

FCC RF Test Report

Applicant: Automotive Data Solutions Inc.
Address of Applicant: 8400 Bougainville Montreal Quebec Canada H4P 2G1

Equipment Under Test (EUT)

Product Name: CAR ALARM
Model No.: TR1150AT

FCC ID: 2AEPJ-TR1150AT

Applicable Standards: FCC CFR Title 47 Part 15C (§15.231(a))

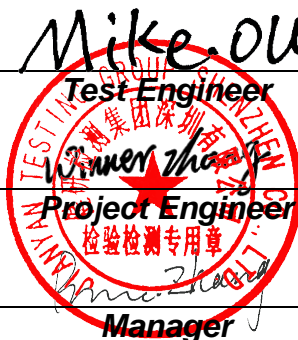
Date of Sample Receipt: 09 Mar., 2022

Date of Test: 10 Mar., to 28 Mar., 2022

Date of Report Issue: 29 Mar., 2022

Test Result: PASS

Tested by:	<u>Mike Ou</u> Test Engineer	Date:	<u>29 Mar., 2022</u>
Reviewed by:	<u>Wenwen Zhang</u> Project Engineer	Date:	<u>29 Mar., 2022</u>
Approved by:	<u>Wenwen Zhang</u> Manager	Date:	<u>29 Mar., 2022</u>



This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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2 Version

Version No.	Date	Description
00	29 Mar., 2022	Original

3 Contents

Page

1	COVER PAGE.....	1
2	VERSION	2
3	CONTENTS	3
4	GENERAL INFORMATION.....	4
4.1	CLIENT INFORMATION.....	4
4.2	GENERAL DESCRIPTION OF E.U.T.....	4
4.3	TEST MODE AND ENVIRONMENT	5
4.4	DESCRIPTION OF SUPPORT UNITS.....	5
4.5	MEASUREMENT UNCERTAINTY.....	5
4.6	ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD	5
4.7	LABORATORY FACILITY.....	5
4.8	LABORATORY LOCATION	6
4.9	TEST INSTRUMENTS LIST	6
5	MEASUREMENT SETUP AND PROCEDURE	7
5.1	TEST SETUP	7
5.2	TEST PROCEDURE.....	8
6	TEST RESULTS.....	9
6.1	SUMMARY	9
6.1.1	Clause and Data Summary.....	9
6.1.2	Test Limit.....	10
6.2	ANTENNA REQUIREMENT	11
6.3	20DB BANDWIDTH.....	12
6.4	FIELD STRENGTH OF FUNDAMENTAL	13
6.5	FIELD STRENGTH OF SPURIOUS EMISSIONS	14
6.6	DURATION TIME.....	18

4 General Information

4.1 Client Information

Applicant:	Automotive Data Solutions Inc.
Address:	8400 Bougainville Montreal Quebec Canada H4P 2G1
Manufacturer/Factory:	DONGGUAN PORTMAN ELECTRONIC SCIENCE AND TECHNOLOGY CO., LTD.
Address:	NO.10, LUYI 2 ROAD, TANGXIA TOWN, DONGGUAN CITY GUANGDONG PROVINCE

4.2 General Description of E.U.T.

Product Name:	CAR ALARM
Model No.:	TR1150AT
Operation Frequency:	433.92 MHz
Channel Numbers:	1
Modulation Type:	FSK
Antenna Type:	Helix antenna
Antenna Gain:	0.71 dBi
Power Supply:	DC 6V (3V Lithium Battery(CR2016) *2)
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

4.3 Test Mode and Environment

Test Mode:			
Transmitting mode:	Keep the EUT in transmitting mode with modulation		
The EUT was placed on three different polar directions tested: i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:			
Axis	X	Y	Z
Field Strength(dBuV/m)	97.58	98.93	96.25
According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup”: Y axis (see the test setup photo).			
Operating Environment:			
Temperature:	15°C ~ 35°C		
Humidity:	20 % ~ 75 % RH		
Atmospheric Pressure:	1010 mbar		

4.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
N/A	N/A	N/A	N/A	N/A

4.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.11 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.62 dB
Radiated Emission (9kHz ~ 30MHz) (3m SAC)	±3.13 dB
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB

Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

4.6 Additions to, Deviations, or Exclusions From the Method

No

4.7 Laboratory Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● FCC - Designation No.: CN1211 JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551. ● ISED – CAB identifier.: CN0021 The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. ● CNAS - Registration No.: CNAS L15527 JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527. ● A2LA - Registration No.: 4346.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf
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4.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.
 Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.
 Tel: +86-755-23118282, Fax: +86-755-23116366
 Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

4.9 Test Instruments List

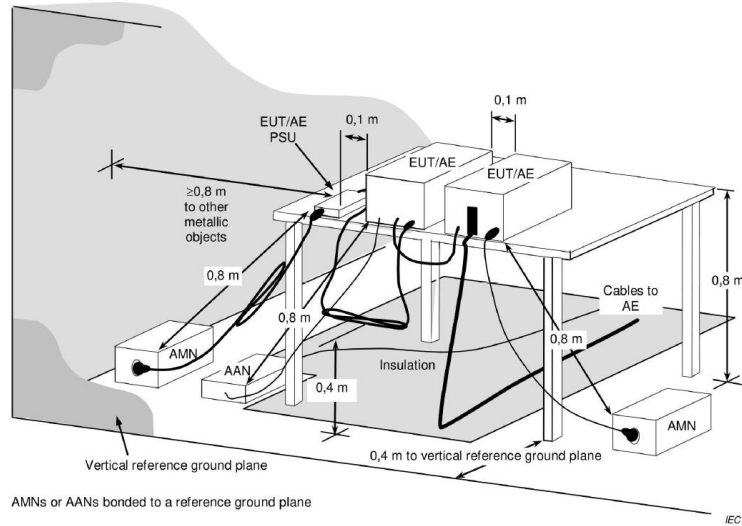
Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	02-17-2022	02-16-2023
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	06-20-2021	06-19-2022
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	02-17-2022	02-16-2023
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	02-17-2022	02-16-2023
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXG001-7	02-17-2022	02-16-2023
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	02-17-2022	02-16-2023
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	02-17-2022	02-16-2023
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	02-17-2022	02-16-2023
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	11-27-2021	11-26-2022
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	02-17-2022	02-16-2023
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	02-17-2022	02-16-2023
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	02-17-2022	02-16-2023
Coaxial Cable (9kHz ~ 30MHz)	JYT	JYT3M-1G-BB-5M	WXG001-6	02-17-2022	02-16-2023
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI 3	WXJ003	02-17-2022	02-16-2023

5 Measurement Setup and Procedure

5.1 Test Setup

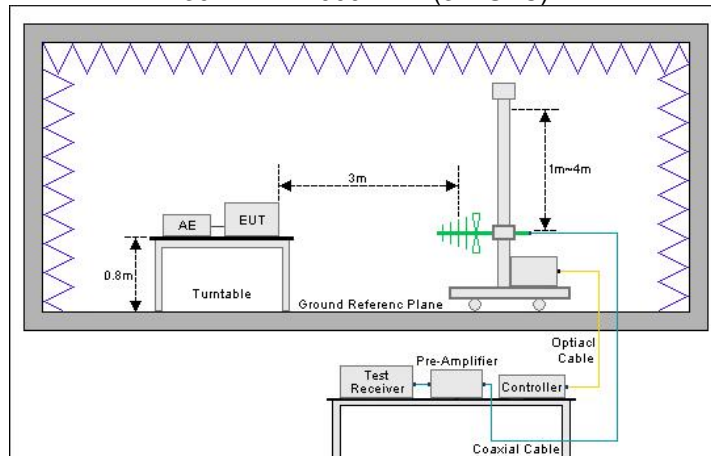
Conducted emission measurement:



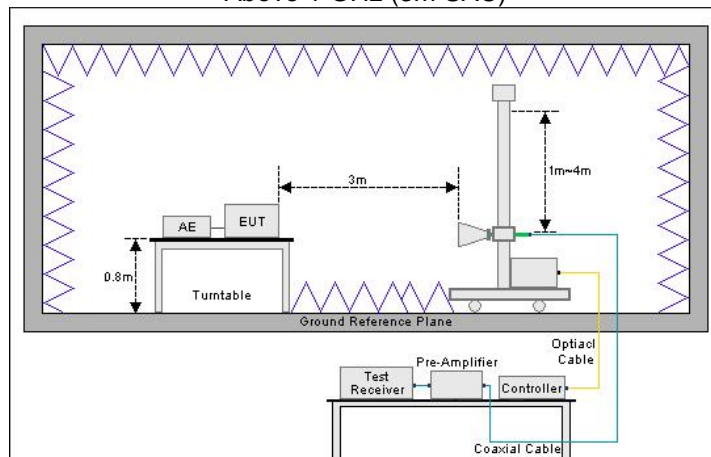
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

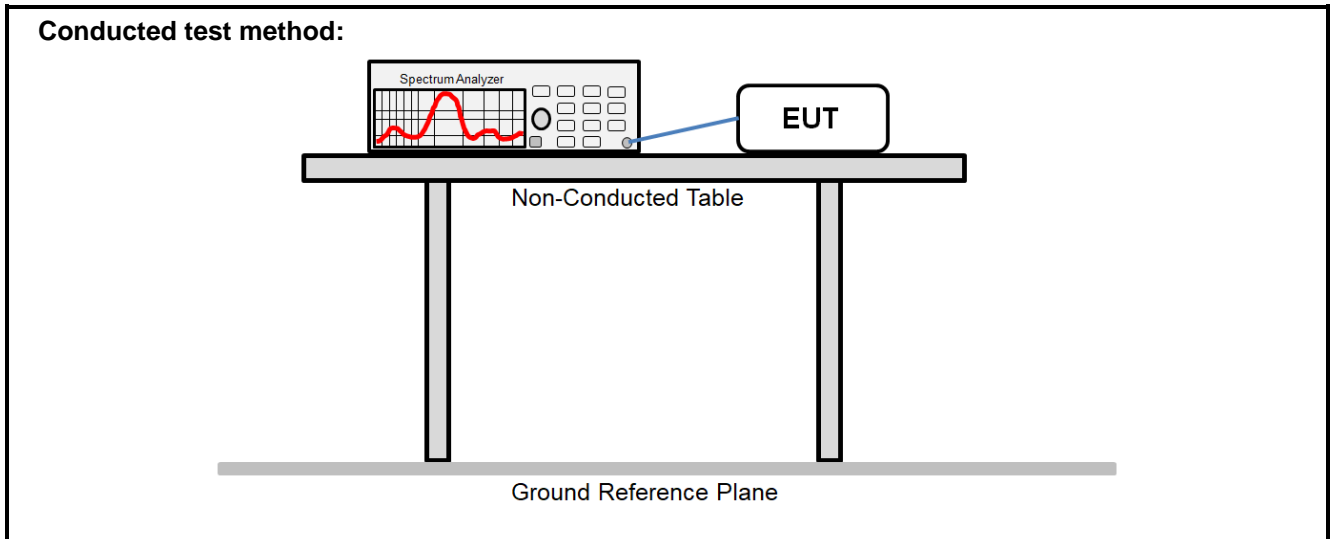
Radiated emission measurement:

30 MHz – 1000 MHz (3m SAC)



Above 1 GHz (3m SAC)





5.2 Test Procedure

Test method	Test step
Conducted emission	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
Radiated emission	<ol style="list-style-type: none"> 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method	<ol style="list-style-type: none"> 1. The antenna port of EUT was connected to the RF port of the spectrum analyzer through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. The test data is saved by the screenshot function of the spectrum analyzer.

6 Test Results

6.1 Summary

6.1.1 Clause and Data Summary

Test items	Standard clause	Test data	Result
Antenna Requirement	15.203	See Section 6.2	Pass
AC Power Line Conducted Emission	15.207	N/A	N/A
20dB Bandwidth	15.231 (c)	See Section 6.3	Pass
Field Strength of Fundamental	15.231 (b)	See Section 6.4	Pass
Field Strength of Spurious Emissions	15.209 15.231 (b)	See Section 6.5	Pass
Duration Time	15.231 (a)(1)	See Section 6.6	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable.			
Test Method:	ANSI C63.4-2014 ANSI C63.10-2013		

6.1.2 Test Limit

Test items	Limit																																												
AC Power Line Conducted Emission	<table border="1"> <thead> <tr> <th rowspan="2">Frequency (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>Quasi-Peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 – 0.5</td> <td>66 to 56 ^{Note 1}</td> <td>56 to 46 ^{Note 1}</td> </tr> <tr> <td>0.5 – 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 – 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency. Note 2: The more stringent limit applies at transition frequencies.</p>	Frequency (MHz)	Limit (dB μ V)		Quasi-Peak	Average	0.15 – 0.5	66 to 56 ^{Note 1}	56 to 46 ^{Note 1}	0.5 – 5	56	46	5 – 30	60	50																														
Frequency (MHz)	Limit (dB μ V)																																												
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0.5 – 5	56	46																																											
5 – 30	60	50																																											
20dB Bandwidth	<p>The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.</p>																																												
Field Strength of Fundamental Field Strength of Spurious Emissions	<table border="1"> <thead> <tr> <th>Fundamental Frequency (MHz)</th> <th>Field strength of fundamental (microvolts/meter)</th> <th>Field strength of spurious emissions (microvolts/meter)</th> </tr> </thead> <tbody> <tr> <td>40.66 – 40.70</td> <td>2250</td> <td>225</td> </tr> <tr> <td>70.00 – 130.00</td> <td>1250</td> <td>125</td> </tr> <tr> <td>130.00 – 174.00</td> <td>¹1250 to 3750</td> <td>¹125 to 375</td> </tr> <tr> <td>174.00 – 260.00</td> <td>3750</td> <td>375</td> </tr> <tr> <td>260.00 – 470.00</td> <td>¹3750 to 12500</td> <td>¹375 to 1250</td> </tr> <tr> <td>Above 470.00</td> <td>12500</td> <td>1250</td> </tr> </tbody> </table> <p>¹Linear interpolations.</p> <p>(1) The above field strength limits are specified at a distance of 3 meters. The tighter limits apply at the band edges.</p> <p>(2) Intentional radiators operating under the provisions of this section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions. As an alternative, compliance with the limits in the above table may be based on the use of measurement instrumentation with a CISPR quasi-peak detector. The specific method of measurement employed shall be specified in the application for equipment authorization. If average emission measurements are employed, the provisions in § 15.35 for averaging pulsed emissions and for limiting peak emissions apply. Further, compliance with the provisions of § 15.205 shall be demonstrated using the measurement instrumentation specified in that section.</p> <p>(3) The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in § 15.209, whichever limit permits a higher field strength:</p> <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>Limit (dBμV/m) @ 3m</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>40.0</td> <td>Quasi-peak</td> </tr> <tr> <td>88 – 216</td> <td>43.5</td> <td>Quasi-peak</td> </tr> <tr> <td>216 – 960</td> <td>46.0</td> <td>Quasi-peak</td> </tr> <tr> <td>960 – 1000</td> <td>54.0</td> <td>Quasi-peak</td> </tr> </tbody> </table> <p>Note: The more stringent limit applies at transition frequencies.</p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency</th> <th colspan="2">Limit (dBμV/m) @ 3m</th> </tr> <tr> <th>Average</th> <th>Peake</th> </tr> </thead> <tbody> <tr> <td>Above 1 GHz</td> <td>54.0</td> <td>74.0</td> </tr> </tbody> </table> <p>Note: The measurement bandwidth shall be 1 MHz or greater.</p>	Fundamental Frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)	40.66 – 40.70	2250	225	70.00 – 130.00	1250	125	130.00 – 174.00	¹ 1250 to 3750	¹ 125 to 375	174.00 – 260.00	3750	375	260.00 – 470.00	¹ 3750 to 12500	¹ 375 to 1250	Above 470.00	12500	1250	Frequency (MHz)	Limit (dB μ V/m) @ 3m	Detector	30 – 88	40.0	Quasi-peak	88 – 216	43.5	Quasi-peak	216 – 960	46.0	Quasi-peak	960 – 1000	54.0	Quasi-peak	Frequency	Limit (dB μ V/m) @ 3m		Average	Peake	Above 1 GHz	54.0	74.0
Fundamental Frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)																																											
40.66 – 40.70	2250	225																																											
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Frequency	Limit (dB μ V/m) @ 3m																																												
	Average	Peake																																											
Above 1 GHz	54.0	74.0																																											
Duration Time	<p>A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.</p>																																												

6.2 Antenna Requirement

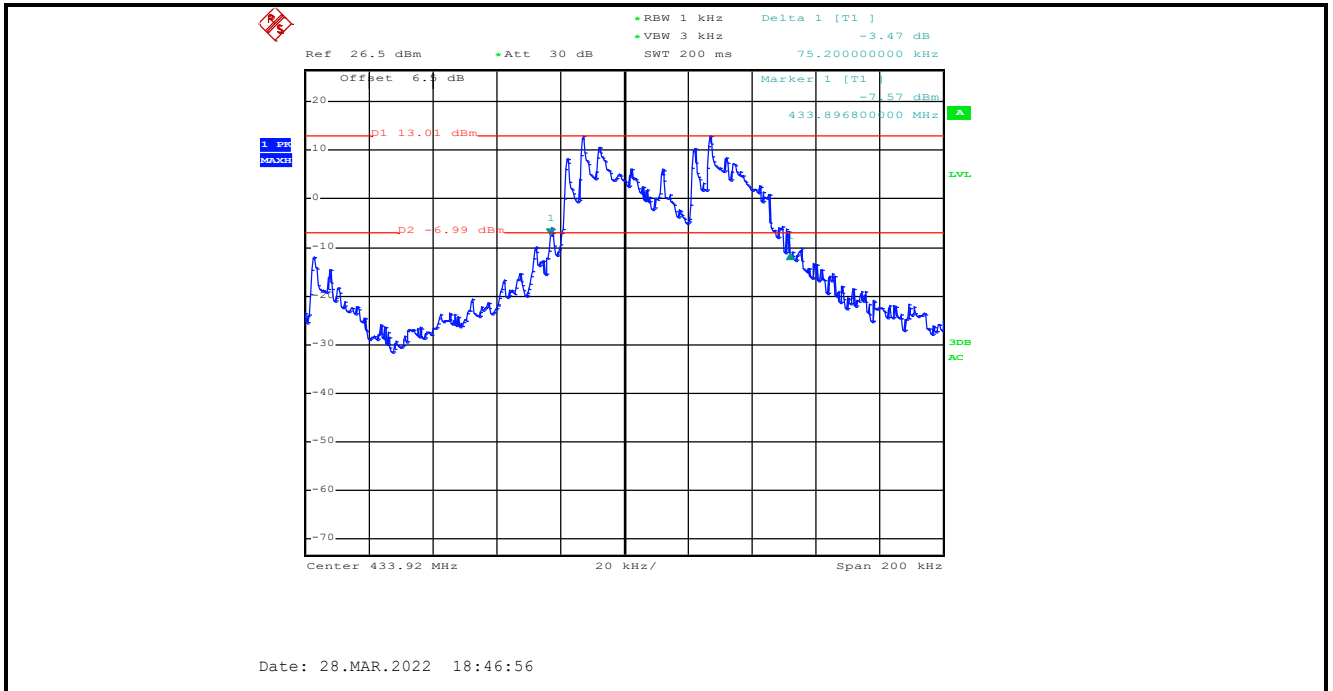
Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, 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.
E.U.T Antenna:	The EUT make use of an Helix antenna.

6.3 20dB Bandwidth

20dB bandwidth (MHz)	Limit (MHz)	Results
0.0752	1.0848	Passed

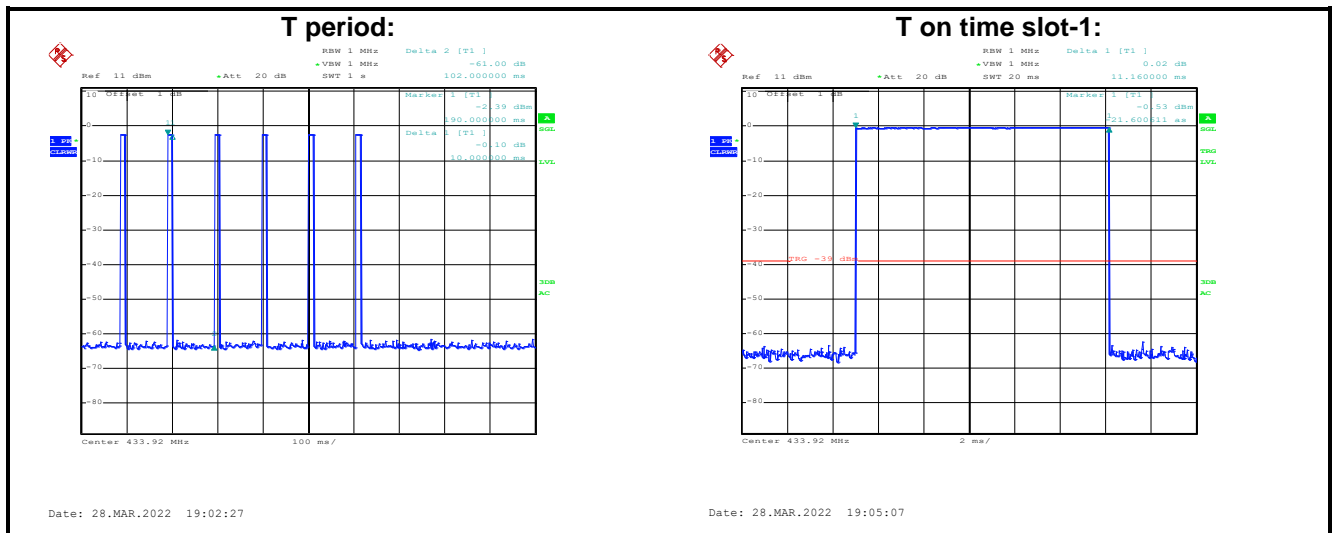
Note: Limit = Fundamental frequency \times 0.25%=433.92 \times 0.25%=1.0848MHz.

Test plot as follows:



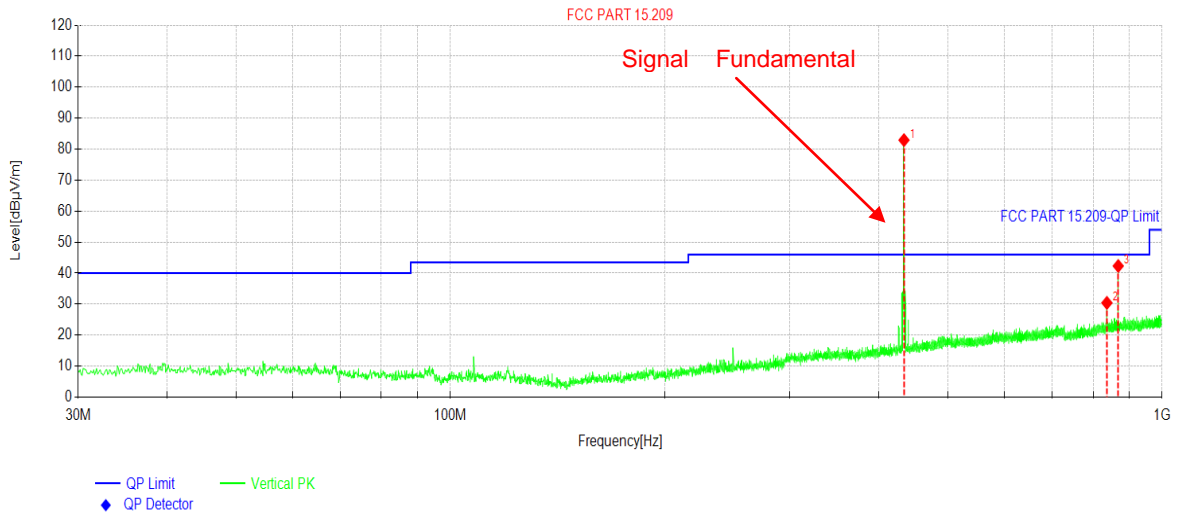
6.4 Field Strength of Fundamental

Peak value						
Frequency (MHz)	Reading (dBuV/m)	Factor [dB]	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
433.92	94.57	-11.64	82.93	100.82	17.89	Vertical
433.92	110.57	-11.64	98.93	100.82	1.89	Horizontal
867.969	46.41	-4.11	42.30	80.82	38.52	Vertical
867.969	72.98	-4.11	68.87	80.82	11.95	Horizontal
Average value						
Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization
433.92	82.93	-19.05	63.88	80.82	16.94	Vertical
433.92	98.93	-19.05	79.88	80.82	0.94	Horizontal
867.969	42.30	-19.05	23.25	60.82	37.57	Vertical
867.969	68.87	-19.05	49.82	60.82	11.00	Horizontal
Duty Cycle Factor Calculate Formula:	Average value = Peak value + Duty Cycle Factor					
	Duty cycle factor = 20log(Duty cycle)					
	Duty cycle = on time/100 milliseconds or period, whichever is less					
	T on time = 11.16(ms)					
	T period = 102(ms) > 100(ms)					
	Duty cycle = 11.16%					
Duty cycle factor = 20log(Duty cycle) = -19.05						



6.5 Field Strength of Spurious Emissions

Product Name:	CAR ALARM	Product Model:	TR1150AT
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	30 MHz – 1000 MHz	Polarization:	Vertical
Test Voltage:	DC 6V		



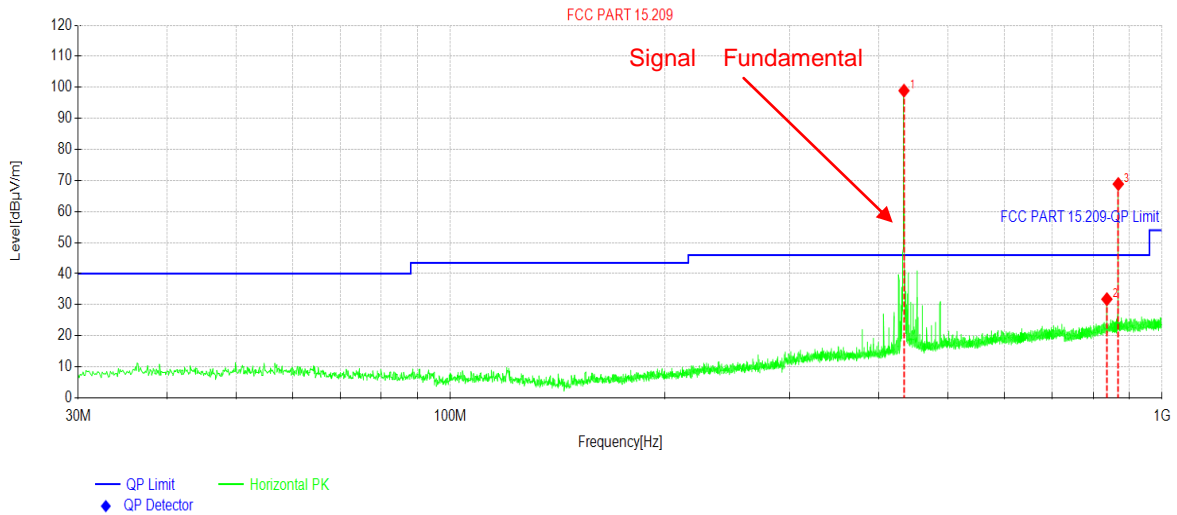
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	433.92	94.57	82.93	-11.64	100.82	17.89	PK	Vertical
2	836.635	34.93	30.40	-4.53	46.00	15.60	PK	Vertical
3	867.872	46.41	42.30	-4.11	80.82	38.52	PK	Vertical

NO.	Freq. [MHz]	Level (dBµV/m)	Duty cycle factor	Average value (dBµV/m)	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	433.92	82.93	-19.05	63.88	80.82	16.94	Av	Vertical
2	867.872	42.30	-19.05	23.25	60.82	37.57	Av	Vertical

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.

Product Name:	CAR ALARM	Product Model:	TR1150AT
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	30 MHz – 1000 MHz	Polarization:	Horizontal
Test Voltage:	DC 6V		



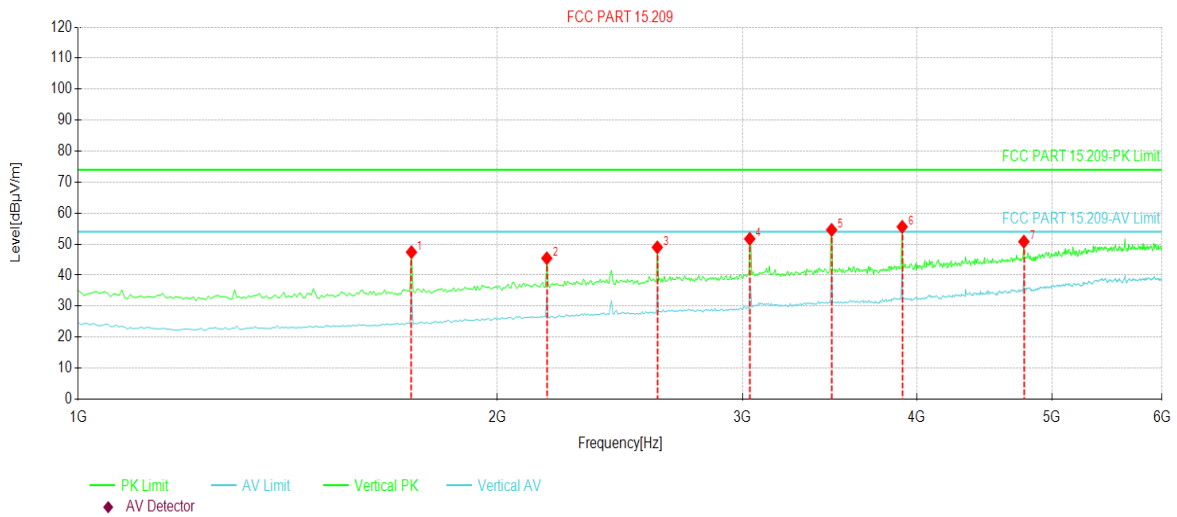
NO.	Freq. [MHz]	Reading[dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	433.92	110.57	98.93	-11.64	100.82	1.89	PK	Horizontal
2	836.538	36.31	31.78	-4.53	46.00	14.22	PK	Horizontal
3	867.969	72.98	68.87	-4.11	80.82	11.95	PK	Horizontal

NO.	Freq. [MHz]	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	433.92	98.93	-19.05	79.88	80.82	0.94	Av	Horizontal
2	867.96	68.87	-19.05	49.82	60.82	11.00	Av	Horizontal

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

Product Name:	CAR ALARM	Product Model:	TR1150AT
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	1000 MHz – 4000 MHz	Polarization:	Vertical
Test Voltage:	DC 6V		



NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	1735.00	69.10	47.43	-21.67	80.82	33.39	PK	Vertical
2	2170.00	65.08	45.45	-19.63	80.82	35.37	PK	Vertical
3	2605.00	67.01	48.97	-18.04	80.82	31.85	PK	Vertical
4	3035.00	68.26	51.71	-16.55	80.82	29.11	PK	Vertical
5	3475.00	69.55	54.59	-14.96	80.82	26.23	PK	Vertical
6	3905.00	69.08	55.59	-13.49	74.00	18.41	PK	Vertical
7	4775.00	60.16	50.81	-9.35	74.00	23.19	PK	Vertical

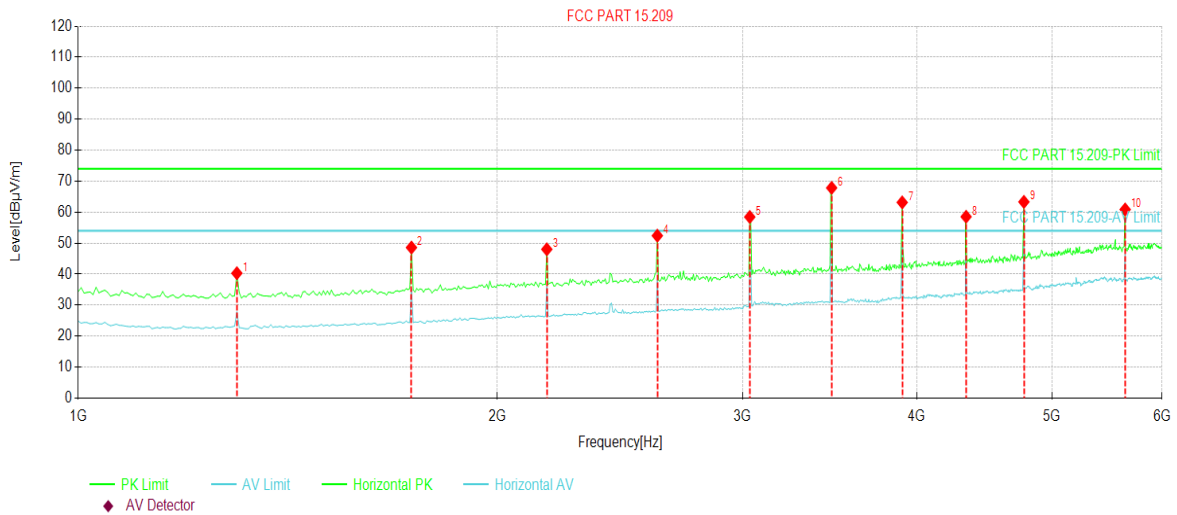
Suspected Data List(Average)

NO.	Freq. [MHz]	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	1735.00	47.43	-19.05	28.38	60.82	32.44	Av	Vertical
2	2170.00	45.45	-19.05	26.4	60.82	34.42	Av	Vertical
3	2605.00	48.97	-19.05	29.92	60.82	30.9	Av	Vertical
4	3035.00	51.71	-19.05	32.66	60.82	28.16	Av	Vertical
5	3475.00	54.59	-19.05	35.54	60.82	25.28	Av	Vertical
6	3905.00	55.59	-19.05	36.54	54.00	17.46	Av	Vertical
7	4775.00	50.81	-19.05	31.76	54.00	22.24	Av	Vertical

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

Product Name:	CAR ALARM	Product Model:	TR1150AT
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	1000 MHz – 4000 MHz	Polarization:	Horizontal
Test Voltage:	DC 6V		



NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	1300.00	63.45	40.29	-23.16	74.00	33.71	PK	Horizontal
2	1735.00	70.25	48.58	-21.67	80.82	32.24	PK	Horizontal
3	2170.00	67.64	48.01	-19.63	80.82	32.81	PK	Horizontal
4	2605.00	70.45	52.41	-18.04	80.82	28.41	PK	Horizontal
5	3035.00	75.00	58.45	-16.55	80.82	22.37	PK	Horizontal
6	3475.00	82.80	67.84	-14.96	80.82	12.98	PK	Horizontal
7	3905.00	76.63	63.14	-13.49	74.00	10.86	PK	Horizontal
8	4340.00	69.99	58.53	-11.46	74.00	15.47	PK	Horizontal
9	4775.00	72.67	63.32	-9.35	74.00	10.68	PK	Horizontal
10	5645.00	66.56	60.86	-5.70	80.82	19.96	PK	Horizontal

Suspected Data List(Average)

NO.	Freq. [MHz]	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	3035.00	58.45	-19.05	39.4	60.82	21.42	Av	Horizontal
2	3475.00	67.84	-19.05	48.79	60.82	12.03	Av	Horizontal
3	3905.00	63.14	-19.05	44.09	54.00	9.91	Av	Horizontal
4	4340.00	58.53	-19.05	39.48	54.00	14.52	Av	Horizontal
5	4775.00	63.32	-19.05	44.27	54.00	9.73	Av	Horizontal
6	5645.00	60.86	-19.05	41.81	60.82	19.01	Av	Horizontal

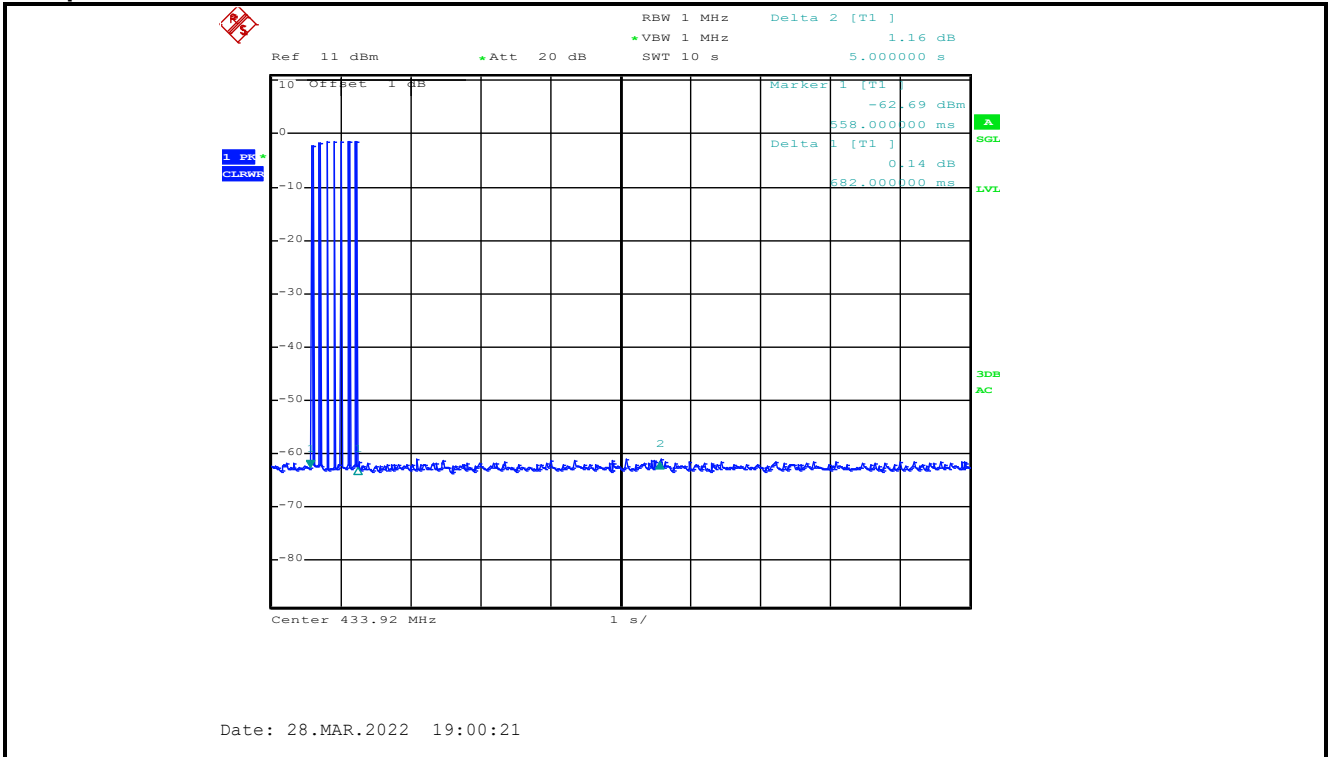
Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

6.6 Duration Time

Duration time (second)	Limit (second)	Result
0.682	<5.0	Pass

Test plot as follows:



-----End of report-----