

FCC & ISED Test Report

For

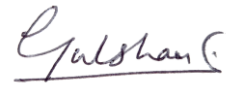
IM11-PRT RFID Module

Version 2.0

Prepared By : Lavanya M

Report Revision History

REVISION HISTORY			
Date	Document Version	Revision Description	Author
06-11-2024	1.0	Initial Issue of Test Report	Lavanya M
03-12-2024	2.0	TCB Review Comments	Lavanya M

Laboratory CAB / registration no	FCC : 352470	ISED: IN0001	
Lab Report Number:	EMC 660		
Test Item / Product Marketing Name (PMN)	PMN : IM11-PRT RFID Module		
Sample Identification:	HVIN: IM11-PRT		
	Serial number: 20812275029		
	Hardware Version: 145-549-006, Rev B		
	Firmware Version (FVIN) : U-Boot 2009.11-dity		
Requester name:	Jiang, Cindy		
Date of Receipt of Sample:	29-Oct-2024		
Condition of Sample on receipt:	Good		
Requester Address:	HONEYWELL INTERNATIONAL INC		
	9680 Old Bailes Rd, Fort Mill		
	South Carolina (SC) 29707, USA		
Testing Laboratory:	EMC LAB, Honeywell Technology Solutions Lab Pvt Ltd		
Address:	RMZ ECOWORLD INFRASTRUCTURE PVT. LTD.,		
	Survey # 19/2, Devarabisanahalli Village,		
	Varthur Hobli, Bangalore East Taluk, Bangalore – 560103		
Test Dates:	29-10-2024 to 05-11-2024		
Applicable Standard:	FCC Part 15 Subpart C 15.247, 15.207 RSS 247 Issue 3, RSS Gen Issue 5		
Test Results:	PASS		
FCC ID and IC	FCC ID: HD5-IM11R	IC : 1693B-IM11R	
Prepared By: Test Engineer Name: Lavanya M  Signature: Date: 03-12-2024			
Reviewed By (Name): Raju Jogadande  Signature: Date: 03-12-2024			
Authorized Signatory: Technical Manager Name: Gulshan Kumar  Signature: Date of Issue: 03-12-2024			
This Report relates to the above-mentioned test sample only. Without the approval of Lab manager, this report shall not be reproduced except in full.			

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Test Summary

Below is the summary of Test Results performed on IM11 RFID Module

Sl. No	Test	FCC	IC	Result
1	Maximum Conducted (Peak) Output Power	15.247 (b)(2)	RSS-247 issue 2, 5.4 (a)	Pass
2	Occupied Bandwidth (20dB)	15.247 (a) (1) (i)	RSS-247 issue 2, 5.1 (c)	N/A
3	Occupied Bandwidth (99 %)	15.247 (a) (1) (i)	RSS-247 issue 2, 5.1 (c)	N/A
4	Number of Hopping channels	15.247 (a) (1) (i)	RSS-247 issue 2, 5.1 (c)	N/A
5	Carrier Frequency Separation	15.247 (a) (1)	RSS-247 issue 2, 5.1 (b)	N/A
6	Time of Occupancy (Dwell Time)	15.247 (a) (1) (i)	RSS-247 issue 2, 5.1 (c)	N/A
7	Emissions in non-restricted frequency bands and Conducted Spurious Emission	15.247 (d)	RSS-247 issue 2, 5.5	N/A
8	Spurious Radiated Emissions, Band edge and Restricted Bands of Operation	15.247 (d) / (15.209 & 15.205)	RSS-GEN issue 5, Clause 8.9, 8.10	PASS
9	Conducted Emissions on Power Lines	FCC 15.207	RSS-Gen Issue 5,Section 8.8	N/A

N/A = Not applicable. The module is already certified. The current scope is limited to addition of another RFID coupler to the existing RFID module which is already certified with FCC ID : HD5-IM11R, IC : 1693B-IM11R

All Other test cases shall be referred in Refer Test Report # ULR-TC568820300000067F, ULR-TC568819300000067F

Related Documents to this Report

Below documents are Issued separately shall be referred along with this report.

1. TEST SETUP PHOTOS
2. MAXIMUM PERMISSIBLE EXPOSURE INFORMATION
3. ANTENNA DETAILS

Product Details

Product Function and Intended Use

IM11-PRT module is a UHF RFID Module built to suit nearly any product but is especially suited for use in mobile computers and tablets, fixed position readers, handheld scanners, and diagnostic equipment. With an enhanced radio frequency (RF) design, the Honeywell IM11-PRT is one of the smallest and most cost-effective high-performance UHF reader modules available today with industry very good sensitivity which helps in long read & write range. Providing RF output power up to 1 Watt (30 dBm) and superior receiver performance, the IM11-PRT offers exceptional flexibility for medium to long-range applications

RF Communication Details

OPERATING FREQUENCY RANGE	902MHz to 928MHz
COMMUNICATION PROTOCOL	RFID (Radio Frequency Identification Device)
PROTOCOL	EPC Class 1 Gen 2 Protocol, ISO 18000-6C
MODULATION TYPE	PR-ASK
DATA ENCODING	DRM (Dense Reader mode)
DATA RATE / READ RATE	320 kbps
NO. OF CHANNELS	50
CHANNEL SPACING	500KHz
TRANSMIT POWER	24 dBm for Lupus14v2 Coupler
MAXIMUM PEAK CONDUCTED POWER (MEASURED)	24.02dBm (maximum conducted power) for Lupus14v2 coupler
NO. OF ANTENNA PORTS	2
NO. OF ANTENNA'S /COUPLERS	1
MODE OF OPERATION	SISO mode only (either Antenna Port 1 or Antenna Port 2 at a time)

Antenna Details

Below is the list of UHF RFID couplers added to the RFID module

Sl. No	Ant / Coupler	Make	Model	Max Gain (dBi)
3	RFID coupler	Honeywell	LUPUS14V2	-14.0

Environment and Dimensions

SUPPLY VOLTAGE	2.4vdc to 5.2vdc
STORAGE	-40° to 70° C (-40° to 158° F), 25 °C to 60 °C, 0% to 95% relative humidity, noncondensing
OPERATING	-20° to 60° C (-4° to 140° F) 25 °C to 60 °C, 0% to 95% relative humidity, noncondensing
DIMENSIONS	50.95mm (L)x 30mm(W)x 4.78mm(H)

Input and Output Ports

Sl. No	Port Name	Port Type	Cable Length	Cable Type	Remarks / Observations
01	Power + Communication Port	+5VDC	<1m	USB cable	...

EUT Details and Operating Mode

Operating Mode

Transmission was enabled with highest possible duty cycle transmission on low, mid and high channel

Hardware and Software Versions

Version Details	
Hardware version : 145-549-006, Rev B	Software/Firmware version : U-Boot 2009.11-dity

Auxiliary Equipment & accessories

Test laptop, USB cable, DC Power Supply

Operating Frequency List

Allowed Frequency Band	Channel No.	Frequency (MHz)
Sub GHz Band 902-928MHz	05	902.75MHz
	:	:
	30	915.250MHz
	:	:
	54	927.250MHz

Operational Description

The module supports a full 1 Watt of output power, twice as much as many small form factor competitive modules. The IM11-PRT module is based on the latest RF technology to provide a superior read rate with low power consumption and low-voltage operation, helping to extend the battery life of mobile devices. The IM11-PRT also supports a wide frequency range, 860-928 MHz, enabling the module to be certified in nearly any regulatory region

Test Methodology

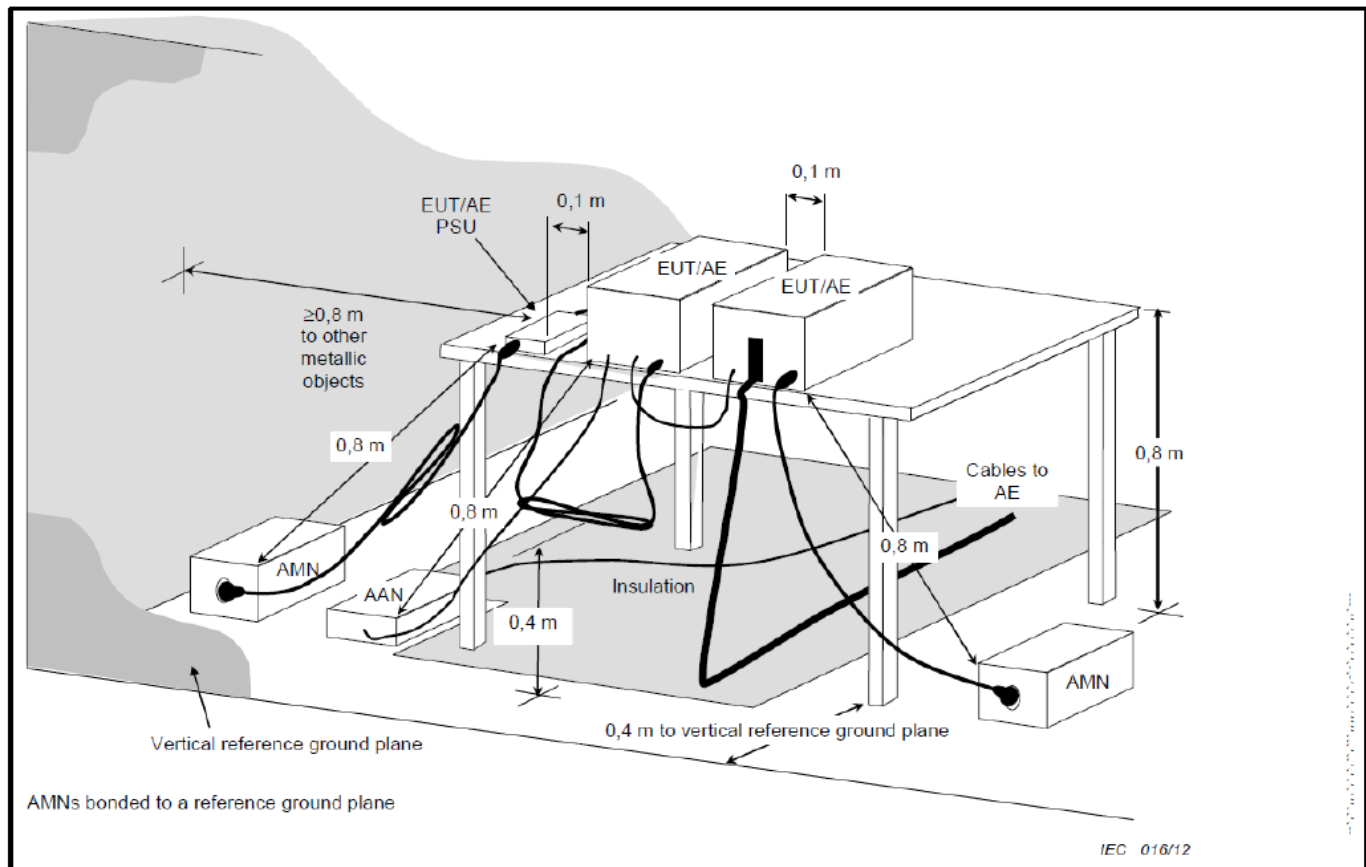
Conducted Spurious Emissions

Measured Conducted Emission levels of ac powerline conduct using the 50Ω LISN port (to which the EUT is connected). All emission voltage is made on each current-carrying conductor port (i.e. Line and Neutral) at the plug end of the EUT power cord using mating plugs and receptacles on the LISN. Equipment is tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer.

The Device Under Test and Associated equipment are placed on the test table on the test table, raised 80cm above the reference ground plane. The vertical conducting plane is located 40cm to the rear of the device. AC Conducted emission measurement is made over frequency range from 150kHz to 30MHz, this measurement was performed with EUT powered with an AC to DC adaptor with 110V AC 60Hz supply

Test Setup and Configuration

Test Setup shall be made in accordance with below picture.



Radiated Emission Test

The radiated emission measurement was performed according to the procedures in ANSI C63.10-2013. The equipment under test (EUT) was placed at the middle of the 80 cm high turntable for below 1 GHz & 1.5 m height for above 1 GHz measurement.

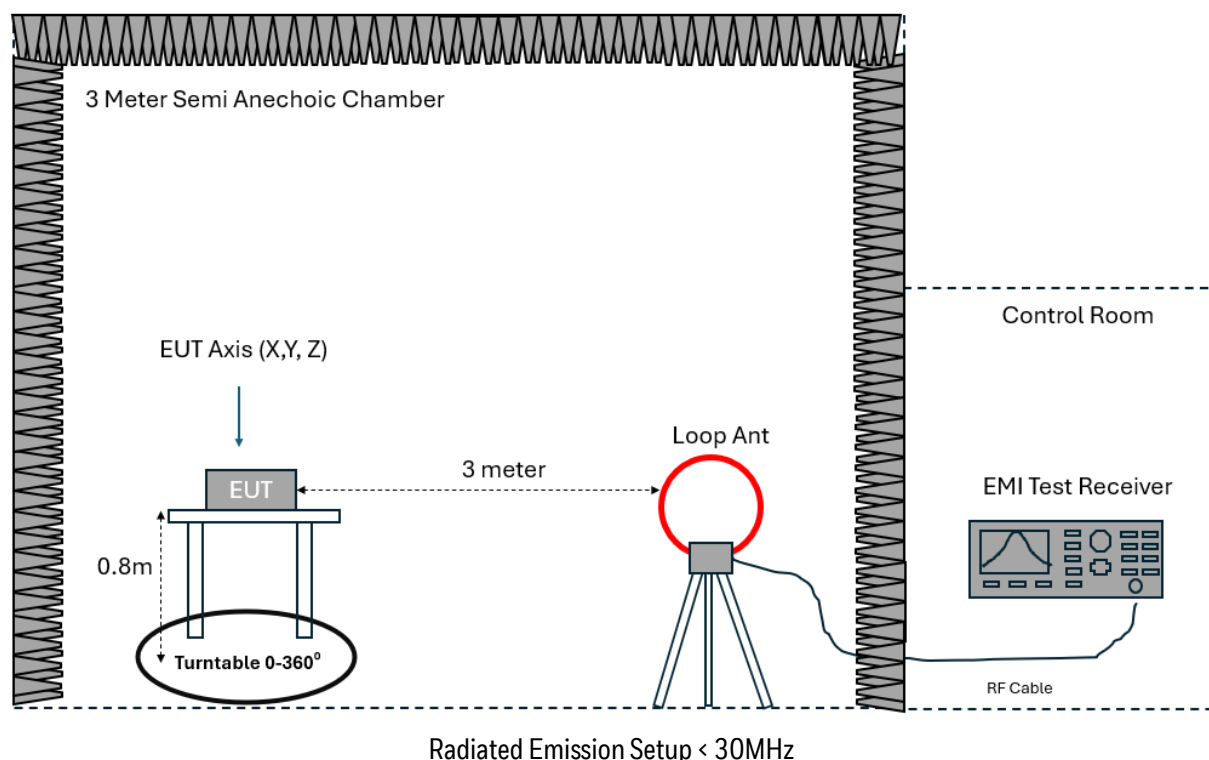
The EUT was kept at 3 meter away from the Measuring Antennas in a 3 meter semi anechoic chamber. The turntable was rotated from 0° - 360° for obtaining the maximum emission. The EUT was rotated around the X-, Y-, and Z-Axis and the results from worst case axes are recorded

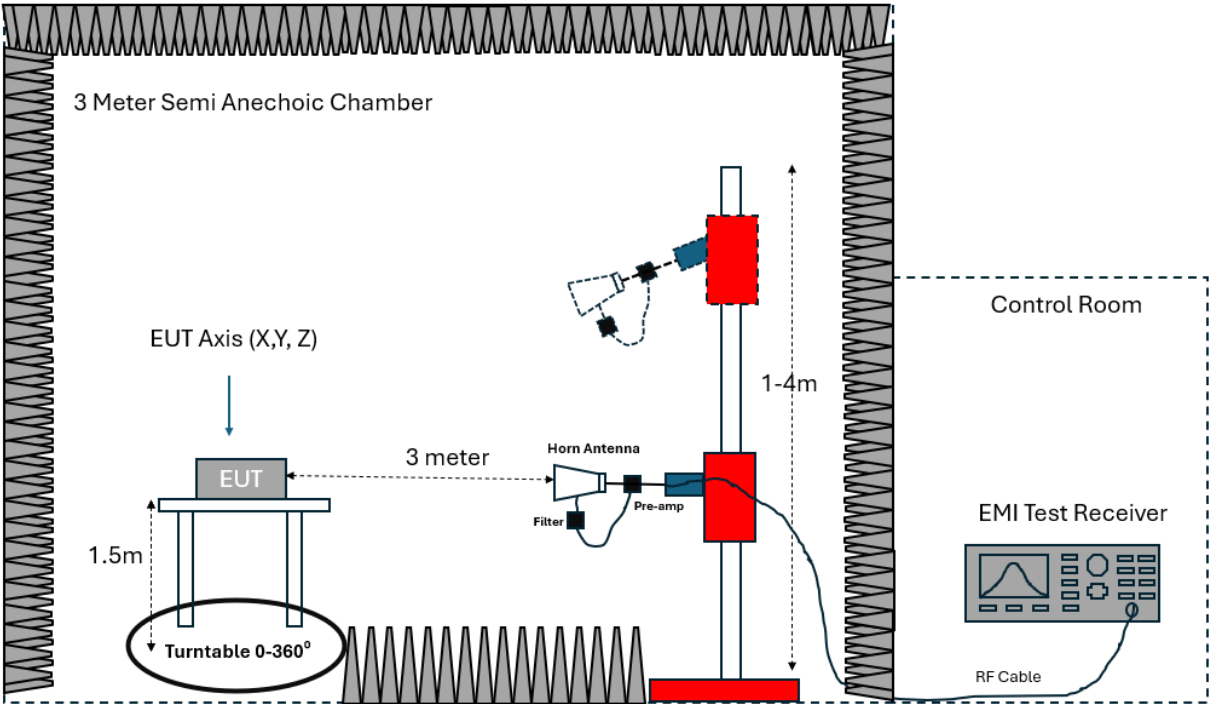
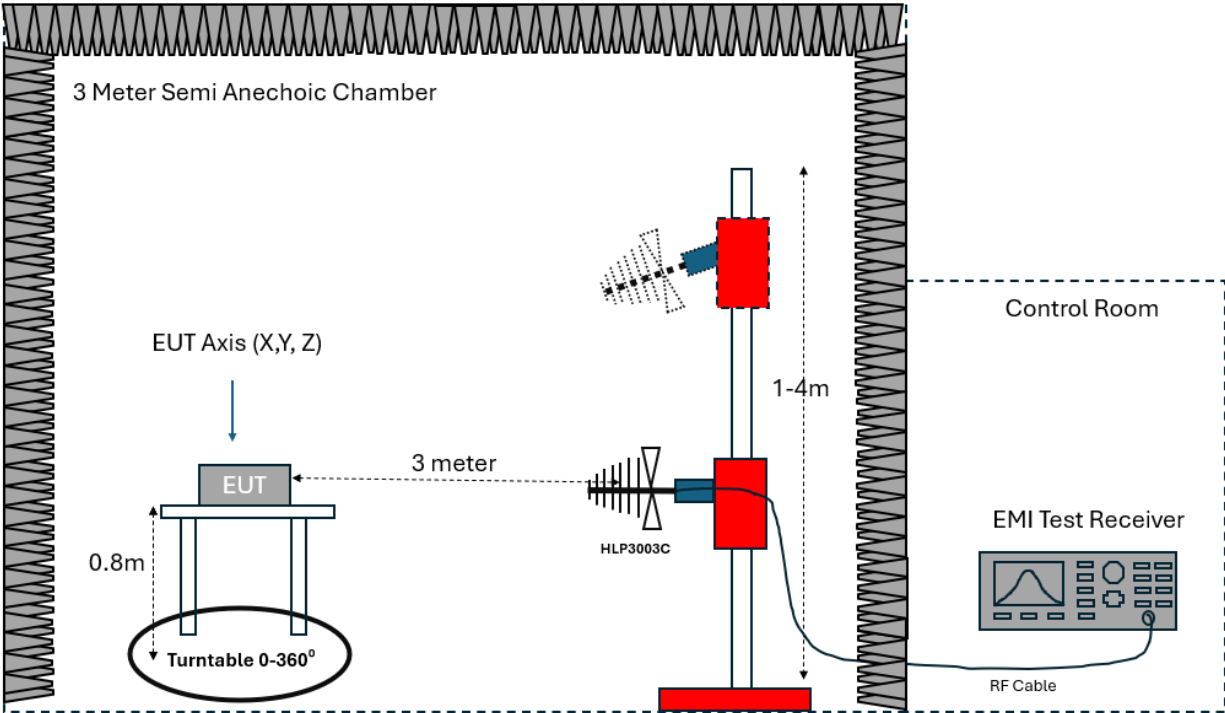
The height of the measuring antennas was scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Test is repeated until the maximum emissions were obtained.

The measurement above 1000 MHz was performed by Horn antenna, The measurement below 30 MHz was performed by loop antenna, Measurement from 30 MHz to 1GHz was performed by Biconical-log periodic antenna.

Test Setup Arrangements

Below are the details of EUT test setup done in 3 meter semi anechoic chamber.





Test Equipment Lists

Below is the list of equipment's used for testing.

Test Category	Item Name / Description	Make	Model	Sl. No	Cal Due Date
Radiated Spurious Emissions	3 meter Semi anechoic Chamber	ETS LINDGREN	DKE 6X7 DBL.DR	1625	30-Jan-2027
	EMI Test Receiver	R&S	ESU26	100229	03-Dec-2024
	Bi Log Antenna	TDK	HLP3003C	130524	12-Nov-2025
	Bi Log Antenna	TDK	HLP3003C	130525	26-July-2026
	Double Ridge Guide Horn Antenna	ETS LINDGREN	3117	00119022	08-Nov-2025
	Double Ridge Guide Horn Antenna	ETS LINDGREN	3117	00064055	24-July-2026
	Signal Conditioning unit	R&S	SCU-18F	180059	21-Mar-2025
	Loop Antenna	ETS LINDGREN	6502	00201679	11-Nov-2025
	RE Cable 1 & 2	A.H Systems	SAC-26G-2 & SAC-26G-3	496 & 494	25-Mar-2025
	Notch / High Pass Filter	Wain Wright	WHKX1.5/15G-12ST	01	29-Jun-2026
Antenna Port (s) Conducted Test	Signal Analyzer	R&S	FSV3044	101263	27-Jun-2025
	RF Cable (N-Male to N-Male)	Huber+Suhner	1955326	2013507	26-Jun-2025
	RF Cable (N-Male to SMA-Male)	Junkosha	MWX221	2203S736	25-Jun-2025
	RF Cable - 40 GHz - 0.5Mtrs	Junflon	J12J102453-00	RF1-0.5M	25-Jun-2025
	RF Cable - 40 GHz - 3Mtrs	Junflow	J12J102453-00	RF3-3M	25-Jun-2025
	RF Cable - 40 GHz - 3Mtrs	Junflow	J12J102453-00	RF2-3M	25-Jun-2025
	Notch / High Pass Filter	Wain Wright	WHKX1.5/15G-12ST	01	29-Jun-2026
	Attenuator 20dB	Weinschel	F4M-20	M8648	29-Jun-2025
	Vector Signal Generator	R&S	SMM 100A	101741	30-Jun-2025
	Signal Generator(100KHz to 40GHz)	R&S	SMB 100A	183054	30-Jun-2025

Instrument Application / Software's

Sl No.	Test Type	Version Details
01	EMC32 Software for Radiated Spurious Emissions	Version 10.60.20
02	EMC32 Software for Conducted Emission test on AC mains	Version 10.60.20

Measurement Uncertainty (Uc)

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$

SI No.	Parameter	Uncertainty Value
01	Occupied Channel Bandwidth	$\pm 5 \%$
02	RF output power, conducted	$\pm 1.4 \text{ dB}$
03	Power Spectral Density, conducted	$\pm 1.4 \text{ dB}$
04	Spurious / Unwanted Emissions, conducted	$\pm 3.0 \text{ dB}$
05	Radiated Spurious Emissions <1GHz	4.3 dB
06	Radiated Spurious Emission > 1GHz	5.5dB
07	Temperature	$\pm 3^\circ\text{C}$
08	Supply Voltages	$\pm 5 \%$

Decision rule applied.

SI No.	Decision rule applied
☒	Measurement Uncertainty is not accounted while reporting statement of conformity to specification / standard. (shared risk)
☐	Measurement uncertainty is accounted, and results reported as per ILAC-G8 guidelines

1. Maximum (Peak) Conducted Power

Test was performed on the antenna Port of EUT to evaluate the maximum Peak Output Power meets the specifications defined in the standard. Below are the details of the test.

General Information

EUT NOMENCLATURE	IM11-PRT RFID Module
MODEL NO.	IM11-PRT
SERIAL NO.	20812275029
TESTED BY	Lavanya M
TEST DATES	05-11-2024

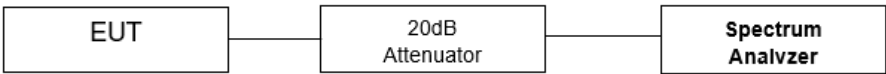
Test Conditions

TEST VOLTAGE	+5.0VDC
ENVIRONMENT COND.	Temperature : 23.2°C, Humidity : 64% RH
TEST CONFIGURATION	EUT Supplied with 5.0VDC from Laptop USB Port and Configured to Transmit continuously.
OPERATING MODE	Continuous Tx mode – Hopping Disabled Condition
DEVIATIONS FROM STD.	N/A

Test Specifications

TEST STANDARD	FCC part 15 Subpart C 15.247 (b)(2) / RSS-247 issue 3, 5.4 (a)
TEST SPECIFICATIONS	Section 9(b) in KDB 558074 D01 15.247 Measurement Guidance v05r02 & Subclause 7.8.5 of ANSI C63.10 :2020
TEST REQUIREMENT	Power ≤ 1 W (30 dBm) & e.i.r.p ≤ 4 W (36dBm)

Test Details

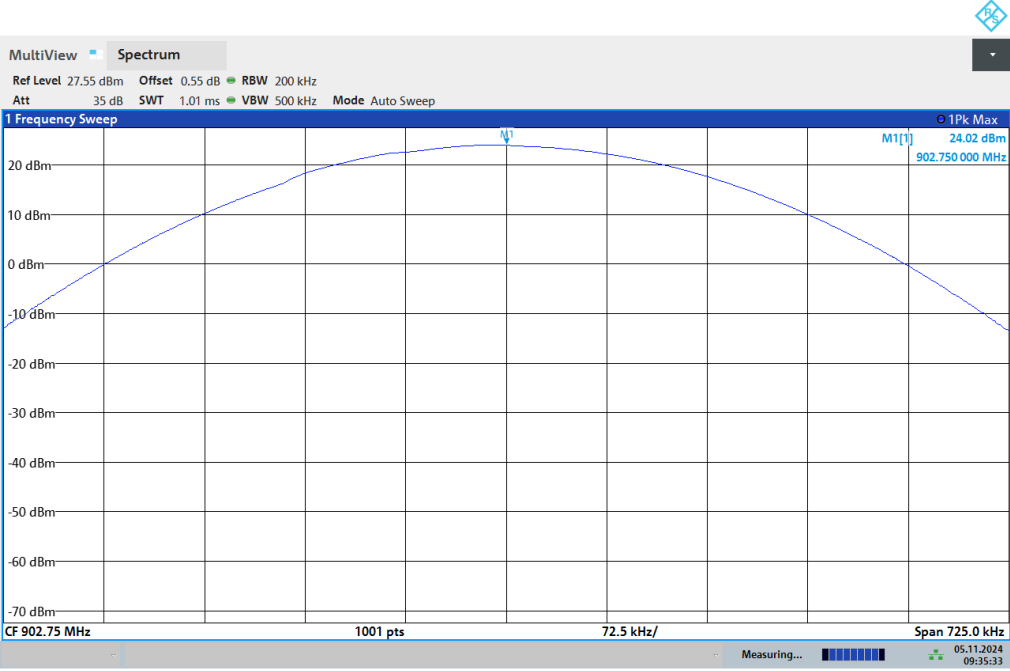
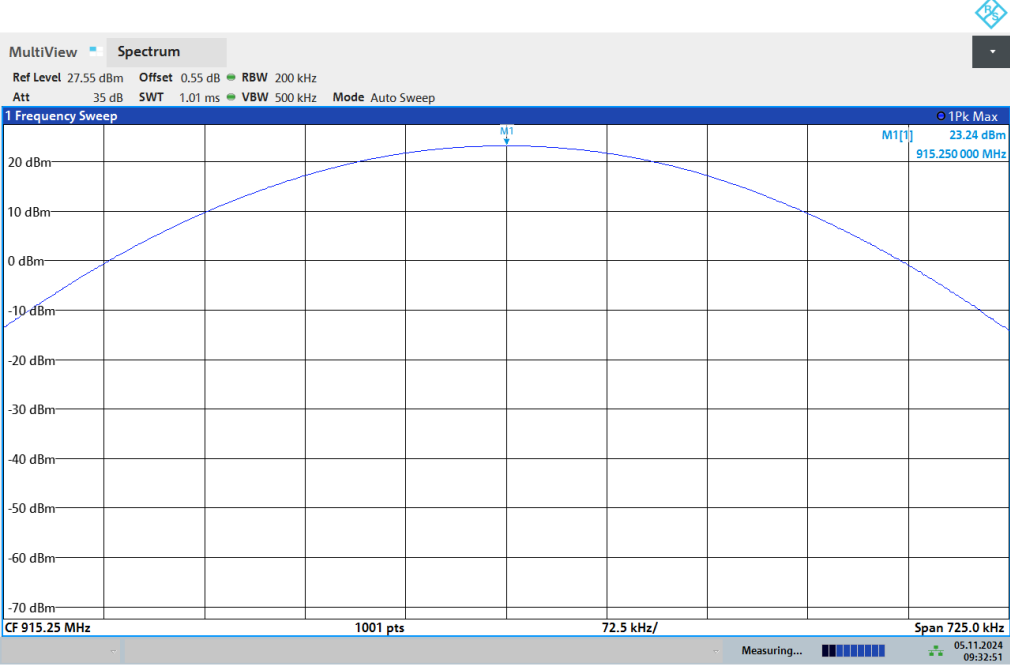
TEST METHOD	☒ Conducted ☐ Radiated	
TEST PORT	ANTENNA PORT (1 & 2)	
DETECTOR USED	Peak Detector – Max Hold	
TEST INSTR. BANDWIDTH	RBW : 200KHz (RBW > 20 dB bandwidth)	VBW :500KHz (VBW $\geq$ RBW)
TEST CONNECTION.	 <pre> graph LR EUT[EUT] --- A[20dB Attenuator] --- SA[Spectrum Analyzer] </pre>	
RADIATED TEST PARAMETERS.	Measurement Distance	: N /A
	Antenna Height	: N/A
	Turntable rotation	: N/A
	Equipment Class	: N /A

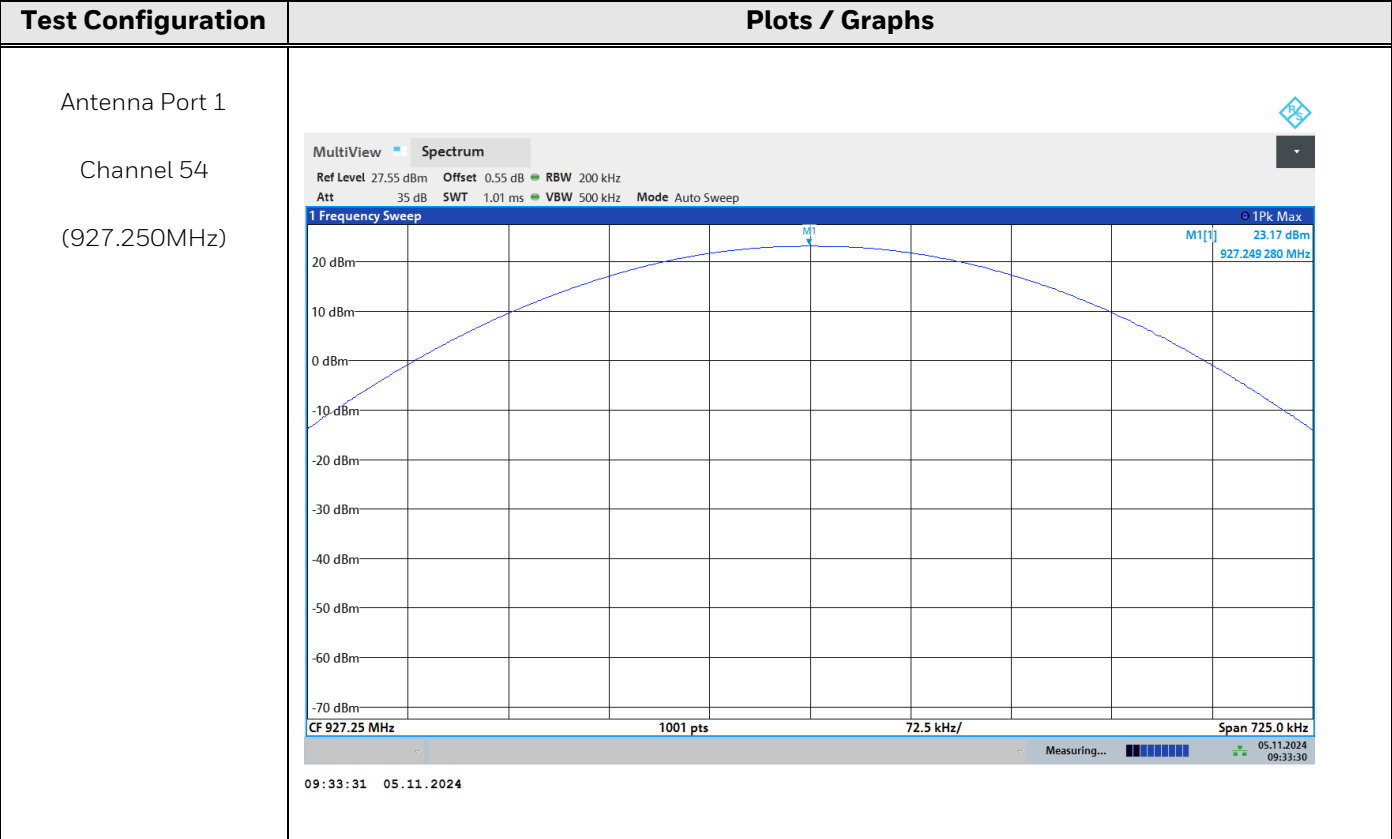
Test Results

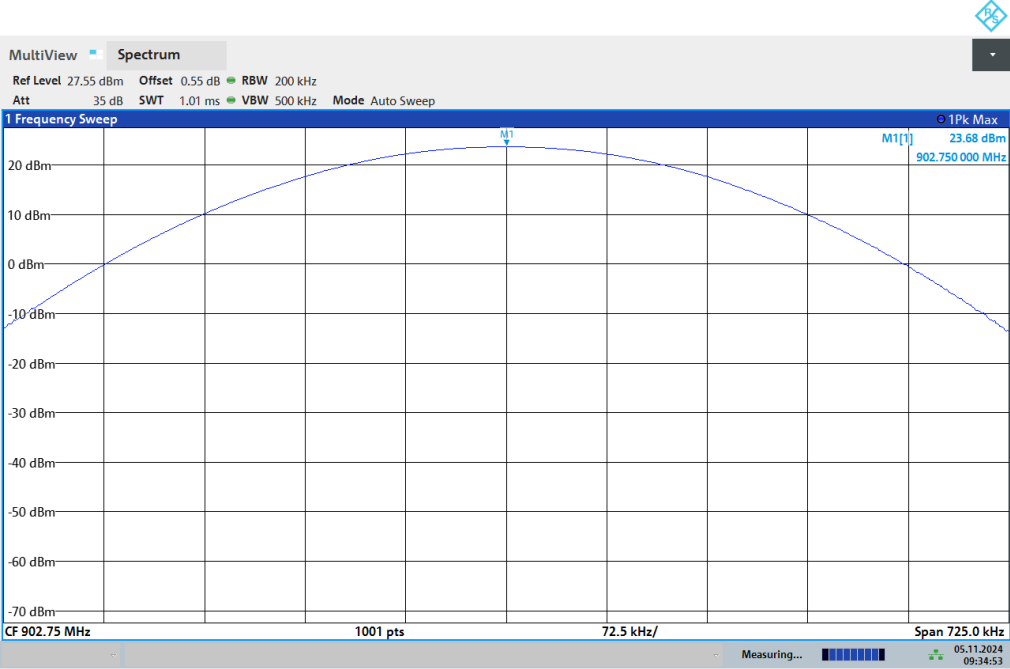
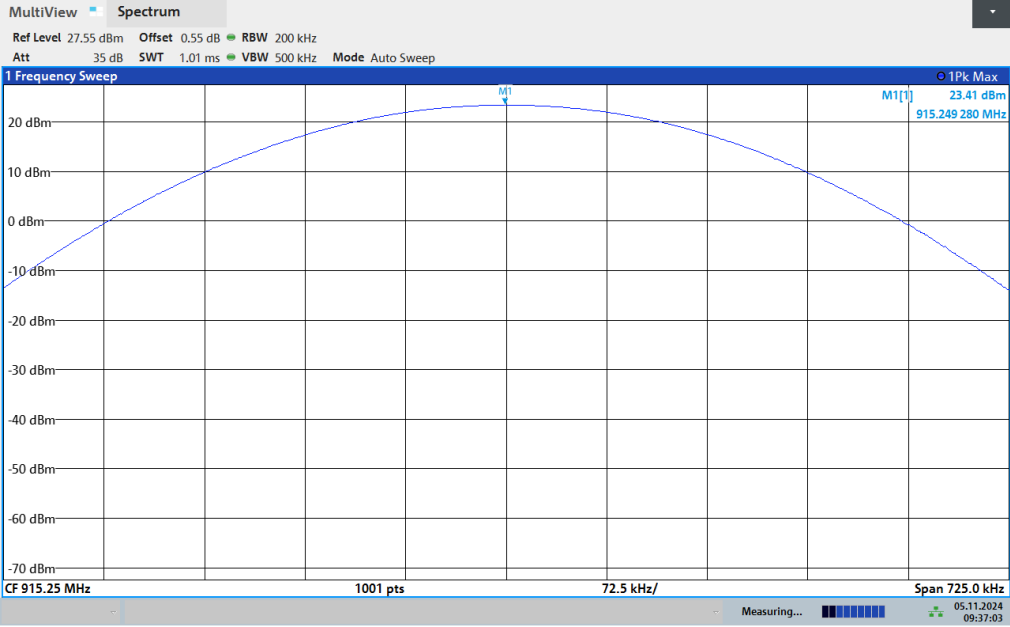
Serial No	Antenna Port (1/2)	Channel No.	Channel Frequency MHz	Power Set in Module (dBm)	Measured Conducted Peak Power (dBm)	Maximum (E.I.R.P) Limit (dBm)	Conducted Power Limit (dBm)	E.I.R.P Limit (dBm)	Test Results
1	Ant Port 1	CH05	902.750	24.0	24.02	10.02	30.0	36.0	PASS
2	Ant Port 1	CH30	915.250	24.0	23.24	9.24	30.0	36.0	PASS
3	Ant Port 1	CH54	927.250	24.0	23.17	9.17	30.0	36.0	PASS
4	Ant Port 2	CH05	902.750	24.0	23.68	9.68	30.0	36.0	PASS
5	Ant Port 2	CH30	915.250	24.0	23.41	9.41	30.0	36.0	PASS
6	Ant Port 2	CH54	927.250	24.0	23.44	9.44	30.0	36.0	PASS

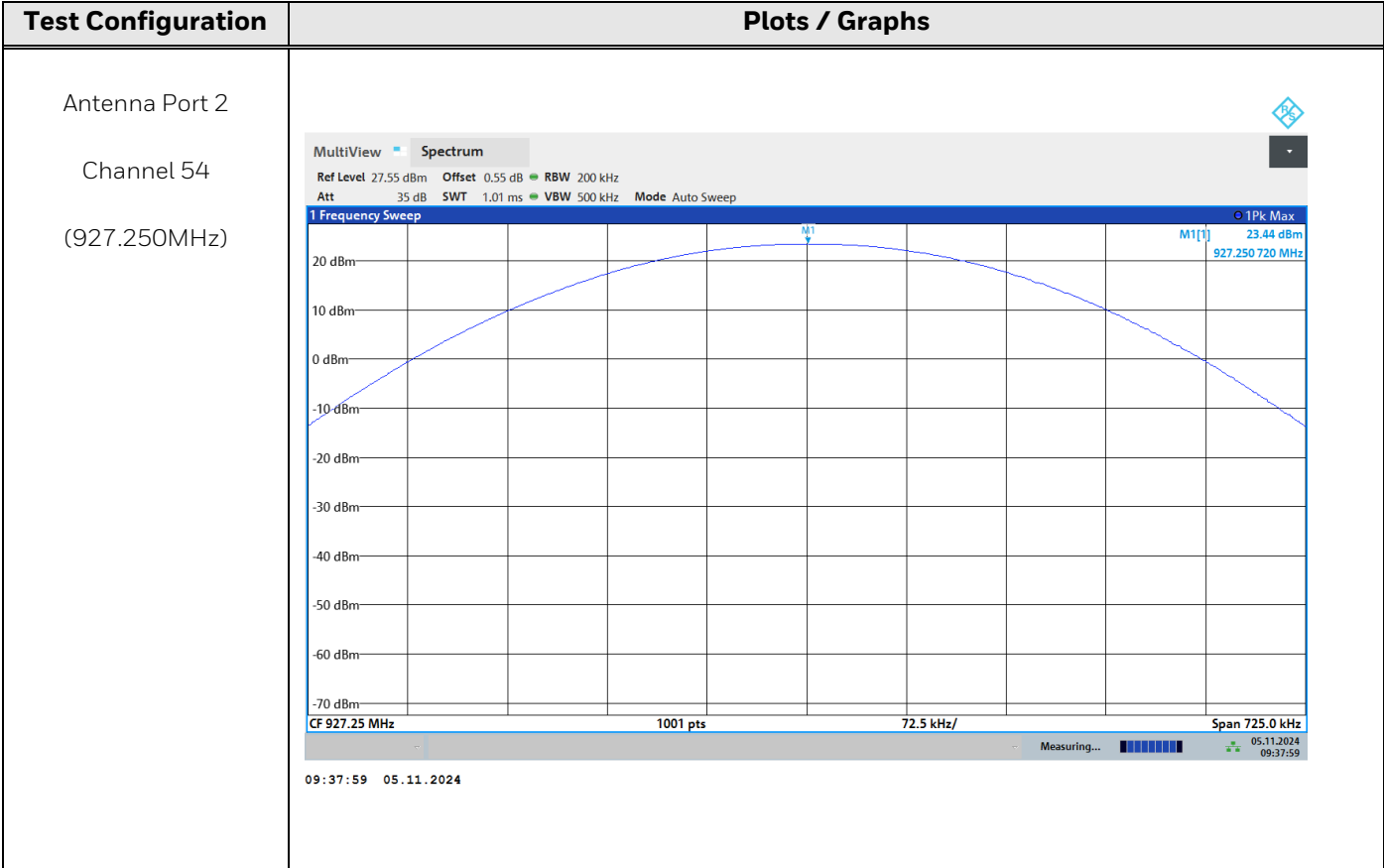
Notes and Observations

1. Above Test results are reported after including all the measurements losses.
2. Highest antenna Gain (dBi) is considered for the reported E.I.R.P results (LUPUS14V2)
3. Product do not support MIMO or simultaneous Transmissions of both antenna port. Only one antenna port can be selected for transmission at any point of time. The modules use internal RF switch to switch to either Port 1 or 2 (only SISO mode).
4. Product do not support additional beamforming Gain / Directional Gain. It uses single antenna or RF couplers. Gain Details of Antenna's & RF couplers are listed in page 7 of this report

Test Configuration	Plots / Graphs
Antenna Port 1 Channel 05 (902.750MHz)	 MultiView Spectrum Ref Level 27.55 dBm Offset 0.55 dB RBW 200 kHz Att 35 dB SWT 1.01 ms VBW 500 kHz Mode Auto Sweep 1 Frequency Sweep M1 24.02 dBm 902.750 000 MHz CF 902.75 MHz 1001 pts 72.5 kHz/ Span 725.0 kHz Measuring... 05.11.2024 09:35:33 09:35:34 05.11.2024
Antenna Port 1 Channel 30 (915.250MHz)	 MultiView Spectrum Ref Level 27.55 dBm Offset 0.55 dB RBW 200 kHz Att 35 dB SWT 1.01 ms VBW 500 kHz Mode Auto Sweep 1 Frequency Sweep M1 23.24 dBm 915.250 000 MHz CF 915.25 MHz 1001 pts 72.5 kHz/ Span 725.0 kHz Measuring... 05.11.2024 09:32:51 09:32:52 05.11.2024



Test Configuration	Plots / Graphs
Antenna Port 2 Channel 05 (902.750MHz)	 MultiView Spectrum Ref Level 27.55 dBm Offset 0.55 dB RBW 200 kHz Att 35 dB SWT 1.01 ms VBW 500 kHz Mode Auto Sweep 1 Frequency Sweep M1 23.68 dBm 902.750 000 MHz CF 902.75 MHz 1001 pts 72.5 kHz/ Span 725.0 kHz Measuring... 05.11.2024 09:34:53 09:34:54 05.11.2024
Antenna Port 2 Channel 30 (915.250MHz)	 MultiView Spectrum Ref Level 27.55 dBm Offset 0.55 dB RBW 200 kHz Att 35 dB SWT 1.01 ms VBW 500 kHz Mode Auto Sweep 1 Frequency Sweep M1 23.41 dBm 915.249 280 MHz CF 915.25 MHz 1001 pts 72.5 kHz/ Span 725.0 kHz Measuring... 05.11.2024 09:37:03 09:37:03 05.11.2024



2. Spurious Radiated Emissions & Restricted Band of Operation

The conducted spurious emissions were measured from 9KHz to 10 GHz and compared to the specification defined in the standard, below are the results.

General Information

EUT NOMENCLATURE	IM11-PRT RFID Module
MODEL NO.	IM11-PRT
SERIAL NO.	20812275029
TESTED BY	Lavanya M
TEST DATES	29-10-2024 to 04-11-2024

Test Conditions

TEST VOLTAGE	+5.0VDC
ENVIRONMENT COND.	Temperature : 23.2°C, Humidity : 64% RH
TEST CONFIGURATION	EUT Supplied with 5.0VDC from Laptop USB Port and Configured to Transmit Continuously.
OPERATING MODE	Continuous Tx mode – Hopping Disabled Condition
DEVIATIONS FROM STD.	N/A

Test Specifications

TEST STANDARD	FCC part 15 Subpart C 15.247 (d) / (15.209 & 15.205) / RSS-GEN Clause 8.9, 8.10
TEST SPECIFICATIONS	ANSI C63.10 : 2020
TEST REQUIREMENT	As per the Limits defined in next page.

Test Details

TEST METHOD	☐ Conducted ☒ Radiated			
TEST PORT	Antenna Port 1&2			
ANTENNA DETAILS	1 RFID coupler – Model : Lupus14v2			
DETECTOR USED	< 1GHz (Quasi Peak)		>1GHz (Peak & Average)	
TEST INSTR. BANDWIDTH	200Hz [9KHz to 150KHz]	9KHz [150KHz to 30MHz]	100KHz [30MHz to 1GHz]	1MHz [1GHz to 10GHz]
TEST CONNECTION.	The EUT was arranged in 3 meter Semi anechoic chamber as per the setup diagram.			
RADIATED TEST PARAMETERS.	Measurement Distance : 3-meter distance			
	Antenna Height : 1 to 4 meters with boresight antenna mast			
	Turntable rotation	: 0° to 360°	EUT Rotations	X, Y, Z
	Equipment Class : N /A			

Test Limits

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	Distance of Measurement (m)
0.009 – 0.490	2400/F(kHz)	48.50 – 13.80	300*
0.490 – 1.705	24000/F(kHz)	33.80 – 23.00	30*
1.705 -30	30	29.54	30*
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

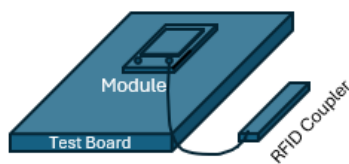
The limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300-meter, 30 meter and 30-meter range respectively, which corresponds to 128.51 – 93.80, 73.80 – 62.96 and 69.54 $\text{dB}\mu\text{V/m}$ at 3m range by extrapolation calculation and the measurement of loop antenna.

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

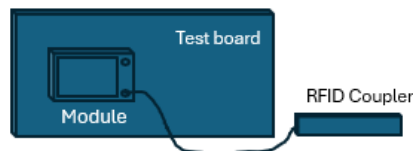
Lower Limits applies at the transition frequencies.

Notes:

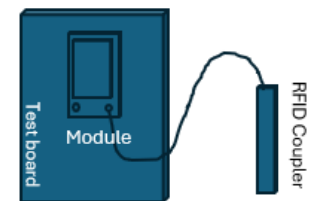
Initial exploration was done to know the placement of EUT that produces the maximum radiation by rotating the EUT is 3 different axes as shown below . At each axis, the EUT was rotated from 0°-360° and Antenna Height from 1m to 4m. Also, the test was performed on both Ant 1 and Ant 2 to know which port produces maximum radiations. The worst-case Antenna Port and EUT Axis results are reported.



X - Axis



Y - Axis



Z - Axis

Test Details – 9KHz to 30MHz

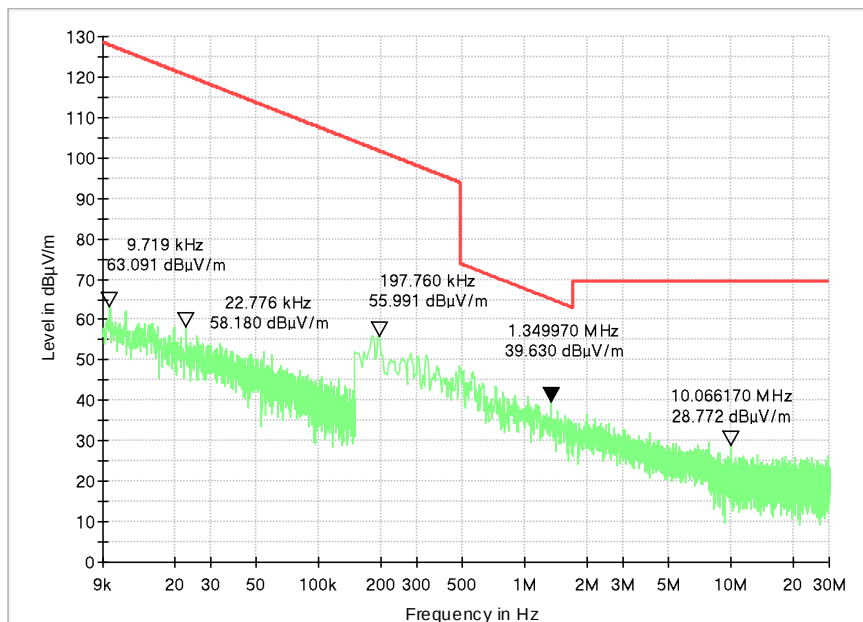
Test Results / Graphs – 9KHz to 30MHz

Ant Port : 1

Ant Type : LUPUS14V2

Channel 05 : 902.750MHz

Antenna Parallel to EUT



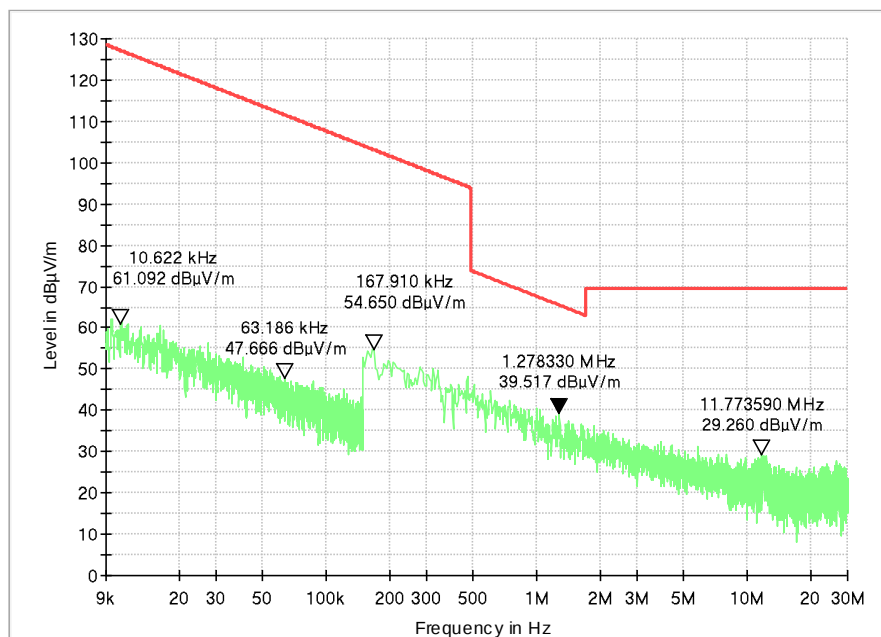
PK+_MAXH [Result Table.Result 11] FCC Part 15_9KHz-30MHz [..\EMI radiated\ACS\]

Ant Port : 2

Ant Type : LUPUS14V2

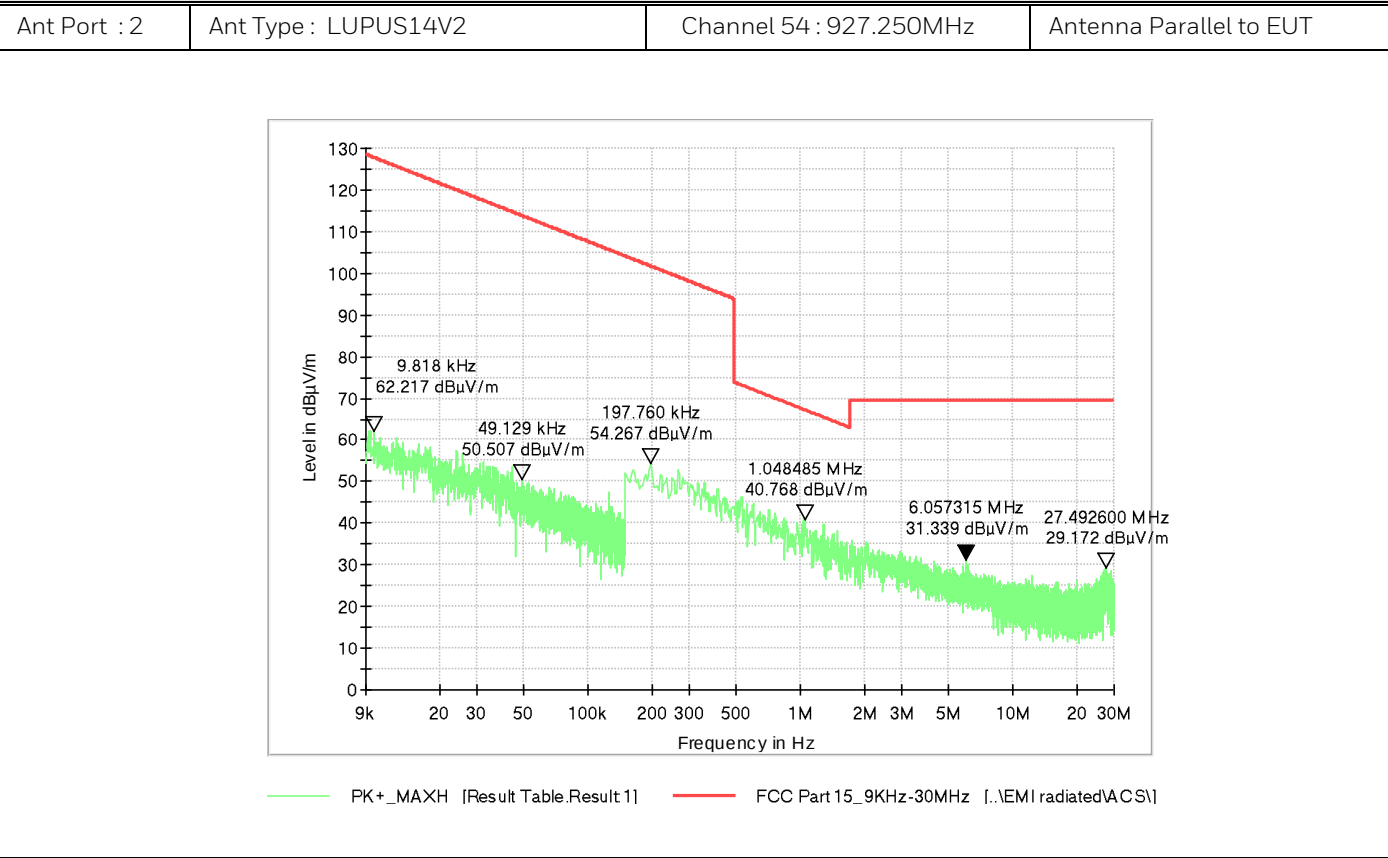
Channel 30 : 915.250MHz

Antenna Parallel to EUT



PK+_MAXH [Result Table.Result 11] FCC Part 15_9KHz-30MHz [..\EMI radiated\ACS\]

Test Results / Graphs - 9KHz to 30MHz



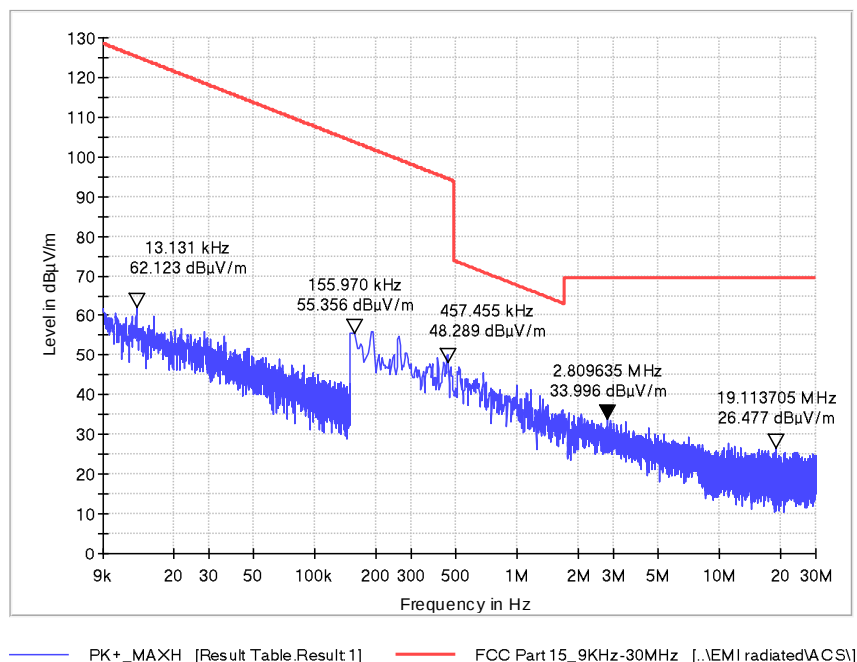
Test Results / Graphs - 9KHz to 30MHz

Ant Port : 1

Ant Type : LUPUS14V2

Channel 05 : 902.750MHz

Antenna Perpendicular to EUT

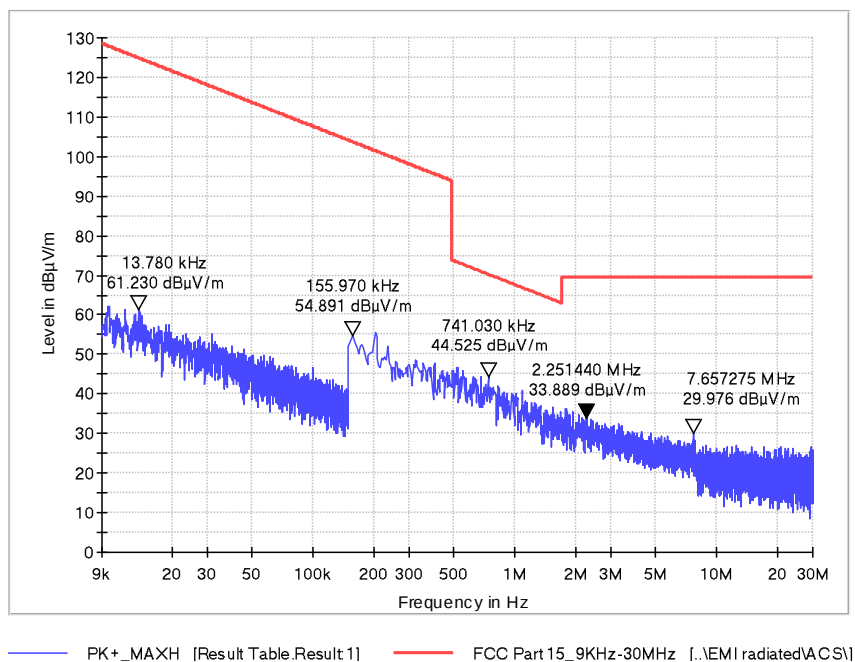


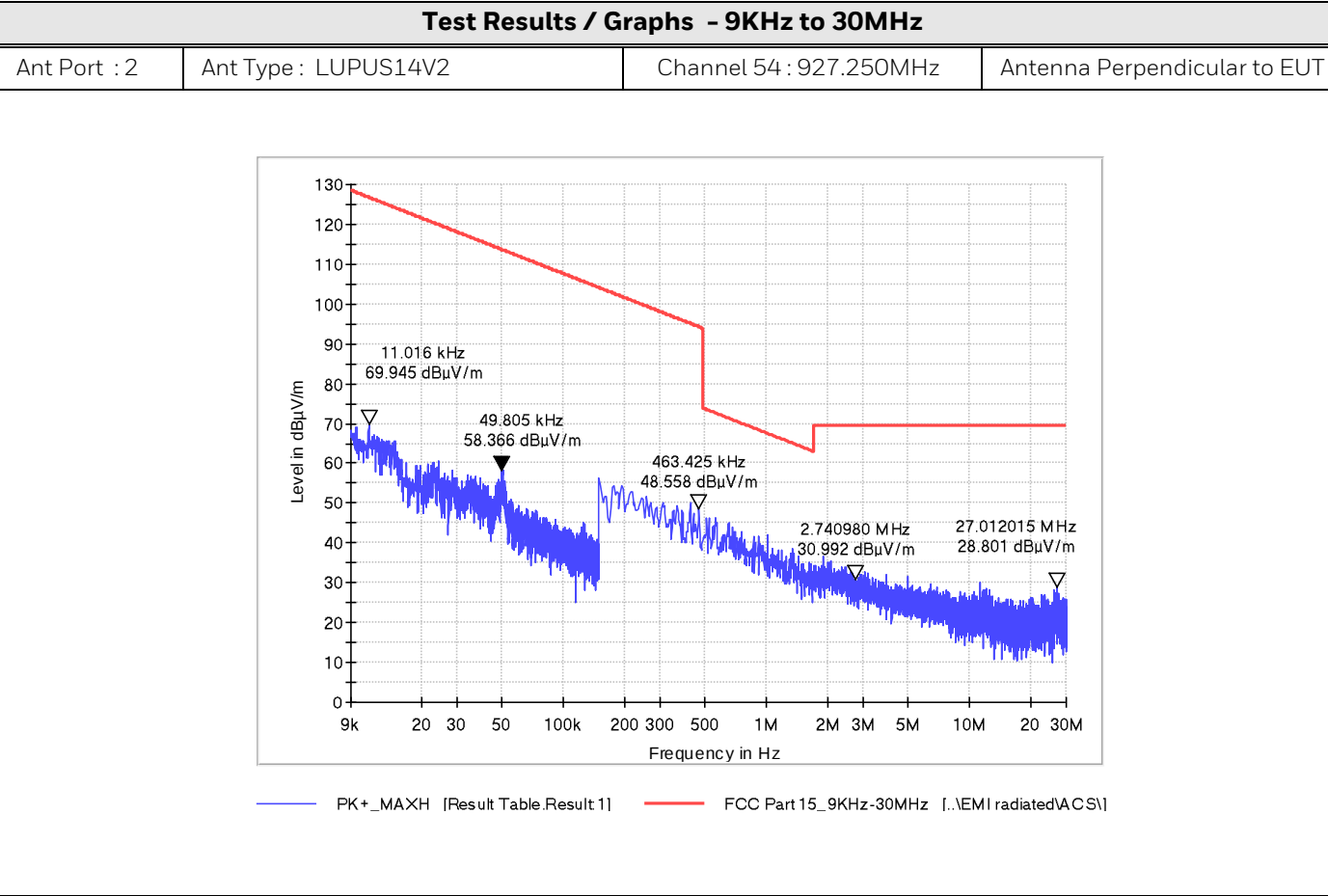
Ant Port : 2

Ant Type : LUPUS14V2

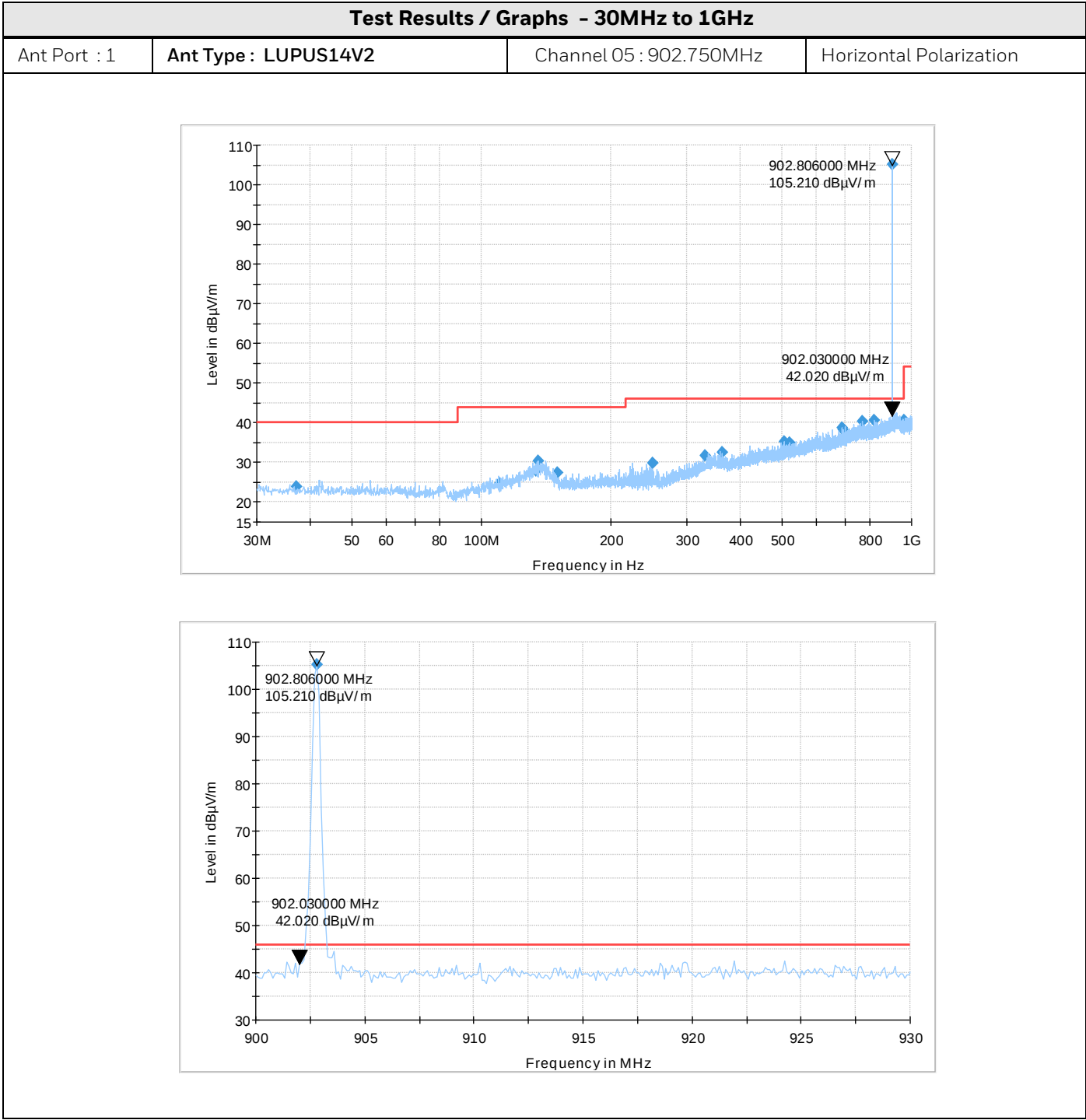
Channel 30 : 915.250MHz

Antenna Perpendicular to EUT





Test Details – 30MHz to 1GHz



Test Results / Graphs - 30MHz to 1GHz

Ant Port : 1

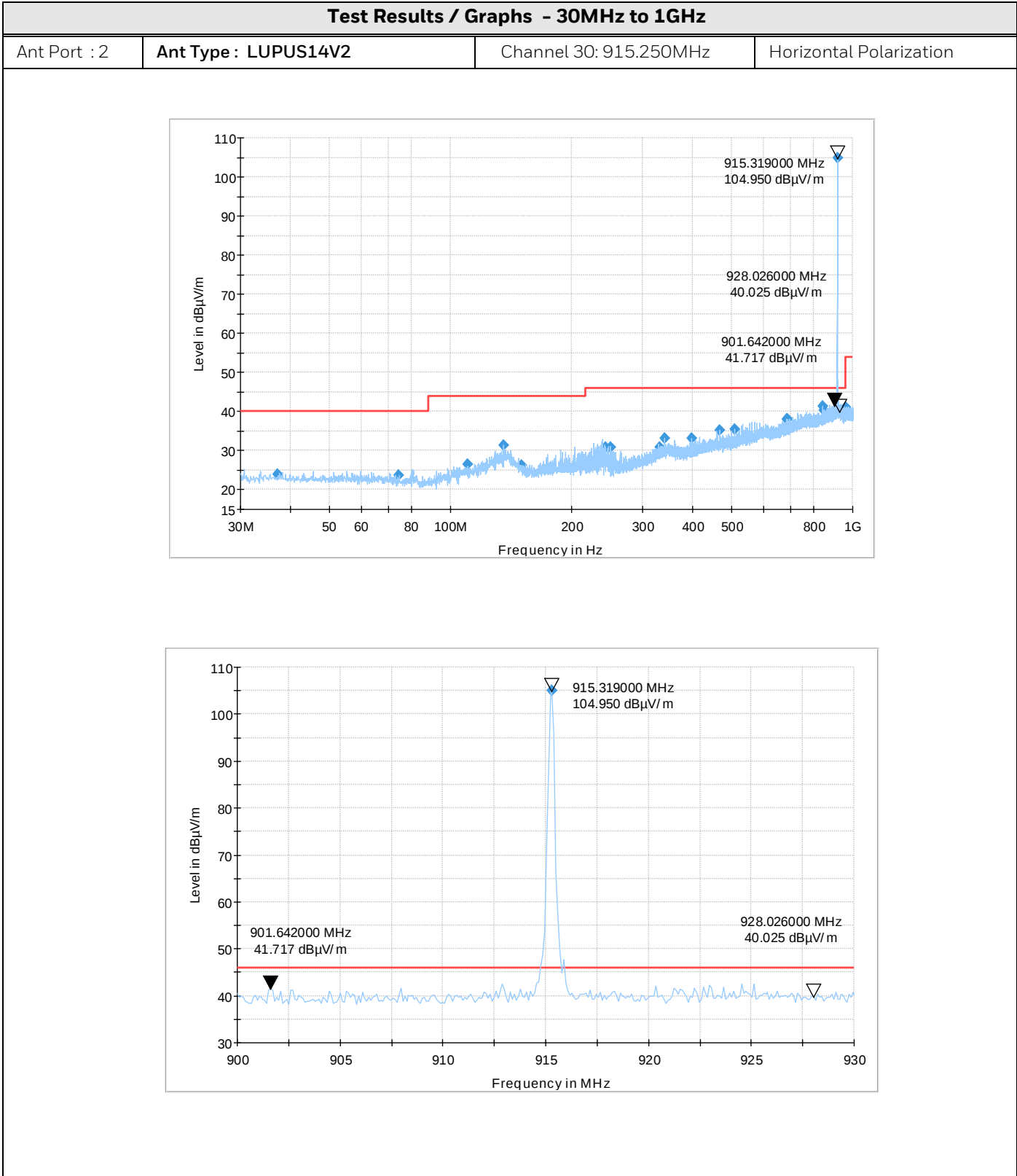
Ant Type : LUPUS14V2

Channel 05 : 902.750MHz

Horizontal Polarization

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Test Results
37.000000	23.84	40.00	16.16	120.000	H	34.0	PASS
110.000000	24.65	44.00	19.35	120.000	H	174.0	PASS
133.790000	27.95	44.00	16.05	120.000	H	210.0	PASS
135.148000	30.45	44.00	13.55	120.000	H	218.0	PASS
150.000000	27.30	44.00	16.7	120.000	H	192.0	PASS
250.000000	29.95	46.00	16.05	120.000	H	89.0	PASS
330.000000	31.80	46.00	14.2	120.000	H	355.0	PASS
362.516000	32.41	46.00	13.59	120.000	H	102.0	PASS
505.785000	35.28	46.00	10.72	120.000	H	249.0	PASS
519.171000	34.95	46.00	11.05	120.000	H	70.0	PASS
689.600000	38.74	46.00	7.26	120.000	H	171.0	PASS
693.286000	38.31	46.00	7.69	120.000	H	113.0	PASS
769.140000	40.44	46.00	5.56	120.000	H	99.0	PASS
820.259000	40.75	46.00	5.25	120.000	H	86.0	PASS
902.806000	105.21	***	***	120.000	H	70.0	PASS
960.000000	40.67	46.00	5.33	120.000	H	153.0	PASS

***Fundamental Operating Frequency



Test Results / Graphs - 30MHz to 1GHz

Ant Port : 2

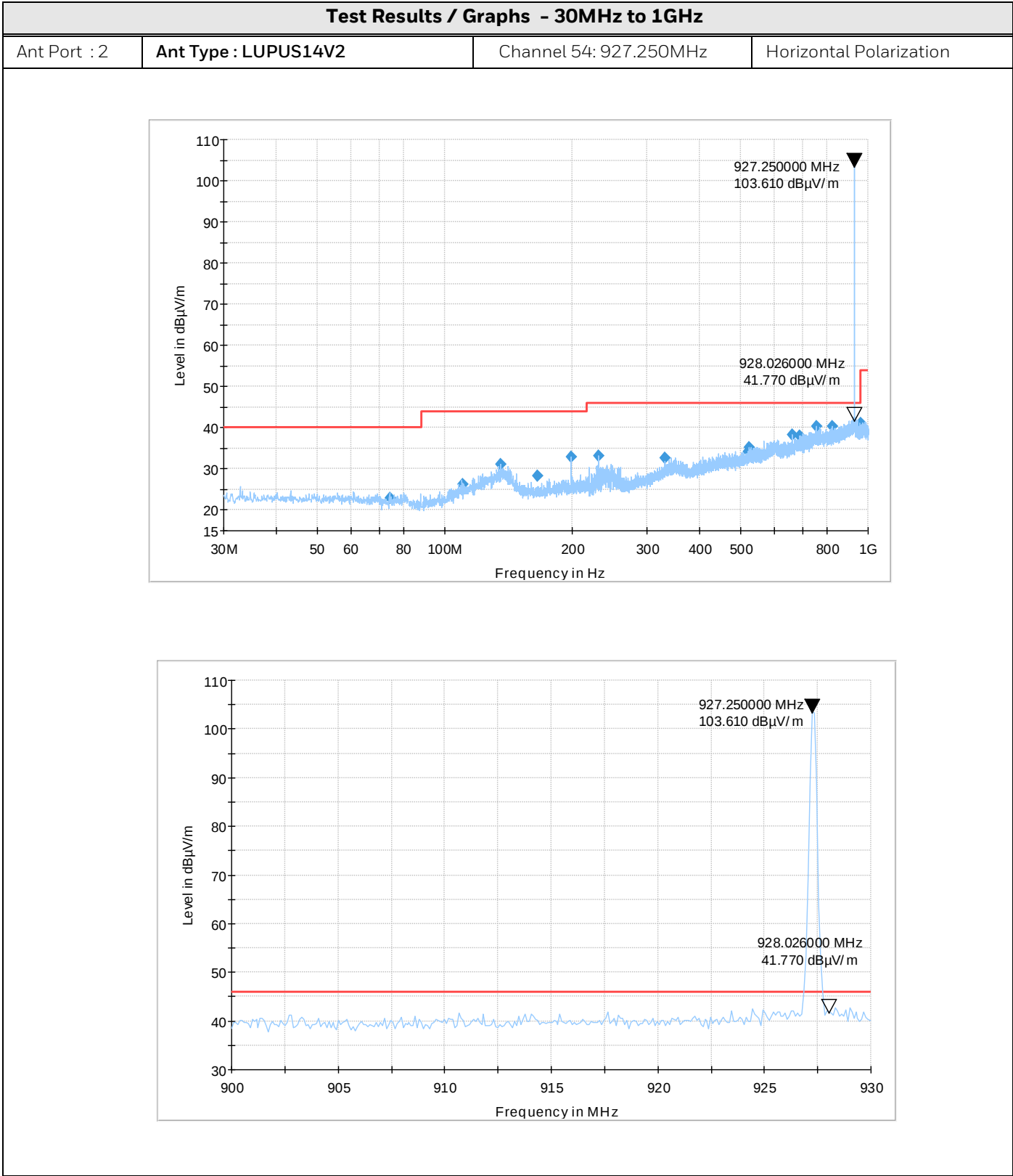
Ant Type : LUPUS14V2

Channel 30: 915.250MHz

Horizontal Polarization

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Test Result
37.000000	23.90	40.00	16.1	120.000	H	109.0	PASS
74.000000	23.79	40.00	16.21	120.000	H	18.0	PASS
110.000000	26.50	44.00	17.5	120.000	H	177.0	PASS
135.148000	31.41	44.00	12.59	120.000	H	201.0	PASS
150.000000	26.34	44.00	17.66	120.000	H	264.0	PASS
242.721000	30.92	46.00	15.08	120.000	H	264.0	PASS
250.000000	30.95	46.00	15.05	120.000	H	264.0	PASS
330.000000	30.82	46.00	15.18	120.000	H	340.0	PASS
341.176000	33.25	46.00	12.75	120.000	H	57.0	PASS
398.309000	33.16	46.00	12.84	120.000	H	340.0	PASS
465.918000	35.31	46.00	10.69	120.000	H	86.0	PASS
507.531000	35.54	46.00	10.46	120.000	H	86.0	PASS
685.429000	37.98	46.00	8.02	120.000	H	187.0	PASS
687.272000	38.13	46.00	7.87	120.000	H	309.0	PASS
843.054000	41.40	46.00	4.6	120.000	H	21.0	PASS
845.285000	40.42	46.00	5.58	120.000	H	109.0	PASS
915.319000	104.95	***	***	120.000	H	299.0	PASS
960.000000	41.04	46.00	4.96	120.000	H	238.0	PASS

*** Fundamental Operating Frequency



Test Results / Graphs - 30MHz to 1GHz

Ant Port : 2

Ant Type : LUPUS14V2

Channel 54: 927.250MHz

Horizontal Polarization

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Test Result
74.000000	22.91	40.00	17.09	120.000	H	306.0	PASS
110.000000	26.30	44.00	17.7	120.000	H	198.0	PASS
135.148000	31.04	44.00	12.96	120.000	H	203.0	PASS
165.000000	28.21	44.00	15.79	120.000	H	206.0	PASS
198.392000	32.91	44.00	11.09	120.000	H	122.0	PASS
230.208000	33.14	46.00	12.86	120.000	H	112.0	PASS
330.000000	32.64	46.00	13.36	120.000	H	195.0	PASS
520.432000	34.13	46.00	11.87	120.000	H	70.0	PASS
523.730000	35.24	46.00	10.76	120.000	H	96.0	PASS
662.731000	38.22	46.00	7.78	120.000	H	59.0	PASS
689.309000	38.00	46.00	8	120.000	H	70.0	PASS
757.112000	40.41	46.00	5.59	120.000	H	85.0	PASS
821.714000	40.34	46.00	5.66	120.000	H	213.0	PASS
927.250000	103.61	***	***	120.000	H	301.0	PASS
960.000000	41.10	46.00	4.9	120.000	H	264.0	PASS

*** Fundamental Operating Frequency

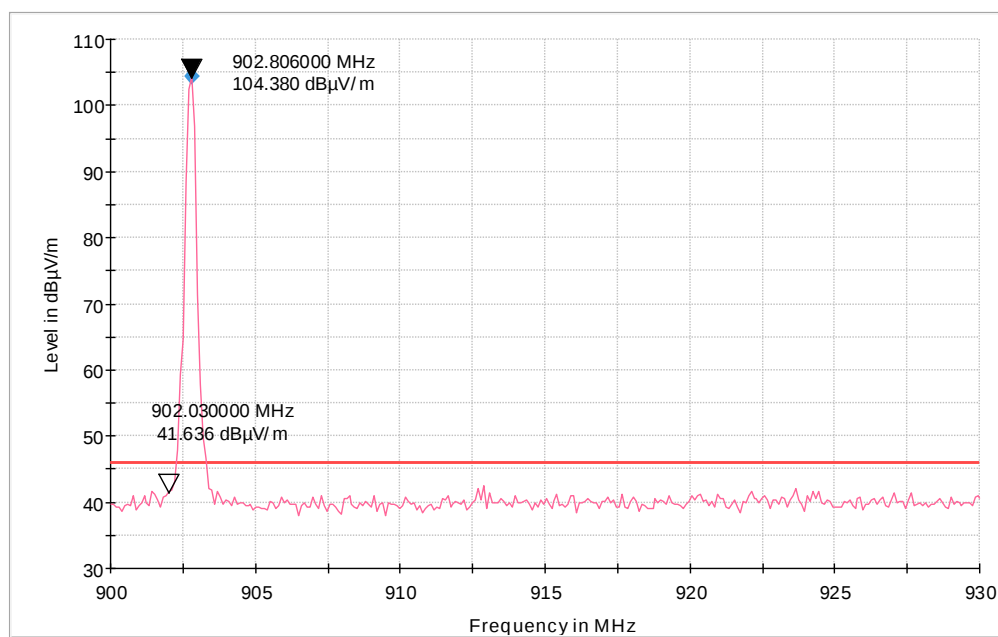
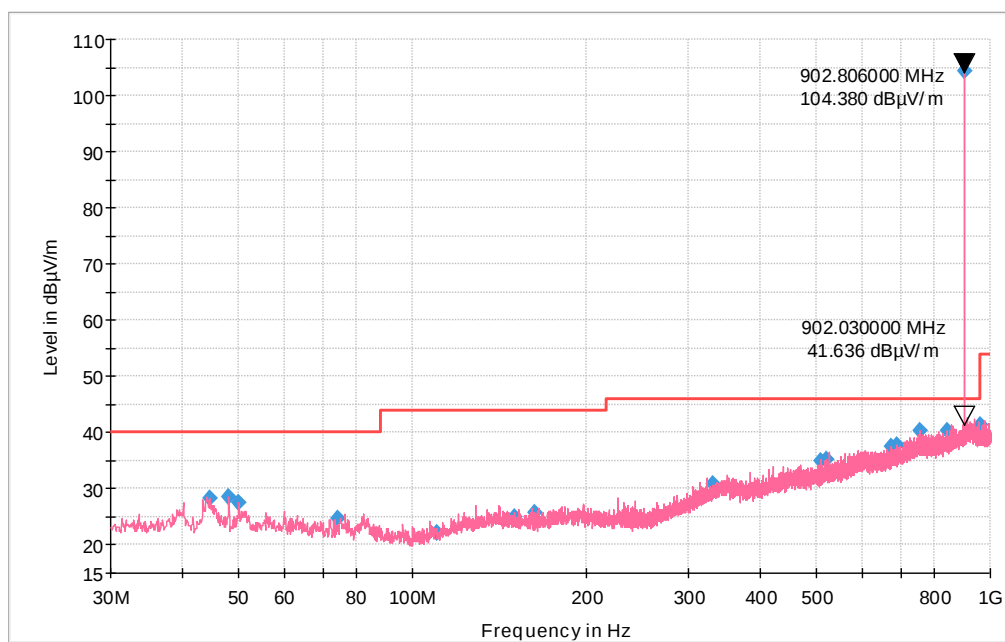
Test Results / Graphs - 30MHz to 1GHz

Ant Port : 1

Ant Type : LUPUS14V2

Channel 05 : 902.750MHz

Vertical Polarization



Test Results / Graphs - 30MHz to 1GHz

Ant Port : 1

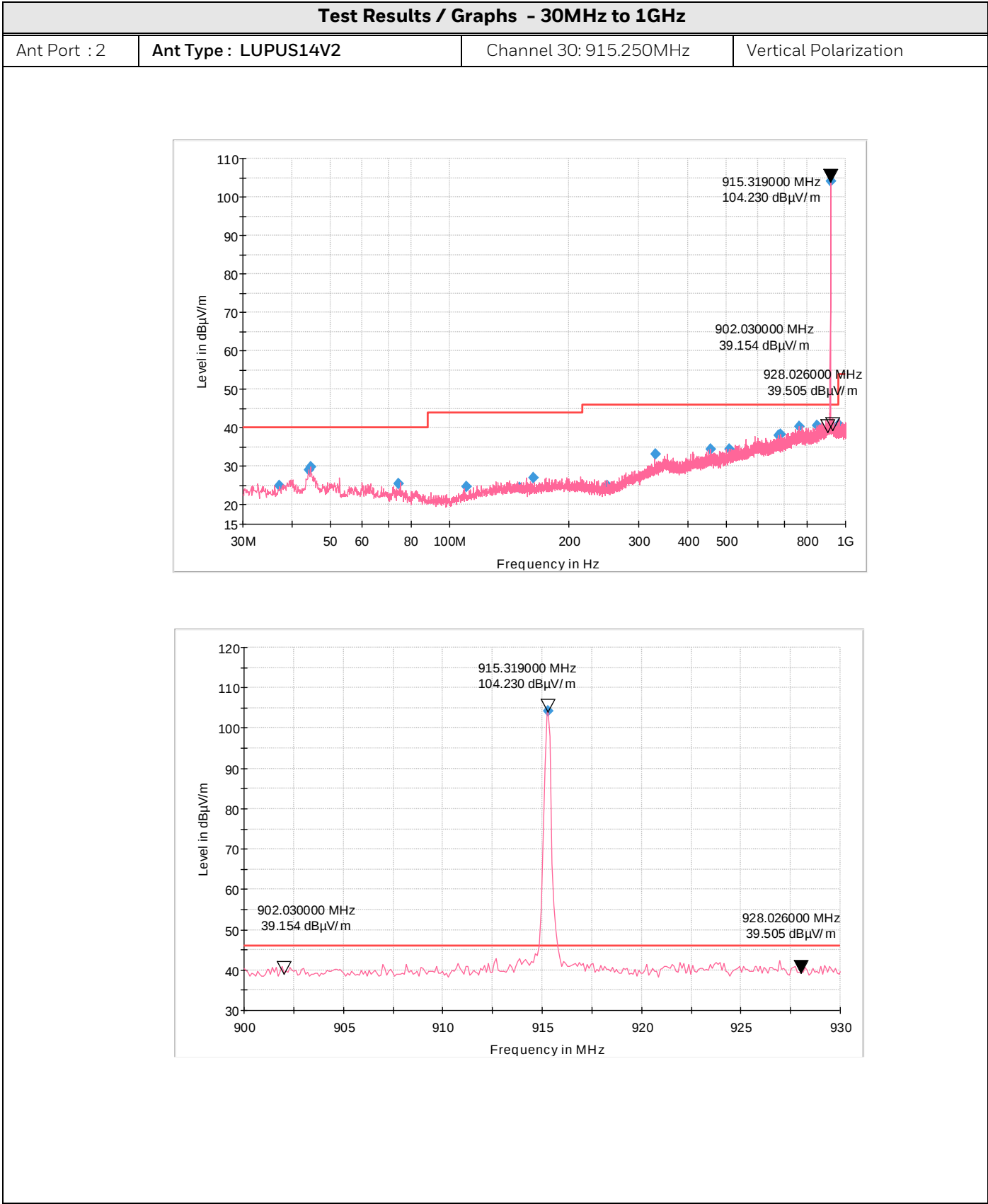
Ant Type : LUPUS14V2

Channel 05 : 902.750MHz

Vertical Polarization

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Test Result
44.647000	28.21	40.00	11.79	120.000	V	184.0	PASS
48.042000	28.62	40.00	11.38	120.000	V	179.0	PASS
50.079000	27.50	40.00	12.5	120.000	V	174.0	PASS
74.000000	24.82	40.00	15.18	120.000	V	156.0	PASS
110.000000	22.11	44.00	21.89	120.000	V	122.0	PASS
150.000000	25.06	44.00	18.94	120.000	V	329.0	PASS
163.000000	25.81	44.00	18.19	120.000	V	260.0	PASS
330.000000	30.85	46.00	15.15	120.000	V	166.0	PASS
507.531000	35.10	46.00	10.9	120.000	V	109.0	PASS
521.790000	35.19	46.00	10.81	120.000	V	151.0	PASS
672.431000	37.54	46.00	8.46	120.000	V	254.0	PASS
688.921000	37.84	46.00	8.16	120.000	V	234.0	PASS
756.336000	40.40	46.00	5.6	120.000	V	109.0	PASS
843.345000	40.23	46.00	5.77	120.000	V	226.0	PASS
902.806000	104.38	***	***	120.000	V	327.0	PASS
960.000000	41.31	46.00	4.69	120.000	V	107.0	PASS

*** Fundamental Operating Frequency



Test Results / Graphs - 30MHz to 1GHz

Ant Port : 2

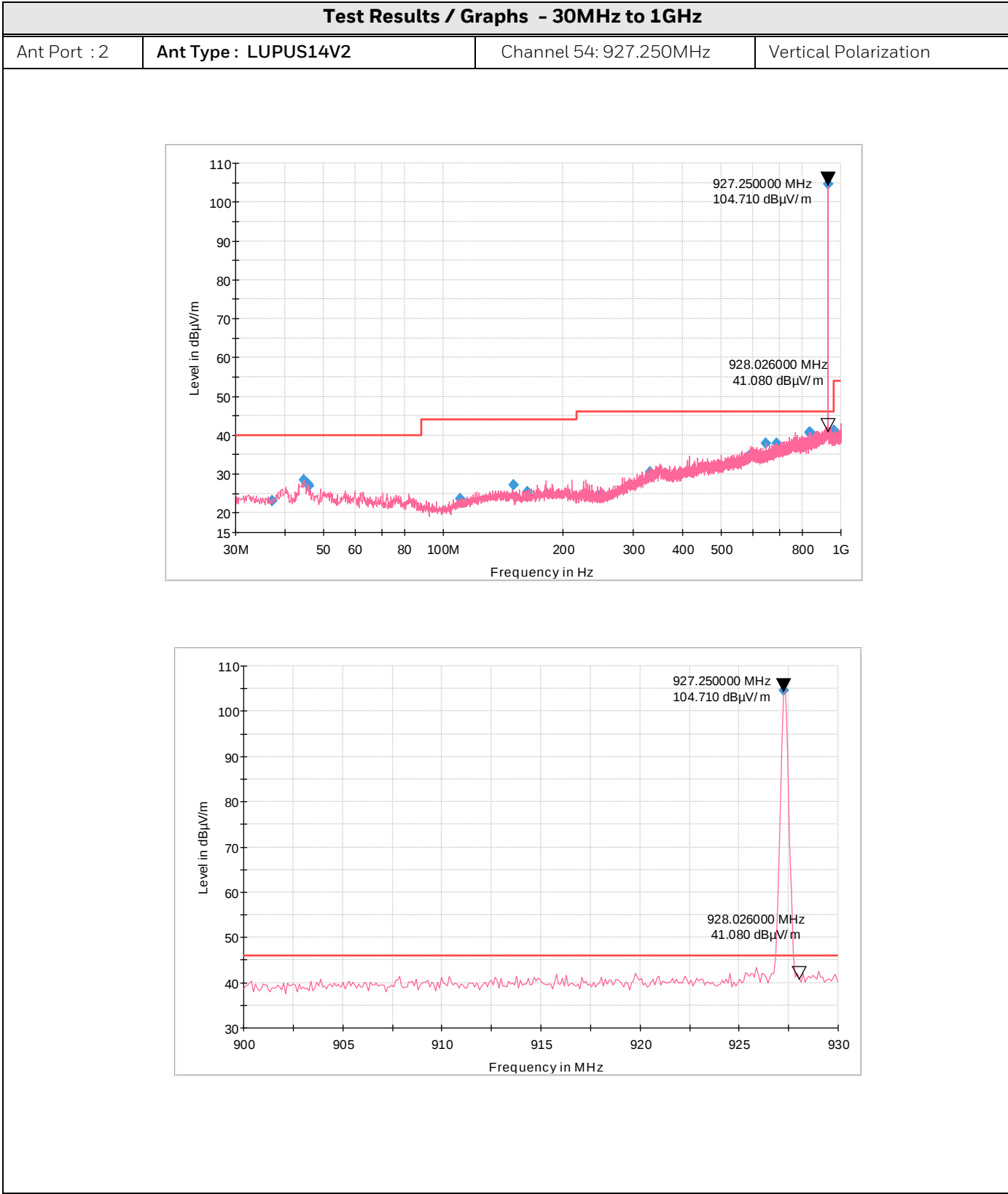
Ant Type : LUPUS14V2

Channel 30: 915.250MHz

Vertical Polarization

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Test Result
37.000000	24.99	40.00	15.01	120.000	V	293.0	PASS
44.065000	29.02	40.00	10.98	120.000	V	178.0	PASS
44.550000	29.76	40.00	10.24	120.000	V	181.0	PASS
74.000000	25.58	40.00	14.42	120.000	V	189.0	PASS
110.000000	24.63	44.00	19.37	120.000	V	254.0	PASS
150.000000	24.39	44.00	19.61	120.000	V	124.0	PASS
163.000000	27.14	44.00	16.86	120.000	V	212.0	PASS
250.000000	24.97	46.00	21.03	120.000	V	9.0	PASS
330.000000	33.17	46.00	12.83	120.000	V	41.0	PASS
454.957000	34.43	46.00	11.57	120.000	V	33.0	PASS
509.471000	34.46	46.00	11.54	120.000	V	52.0	PASS
676.699000	38.06	46.00	7.94	120.000	V	202.0	PASS
683.198000	38.28	46.00	7.72	120.000	V	332.0	PASS
765.842000	40.28	46.00	5.72	120.000	V	139.0	PASS
845.867000	40.50	46.00	5.5	120.000	V	25.0	PASS
915.319000	104.23	***	***	120.000	V	236.0	PASS
960.000000	40.85	46.00	5.15	120.000	V	173.0	PASS

***Fundamental Operating Frequency



Test Results / Graphs - 30MHz to 1GHz

Ant Port : 2

Ant Type : LUPUS14V2

Channel 54: 927.250MHz

Vertical Polarization

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Pol	Azimuth (deg)	Test Result
37.000000	23.23	40.00	16.77	120.000	V	216.0	PASS
44.647000	28.53	40.00	11.47	120.000	V	182.0	PASS
45.617000	27.38	40.00	12.62	120.000	V	2.0	PASS
45.908000	26.91	40.00	13.09	120.000	V	0.0	PASS
110.000000	23.55	44.00	20.45	120.000	V	216.0	PASS
150.000000	27.12	44.00	16.88	120.000	V	53.0	PASS
163.000000	25.51	44.00	18.49	120.000	V	359.0	PASS
250.000000	24.83	46.00	21.17	120.000	V	160.0	PASS
330.000000	30.57	46.00	15.43	120.000	V	160.0	PASS
586.974000	34.63	46.00	11.37	120.000	V	206.0	PASS
646.435000	37.94	46.00	8.06	120.000	V	64.0	PASS
689.697000	37.81	46.00	8.19	120.000	V	341.0	PASS
832.772000	40.84	46.00	5.16	120.000	V	66.0	PASS
835.779000	40.84	46.00	5.16	120.000	V	184.0	PASS
927.250000	104.71	***	***	120.000	V	224.0	PASS
960.000000	41.21	46.00	4.79	120.000	V	98.0	PASS

***Fundamental Operating Frequency.

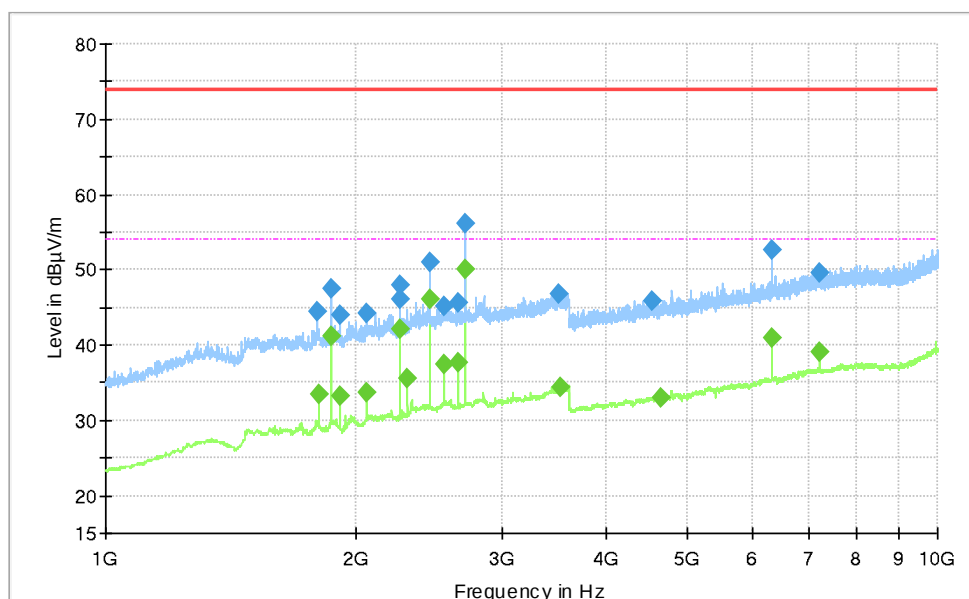
Test Results / Graphs - 1GHz to 10GHz

Ant Port : 1

Ant Type : LUPUS14V2

Channel 05: 902.750MHz

Horizontal Polarization

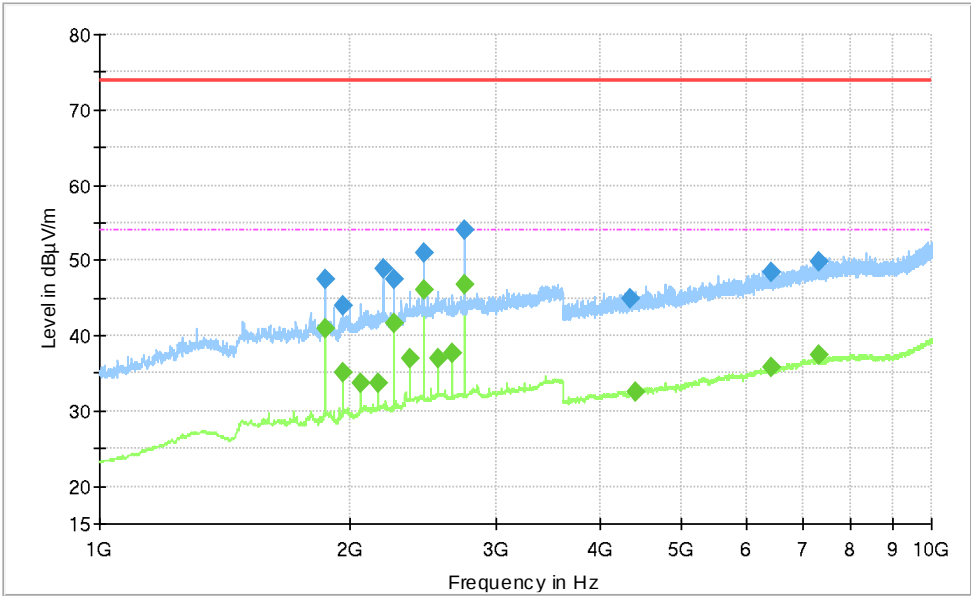


Preview Result 2H-AVG [Preview Result 2H.Result:2]
 Preview Result 1H-PK+ [Preview Result 1H.Result:1]
 FCC Limit 15.209 1GHz-18GHz Peak Limit [.\EMI radiated\ACS\
 FCC Limit 15.209 1GHz-18GHz Avg Limit [.\EMI radiated\ACS\
 Final_Result PK+ [Final_Result.Result:4]
 Final_Result AVG [Final_Result.Result:5]

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Test Results
1796.500000	44.57	---	74.0	29.43	1000.000	400.0	H	303.0	PASS
1805.500000	---	33.51	54.0	20.49	1000.000	300.0	H	38.0	PASS
1864.900000	---	41.22	54.0	12.78	1000.000	400.0	H	282.0	PASS
1864.900000	47.43	---	74.0	26.57	1000.000	400.0	H	282.0	PASS
1914.400000	---	33.34	54.0	20.66	1000.000	400.0	H	13.0	PASS
1914.400000	43.98	---	74.0	30.02	1000.000	400.0	H	13.0	PASS
2061.100000	44.14	---	74.0	29.86	1000.000	300.0	H	141.0	PASS
2062.000000	---	33.82	54.0	20.18	1000.000	300.0	H	141.0	PASS
2258.200000	47.89	---	74.0	26.11	1000.000	400.0	H	65.0	PASS
2258.200000	---	42.19	54.0	11.81	1000.000	400.0	H	65.0	PASS
2259.100000	46.03	---	74.0	27.97	1000.000	400.0	H	65.0	PASS
2306.800000	---	35.47	54.0	18.53	1000.000	400.0	H	0.0	PASS
2454.400000	50.97	---	74.0	23.03	1000.000	400.0	H	76.0	PASS
2454.400000	---	46.13	54.0	7.87	1000.000	400.0	H	76.0	PASS
2550.700000	45.09	---	74.0	28.91	1000.000	300.0	H	173.0	PASS
2552.500000	---	37.36	54.0	16.64	1000.000	400.0	H	148.0	PASS
2650.600000	45.52	---	74.0	28.48	1000.000	400.0	H	189.0	PASS
2650.600000	---	37.66	54.0	16.34	1000.000	400.0	H	189.0	PASS
2708.200000	56.20	---	74.0	17.8	1000.000	100.0	H	224.0	PASS
2708.200000	---	50.08	54.0	3.92	1000.000	100.0	H	224.0	PASS
3499.300000	46.69	---	74.0	27.31	1000.000	200.0	H	334.0	PASS
3527.200000	---	34.34	54.0	19.66	1000.000	200.0	H	324.0	PASS
4532.500000	45.79	---	74.0	28.21	1000.000	200.0	H	262.0	PASS
4645.900000	---	32.94	54.0	21.06	1000.000	100.0	H	141.0	PASS
6319.250000	52.59	---	74.0	21.41	1000.000	400.0	H	262.0	PASS
6319.250000	---	40.85	54.0	13.15	1000.000	200.0	H	221.0	PASS
7222.000000	49.60	---	74.0	24.4	1000.000	200.0	H	345.0	PASS
7222.000000	---	39.09	54.0	14.91	1000.000	200.0	H	107.0	PASS

Test Results / Graphs - 1GHz to 10GHz

Ant Port : 2	Ant Type : LUPUS14V2	Channel 30: 915.250MHz	Horizontal Polarization
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— Preview Result 2H-AVG [Preview Result 2H.Result:2]
— Preview Result 1H-PK+ [Preview Result 1H.Result:1]
— FCC Limit 15.209 1GHz-18GHz Peak Limit [..\EMI radiated\ACS\
— FCC Limit 15.209 1GHz-18GHz Avg Limit [..\EMI radiated\ACS\
◆ Final_Result PK+ [Final_Result.Result:4]
◆ Final_Result AVG [Final_Result.Result:5]

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Test Result
1864.900000	---	40.90	54	13.1	1000.000	400.0	H	293.0	PASS
1865.800000	47.45	---	74	26.55	1000.000	400.0	H	293.0	PASS
1963.000000	---	35.12	54	18.88	1000.000	400.0	H	344.0	PASS
1963.900000	43.95	---	74	30.05	1000.000	400.0	H	272.0	PASS
2061.100000	---	33.80	54	20.2	1000.000	300.0	H	37.0	PASS
2160.100000	---	33.66	54	20.34	1000.000	400.0	H	272.0	PASS
2195.200000	48.79	---	74	25.21	1000.000	400.0	H	252.0	PASS
2258.200000	47.50	---	74	26.5	1000.000	400.0	H	241.0	PASS
2258.200000	---	41.77	54	12.23	1000.000	400.0	H	241.0	PASS
2356.300000	---	37.09	54	16.91	1000.000	400.0	H	231.0	PASS
2454.400000	51.12	---	74	22.88	1000.000	400.0	H	293.0	PASS
2454.400000	---	46.17	54	7.83	1000.000	400.0	H	293.0	PASS
2552.500000	---	37.04	54	16.96	1000.000	400.0	H	344.0	PASS
2650.600000	---	37.59	54	16.41	1000.000	400.0	H	293.0	PASS
2746.000000	54.15	---	74	19.85	1000.000	300.0	H	48.0	PASS
2746.000000	---	46.91	54	7.09	1000.000	200.0	H	45.0	PASS
4343.500000	45.03	---	74	28.97	1000.000	200.0	H	170.0	PASS
4412.800000	---	32.47	54	21.53	1000.000	200.0	H	294.0	PASS
6406.700000	---	35.72	54	18.28	1000.000	400.0	H	231.0	PASS
6406.700000	48.41	---	74	25.59	1000.000	400.0	H	138.0	PASS
7322.000000	---	37.52	54	16.48	1000.000	300.0	H	2.0	PASS
7322.000000	49.87	---	74	24.13	1000.000	400.0	H	96.0	PASS

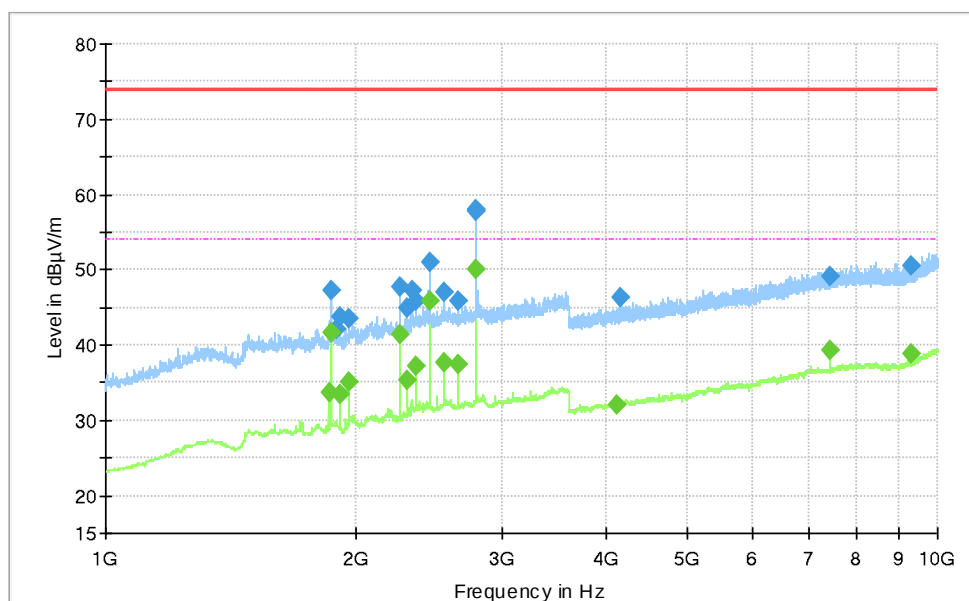
Test Results / Graphs - 1GHz to 10GHz

Ant Port : 2

Ant Type : LUPUS14V2

Channel 54: 927.250MHz

Horizontal Polarization



Preview Result 2H-AVG [Preview Result 2H.Result:2]
 Preview Result 1H-PK+ [Preview Result 1H.Result:1]
 FCC Limit 15.209 1GHz-18GHz Peak Limit [.\EMI radiated\ACS\
 FCC Limit 15.209 1GHz-18GHz Avg Limit [.\EMI radiated\ACS\
 Final_Result PK+ [Final_Result.Result:4]
 Final_Result AVG [Final_Result.Result:5]

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Test Results
1854.100000	---	33.79	54	20.21	1000.000	200.0	H	13.0	PASS
1864.900000	47.37	---	74	26.63	1000.000	400.0	H	252.0	PASS
1864.900000	---	41.61	54	12.39	1000.000	400.0	H	252.0	PASS
1890.100000	42.21	---	74	31.79	1000.000	400.0	H	211.0	PASS
1914.400000	43.69	---	74	30.31	1000.000	400.0	H	190.0	PASS
1914.400000	---	33.42	54	20.58	1000.000	400.0	H	190.0	PASS
1963.000000	---	35.02	54	18.98	1000.000	400.0	H	0.0	PASS
1963.000000	43.46	---	74	30.54	1000.000	400.0	H	0.0	PASS
2258.200000	47.67	---	74	26.33	1000.000	400.0	H	221.0	PASS
2258.200000	---	41.50	54	12.5	1000.000	400.0	H	221.0	PASS
2306.800000	---	35.29	54	18.71	1000.000	400.0	H	221.0	PASS
2306.800000	44.97	---	74	29.03	1000.000	400.0	H	221.0	PASS
2332.000000	47.27	---	74	26.73	1000.000	100.0	H	204.0	PASS
2356.300000	45.77	---	74	28.23	1000.000	400.0	H	87.0	PASS
2356.300000	---	37.15	54	16.85	1000.000	400.0	H	87.0	PASS
2454.400000	---	45.91	54	8.09	1000.000	400.0	H	355.0	PASS
2454.400000	51.12	---	74	22.88	1000.000	400.0	H	355.0	PASS
2552.500000	---	37.67	54	16.33	1000.000	400.0	H	149.0	PASS
2552.500000	47.12	---	74	26.88	1000.000	400.0	H	149.0	PASS
2650.600000	---	37.52	54	16.48	1000.000	400.0	H	324.0	PASS
2650.600000	45.76	---	74	28.24	1000.000	400.0	H	324.0	PASS
2781.100000	58.07	---	74	15.93	1000.000	300.0	H	48.0	PASS
2781.100000	---	50.18	54	3.82	1000.000	300.0	H	48.0	PASS
2782.000000	57.77	---	74	16.23	1000.000	300.0	H	48.0	PASS
4124.800000	---	32.08	54	21.92	1000.000	400.0	H	335.0	PASS
4150.000000	46.34	---	74	27.66	1000.000	100.0	H	2.0	PASS
7417.900000	49.07	---	74	24.93	1000.000	100.0	H	110.0	PASS
7417.900000	---	39.28	54	14.72	1000.000	100.0	H	121.0	PASS
9272.800000	---	38.78	54	15.22	1000.000	100.0	H	59.0	PASS
9272.800000	50.46	---	74	23.54	1000.000	400.0	H	314.0	PASS

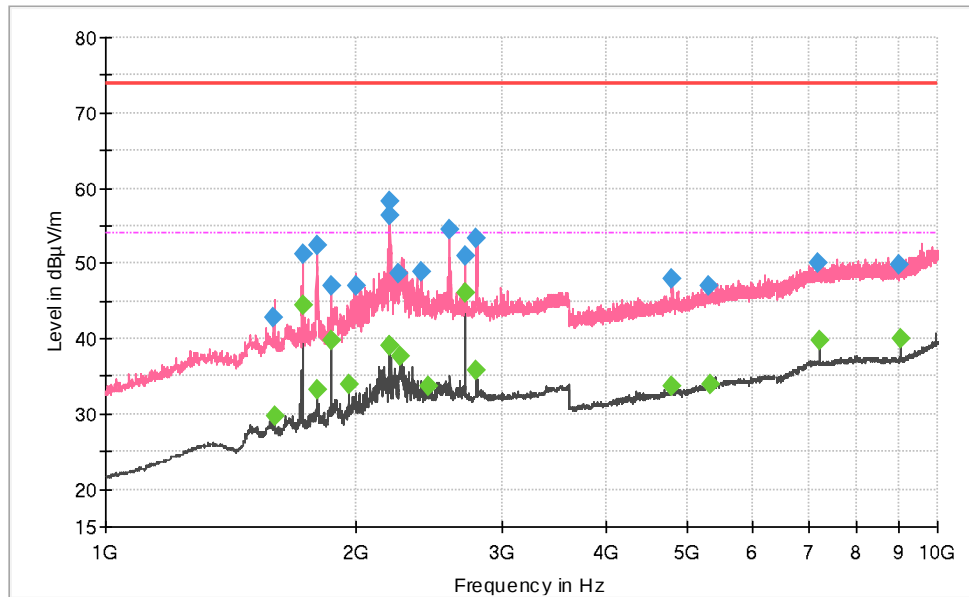
Test Results / Graphs - 1GHz to 10GHz

Ant Port : 1

Ant Type : LUPUS14V2

Channel 05: 902.750MHz

Vertical Polarization



— Preview Result 2V-AVG [Preview Result 2V.Result:2]
 — Preview Result 1V-PK+ [Preview Result 1V.Result:1]
 — FCC Limit 15.209 1GHz-18GHz Peak Limit [.\EMI radiated\ACS\
 — FCC Limit 15.209 1GHz-18GHz Avg Limit [.\EMI radiated\ACS\
 ◆ Final_Result PK+ [Final_Result.Result:4]
 ◆ Final_Result AVG [Final_Result.Result:5]

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Test Result
1593.100000	42.85	---	74	31.15	1000.000	200.0	V	159.0	PASS
1594.900000	---	29.80	54	24.2	1000.000	400.0	V	160.0	PASS
1724.500000	51.20	---	74	22.8	1000.000	400.0	V	243.0	PASS
1724.500000	---	44.51	54	9.49	1000.000	400.0	V	243.0	PASS
1793.800000	52.47	---	74	21.53	1000.000	200.0	V	211.0	PASS
1793.800000	---	33.19	54	20.81	1000.000	200.0	V	211.0	PASS
1864.900000	---	39.86	54	14.14	1000.000	200.0	V	325.0	PASS
1864.900000	46.92	---	74	27.08	1000.000	100.0	V	68.0	PASS
1963.000000	---	34.04	54	19.96	1000.000	400.0	V	222.0	PASS
1995.400000	47.06	---	74	26.94	1000.000	200.0	V	201.0	PASS
2189.800000	---	39.13	54	14.87	1000.000	100.0	V	182.0	PASS
2189.800000	56.37	---	74	17.63	1000.000	100.0	V	182.0	PASS
2197.000000	58.23	---	74	15.77	1000.000	200.0	V	180.0	PASS
2197.900000	---	39.03	54	14.97	1000.000	200.0	V	159.0	PASS
2249.200000	48.61	---	74	25.39	1000.000	200.0	V	201.0	PASS
2258.200000	---	37.69	54	16.31	1000.000	100.0	V	171.0	PASS
2390.500000	49.01	---	74	24.99	1000.000	100.0	V	182.0	PASS
2437.300000	---	33.72	54	20.28	1000.000	100.0	V	213.0	PASS
2591.200000	54.56	---	74	19.44	1000.000	200.0	V	149.0	PASS
2708.200000	51.04	---	74	22.96	1000.000	100.0	V	265.0	PASS
2708.200000	---	46.09	54	7.91	1000.000	300.0	V	17.0	PASS
2790.100000	---	35.77	54	18.23	1000.000	100.0	V	192.0	PASS
2790.100000	53.28	---	74	20.72	1000.000	100.0	V	192.0	PASS
4785.400000	---	33.77	54	20.23	1000.000	300.0	V	162.0	PASS
4793.500000	47.95	---	74	26.05	1000.000	300.0	V	162.0	PASS
5316.400000	47.04	---	74	26.96	1000.000	400.0	V	181.0	PASS
5342.500000	---	34.01	54	19.99	1000.000	400.0	V	233.0	PASS
7193.800000	50.01	---	74	23.99	1000.000	100.0	V	349.0	PASS
7222.600000	---	39.75	54	14.25	1000.000	100.0	V	68.0	PASS
8989.300000	49.90	---	74	24.1	1000.000	100.0	V	2.0	PASS
9028.000000	---	40.07	54	13.93	1000.000	100.0	V	68.0	PASS

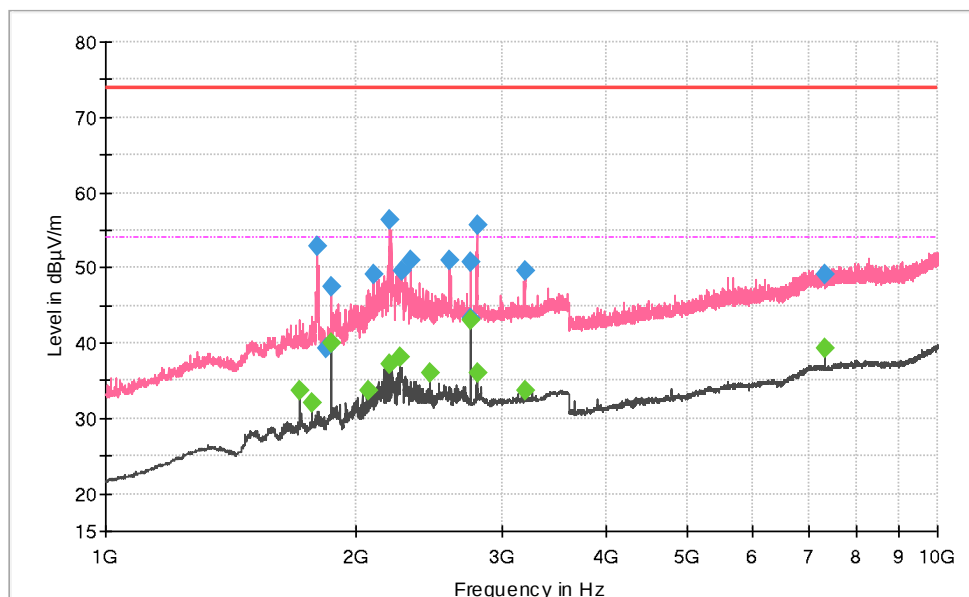
Test Results / Graphs - 1GHz to 10GHz

Ant Port : 2

Ant Type : LUPUS14V2

Channel 30: 915.250MHz

Vertical Polarization



— Preview Result 2V-AVG [Preview Result 2V.Result:2]
 — Preview Result 1V-PK+ [Preview Result 1V.Result:1]
 — FCC Limit 15.209 1GHz-18GHz Peak Limit [..\EMI radiated\ACS\
 — FCC Limit 15.209 1GHz-18GHz Avg Limit [..\EMI radiated\ACS\
 ◆ Final_Result PK+ [Final_Result.Result:4]
 ◆ Final_Result AVG [Final_Result.Result:5]

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Test Result
1711.900000	---	33.64	54	20.36	1000.000	300.0	V	183.0	PASS
1766.800000	---	32.15	54	21.85	1000.000	300.0	V	131.0	PASS
1795.600000	52.99	---	74	21.01	1000.000	400.0	V	180.0	PASS
1839.700000	39.41	---	74	34.59	1000.000	300.0	V	152.0	PASS
1864.900000	---	40.05	54	13.95	1000.000	200.0	V	222.0	PASS
1864.900000	47.56	---	74	26.44	1000.000	100.0	V	234.0	PASS
2065.600000	---	33.74	54	20.26	1000.000	100.0	V	172.0	PASS
2094.400000	49.15	---	74	24.85	1000.000	100.0	V	172.0	PASS
2189.800000	56.45	---	74	17.55	1000.000	100.0	V	193.0	PASS
2189.800000	---	37.14	54	16.86	1000.000	100.0	V	193.0	PASS
2258.200000	---	38.22	54	15.78	1000.000	100.0	V	203.0	PASS
2265.400000	49.64	---	74	24.36	1000.000	200.0	V	180.0	PASS
2323.900000	51.06	---	74	22.94	1000.000	200.0	V	180.0	PASS
2454.400000	---	35.99	54	18.01	1000.000	400.0	V	325.0	PASS
2593.000000	51.08	---	74	22.92	1000.000	100.0	V	182.0	PASS
2741.500000	43.29	---	74	30.71	1000.000	400.0	V	242.0	PASS
2746.000000	50.78	---	74	23.22	1000.000	100.0	V	255.0	PASS
2746.000000	---	43.00	54	11	1000.000	100.0	V	255.0	PASS
2792.800000	55.64	---	74	18.36	1000.000	200.0	V	180.0	PASS
2792.800000	---	36.00	54	18	1000.000	200.0	V	180.0	PASS
3194.200000	---	33.80	54	20.2	1000.000	100.0	V	151.0	PASS
3197.800000	49.57	---	74	24.43	1000.000	300.0	V	152.0	PASS
7322.000000	49.18	---	74	24.82	1000.000	300.0	V	183.0	PASS
7322.000000	---	39.34	54	14.66	1000.000	300.0	V	183.0	PASS

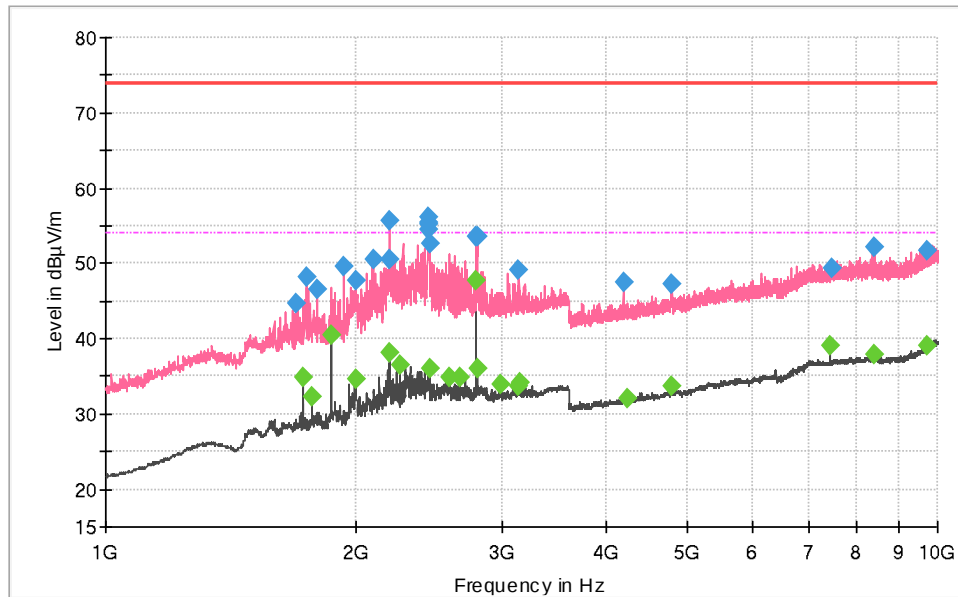
Test Results / Graphs - 1GHz to 10GHz

Ant Port : 2

Ant Type : LUPUS14V2

Channel 54: 927.250MHz

Vertical Polarization



— Preview Result 2V-AVG [Preview Result 2V.Result:2]
 — Preview Result 1V-PK+ [Preview Result 1V.Result:1]
 — FCC Limit 15.209 1GHz-18GHz Peak Limit [.\EMI radiated\ACS\
 — FCC Limit 15.209 1GHz-18GHz Avg Limit [.\EMI radiated\ACS\
 ◆ Final_Result PK+ [Final_Result.Result:4]
 ◆ Final_Result AVG [Final_Result.Result:5]

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Test Result
1766.800000	---	32.21	54	21.79	1000.000	300.0	V	224.0	PASS
1794.700000	46.68	---	74	27.32	1000.000	200.0	V	158.0	PASS
1864.900000	---	40.37	54	13.63	1000.000	100.0	V	67.0	PASS
1933.300000	49.62	---	74	24.38	1000.000	300.0	V	130.0	PASS
1994.500000	---	34.71	54	19.29	1000.000	100.0	V	172.0	PASS
1999.900000	47.73	---	74	26.27	1000.000	200.0	V	169.0	PASS
2094.400000	50.45	---	74	23.55	1000.000	100.0	V	255.0	PASS
2190.700000	---	38.12	54	15.88	1000.000	100.0	V	183.0	PASS
2194.300000	55.62	---	74	18.38	1000.000	200.0	V	169.0	PASS
2197.000000	50.58	---	74	23.42	1000.000	100.0	V	172.0	PASS
2258.200000	---	36.61	54	17.39	1000.000	100.0	V	338.0	PASS
2440.000000	55.56	---	74	18.44	1000.000	300.0	V	192.0	PASS
2444.500000	56.25	---	74	17.75	1000.000	300.0	V	192.0	PASS
2454.400000	52.55	---	74	21.45	1000.000	300.0	V	172.0	PASS
2454.400000	---	36.16	54	17.84	1000.000	400.0	V	211.0	PASS
2583.100000	---	34.99	54	19.01	1000.000	400.0	V	180.0	PASS
2664.100000	---	34.85	54	19.15	1000.000	200.0	V	210.0	PASS
2781.100000	---	47.76	54	6.24	1000.000	300.0	V	0.0	PASS
2781.100000	53.69	---	74	20.31	1000.000	300.0	V	0.0	PASS
2795.500000	---	36.13	54	17.87	1000.000	400.0	V	159.0	PASS
2796.400000	53.67	---	74	20.33	1000.000	300.0	V	161.0	PASS
2987.200000	---	33.86	54	20.14	1000.000	300.0	V	161.0	PASS
3138.400000	49.18	---	74	24.82	1000.000	400.0	V	169.0	PASS
3138.400000	---	33.68	54	20.32	1000.000	200.0	V	241.0	PASS
3151.900000	---	34.24	54	19.76	1000.000	300.0	V	182.0	PASS
4189.600000	47.61	---	74	26.39	1000.000	100.0	V	213.0	PASS
4237.300000	---	32.02	54	21.98	1000.000	400.0	V	180.0	PASS
4797.100000	---	33.72	54	20.28	1000.000	100.0	V	183.0	PASS
4798.000000	47.32	---	74	26.68	1000.000	100.0	V	183.0	PASS