

RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-223-RWD-021

Reception No. : 2202000647

Applicant : Continental Automotive Systems Corporation

Address : 45-29, Saeum-ro, Icheon-City, Gyeonggi-Do, Korea

Manufacturer : Continental Automotive Systems Corporation

Address : 45-29, Saeum-ro, Icheon-City, Gyeonggi-Do, Korea

Type of Equipment : Remote Keyless Entry System(Transmitter)

FCC ID : SY5SKRGE03

Model No. : SVI-SKRGE03

Serial number : N/A

Total page of Report : 23 pages (including this page)

Date of Incoming : February 28, 2022

Date of issuing : March 16, 2022

SUMMARY

The equipment complies with the regulation; FCC PART 15 SUBPART C Section 15.209 and Section 15.231

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

オイゼ

Tested by / Su-Min You / Assistant Manager ONETECH Corp.

Reviewed by Tae-Ho, Kim / General Manager ONETECH Corp. Approved by
Ki-Hong, Nam / General Manager
ONETECH Corp.



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This Report is not correlated with the authentication of KOLAS	OTC TRE RE 001(0)



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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-223-RWD-021	March 16, 2022	Initial Issue (C2PC due to the added optional X-tal)	All



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1. VERIFICATION OF COMPLIANCE

Applicant : Continental Automotive Systems Corporation

Address : 45-29, Saeum-ro, Icheon-City, Gyeonggi-Do, Korea

Contact Person : S. M. Jang / Representative

Telephone No. : 82-31-645-4864
FCC ID : SY5SKRGE03
Model Name : SVI-SKRGE03

Brand Name : N/A
Serial Number : N/A

Date : March 16, 2022

EQUIPMENT CLASS	DSC - Part 15, Security/Remote Control Transmitter
E.U.T. DESCRIPTION	Remote Keyless Entry System(Transmitter)
THIS REPORT CONCERNS	Class II Permissive Change (C2PC)
MEASUREMENT PROCEDURES	ANSI C63.10: 2020
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.209 and Section 15.231
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	None
FINAL TEST WAS CONDUCTED ON	3 m, Semi Anechoic Chamber

The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

-. This Report is Class II Permissive Change (C2PC) Report due to the added X-tal. This is purpose to use both of original and new X-tal optionally, For more detail test result of original X-tal, Please refer to the report No. OT-204-RWD-047.



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2. TEST SUMMARY

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.231(c)	Bandwidth Measurement	Met the Limit / PASS
15.231(a)	Transmission Time	Met the Limit / PASS
15.231(b) 15.209(a)	Field Strength of Fundamental and Spurious Emission	Met the Limit / PASS
15.205	Restricted Band	Met the Limit / PASS
15.207	AC Conducted Emissions	N / A (See Note)

Note: This test is not applicable because the EUT uses battery and it's not to be connected to the public utility (AC) power line.

2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in section 2.1.

2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2020. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea

-. Site Filing:

VCCI (Voluntary Control Council for Interference) - Registration No. R-4112/C-14617/G-10666/T-1842

-. Lab Accreditation:

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

ISED (Innovation, Science and Economic Development Canada) - Registration No. Site# 3736A-3

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) - Designation No. KR0013





3. GENERAL INFORMATION

3.1 Product Description

The Continental Automotive Systems Corporation, Model: SVI-SKRGE03 (referred to as the EUT in this report) is a Transmitter that it controls locking and unlocking the door of a vehicle. Product specification information described herein was obtained from product data sheet or user's manual.

CHASSIS TYPE	Plastic
TX FREQUENCY	433.92 MHz
MODULATION	FSK
LIST OF EACH OSC. OR CRY. FREQ.(FREQ.>= 1 MHz)	13.08 MHz
DUTY CYCLE FACTOR	9.67 dB (Duty Cycle : 32.86 %)
ANTENNA TYPE	Built-in on the PCB in EUT
ANTEENA GAIN	-21.63 dBi
RATED SUPPLY VOLTAGE	DC 3 V from a battery

3.2 Alternative type(s)/model(s); also covered by this test report.

-. None



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4. EUT MODIFICATIONS

-. None

5. SYSTEM TEST CONFIGURATION

5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
MAIN BOARD	N/A	N/A	-

5.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

Model	Manufacturer	Description	Connected to
-	-	-	-
-	-	-	-

5.3 Mode of operation during the test

Software was programmed into the EUT to maintain continuous transfer mode. The EUT was set at 433.92 MHz. To get a maximum radiated emission levels from the EUT, the EUT was moved throughout the XY, XZ, and YZ planes and the worst case is "XY" axis. So, the worst data was recorded in this test report.





-. Duty Cycle

Frequency	Tx On Time	Tx Off Time	Duty Cycle	Duty Cycle Factor
(MHz)	[ms]	[ms]	[%]	[dB]
433.92	32.6	66.6	32.86	9.67

Note – Duty Cycle: (Tx On Time / (Tx On Time + Tx Off Time)) * 100

Duty Cycle Factor: 20 * Log(1 / (Duty Cycle / 100))

-. Test Plot **P** Spectrum Ref Level 10.00 dBm Offset 0.40 dB @ RBW 28 MHz Att 20 dB • SWT 200 ms • VBW 28 MHz TRG: VID ● 1Pk View D3[1] 0.02 dB 99.200 ms 0 dBm -2.80 dBm 0.000000 -10 dBm -20 dBm TRG -25,000 dBm -30 dBm-40 dBm--50 dBm -60 dBm -70 dBm -80 dBm-1001 pts 20.0 ms/ CF 433.92 MHz Marker Function **Function Result** Type Ref Trc X-value Y-value 0.0 s -2.80 dBm M1 D2 32.6 ms -0.02 dB 0.02 dB 433.92 MHz

The average field strength may be found by measuring the peak pulse amplitude (in log equivalent units) and determining the duty cycle correction factor (in dB) associated with the pulse modulation as shown in Equation. (ANSI C63.10: 2020)



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5.4 Configuration of Test System

Radiated Emission Test:

Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2020 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 m Semi Anechoic Chamber

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both

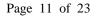
vertical and horizontal polarization.

5.5 Antenna Requirement

For intentional device, according to section 15.203, 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.

Antenna Construction:

The transmitter antenna of the EUT is PCB Antenna, so no consideration of replacement by the user.





6. PRELIMINARY TEST

6.1 AC Power line Conducted Emissions Tests

- It is not need to test this requirement, because the power of the EUT is supplied from a DC battery.

6.2 General Radiated Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X





7. Bandwidth Measurement

7.1 Operating environment

Temperature : $21 \, ^{\circ}\text{C}$

Relative humidity : 52 % R.H.

7.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 10 kHz, and peak detection was used. The bandwidth of fundamental frequency was measured and recorded.



7.3 Test date

February 28, 2022

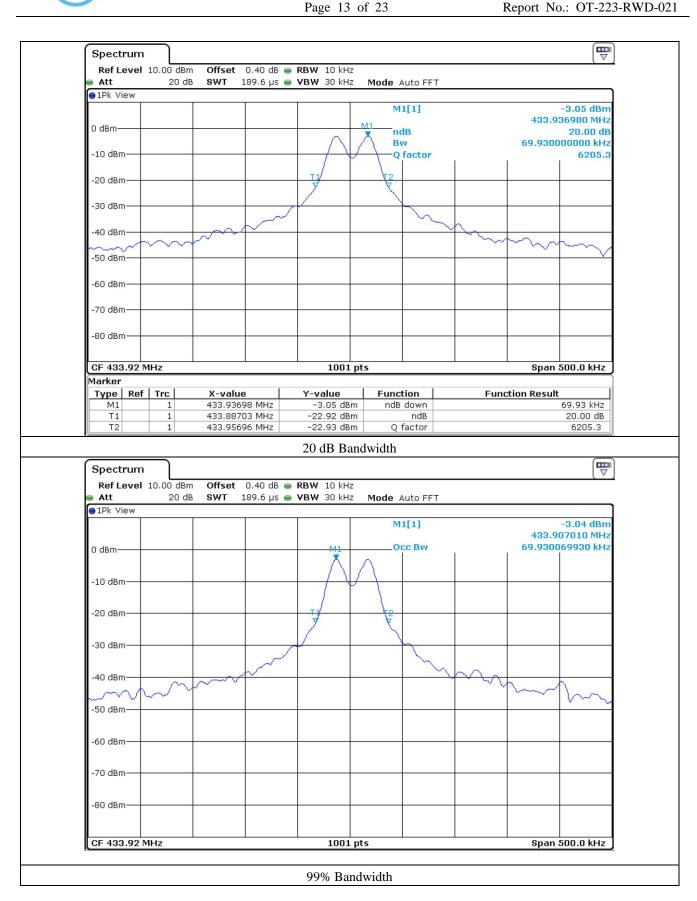
7.4 Test data

-. Test Result : Pass

Frequency	20 dB Bandwidth	99 % Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
433.92	0.070	0.070	1.085

Remark: See next page for measurement data.







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8. Transmission Time

ONETECH

8.1 Operating environment

: 21 °C Temperature

Relative humidity : 52 % R.H.

8.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, and peak detection was used. The bandwidth of fundamental frequency was measured and recorded.

EUT Spectrum analyzer

8.3 Test date

February 28, 2022





8.4 Test data

-. Test Result : Pass

-. Test Applies : 15.231 (a) (1)

-90 dBm-

-100 dBm

CF 433.92 MHz

Frequency (MHz)	Transmission Time (s)	Limit (s)		Result
433.92	0.318	5.000		Pass
Spectrum			\	
TRG: VID 1Pk Clrw -20 dBm		D2[1] M1[1]	0.10 dB 318.00 ms -26.65 dBm 0.00000 s	
-40 d8m			0.00000 \$	
-50 d0m - TRG -50.	000 dBm-			

1001 pts

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600.0 ms/





9. Radiated Emission Test

9.1 Regulation

According to §15.209(a), for an intentional device, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the following values:

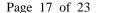
Frequency [MHz]	Field strength [µ V/m]	Field strength [dBµ V/m]	Measurement distance [m]	
0.009 ~ 0.490	2 400 / F (kHz)	-	300	
0.490 ~ 1.705	24 000 / F (kHz)	-	30	
1.705 ~ 30	30	29.50	30	
30 ~ 88	*100	40.00	3	
88 ~ 216	*150	43.52	3	
216 ~ 960	*200	46.02	3	
Above 960	500	53.98	3	

^{*}Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands $54 \sim 72$ MHz, $76 \sim 88$ MHz, $174 \sim 216$ MHz or $470 \sim 806$ MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

According to §15.231(b), for an intentional device, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency [MHz]	Field strength of Fundamental [µ V/m]	Field strength of Spurious Emissions
40.66 ~ 40.70	2 250	225
70 ~ 130	1 250	125
130 ~ 174	1 250 ~ 3 750 **	125 ~ 375 **
174 ~ 260	3 750	375
260 ~ 470	3 750 ~ 12 500 **	375 ~ 1 250 **
Above 470	12 500	1 250

^{**} Linear interpolations



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9.2 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 kHz to 1 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

9.3 Test date

February 28, 2022



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9.4 Test data

9.4.1 Field Strength of Fundamental

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 52 % R.H. Temperature: 21 °C

Limits apply to : FCC CFG 47, PART 15, SUBPART C, SECTION 15.231(b)

Result : PASSED

EUT : Remote Keyless Entry System(Transmitter)

Operating Condition : TX mode

Distance : 3 m

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Duty Factor	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
	88.79	Peak	Н	22.70			-	82.49	100.83	18.34
422.02	-	Average	Н				9.67	72.82	80.83	8.01
433.92	87.22	Peak	V		4.10	33.10	-	80.92	100.83	19.91
	-	Average	V				9.67	71.25	80.83	9.58

Remark: "H": Horizontal, "V": Vertical

 $Total \ (dB\mu V/m) = Reading \ (dB\mu V) + Ant \ Factor \ (dB) + Cable \ Loss \ (dB) - Amp \ Gain \ (dB) - Duty \ Factor \ (dB)$

Margin (dB) = Limits (dB μ V/m) - Total (dB μ V/m)



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9.4.2 Spurious Emission Test & Restricted Band Test

9.4.2.1 Test data for 9 kHz to 30 MHz

-. Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)

-. Frequency range : 9 kHz ~ 30 MHz

-. Measurement distance : 3 m

Frequency (MHz)	Reading (dBµV)	Ant. Pol. (H/V)	Ant. Height (m)	0	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBµV/m)	Margin (dB)	
	All emissions observed were 20 dB below the limit.									



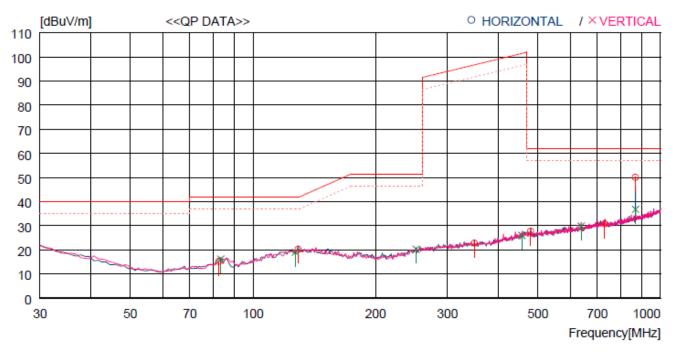


9.4.2.2 Test data for 30 MHz to 1 000 MHz

-. Resolution bandwidth : 120 kHz

-. Frequency range : 30 MHz ~ 1 000 MHz

-. Measurement distance : 3 m



No.	FREQ	READING QP I	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
H	orizontal -									
1 2 3 4 5	82.380 128.940 349.130 480.081 729.364 868.070	32.0 33.1 32.8	13.4 19.3 20.2 23.4 26.0 27.5	1.7 2.2 3.6 4.3 5.3 5.8	33.1 33.0 33.0 33.1 33.3 32.8	15.2 20.2 22.8 27.7 30.8 50.1	41.9 41.9 96.7 61.9 61.9	26.7 21.7 73.9 34.2 31.1 11.8	100 100 100 300 100 100	142 359 217 359 359 66
Ve	ertical									
7 8 9 10 11 12	83.350 127.000 251.160 456.801 639.157 868.070	32.4 31.5 33.4	13.4 19.2 17.7 23.4 24.8 27.5	1.8 2.2 3.1 4.3 5.0 5.8	33.1 33.0 33.0 33.2 33.3 32.8	16.2 19.0 20.2 26.0 29.9 36.8	41.9 41.9 51.5 101.4 61.9 61.9	25.7 22.9 31.3 75.4 32.0 25.1	100 200 200 400 200 200	358 359 89 359 98 359



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9.4.2.3 Test data for above 1 GHz

-. Resolution bandwidth : 1 MHz for Peak and Average Mode-. Video bandwidth : 1 MHz for Peak and Average Mode

-. Frequency range : 1 GHz ~ 5 GHz

-. Measurement distance : 3 m

-. Operating mode : Transmitting mode

Frequency	Reading	Detector	Ant. Pol.	Ant.	Cable	Amp	Duty	Total	Limits	Margin
(GHz)	(dBµV)	Mode	(H/V)	Factor	Loss	Gain	Factor	(dBµV/m)	(dBµV/m)	(dB)
1 301.761, 2)	45.68	Peak	Н				-	31.94	74.00	42.06
1 301.76 ^{1), 2)}	-	Average	Н	25.20	7.10	46.04	9.67	22.27	54.00	31.73
1 301.761, 2)	45.39	Peak	V	25.20	7.10	46.04	-	31.65	74.00	42.35
1 301.761, 2)	-	Average	V				9.67	21.98	54.00	32.02
1 735.681)	45.26	Peak	Н				-	34.52	80.83	46.31
1 735.681)	=	Average	Н	2 < 20	0.00		9.67	24.85	60.83	35.98
1 735.681)	44.64	Peak	V	26.20	8.20	45.14	-	33.90	80.83	46.93
1 735.681)	-	Average	V				9.67	24.23	60.83	36.60
2 169.601)	44.73	Peak	Н				1	36.34	80.83	44.49
2 169.601)	-	Average	Н				9.67	26.67	60.83	34.16
2 169.601)	43.39	Peak	V	28.20	9.20	45.79	-	35.00	80.83	45.83
2 169.60 ¹⁾	-	Average	V				9.67	25.33	60.83	35.50
2 603.521)	43.89	Peak	Н				ı	38.32	80.83	42.51
2 603.521)	=	Average	Н				9.67	28.65	60.83	32.18
2 603.521)	43.80	Peak	V	29.60	11.10	46.27	-	38.23	80.83	42.60
2 603.521)	-	Average	V				9.67	28.56	60.83	32.27
3 037.441)	43.02	Peak	Н				ı	39.55	80.83	41.28
3 037.441)	=	Average	Н	20.20	11.00		9.67	29.88	60.83	30.95
3 037.441)	43.00	Peak	V	30.20	11.90	45.57	-	39.53	80.83	41.30
3 037.441)	-	Average	V				9.67	29.86	60.83	30.97
3 471.361)	43.04	Peak	Н			_	1	40.67	80.83	40.16
3 471.361)	-	Average	Н				9.67	31.00	60.83	29.83
3 471.36 ¹⁾	42.64	Peak	V	30.60	12.60	45.57	-	40.27	80.83	40.56
3 471.36 ¹⁾	-	Average	V				9.67	30.60	60.83	30.23





Frequency (GHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Duty Factor	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)
3 905.28 ^{1), 2)}	45.37	Peak	Н				-	45.64	74.00	28.36
3 905.28 ^{1), 2)}		Average	Н				9.67	35.97	54.00	18.03
3 905.281), 2)	45.79	Peak	V	31.70	13.60	45.03	-	46.06	74.00	27.94
3 905.28 ^{1), 2)}	-	Average	V				9.67	36.39	54.00	17.61
4 339.201), 2)	43.77	Peak	Н				-	45.87	74.00	28.13
4 339.201), 2)	-	Average	Н				9.67	36.20	54.00	17.80
4 339.20 ^{1), 2)}	44.22	Peak	V	32.80	14.40	45.10	ı	46.32	74.00	27.68
4 339.201), 2)	ı	Average	V				9.67	36.65	54.00	17.35
4 773.121), 2)	45.87	Peak	Н				-	49.44	74.00	24.56
4 773.12 ^{1), 2)}	-	Average	Н	33.50			9.67	39.77	54.00	14.23
4 773.121), 2)	43.88	Peak	V		15.10	45.03	-	47.45	74.00	26.55
4 773.121), 2)	-	Average	V				9.67	37.78	54.00	16.22

Remark: "H": Horizontal, "V": Vertical

 $Total~(dB\mu V/m) = Reading~(dB\mu V) + Ant~Factor~(dB) + Cable~Loss~(dB) - Amp~Gain~(dB) - Duty~Factor~(dB) \\ Margin~(dB) = Limits~(dB\mu V/m) - Total~(dB\mu V/m)$

^{1):} Harmonic

^{2):} Restricted band





10. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
FSV40-N	R/S	Spectrum analyzer	101651	Apr. 16, 2021 (1Y)
ESR	Rohde & Schwarz	EMI Test Receiver	101470	Oct. 18, 2021 (1Y)
HLP-2008	TDK RF Solutions	TRILOG BROADBAND ANTENNA	131313	Feb. 21, 2022 (2Y)
310N	Sonoma Instrument	Pre-Amplifier	312544	Mar. 15, 2022 (1Y)
GP-4303D	LG Precision Co.,Ltd	DC POWER SUPPLY	5071069	Jan. 03, 2022 (1Y)
AH-118	Com-Power	Horn Antenna	10050061	Oct. 15, 2021 (1Y)
N/A	PHELCOM.CO	Band Reject Filter	N/A	Jan. 18, 2022 (1Y)
SCU 18	R/S	SIGNAL CONDITIONING UNIT	18040081	Jul. 14, 2021 (1Y)
CO3000	Innco Systems		N/A	N/A
DT5000	DT5000 Innco Systems Turn Table GmbH		N/A	N/A
MA-4000XPET	Innco Systems OOXPET GmbH Antenna Master		MA4000/509/37211215/L	N/A
FMZB 1513	Schwarzbeck	Loop Antenna	1513-235	Mar 24, 2020 (2Y)