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DATE: 20 January 2021

I.T.L. (PRODUCT TESTING) LTD.

FCC/IC Radio Test Report

for

Pointer Telocation

Equipment under test:

Asset Tracking Device

LV550

*See customer declaration starting on page 10

+

Tested by: _____
M. Zohar

Approved by: _____
D. Shidlowsky

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Measurement/Technical Report for

Pointer Telocation

Asset Tracking Device

LV550

FCC ID: 2AG69CTSO
IC: 9975A-CTSO

This report concerns:	Original Grant: Class I Change: X Class II Change:
Equipment type:	FCC: (DTS) Digital Transmission System IC: Spread Spectrum Digital Device (2400-2483.5 MHz)
Limits used:	47CFR15 Section 15.247 RSS 247, Issue 2, February 2017, Section 5 RSS-Gen, Issue 5, April 2018

Measurement procedure used is KDB 558074 D01 v05r03 and ANSI C63.10:2013 and RSS Gen, Issue 5

Application for Certification
prepared by:
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TABLE OF CONTENTS

1. GENERAL INFORMATION ---- 4
1.1 Administrative Information 4
1.2 List of Accreditations 5
1.3 Product Description 6
1.4 Test Methodology 6
1.5 Test Facility 6
1.6 Measurement Uncertainty 6

2. SYSTEM TEST CONFIGURATION ---- 7
2.1 Justification 7
2.2 EUT Exercise Software 8
2.3 Special Accessories 8
2.4 Equipment Modifications 8
2.5 Configuration of Tested System 8

3. CONDUCTED & RADIATED MEASUREMENT TEST SET-UP PHOTOS ---- 11

4. MAXIMUM CONDUCTED OUTPUT POWER ---- 14
4.1 Test Specification 14
4.2 Test Procedure 14
4.3 Test Limit 14
4.4 Test Results 14
4.5 Test Equipment Used; Maximum Peak Power Output 16

5. SPURIOUS RADIATED EMISSIONS ---- 17
5.1 Test Specification 17
5.3 FCC Test Limit 18
5.4 IC Test Limit 18
5.5 Test Results 19
5.6 Test Instrumentation Used; Emissions in Restricted Frequency Bands 21

6. APPENDIX A - CORRECTION FACTORS ---- 22
6.1 Correction factors for RF OATS Cable 35m ITL #1911 22
6.2 Correction factor for RF cable for Anechoic Chamber 23
6.3 Correction factors for Active Loop Antenna ITL # 1075: 24
6.4 Correction factors for biconical antenna ITL #1356 25
6.5 Correction factors for log periodic antenna ITL # 1349 26
6.6 Correction factors for Double –Ridged Waveguide Horn ANTENNA ITL # 1352 27
6.7 Correction factors for Horn Antenna Model: SWH-28 28

1. General Information

1.1 *Administrative Information*

Manufacturer:	Pointer Telocation
Manufacturer's Address:	14 Hamelacha, PO Box 11473 Rosh Haain, Israel Tel: +972 73 2622320
Manufacturer's Representative:	Igor Rogov
Equipment Under Test (E.U.T):	Asset Tracking Device
Equipment PMN:	LV550 (*See customer declaration starting on page 10)
Equipment Part No.:	Not designated
Equipment HVIN:	6001
Date of Receipt of E.U.T:	December 20, 2020
Start of Test:	December 20, 2020
End of Test:	December 21, 2020
Test Laboratory Location:	I.T.L (Product Testing) Ltd. 1 Batsheva St., Lod ISRAEL 7120101
Test Specifications:	FCC Part 15, Subpart C RSS 247, Issue 2, February 2017, Section 5 RSS-Gen, Issue 5 + A1, March 2019

1.2 *List of Accreditations*

The EMC laboratory of I.T.L. is accredited by the following bodies:

1. The American Association for Laboratory Accreditation (A2LA) (U.S.A.), Certificate No. 1152.01.
2. The Federal Communications Commission (FCC) (U.S.A.), FCC Designation No. IL1005.
3. The Israel Ministry of the Environment (Israel), Registration No. 1104/01.
4. Department of Innovation, Science and Economic Development (ISED) Canada, CAB identifier: IL1002.

I.T.L. Product Testing Ltd. is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this test report have been determined in accordance with I.T.L.'s terms of accreditation unless stated otherwise in the report.

1.3 *Product Description*

The LV550 is a standalone dual-powered “deploy and forget” unit for asset tracking and freight visibility, requiring no external power connection. Solar-powered, the LV550 comes with long lasting primary batteries that ensure extended years of maintenance free reliable performance; in addition, its wireless sensor connectivity provides measurements of the various environmental conditions (temperature, humidity, shock, etc.) of your cargo. The LV550, with its highly rugged durable enclosure sized to perfectly fit the grooves and ceilings of containers, is an ideal solution for containers, trailers or assets in remote locations and harsh conditions, where no other recharging or Cellular communication facilities exist.

In case of lack of Cellular connective, LV550 equipped with Iridium satellite transceiver , giving it ability to communicate anywhere across the globe.

1.4 Test Methodology

Both conducted and radiated testing was performed according to the procedures in KDB 558074 D01 v05r03 and ANSI C63.10: 2013, RSS Gen, Issue 5. Radiated testing was performed at an antenna to EUT distance of 3 meters.

1.5 *Test Facility*

Emissions tests were performed at I.T.L.’s testing facility in Lod, Israel. I.T.L.’s EMC Laboratory is accredited by A2LA, certificate No. 1152.01 and its FCC Designation Number is IL1005.

1.6 *Measurement Uncertainty*

Conducted Emission
Conducted Emission (CISPR 11, EN 55011, CISPR 22, EN 55022, ANSI C63.4)

0.15 – 30 MHz:
Expanded Uncertainty (95% Confidence, K=2):
± 3.44 dB

Radiated Emission
Radiated Emission (CISPR 11, EN 55011, CISPR 22, EN 55022, ANSI C63.4) for open site:

30-1000MHz:
Expanded Uncertainty (95% Confidence, K=2):
± 4.96 dB

1 GHz to 6 GHz
Expanded Uncertainty (95% Confidence, K=2):
±5.19 dB

>6 GHz
Expanded Uncertainty (95% Confidence, K=2):
±5.51 dB

2. System Test Configuration

2.1 *Justification*

1. The E.U.T. was originally FCC certified on 11/11/2019 under FCC ID: 2AG69CTSO and IC certified on 11/12/2019 under IC: 9975A-CTSO.
2. On 10/9/20 and 10/14/2020, a C2PC was issued for FCC and ISED respectively. The C2PC device had 2 marketing names: “CelloTrack Solar” and “LV500”.
3. Currently, C1PC changes were made to the C2PC device which will be known as LV550. See customers C1PC declaration on page 8.
4. A C1PC is requested based on those changes.
4. The E.U.T. met the requirements of a C1PC.
5. The E.U.T contains an IEEE 802.15.1 transceiver.
6. The unit was evaluated while transmitting at the low channel (2402MHz), the mid channel (2440MHz) and the high channel (2480MHz).
7. Conducted emission method was performed with the EUT connected to a spectrum analyzer via 30dB attenuator.
8. Final radiated emission test for spurious emission for the new model was performed after exploratory emission testing that was performed in 3 orthogonal polarities to determine the “worst case” radiation.
9. According to the following results, the “worst case” axis was the Y axis for all channels.

Orientation	Frequency (MHz)	2nd Harmonic (dBuV/m)	3rd Harmonic (dBuV/m)
X axis	2402.0	45.9(N.L)	46.7(N.L)
	2440.0	44.0(N.L)	45.9(N.L)
	2480.0	45.1(N.L)	46.2(N.L)
Y axis	2402.0	46.0(N.L)	46.7(N.L)
	2440.0	44.4(N.L)	46.0(N.L)
	2480.0	45.8(N.L)	47.0(N.L)
Z axis	2402.0	44.1(N.L)	44.8(N.L)
	2440.0	44.0(N.L)	45.7(N.L)
	2480.0	43.9(N.L)	46.1(N.L)

Figure 1. Screening Results

2.2 *EUT Exercise Software*

No special exercise software was used.

2.3 *Special Accessories*

No special accessories were used.

2.4 *Equipment Modifications*

No modifications were necessary in order to achieve compliance.

2.5 *Configuration of Tested System*

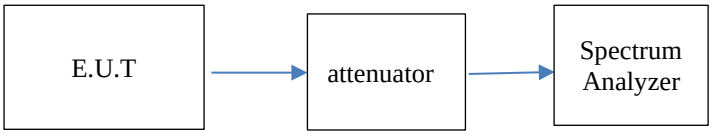


Figure 2. Configuration of Tested System Conducted

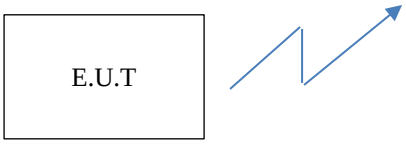


Figure 3. Configuration of Tested System Radiated

POINTER
by PowerFleet

January 17/01/ 2021

C1PC Declaration of Change

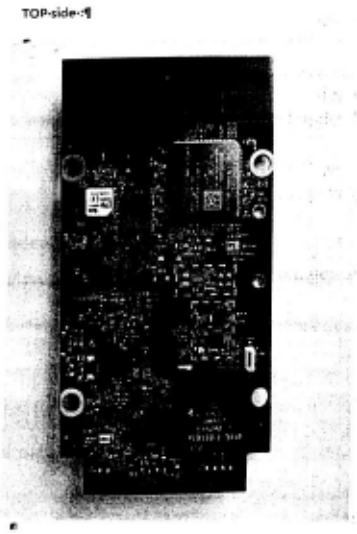
The E.U.T. was originally FCC certified on 11/11/2019 under FCC ID: 2AG69CTSO and ISED certified on 11/12/2019 under IC: 9975A-CTSO.

On 10/9/20 and 10/14/2020, a C2PC was issued for FCC and ISED respectively. The C2PC device had 2 marketing names: "CelloTrack Solar" and "LV500". They are identical other than in name.

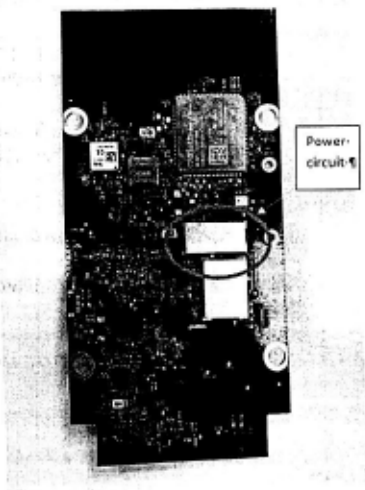
Currently, the following C1PC changes are made to the made to the C2PC device.
a. Iridium modem assembled;
b. Dedicated power components dedicated to the Iridium modem were added to the layout.

The new C1PC device will be known as the LV550.

C2PC EUT

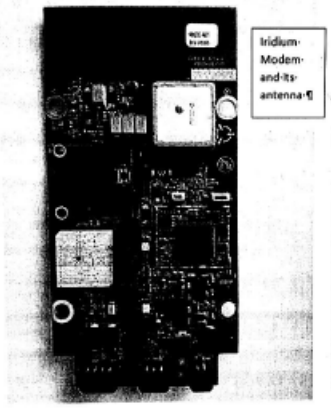


Current C1PC EUT

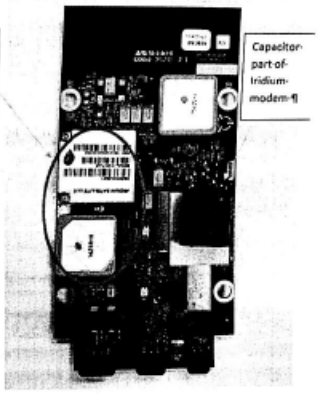


POINTER
by PowerFleet

C2PC EUT
Bottom-side



Current C1PC EUT



Igor Rogov
Igor Rogov, VP Engineering,
Pointer Telocation

3. Conducted & Radiated Measurement Test Set-Up Photos

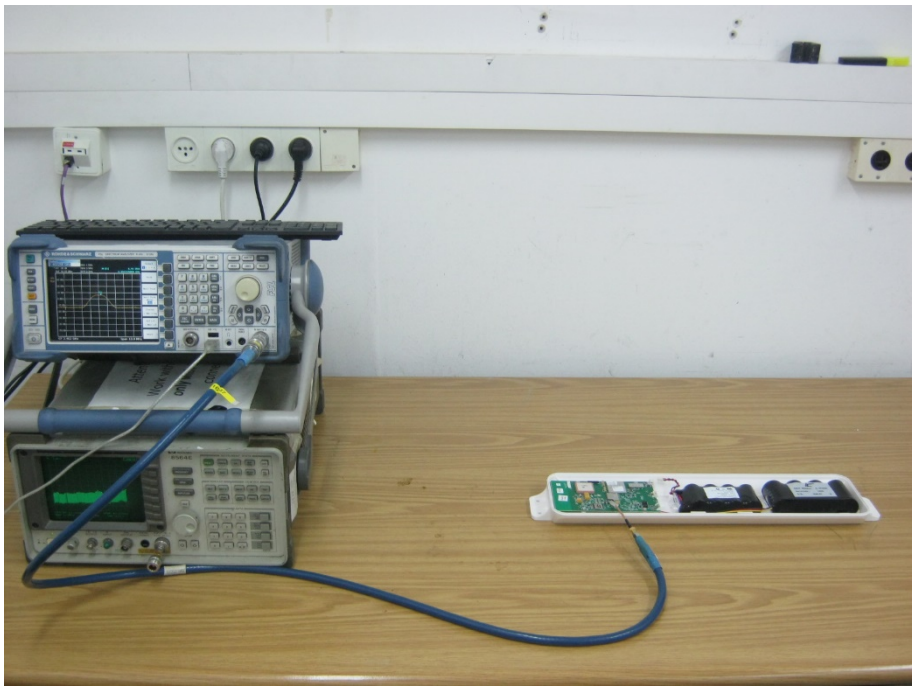


Figure 4. Conducted Emission Test

Figure 5. Radiated Emission Test, 0.009-30MHz

Figure 6. Radiated Emission Test, 30-200MHz

Figure 7. Radiated Emission Test, 200-1000MHz

Figure 8. Radiated Emission Test, 1-18GHz and Intermodulation Radiated Emission Test

Figure 9. Radiated Emission Test, 18-26.5GHz

4. Maximum Conducted Output Power

4.1 *Test Specification*

FCC, Part 15, Subpart C, Section 247(b)(3)

RSS 247, Issue 2, Section 5.4(d)

4.2 *Test Procedure*

(Temperature (20°C)/ Humidity (52%RH))

The E.U.T operation mode and test set-up are as described in Section 2 of this report.

The E.U.T. antenna terminal was connected to the Spectrum Analyzer through an external attenuator and an appropriate coaxial cable (total loss=30.5 dB). Special attention was taken to prevent Spectrum Analyzer RF input overload.

4.3 *Test Limit*

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

4.4 *Test Results*

Protocol Type	Operation Frequency (MHz)	Power (dBm)	Power (mW)	Limit (mW)	Margin (mW)
BLE	2402.0	4.2	2.63	1000.0	-997.37
	2440.0	4.3	2.69	1000.0	-997.31
	2480.0	4.1	2.57	1000.0	-997.43

Figure 10 Maximum Peak Power Output, New

JUDGEMENT: Passed by 997.31 mW

For additional information see *Figure 11* to *Figure 13.*

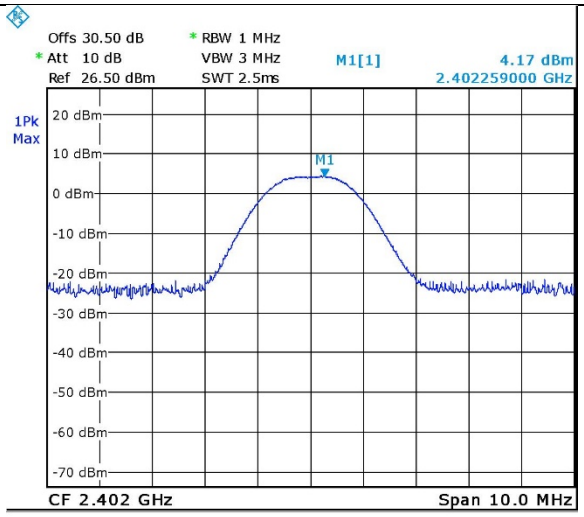


Figure 11. 2402.0 MHz, BLE

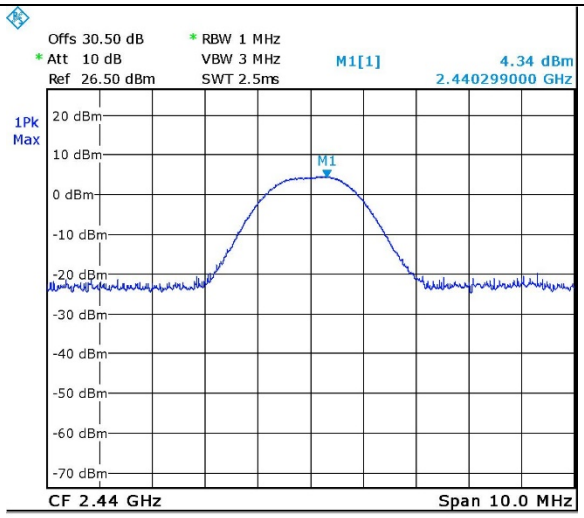


Figure 12. 2440.0 MHz, BLE

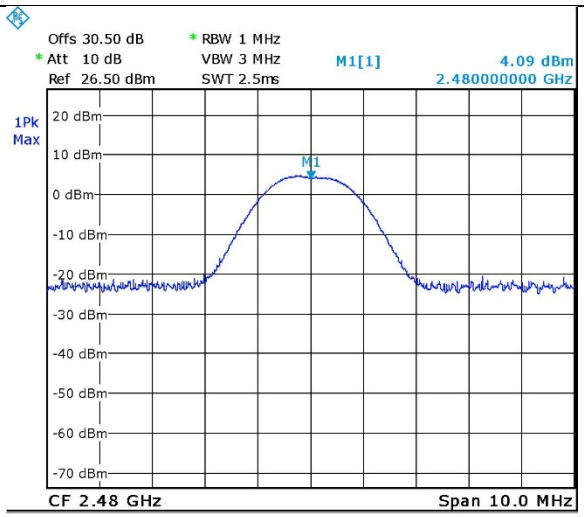


Figure 13. 2480.0 MHz, BLE

4.5 *Test Equipment Used; Maximum Peak Power Output*

Instrument	Manufacturer	Model	Serial No.	Last Calibration Date	Next Calibration Due
EMI Receiver	R&S	ESCI7	100724	March 9, 2020	March 31, 2021
30dB Attenuator	MCL	BW-S30W5	533	August 23, 2020	August 31, 2021
RF Cable	Huber Suhner	Sucofelex	28239/4PEA	December 24, 2018	December 31, 2020

Figure 14 Test Equipment Used

5. Spurious Radiated Emissions

5.1 *Test Specification*

FCC Part 15, Subpart C, Sections 15.209, 15.205, 15.247(d)

RSS 247, Issue 2, Section 3.3

RSS Gen, Issue 5, Section 8.10

5.2 *Test Procedure*

(Temperature (30°C)/ Humidity (52%RH))
The E.U.T. operation mode and test set-up are as described in Section 2 of this report.

For measurements between 0.009-30MHz:

The E.U.T was tested inside the shielded room and placed on a non-metallic table, 0.8 meters above the ground. The emissions were measured at a distance of 3 meters. The readings were maximized by the turntable azimuth between 0-360°, and the antenna polarization.
The frequency range 0.009MHz-30MHz was scanned.

For measurements between 30-1000MHz:
A preliminary measurement to characterize the E.U.T was performed inside the shielded room at a distance of 3 meters, using peak detection mode and broadband antennas. The preliminary measurements produced a list of the highest emissions. The E.U.T was then transferred to the open site, and placed on a remote-controlled turntable. The E.U.T was placed on a non-metallic table, 0.8 meters above the ground. The emissions were measured at a distance of 3 meters. The readings were maximized by adjusting the antenna height between 1-4 meters, the turntable azimuth between 0-360°, and the antenna polarization. The frequency range 30MHz -1000MHz was scanned and the list of the highest emissions was verified and updated accordingly.

For measurements between 1GHz-25GHz:

The E.U.T was tested inside the shielded room and placed on a non-metallic table, 1.5 meters above the ground. The emissions were measured at a distance of 3 meters. The readings were maximized by the turntable azimuth between 0-360°, and the antenna polarization.
The frequency range 1GHz -25GHz was scanned.

The highest radiation is described in the tables below.

5.3 *FCC Test Limit*

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement distance (meters)	Field Strength* (dBµV/m)	Field Strength* (dBµV/m)@3m
0.009-0.490	2400/F(kHz)	300	48.5-13.8	128.5-73.8
0.490-1.705	24000/F(kHz)	30	33.8-23.0	73.8-63.0
1.705-30.0	30	30	29.5	69.5
30-88	100	3	40.0	40.0
88-216	150	3	43.5	43.5
216-960	200	3	46.0	46.0
Above 960	500	3	54.0	54.0

*The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

Figure 15 Table of Limits

5.4 *IC Test Limit*

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Magnetic Field strength (microampere/meter)	Measurement distance (meters)	Magnetic Field strength (dBµA/m)	Magnetic Field strength * (dBµA/m)@3m
0.009-0.490	6.37/F(kHz)	300	-3.0-(-37.7)	77.0-42.2
0.490-1.705	63.7/F(kHz)	30	-17.7-(-28.5)	22.3-11.4
1.705-30.0	0.08	30	-21.9	18.0
Frequency (MHz)	**Field strength (microvolts/meter)**	**Measurement distance (meters)**	**Field strength (dBµV/m)**	**Field strength * (dBµV/m)@3m**
30-88	100	3	40.0	40.0
88-216	150	3	43.5	43.5
216-960	200	3	46.0	46.0
Above 960	500	3	54.0	54.0

*The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

5.5 *Test Results*

JUDGEMENT: Passed by 0.9 dB

For the operation frequency of 2402 MHz, the margin between the emission level and the specification limit is in the worst case 20.9 dB at the frequency of 2390.0 MHz, horizontal polarization.

For the operation frequency of 2440 MHz, the margin between the emission level and the specification limit is in the worst case 27.8dB at the frequency of 7320.0 MHz, horizontal polarization.

For the operation frequency of 2440 MHz, the margin between the emission level and the specification limit is in the worst case 26.8dB at the frequency of 7320.0 MHz, vertical polarization.

For the operation frequency of 2480 MHz, the margin between the emission level and the specification limit is in the worst case 0.9dB at the frequency of 2483.5 MHz, horizontal polarization.

The EUT met the requirements of the F.C.C. Part 15, Subpart C Sections 15.209, 15.205, 15.247(d) specifications.

The details of the highest emissions are given in *Figure 16.*

Radiated Emission

E.U.T Description Asset Tracking Device
Type LV550
Serial Number: Not designated

Specifications: FCC, Part 15, Subpart C, Sections 15.209, 15.205, 15.247(d)
RSS 247, Issue 2, Section 3.3; RSS Gen, Issue 5, Section 8.10

Antenna Polarization: Horizontal/Vertical Frequency Range: 9kHz to 25.0 GHz
Protocol Type: BLE Detector: Peak, Average

Operation Frequency	Freq.	Pol	Peak Reading	Peak Limit	Peak Margin	Average Reading	Average Limit	Average Margin
(MHz)	(MHz)	(H/V)	(dBµV/m)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2402.0	2390.0	V	52.3	74.0	-21.7	-	54.0	-
	2390.0	H	53.1	74.0	-20.9	-	54.0	-
	4804.0	V	45.0(N.L)	74.0	-29.0	-	54.0	-
	4804.0	H	45.4(N.L)	74.0	-28.6	-	54.0	-
2440.0	4880.0	V	45.1(N.L)	74.0	-28.9	-	54.0	-
	4880.0	H	45.0(N.L)	74.0	-29.0	-	54.0	-
	7320.0	V	47.2(N.L)	74.0	-26.8	-	54.0	-
	7320.0	H	46.9(N.L)	74.0	-27.1	-	54.0	-
2480.0	4960.0	V	45.6(N.L)	74.0	-28.4	-	54.0	-
	4960.0	H	45.1(N.L)	74.0	-28.9	-	54.0	-
	2483.5	V	63.0	74.0	-11.0	53.0	54.0	-1.0
	2483.5	H	63.0	74.0	-11.0	53.1	54.0	-0.9

(N.L)=noise level

Figure 16. Radiated Emission Results

Margin refers to the test results obtained minus specified requirement; thus a positive number indicates failure, and a negative result indicates that the product passes the test.

"Peak Amp" includes correction factor.

** "Correction Factor" = Antenna Factor + Cable Loss- Low Noise Amplifier Gain*

5.6 *Test Instrumentation Used; Emissions in Restricted Frequency Bands*

Instrument	Manufacturer	Model	Serial No.	Last Calibration Date	Next Calibration Due
EMI Receiver	R&S	ESCI7	100724	March 9, 2020	March 31, 2021
EMI Receiver	HP	8542E	3906A00276	March 11, 2020	March 31, 2021
RF Filter Section	HP	85420E	3705A00248	March 11, 2020	March 31, 2021
Spectrum Analyzer	HP	8593EM	3826A00265	March 9, 2020	March 31, 2021
Active Loop Antenna	EMCO	6502	9506-2950	February 15, 2019	February 28, 2021
Biconical Antenna	EMCO	3110B	9912-3337	May 21, 2019	May 31, 2021
Log Periodic Antenna	EMCO	3146	9505-4081	May 31, 2018	May 31, 2021
Horn Antenna	ETS	3115	29845	May 31, 2018	May 31, 2021
Horn Antenna	ARA	SWH-28	1007	December 31, 2017	December 31, 2020
Low Noise Amplifier 1GHz-18GHz	Miteq	AFSX4-02001800-50-8P	-	July 12, 2020	July 31, 2021
RF Cable Chamber	Commscope ORS	0623 WBC-400	G020133	December 24, 2018	December 31, 2020
RF Cable Oats	EIM	RG214-11N(X2)		May 26, 2019	May 30, 2021
Filter Band Pass 4-20 GHz	Meuro	MFL040120H50	902252	December 24, 2018	December 31, 2020
Semi Anechoic Civil Chamber	ETS	S81	SL 11643	NCR	NCR
Antenna Mast	ETS	2070-2	9608-1497	NCR	NCR
Turntable	ETS	2087	-	NCR	NCR
Mast & Table Controller	ETS/EMCO	2090	9608-1456	NCR	NCR

Figure 17 Test Equipment Used

6. APPENDIX A - CORRECTION FACTORS

6.1 *Correction factors for RF OATS Cable 35m ITL #1911*

Frequency (MHz)	Cable loss (dB)
1.00	0.5
10.00	1.0
20.00	1.34
30.00	1.5
50.00	1.83
100.00	2.67
150.00	3.17
200.00	3.83
250.00	4.17
300.00	4.5
350.00	5.17
400.00	5.5
450.00	5.83
500.00	6.33
550.00	6.67
600.00	6.83
650.00	7.17
700.00	7.66
750.00	7.83
800.00	8.16
850.00	8.5
900.00	8.83
950.00	8.84
1000.00	9

6.2 *Correction factor for RF cable for Anechoic Chamber ITL #1840*

Frequency (GHz)	loss Result (dB)
0.5	-1.0
1.0	-1.4
1.5	-1.7
2.0	-2.0
2.5	-2.3
3.0	-2.6
3.5	-2.8
4.0	-3.1
4.5	-3.3
5.0	-3.6
5.5	-3.7
6.0	-4.0
6.5	-4.4
7.0	-4.7
7.5	-4.8
8.0	-5.0
8.5	-5.1
9.0	-5.6
9.5	-5.8
10.0	-6.0
10.5	-6.2
11.0	-6.2
11.5	-6.0
12.0	-6.0
12.5	-6.1
13.0	-6.3
13.5	-6.5
14.0	-6.7
14.5	-7.0
15.0	-7.3
15.5	-7.5
16.0	-7.6
16.5	-8.0
17.0	-8.0
17.5	-8.1
18.0	-8.2
18.5	-8.2
19.0	-8.3
19.5	-8.6
20.0	-8.5

NOTES:

1. *The cable is manufactured by Commscope*
2. *The cable type is 0623 WBC-400, serial # G020132 and 10m long*

6.3 *Correction factors for Active Loop Antenna ITL # 1075:*

f(MHz)	MAF(dBs/m)	AF(dB/m)
0.01	-33.1	18.4
0.02	-37.2	14.3
0.03	-38.2	13.3
0.05	-39.8	11.7
0.1	-40.1	11.4
0.2	-40.3	11.2
0.3	-40.3	11.2
0.5	-40.3	11.2
0.7	-40.3	11.2
1	-40.1	11.4
2	-40	11.5
3	-40	11.5
4	-40.1	11.4
5	-40.2	11.3
6	-40.4	11.1
7	-40.4	11.1
8	-40.4	11.1
9	-40.5	11
10	-40.5	11
20	-41.5	10
30	-43.5	8

6.4 *Correction factors for biconical antenna ITL #1356*

Frequency [MHz]	ITL 1356 AF [dB/m]
30	14.77
35	13.46
40	12.57
45	11.62
50	10.87
60	9.19
70	9.52
80	9.55
90	9.27
100	10.20
120	11.18
140	12.02
160	12.62
180	13.44
200	14.82

6.5 *Correction factors for log periodic antenna ITL # 1349*

Frequency [MHz]	ITL 1349 AF [dB/m]
200	11.31
250	11.85
300	14.47
400	15.12
500	17.69
600	18.45
700	20.52
800	20.77
900	21.97
1000	23.21

6.6 *Correction factors for Double –Ridged Waveguide Horn ANTENNA ITL # 1352*

FREQUENCY (GHz)	AFE (dB/m)	FREQUENCY (GHz)	AFE (dB/m)
0.75	25	9.5	38
1.0	23.5	10.0	38.5
1.5	26.0	10.5	38.5
2.0	29.0	11.0	38.5
2.5	27.5	11.5	38.5
3.0	30.0	12.0	38.0
3.5	31.5	12.5	38.5
4.0	32.5	13.0	40.0
4.5	32.5	13.5	41.0
5.0	33.0	14.0	40.0
5.5	35.0	14.5	39.0
6.0	36.5	15.0	38.0
6.5	36.5	15.5	37.5
7.0	37.5	16.0	37.5
7.5	37.5	16.5	39.0
8.0	37.5	17.0	40.0
8.5	38.0	17.5	42.0
9.0	37.5	18.0	42.5

6.7 *Correction factors for Horn Antenna Model: SWH-28*

CALIBRATION DATA

3 m distance

Frequency, MHz	Measured antenna factor, dB/m [1]
18000	32.4
18500	32.0
19000	32.3
19500	32.4
20000	32.3
20500	32.8
21000	32.8
21500	32.7
22000	33.1
22500	33.0
23000	33.1
23500	33.8
24000	33.5
24500	33.5
25000	33.8
25500	33.9
26000	34.2
26500	34.7

[1] The antenna factor shall be added to receiver reading in dBµV to obtain field strength in dBµV/m.