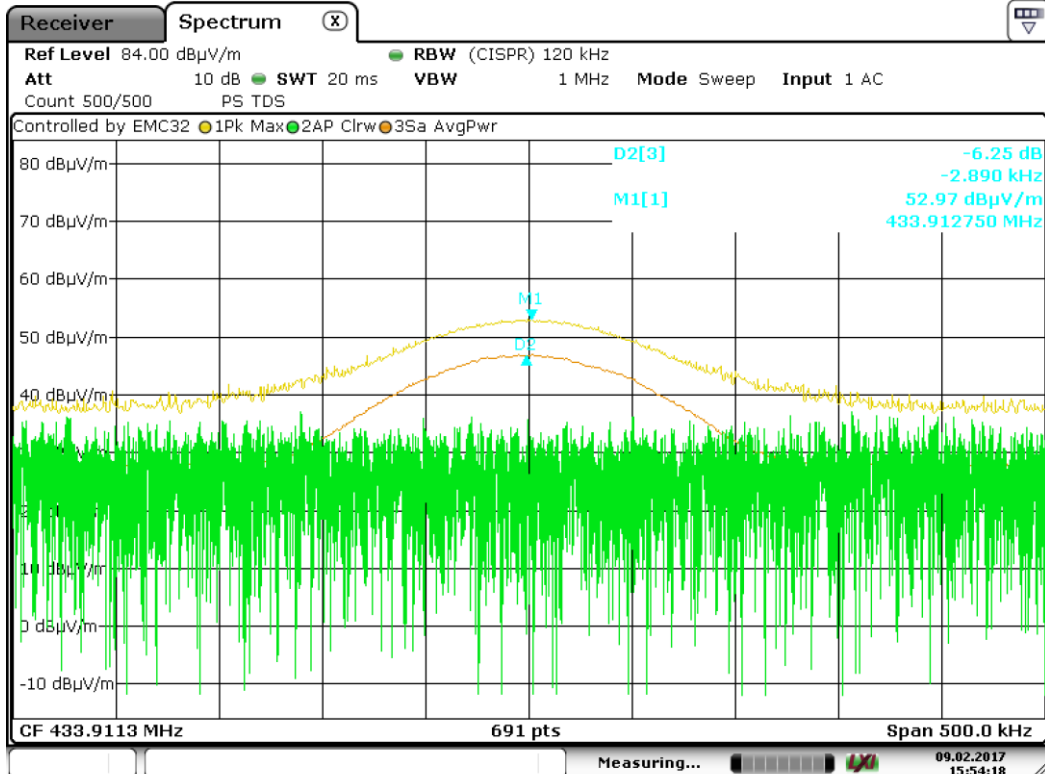
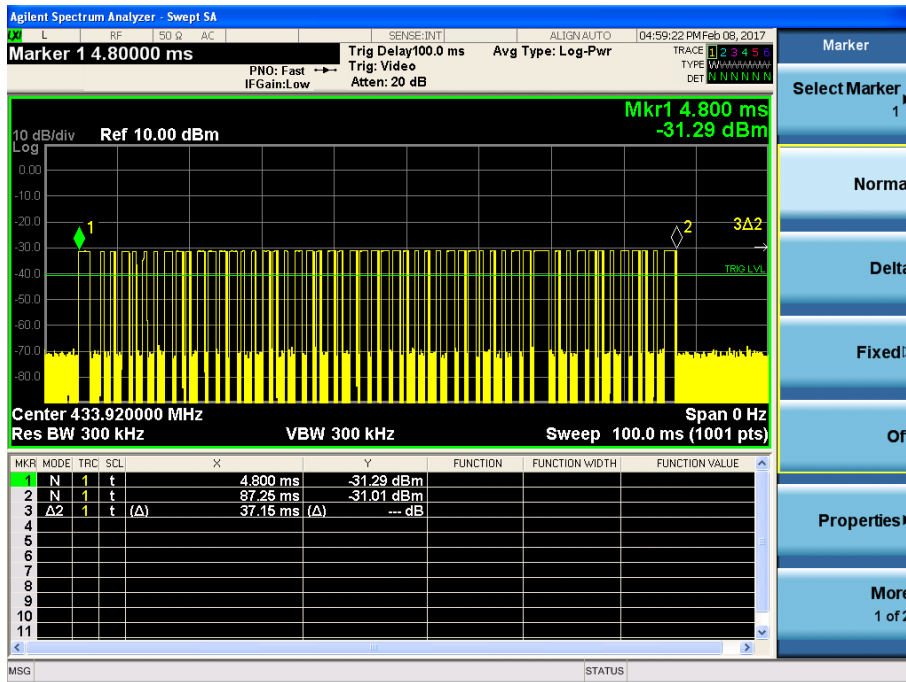
Train length = start bit + 52 pulses + stop bit = 1.5 + 52 x 1 + 1.5 = 55ms

Duty-cycle in 100ms = 55/100 = 0.55

Correction in worst case with all bit at 1 = 20 x log (0.55) = -5.1dB

The correction of -5.1dB is a worst case because the combination with all bit = 1 is not available. It is possible to see the relation between peak and average; the difference is -6.25dB.





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5.8 Compliance with the limit of FCC

Specify:

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

RBW / VBW:	200Hz (f < 150kHz) 9kHz (150kHz < f < 30MHz) 120kHz (30MHz < f < 1000MHz) 1MHz (f > 1000MHz)
Uncertainty:	3.7dB

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:	433.92MHz
Calculated average (3m of distance):	(82.05 – 5.1) = 76.95 dB μ V/m

Comments:

The results represent the worst case of emissions between three polarizations verified (X, Y and Z). The table was rotate of 360° and antenna receiving moved from 1m to 4m to find the maximum emission.

5.9 Spurious emission - radiated

Specify:

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

Test Setup:

Uncertainty : 3.9dB

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
433.9113	82.05	76.95	80.83dB μ V/m	3.88	operating frequency
867.8230	28.40	23.3	-20dBc	37.53	Complies
1301.746	45.14	40.04	54.0dB μ V/m	13.96	Complies
1735.368	38.51	33.41	-20dBc	27.42	Complies
2169.350	44.83	39.73	-20dBc	21.10	Complies
2603.580	40.86	35.76	-20dBc	30.66	Complies
3037.299	60.93	55.83	-20dBc	5.00	Complies
3472.031	44.52	39.42	-20dBc	20.88	Complies
3904.923	45.57	40.47	54.0dB μ V/m	13.53	Complies
4341.475	44.83	39.73	54.0dB μ V/m	14.27	Complies

Comments:

The results represent the worst case of emissions between three polarizations verified (X, Y and Z). The table was rotate of 360° and antenna receiving moved from 1m to 4m to find the maximum emission.

5.10 Occupied bandwidth

Specify:

Base standard: 47CFR Part 15.231 (c)

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: 1kHz

VBW: 3kHz

Uncertainty: 20Hz

Limits:

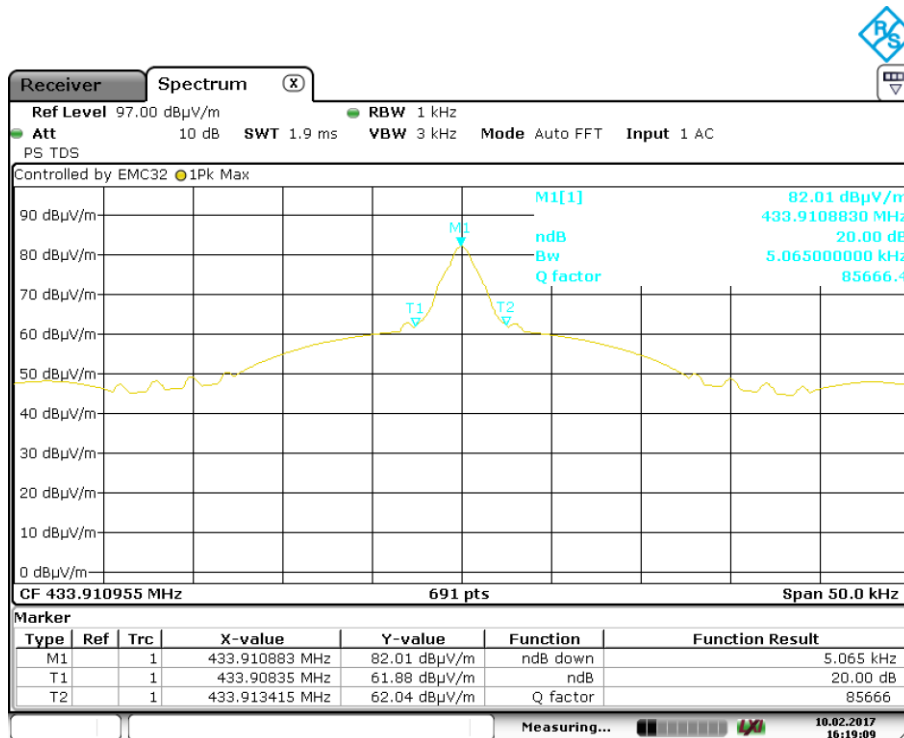
< 0,25% of the centre frequency, here 4.57MHz

Test Data:

Occupied bandwidth at -20dB: 5.06kHz < 1.08MHz

Comments:

-



Date: 10.FEB.2017 16:19:09

6

Measurement and Test Equipment instrumentation

Code	nr.	Manufacturer	Model	Serial number	Date of Calibration	Calibration Due
ANA	7	Agilent	N9020A	MY48011101	16/04/2016	16/04/2018
ANT	3	Schwarzbeck	VULB9160	3180	24/07/2015	23/07/2017
ANT	4	AH System	SAS-571	684	23/07/2015	22/07/2017
ANT	6	AH System	SAS-571	1025	23/07/2015	22/07/2017
ANT	7	Aaronia	BicoLOG 30100	1293	23/07/2015	22/07/2017
CAV	1	Rohde & Schwarz	HFU2-Z5	-	18/09/2013	17/09/2017
CAV	2	Rohde & Schwarz	HFU2-Z4	-	18/09/2013	17/09/2017
CAV	3	TESEO	CAVO A	-	18/09/2013	17/09/2017
CAV	5	TESEO	CAVO C	-	18/09/2013	17/09/2017
CAV	6	TESEO	CAVO D	-	18/09/2013	17/09/2017
CAV	7	TESEO	CAVO E	-	18/09/2013	17/09/2017

Code	nr.	Manufacturer	Model	Serial number	Date of Calibration	Calibration Due
CAV	13	TESEO	CAVO G	-	18/09/2013	17/09/2017
CAV	14	TESEO	CAVO H	-	18/09/2013	17/09/2017
CAV	15	TESEO	CAVO I	-	18/09/2013	17/09/2017
CAV	16	Rohde & Schwarz	9111505/200 (CAVO J)	5995-12-161- 6890	18/09/2013	17/09/2017
CAV	17	Nice	CAVO K	-	18/09/2013	17/09/2017
CAV	18	Nice	CAVO L	-	18/09/2013	17/09/2017
CAV	19	Nice	Cavo M	-	18/09/2013	17/09/2017
CAV	20	Nice	Cavo N	-	18/09/2013	17/09/2017
CAV	21	Nice	Cavo P	-	18/09/2013	17/09/2017
CAV	22	Nice	Cavo R	-	18/09/2013	17/09/2017
CSA	1	TESEO	EN 55022 EN 61004-3	NSA	11/07/2016	11/07/2017

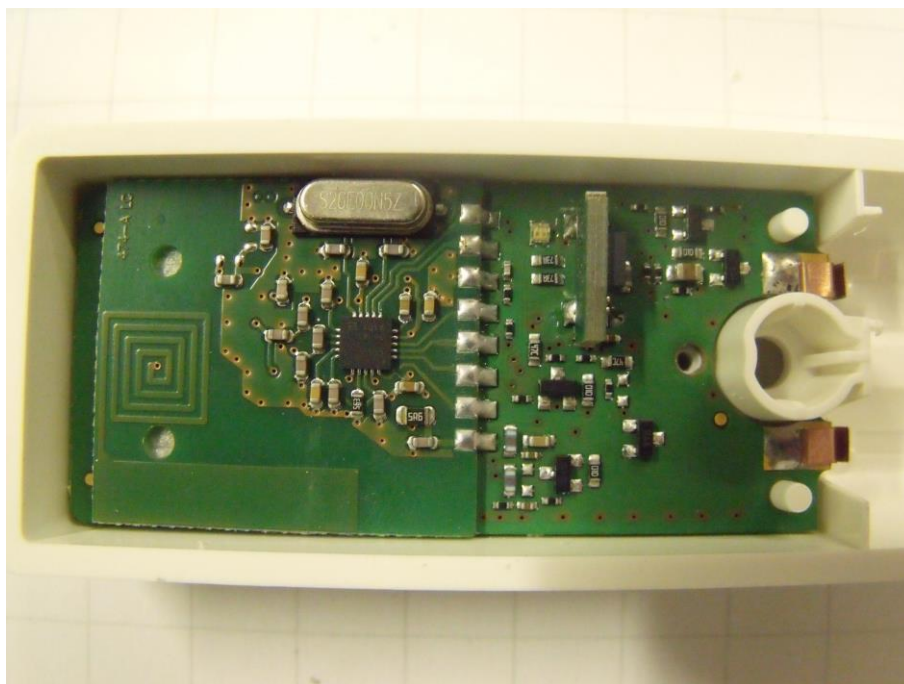
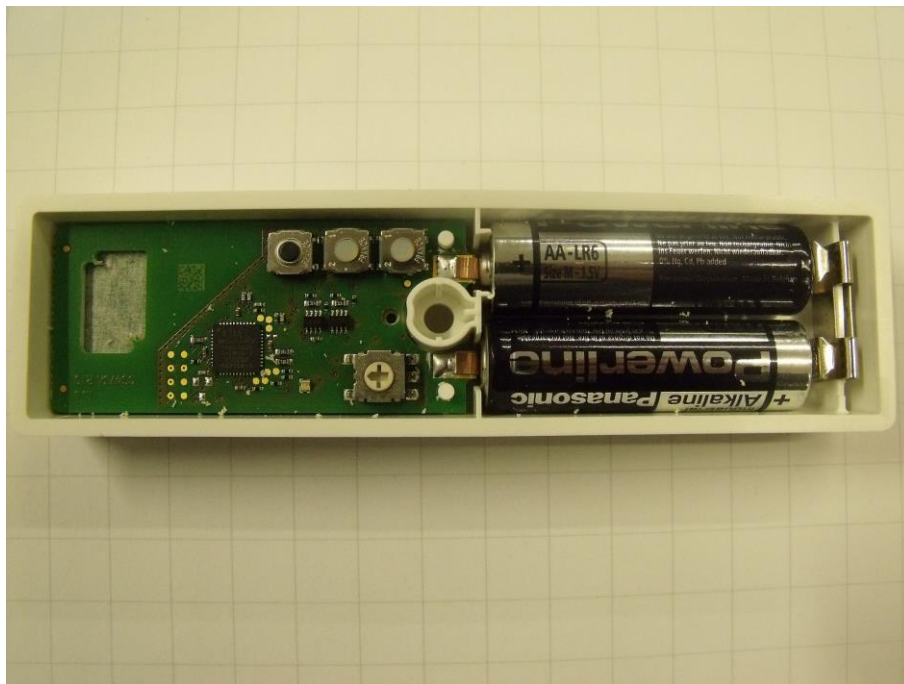
Code	nr.	Manufacturer	Model	Serial number	Date of Calibration	Calibration Due
CSA	1	TESEO	EN 55022 EN 610004-3	CISPR 16-1-4	11/08/2016	11/08/2017
CSA	1	TESEO	EN 55022 EN 610004-3	EN 61000-4-3	13/05/2016	13/05/2017
PRE	2	Schwarzbeck	BBV 9718	9718-178	04/08/2016	04/08/2018
RIC	1	Rohde & Schwarz	ESCI	100140		
RIC	2	Rohde & Schwarz	ESR 7	101498	15/11/2016	15/11/2017
SOF	1	Rohde & Schwarz	EMC32	V10.0		

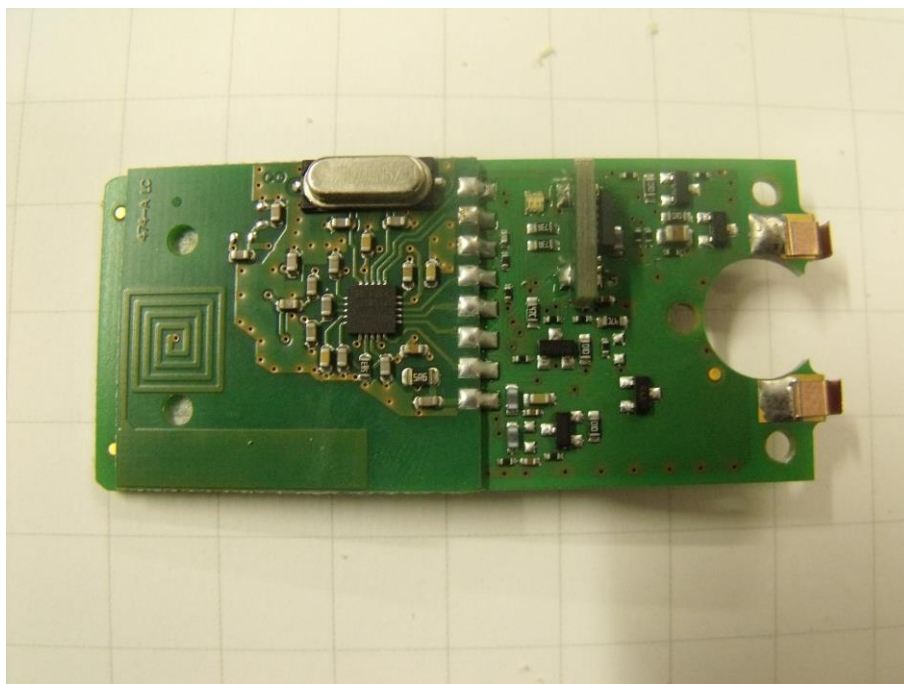
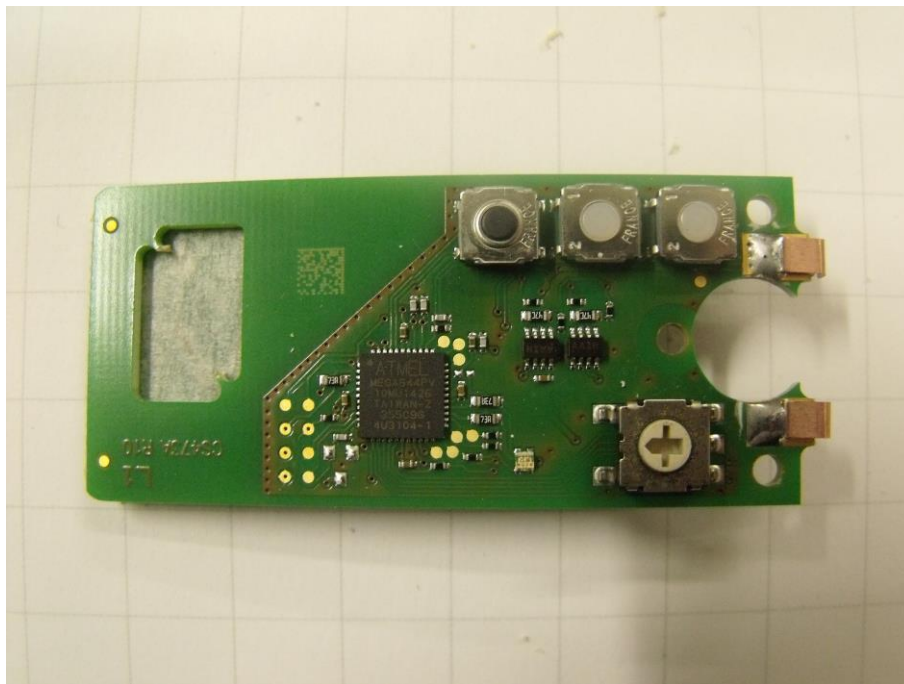
7

Photographic Documentation

8.1 EUT Identification









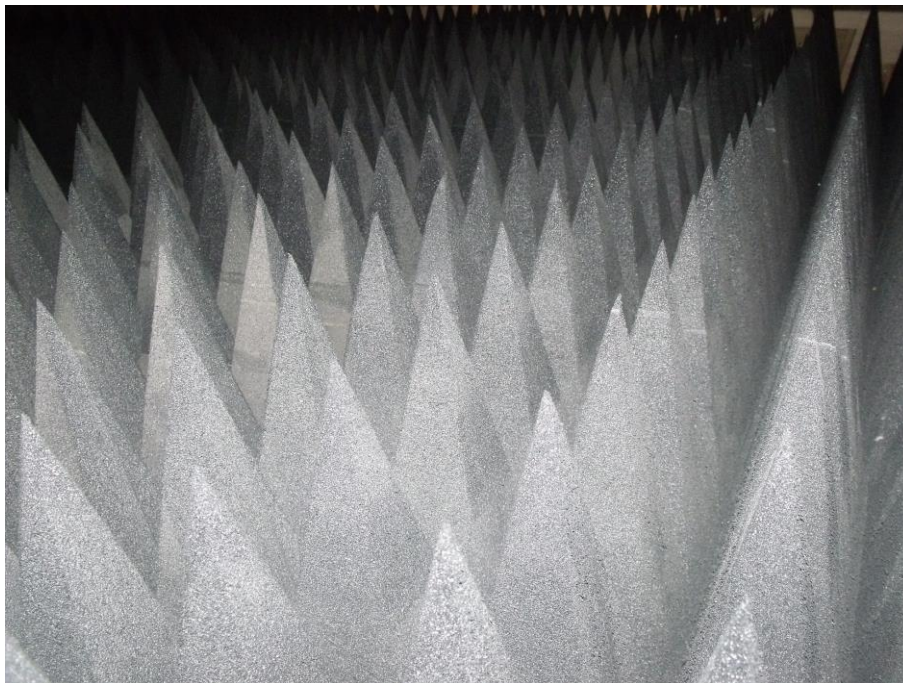
8.2 Test Set-up

Radiated emissions:









Absorbers on the floor for frequency > 1GHz according to C63.10 (2013)

Annex 1

FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046

July 22, 2016

Registration Number: 771316

NICE S.p.A.
Via Pezza Alta, 13,
Oderzo, 31046
Italy

Attention: Enrico Campion, Mr.

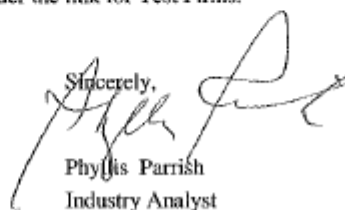
Re: Measurement facility located at Via Pezza Alta, 13 - I-31046 Oderzo
Anechoic chamber (3 meter)
Date of Renewal: July 22, 2016

Dear Sir or Madam:

Your request for renewal of the registration of the subject measurement facility has been received. The information submitted has been placed in your file and the registration has been renewed. The name of your organization will remain on the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that pursuant to FCC Report and Order 14-208 this registration program will end July 12, 2017 and all testing for products subject to equipment authorization type Certification will be required to be tested at a testing facility that is accredited and recognized by the FCC as accredited.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website www.fcc.gov/eas under the link for Test Firms.

Sincerely,



Phyllis Parrish
Industry Analyst