Report No.: GTS202103000066-02

TEST REPORT

Applicant:	CartaSense Ltd.
Address of Applicant:	6 Ravnitzki street, Petach-Tikva, Israel 49277
Manufacturer:	CartaSense Ltd.
Address of Manufacturer:	6 Ravnizki St. ,Petah Tikva, Israel 4900617

Equipment Under Test (EUT)

Product Name:	O-Sensor stationary / O-Sensor mobile
Model No.:	100700-XX
FCC ID:	2AAEP-OSENSOR
IC:	11128A-OSENSOR
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.231 RSS-Gen Issue 5 RSS-210 Issue 10
Date of sample receipt:	March 05, 2023
Date of Test:	March 05, 2023-August 31, 2023
Date of report issued:	August 31, 2023
Test Result :	PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

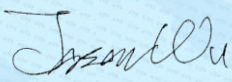
Robinson Lo
Laboratory Manager

TESTING
NVLAP LAB CODE 600179-0

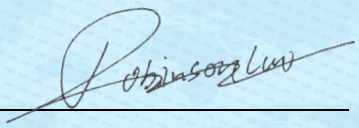
This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	*August 31, 2023*	*Original*

Prepared By:  ***Date:*** *August 31, 2023*

Project Engineer

Check By:  ***Date:*** *August 31, 2023*

Reviewer

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4 Test Summary

Test Item	Section in	Result
Antenna requirement	CFR 47 15.203 RSS-Gen Section 6.8	Pass
Conduction Emission	CFR 47 15.207 RSS-Gen Clause 8.8	N/A
Field strength of the fundamental signal	CFR 47 15.231(e) RSS-210 Clause A.1.4(Table A2)	Pass
Spurious emissions	CFR 47 15.231(e) &15.209 RSS-210 Clause A.1.4(Table A2)& RSS-Gen Clause 8.9&8.10	Pass
Occupy Bandwidth	CFR 47 15.231(c) RSS-210 A.1.3 & RSS-Gen Clause 6.7	Pass
Dwell time	CFR 47 15.231(e) RSS-210 Clause A.1.4(b)	Pass

Pass: The EUT complies with the essential requirements in the standard.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.			

5 General Information

5.1 General Description of EUT

Product Name:	O-Sensor stationary / O-Sensor mobile
Model No.:	100700-XX
S/N:	000001
Test sample(s) ID:	GTS202103000066-1
Sample(s) Status	Engineer sample
Operation Frequency:	433.75MHz, 433.9MHz, 434.05MHz ,434.2MHz
Number of Channels:	4
Modulation type:	FSK
Antenna Type:	Integral Antenna
Antenna gain:	-0.68dBi(declare by applicant)
Power supply:	NON-RECHEARGEABLE: 1.8 Volt - 3.3 Volt Or RECHEARGEABLE: 4.5 Volt - 5.5 Volt

Remark:

1. Antenna gain information provided by the customer

2. The relevant information of the sample is provided by the entrusting company, and the laboratory is not responsible for its authenticity.

5.2 Test mode

Transmitting mode	Keep the EUT in transmitting mode.

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

433.75MHz	Axis	X	Y	Z
	Field Strength(dBuV/m)	67.16	68.48	68.26

Final Test Mode:

According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup”:

Y axis (see the test setup photo)

5.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

● **ISED —Registration No.: 9079A**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with Registration No.: 9079A

● **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.4 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.
No. 123- 128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone,
Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102
Tel: 0755-27798480
Fax: 0755-27798960

5.5 Description of Support Units

None.

5.6 Deviation from Standards

None.

5.7 Abnormalities from Standard Conditions

None.

5.8 Other Information Requested by the Customer

None.

6 Test Instruments list

Radiated Emission:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	June 23, 2021	June 22, 2024
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	April 14, 2023	April 13, 2024
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 19, 2023	March 18, 2025
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	April 17, 2023	April 16, 2025
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 14, 2023	April 13, 2024
8	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 29, 2022	Nov. 28, 2023
9	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 14, 2023	April 13, 2024
10	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 14, 2023	April 13, 2024
11	Horn Antenna (18-26.5GHz)	/	UG-598A/U	GTS664	Oct. 30, 2022	Oct. 29, 2023
12	Horn Antenna (26.5-40GHz)	A.H Systems	SAS-573	GTS665	Oct. 30, 2022	Oct. 29, 2023
13	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	March 13, 2023	March 12, 2024
14	Amplifier	/	LNA-1000-30S	GTS650	April 14, 2023	April 13, 2024
15	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS668	Dec. 20, 2022	Dec.19, 2023
16	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	April 14, 2023	April 13, 2024
17	Thermo meter	JINCHUANG	GSP-8A	GTS643	April 19, 2023	April 18, 2024
18	RE cable 1	GTS	N/A	GTS675	July 31. 2023	July 30. 2024
19	RE cable 2	GTS	N/A	GTS676	July 31. 2023	July 30. 2024
20	RE cable 3	GTS	N/A	GTS677	July 31. 2023	July 30. 2024
21	RE cable 4	GTS	N/A	GTS678	July 31. 2023	July 30. 2024
22	RE cable 5	GTS	N/A	GTS679	July 31. 2023	July 30. 2024
23	RE cable 6	GTS	N/A	GTS680	July 31. 2023	July 30. 2024
24	RE cable 7	GTS	N/A	GTS681	July 31. 2023	July 30. 2024
25	RE cable 8	GTS	N/A	GTS682	July 31. 2023	July 30. 2024

RF Conducted Test:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Serial No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	April 14, 2023	April 13, 2024
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 14, 2023	April 13, 2024
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	April 14, 2023	April 13, 2024
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 14, 2023	April 13, 2024
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 14, 2023	April 13, 2024
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 14, 2023	April 13, 2024
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 14, 2023	April 13, 2024
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April 14, 2023	April 13, 2024
9	Thermo meter	JINCHUANG	GSP-8A	GTS641	April 19, 2023	April 18, 2024

General used equipment:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	Barometer	KUMAO	SF132	GTS647	April 19, 2023	April 18, 2024

7 Test results and Measurement Data

7.1 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.	
Standard requirement:	RSS-Gen 6.8
A transmitter can only be sold or operated with antennas with which it was approved. When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer. For transmitters of RF output power of 10 milliwatts or less, only the portion of the antenna gain that is in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power to demonstrate compliance with the radiated power limits specified in the applicable standard. For transmitters of output power greater than 10 milliwatts, the total antenna gain shall be added to the measured RF output power to demonstrate compliance to the specified radiated power limits.	
EUT Antenna:	
The antenna is Integral antenna, reference to the appendix II for details.	

7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 RSS-210 A.1.4 & RSS-Gen 8.9& RSS-Gen 8.10
Test Method:	ANSI C63.10:2013& RSS-Gen
Test Frequency Range:	9kHz to 6000MHz
Test site:	Measurement Distance: 3m

Receiver setup:

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

Limit:
(Field strength of the fundamental signal)

Frequency	Limit (dBuV/m @3m)	Remark
433.75MHz	72.86	Average Value
	92.86	Peak Value
434MHz	72.87	Average Value
	92.87	Peak Value
434.2MHz	72.88	Average Value
	92.88	Peak Value

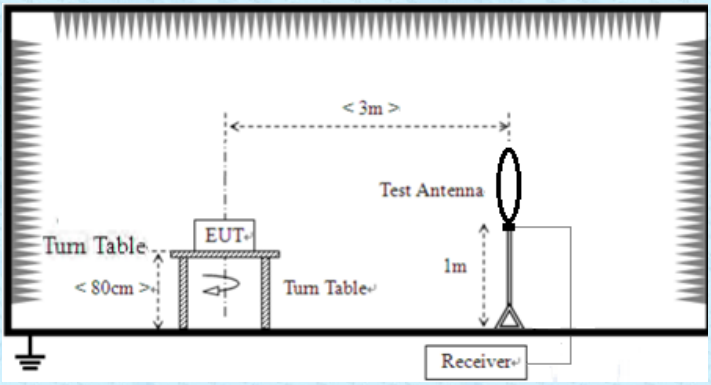
Limit:
(Spurious Emissions)

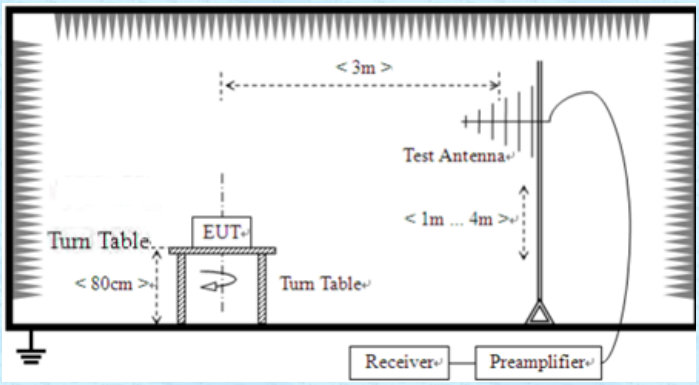
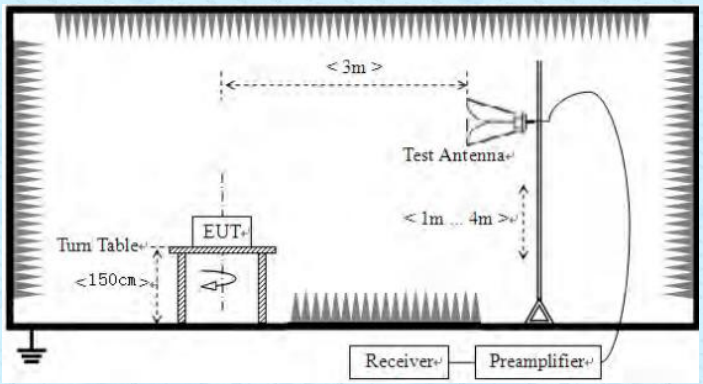
Frequency	Limit (uV/m)	Value	Measurement Distance
0.009MHz-0.490MHz	2400/F(KHz)	QP	300m
0.490MHz-1.705MHz	24000/F(KHz)	QP	30m
1.705MHz-30MHz	30	QP	30m
30MHz-88MHz	100	QP	3m
88MHz-216MHz	150	QP	
216MHz-960MHz	200	QP	
960MHz-1GHz	500	QP	
Above 1GHz	500	Average	
	5000	Peak	

Or The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level whichever limit permits a higher field strength.

Test setup:

Below 30MHz



	Below 1GHz  Above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8 meters for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test environment:	Temp.: 25 °C Humid.: 50% Press.: 1 010mbar

Test voltage:	AC 120V
Test results:	Pass

Measurement data:

7.2.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
433.75	86.95	16.03	3.02	37.52	68.48	92.86	-24.38	Vertical
433.75	80.31	16.03	3.02	37.52	61.84	92.86	-31.02	Horizontal
434.2	86.23	16.03	3.02	37.52	67.76	92.88	-25.12	Vertical
434.2	80.28	16.03	3.02	37.52	61.81	92.88	-31.07	Horizontal

Remarks:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *PK Value under PK limit more than 20db, then pass for AV value.*

7.2.2 Spurious emissions

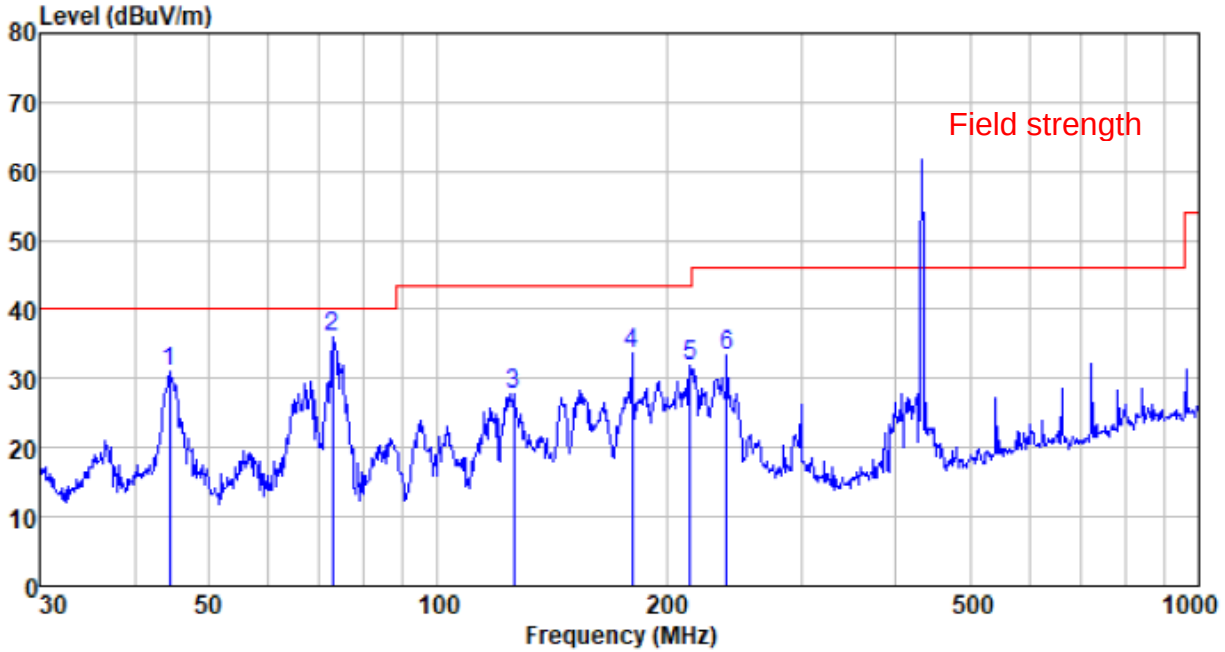
Measurement data:

9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

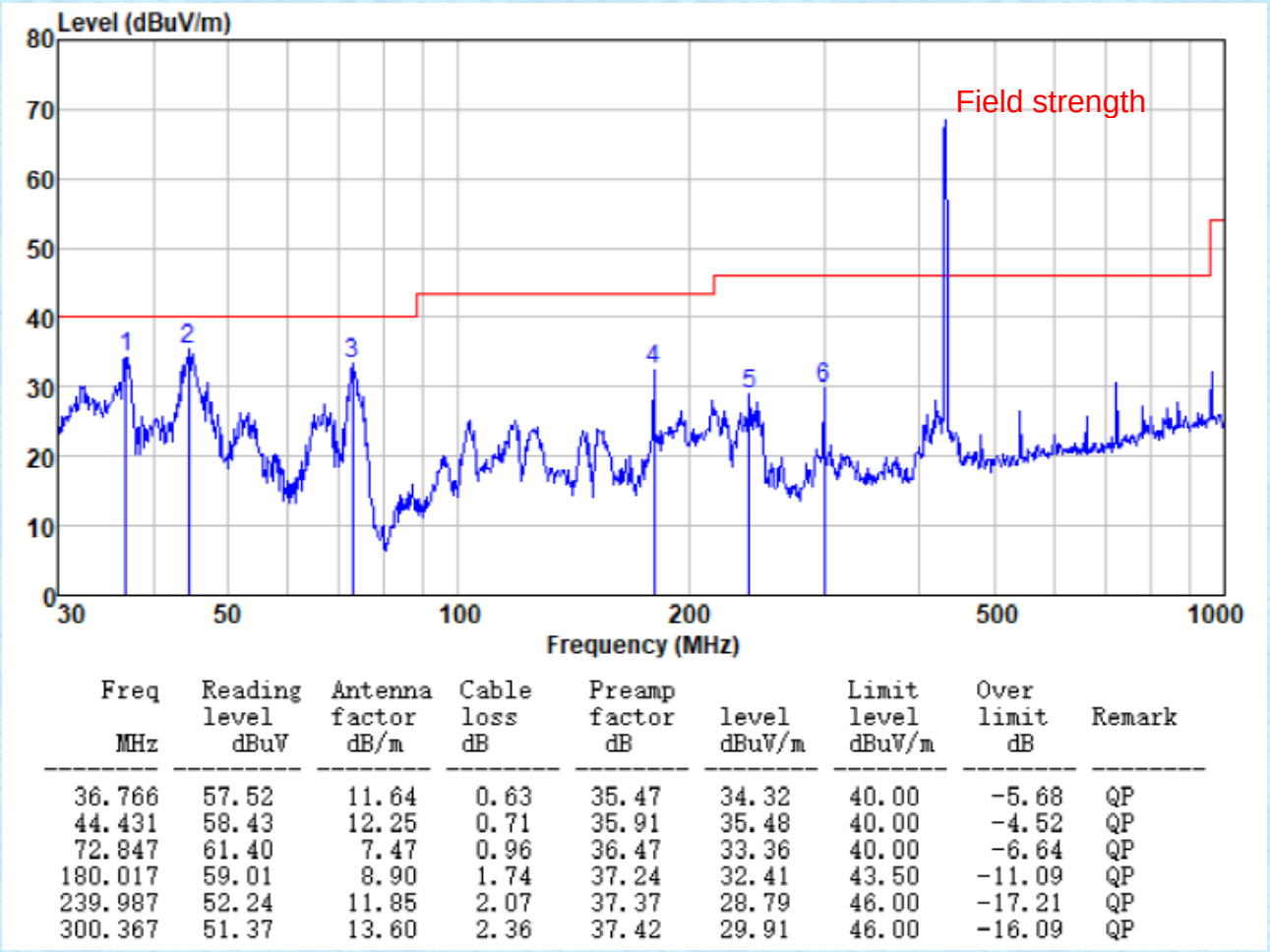
Below 1GHz:

Test channel:	**433.75 MHz**	**Polarization:**	**Horizontal**



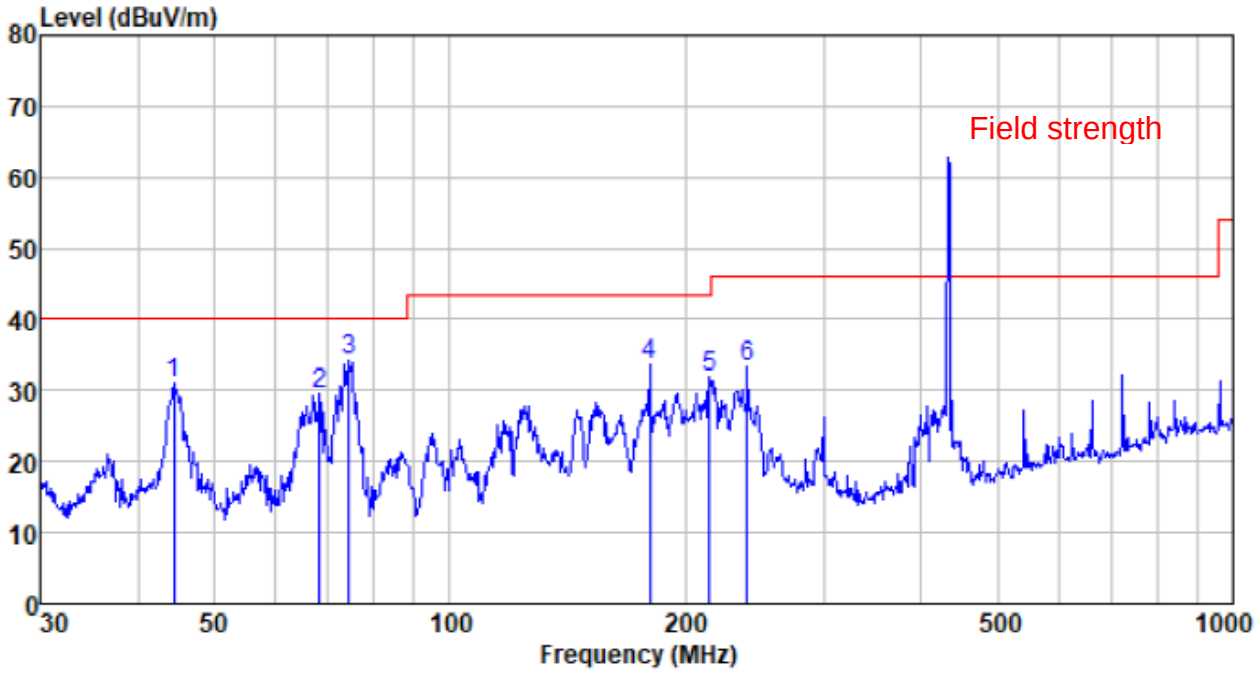
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
44.431	54.00	12.25	0.71	35.91	31.05	40.00	-8.95	QP
72.847	64.20	7.47	0.96	36.47	36.16	40.00	-3.84	QP
125.886	54.59	8.74	1.41	36.92	27.82	43.50	-15.68	QP
180.017	60.15	8.90	1.74	37.24	33.55	43.50	-9.95	QP
214.514	56.29	10.95	1.93	37.35	31.82	43.50	-11.68	QP
239.987	56.89	11.85	2.07	37.37	33.44	46.00	-12.56	QP

Test channel:	433.75 MHz	Polarization:	Vertical



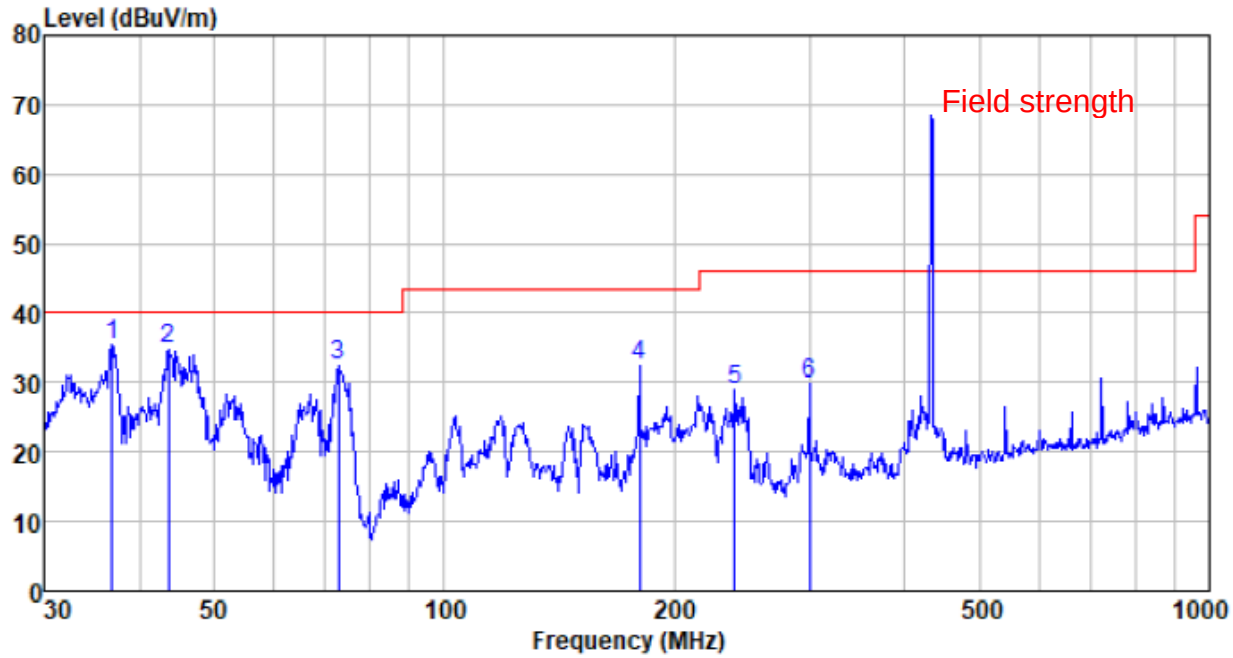
Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
36.766	57.52	11.64	0.63	35.47	34.32	40.00	-5.68	QP
44.431	58.43	12.25	0.71	35.91	35.48	40.00	-4.52	QP
72.847	61.40	7.47	0.96	36.47	33.36	40.00	-6.64	QP
180.017	59.01	8.90	1.74	37.24	32.41	43.50	-11.09	QP
239.987	52.24	11.85	2.07	37.37	28.79	46.00	-17.21	QP
300.367	51.37	13.60	2.36	37.42	29.91	46.00	-16.09	QP

Test channel:	434.2 MHz	Polarization:	Horizontal



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
44.431	54.00	12.25	0.71	35.91	31.05	40.00	-8.95	QP
68.151	56.95	8.19	0.93	36.42	29.65	40.00	-10.35	QP
74.396	62.31	7.46	0.98	36.49	34.26	40.00	-5.74	QP
180.017	60.15	8.90	1.74	37.24	33.55	43.50	-9.95	QP
214.514	56.29	10.95	1.93	37.35	31.82	43.50	-11.68	QP
239.987	56.89	11.85	2.07	37.37	33.44	46.00	-12.56	QP

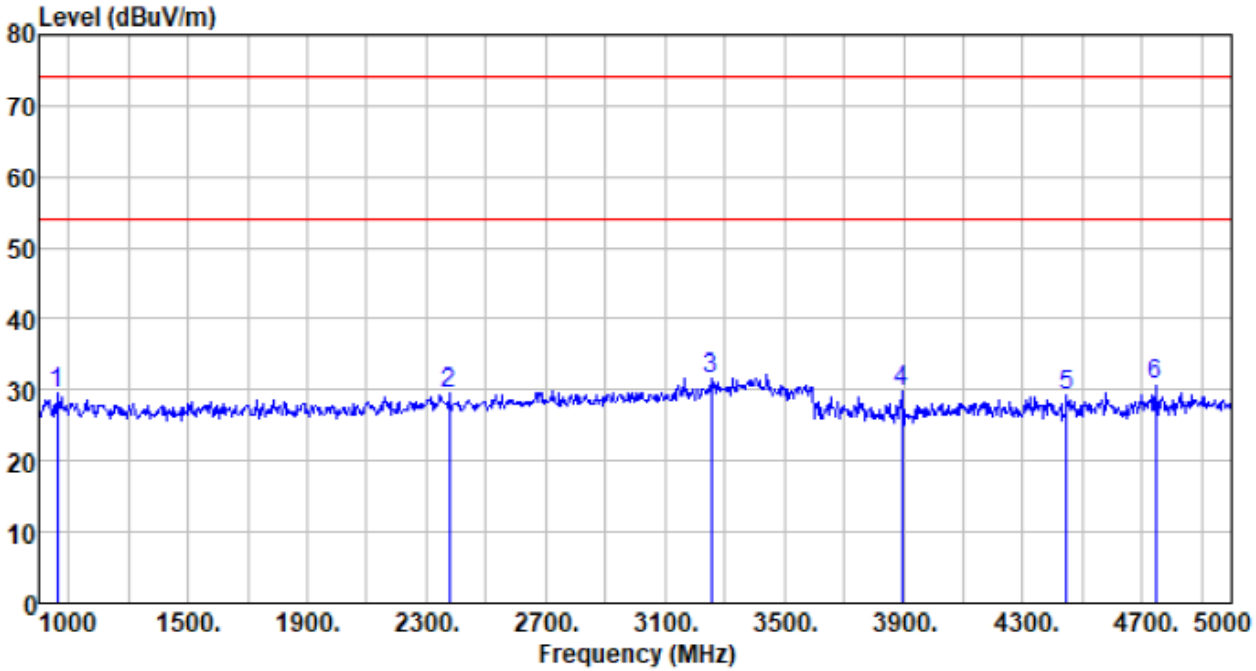
Test channel:	434.2 MHz	Polarization:	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
36.766	58.52	11.64	0.63	35.47	35.32	40.00	-4.68	QP
43.659	57.88	12.24	0.70	35.87	34.95	40.00	-5.05	QP
72.847	60.40	7.47	0.96	36.47	32.36	40.00	-7.64	QP
180.017	59.01	8.90	1.74	37.24	32.41	43.50	-11.09	QP
239.987	52.24	11.85	2.07	37.37	28.79	46.00	-17.21	QP
300.367	51.37	13.60	2.36	37.42	29.91	46.00	-16.09	QP

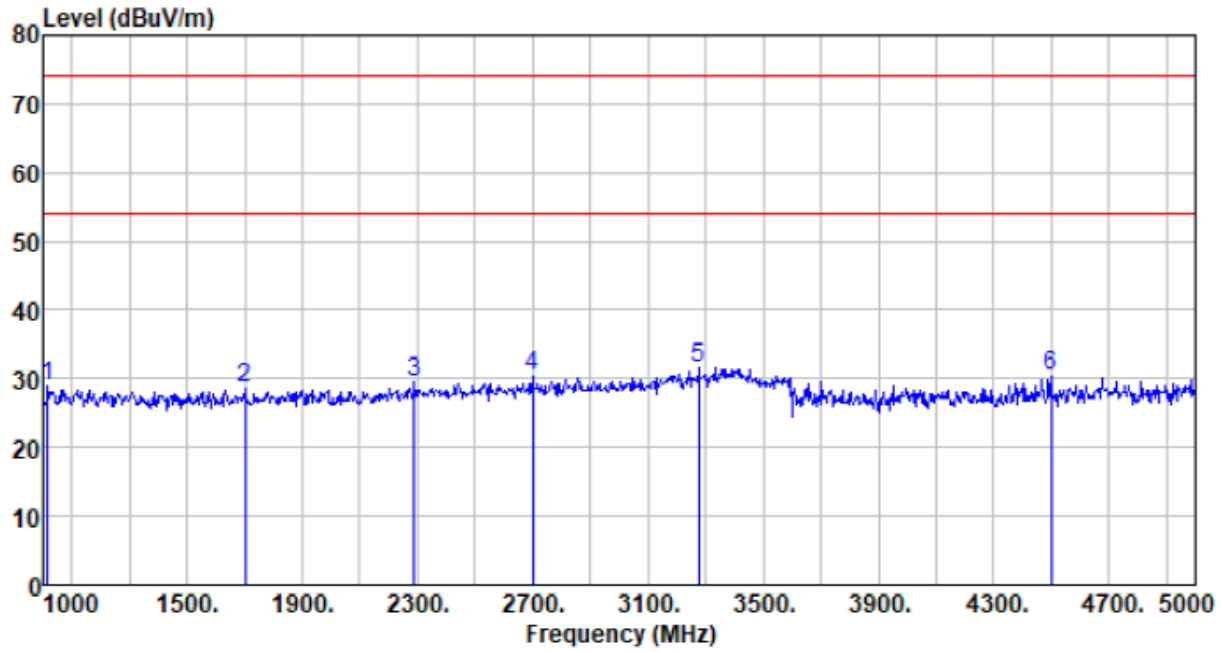
Above 1G:

Test channel:	**433.75 MHz**	**Polarization:**	**Horizontal**



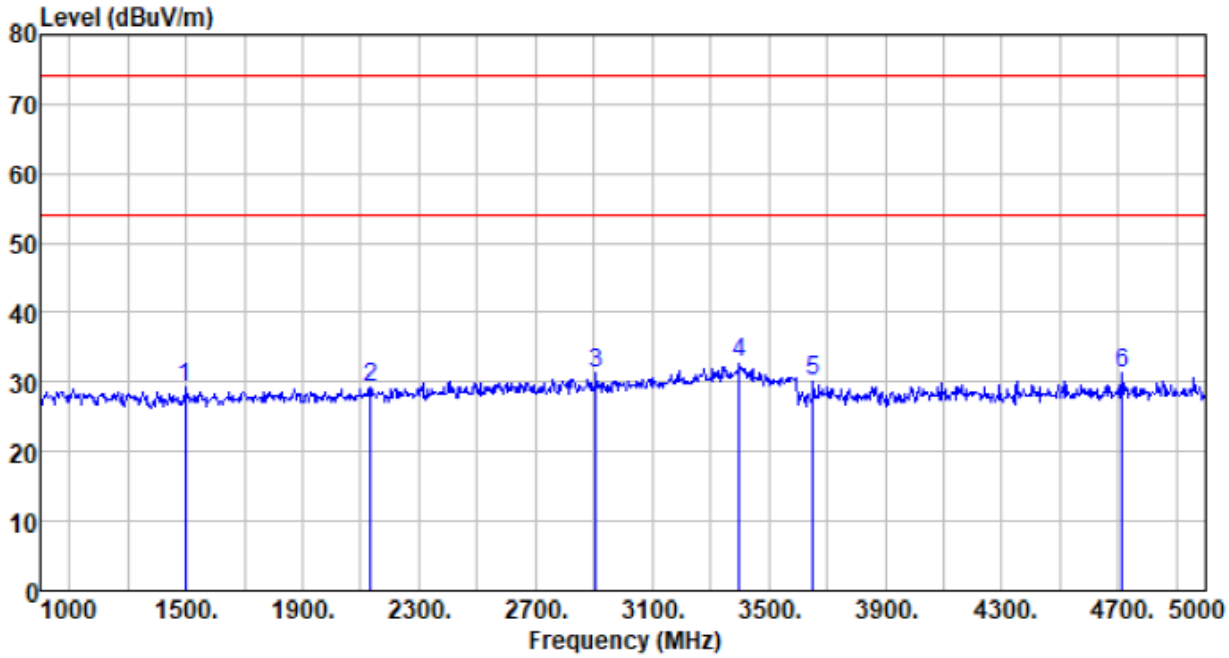
Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1060.000	38.58	24.53	2.04	35.77	29.38	74.00	-44.62	Peak
2376.000	36.03	27.33	2.89	36.84	29.41	74.00	-44.59	Peak
3256.000	36.96	28.40	3.62	37.33	31.65	74.00	-42.35	Peak
3896.000	33.71	29.53	3.92	37.39	29.77	74.00	-44.23	Peak
4448.000	31.88	30.61	4.38	37.59	29.28	74.00	-44.72	Peak
4744.000	32.59	31.11	4.58	37.71	30.57	74.00	-43.43	Peak

Test channel:	433.75 MHz	Polarization:	Vertical



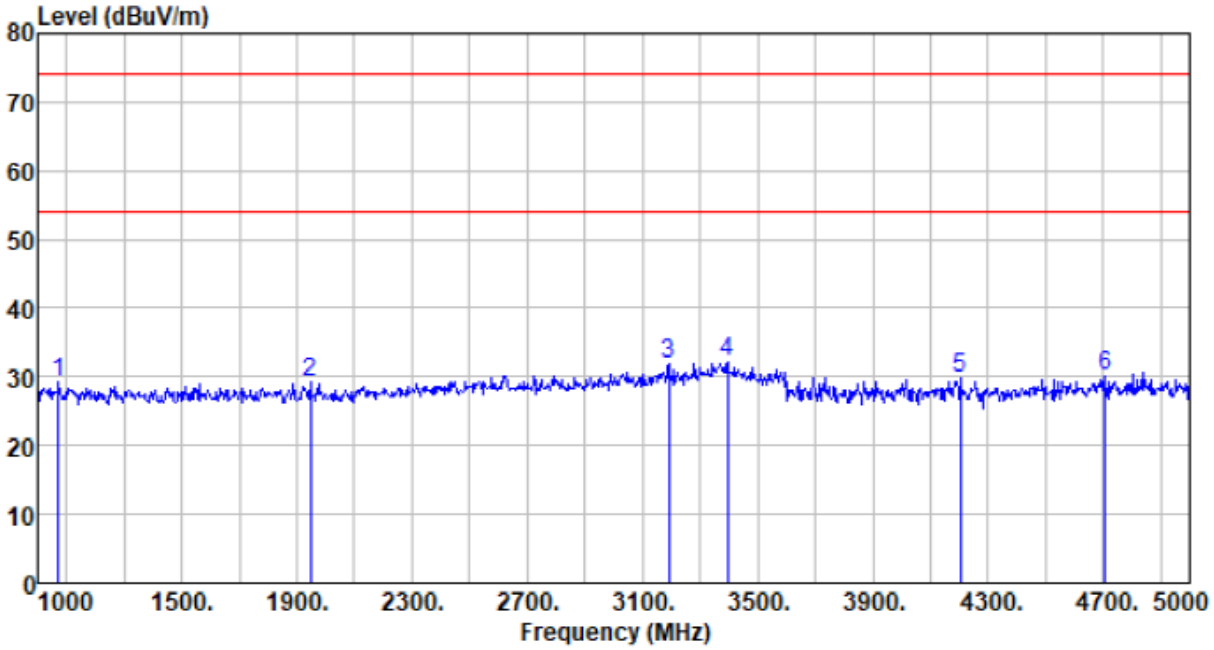
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
1016.000	38.27	24.43	1.99	35.72	28.97	74.00	-45.03	Peak
1700.000	36.75	25.65	2.40	36.31	28.49	74.00	-45.51	Peak
2288.000	36.56	27.06	2.79	36.76	29.65	74.00	-44.35	Peak
2700.000	36.19	28.00	3.16	37.09	30.26	74.00	-43.74	Peak
3276.000	36.91	28.40	3.62	37.33	31.60	74.00	-42.40	Peak
4500.000	32.92	30.70	4.43	37.61	30.44	74.00	-43.56	Peak

Test channel:	434.2 MHz	Polarization:	Horizontal



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1496.000	37.82	25.29	2.28	36.16	29.23	74.00	-44.77	Peak
2132.000	36.55	26.56	2.64	36.63	29.12	74.00	-44.88	Peak
2908.000	36.83	28.28	3.32	37.24	31.19	74.00	-42.81	Peak
3400.000	38.00	28.40	3.64	37.34	32.70	74.00	-41.30	Peak
3652.000	34.72	28.85	3.86	37.37	30.06	74.00	-43.94	Peak
4712.000	33.22	31.05	4.56	37.69	31.14	74.00	-42.86	Peak

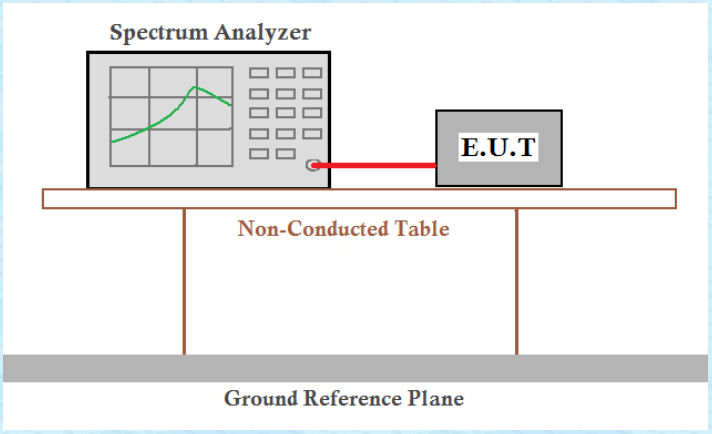
Test channel:	434.2 MHz	Polarization:	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
1072.000	38.30	24.55	2.04	35.78	29.11	74.00	-44.89	Peak
1948.000	37.26	26.03	2.53	36.47	29.35	74.00	-44.65	Peak
3192.000	37.34	28.40	3.61	37.32	32.03	74.00	-41.97	Peak
3396.000	37.40	28.40	3.64	37.34	32.10	74.00	-41.90	Peak
4204.000	33.00	30.18	4.01	37.49	29.70	74.00	-44.30	Peak
4708.000	32.19	31.05	4.56	37.69	30.11	74.00	-43.89	Peak

Remarks:
Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

7.3 Occupy Bandwidth

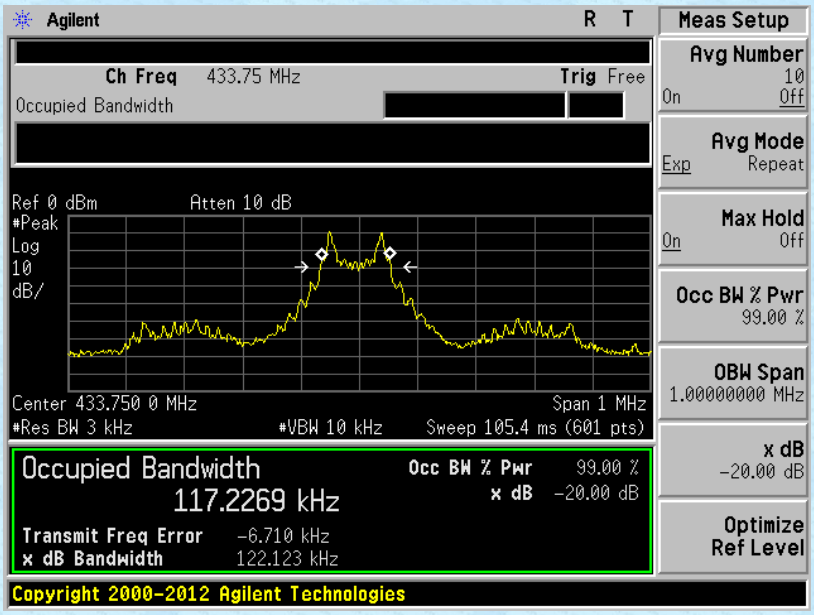
Test Requirement:	FCC Part15 C Section 15.231 (c) RSS-210 A.1.3
Test Method:	ANSI C63.10:2013& RSS-Gen
Limit:	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

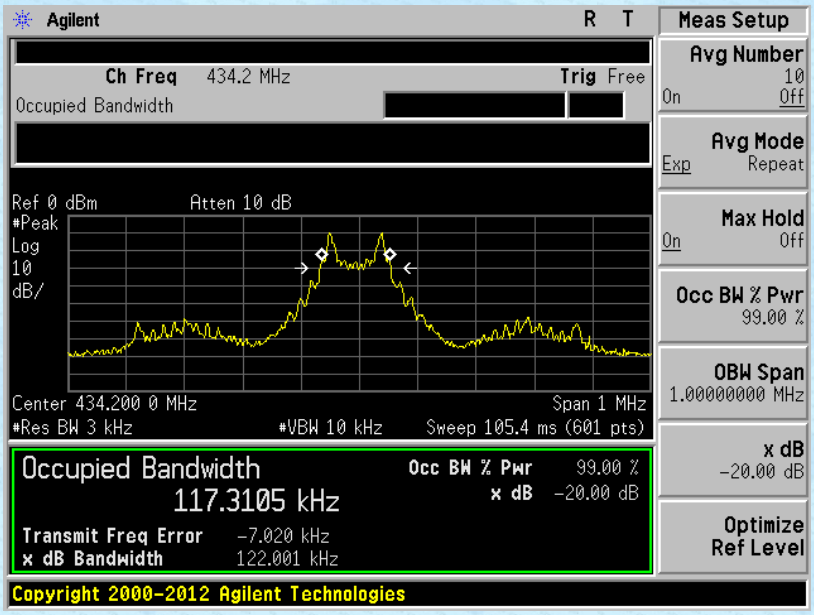
Test Frequency (MHz)	20dB bandwidth (MHz)	99% bandwidth(MHz)	Limit (MHz)	Result
433.75	0.122123	0.1172269	1.0844	Pass
434.20	0.122001	0.1173105	1.0855	Pass

Note: Limit= Fundamental frequency×0.25%

Test plot as follows:

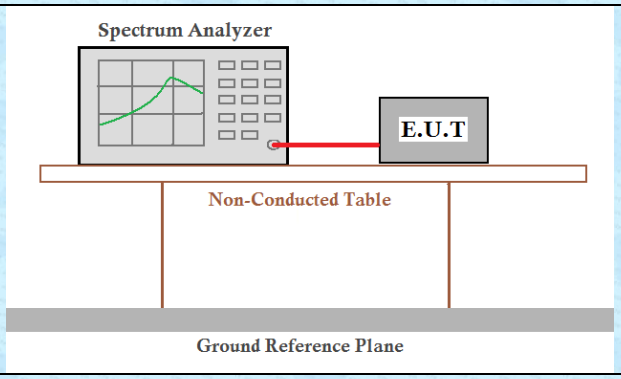


433.75 MHz



434.2 MHz

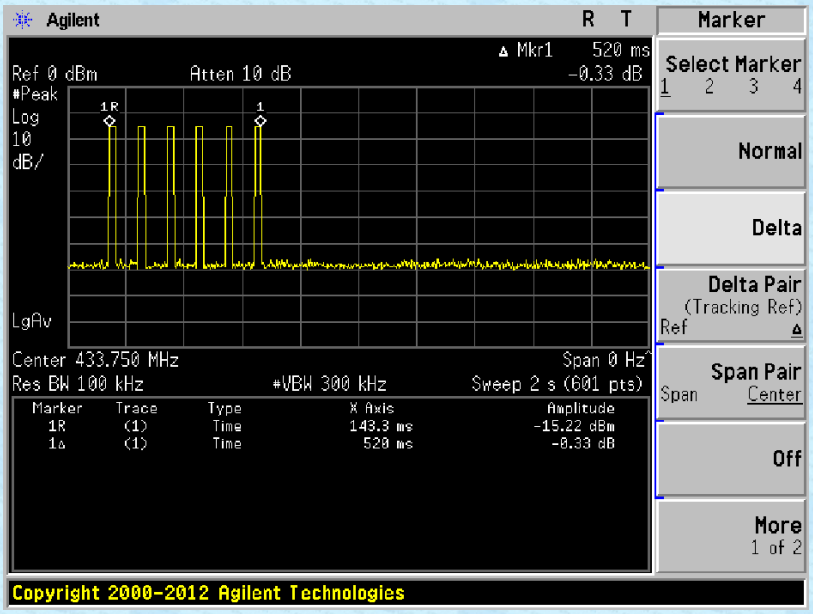
7.4 Dwell time

Test Requirement:	FCC Part15 C Section 15.231 (e) RSS-210 A.1.4(b)
Test Method:	ANSI C63.10:2013& RSS-Gen
Receiver setup:	RBW=1MHz, VBW=1MHz, span=0Hz, detector: Peak
Limit:	Not more than 1 seconds
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

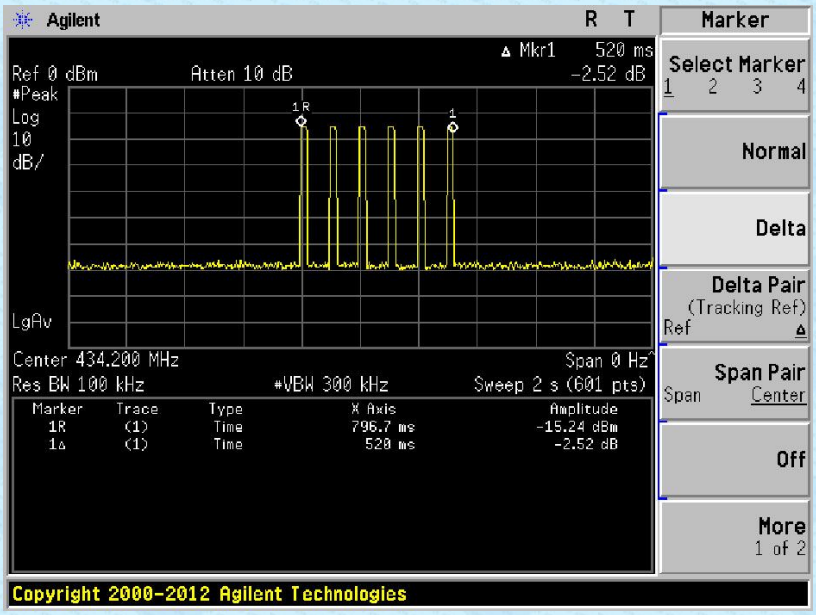
Measurement data:

Test Frequency (MHz)	Duration of each TX (second)	Limit (second)	Result
433.75	0.52	<1.0	Pass
434.20	0.52	<1.0	Pass

Test plot as follows:

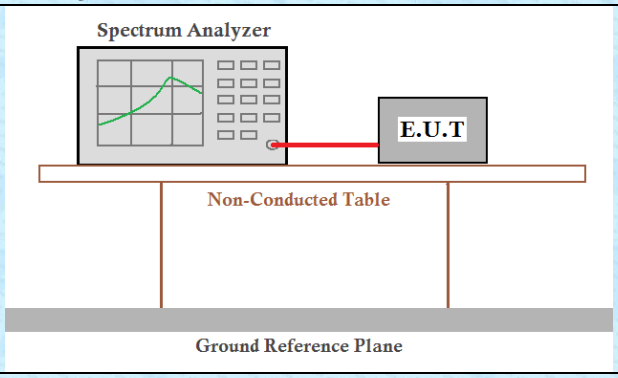


433.75 MHz



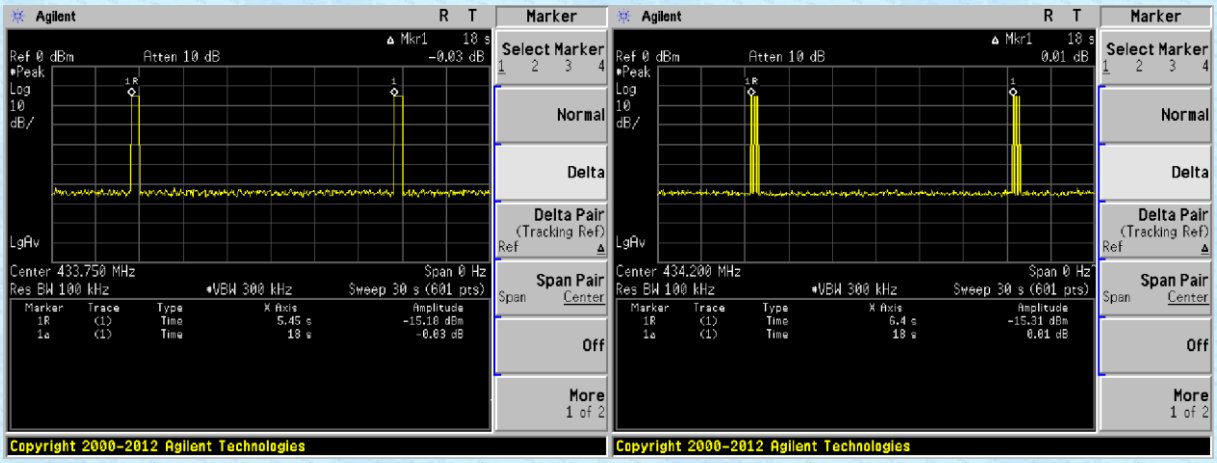
434.2 MHz

7.5 Silent period

Test Requirement:	FCC Part15 C Section 15.231 (e) RSS-210 A.1.4(b)
Test Method:	ANSI C63.10:2013& RSS-Gen
Receiver setup:	RBW=1MHz, VBW=1MHz, span=0Hz, detector: Peak
Limit:	at least 30 times the duration of the transmission or more than 10 seconds
Test Procedure:	1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set the EUT to proper test channel. 3. Single scan the transmit, and read the transmission time.
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement data:

Test Frequency (MHz)	Silent period (second)	Limit (second)	Result
433.75	18	>10	Pass
434.20	18	>10	Pass
433.75	18	>15.6	Pass
434.20	18	>15.6	Pass



8 Test Setup Photo

Reference to the **Appendix I** for details.

9 EUT Constructional Details

Reference to the **Appendix II** for details.

------ End ------