

FCC TEST REPORT

Product Name: Iridium GO!
Trade Mark: Iridium
Model No.: 9560N
Report Number: 190705027RFC-1
Test Standards: FCC 47 CFR Part 15 Subpart C & Part 25
FCC ID: Q639560N
Test Result: PASS
Date of Issue: September 23, 2019

Prepared for:

Iridium Satellite LLC
1750 Tysons Boulevard Suite 1400, McLean, VA 22102, United States

Prepared by:

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Version

Version No.	Date	Description
V1.0	September 23, 2019	Original



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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	Iridium Satellite LLC
Address of Applicant:	1750 Tysons Boulevard Suite 1400, McLean, VA 22102, United States
Manufacturer:	Beam Communications
Address of Manufacturer:	Unit 5/8 Anzed Court, Mulgrave, Victoria, Australia 3710

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Iridium GO!	
Model No.:	9560N	
Trade Mark:	Iridium	
DUT Stage:	Identical Prototype	
EUT Supports Function:	2.4 GHz ISM Band:	IEEE 802.11b
	MSS frequency band(s):	1 610 MHz to 1 626.5 MHz
Sample Received Date:	July 5, 2019	
Sample Tested Date:	July 5, 2019 to September 23, 2019	

1.2.2 Description of Accessories

Adapter	
Model No.:	SDCIIX
Input:	100-240 V~50/60 Hz 0.3 A
Output:	5.0 V $\pm$ 2.1 A
DC Cable:	1.30 Meter, Shielded with ferrite

Battery	
Model No.:	WBAT1301
Battery Type:	Lithium-ion Rechargeable Battery
Rated Voltage:	3.7 Vdc
Limited Charge Voltage:	4.2 Vdc
Rated Capacity:	3600 mAh

Cable	
Description:	USB Micro-B Plug Cable
Cable Type:	Shielded with ferrite
Length:	1.30 Meter

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2412 MHz to 2462 MHz
Support Standards:	IEEE 802.11b
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK)
Data Rate:	IEEE 802.11b: Up to 11 Mbps
Number of Channels:	IEEE 802.11b: 11
Channel Separation:	5 MHz
Antenna Type:	Integral Antenna
Antenna Gain:	0.5 dBi
Maximum Peak Power:	IEEE 802.11b: 19.15dBm

MSS frequency bands:	1 610 MHz to 1 626.5 MHz
Frequency Range:	1616.020833 MHz to 1625.979167 MHz
Channel Separation:	41.667 kHz
Antenna Type:	Integral Antenna
Antenna Gain:	1.6 dBi
Equipment Category:	☒ Handheld, ☐ other than handheld
Maximum TX power	6.607 W

1.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	Supplied by
Notebook	DELL	PP11S	-	Applicant

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
-	-	-	-	-

1.5 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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1.6 TEST FACILITY

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

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a

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year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.7 DEVIATION FROM STANDARDS

None.

1.8 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.10 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Radiated emission 9KHz-30MHz	±4.9 dB
2	Radiated emission 30MHz-1GHz	±4.7 dB
3	Radiated emission 1GHz-18GHz	±5.1 dB
4	Radiated emission 18GHz-26GHz	±5.2 dB
5	Radiated emission 26GHz-40GHz	±5.2 dB

2. TEST SUMMARY

Test Cases					
Test Item	Test Requirement		Test Method		Result
Co-located Radiated Spurious Emissions	Title 47 of the CFR: Part 15 Subpart (c) 15.247	Title 47 of the CFR: Part 25 Section 25.202 (f)	ANSI C63.10-2013	ANSI C63.26-2015, clause 5.5	PASS

3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
☒	3M Chamber & Accessory Equipment	ETS-LINDGREN	3M	N/A	Dec. 03, 2018	Dec. 03, 2021
☒	Receiver	R&S	ESIB26	100114	Nov. 24, 2018	Nov. 24, 2019
☐	Loop Antenna	ETS-LINDGREN	6502	00202525	Dec. 03, 2018	Dec. 03, 2019
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	Dec. 08, 2018	Dec. 08, 2019
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	Dec. 08, 2018	Dec. 08, 2019
☒	Preamplifier	HP	8447F	2805A02960	Nov. 24, 2018	Nov. 24, 2019
☐	Horn Antenna	ETS-LINDGREN	3117	00164202	Dec. 08, 2018	Dec. 08, 2019
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201874	May 18, 2019	May 18, 2020
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	Jan. 05, 2019	Jan. 05, 2020
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
☒	Band Rejection Filter (2400MHz~2500MHz)	Micro-Tronics	BRM50702	G248	Jun. 06, 2019	Jun. 06, 2020
☒	Highpass Filter (1.2GHz~18GHz)	Micro-Tronics	HPM50108	G552	Nov. 29, 2018	Nov. 29, 2019
☒	Test Software	Audix	e3	Software Version: 9.160333		

4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (V)	Relative Humidity (%)
NT/NV	+15 to +35	1. 120~60Hz and/or 3.7V battery 2. 240~50Hz and/or 3.7V battery	20 to 75
Remark: 1) NV: Normal Voltage; NT: Normal Temperature			

4.1.2 Record of Normal Environment

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)	Tested by
Radiated Emission	25.2	53	100.62	Fire Huo

4.2 TEST CHANNELS

Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
IEEE 802.11b	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11
		2412 MHz	2437 MHz	2462 MHz

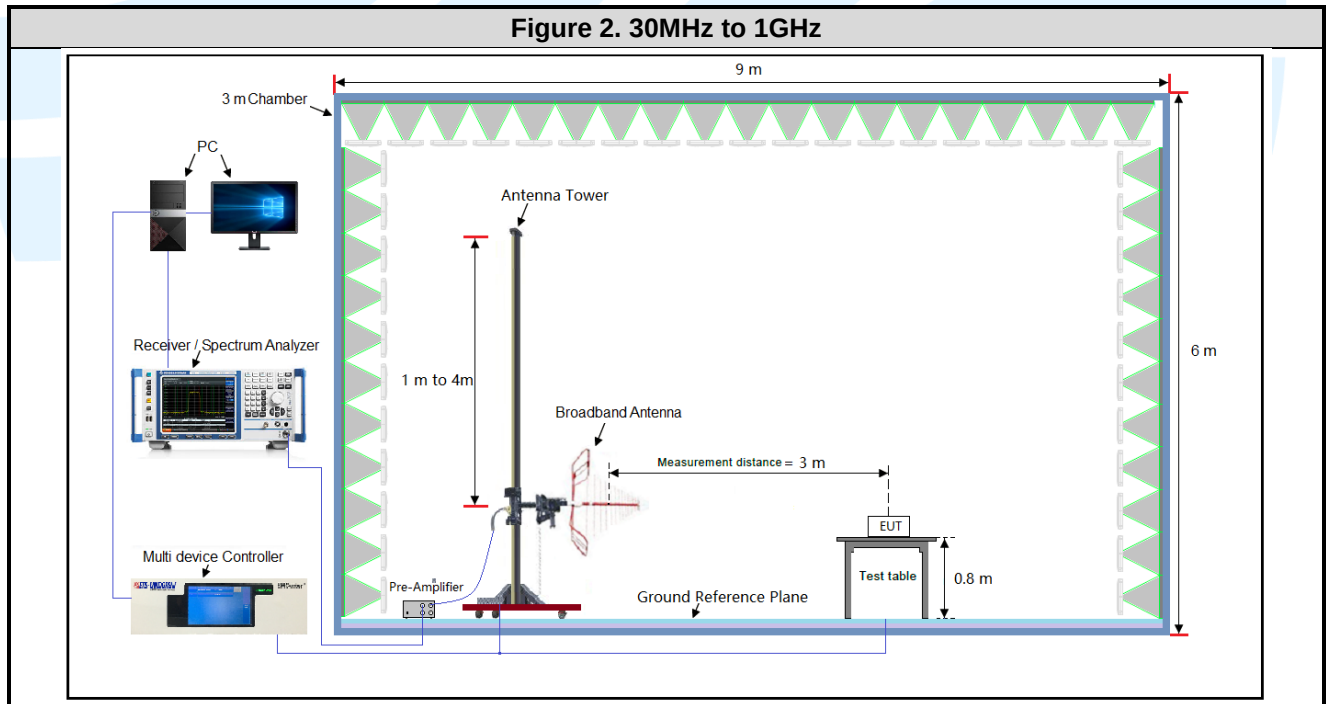
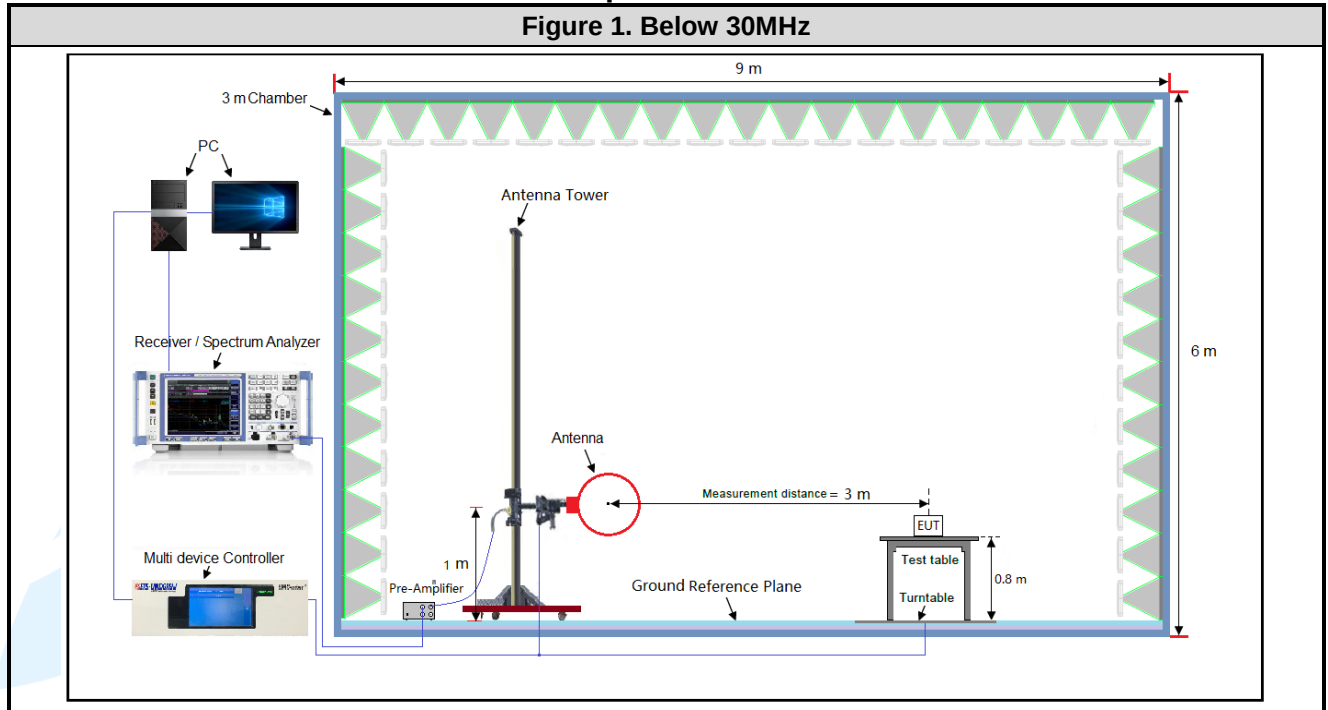
Frequency Band	Test RF Channel Lists		
	Lowest	Middle	Highest
1 610 MHz to 1 626.5 MHz	1616.020833 MHz	1621.020833 MHz	1625.979167 MHz

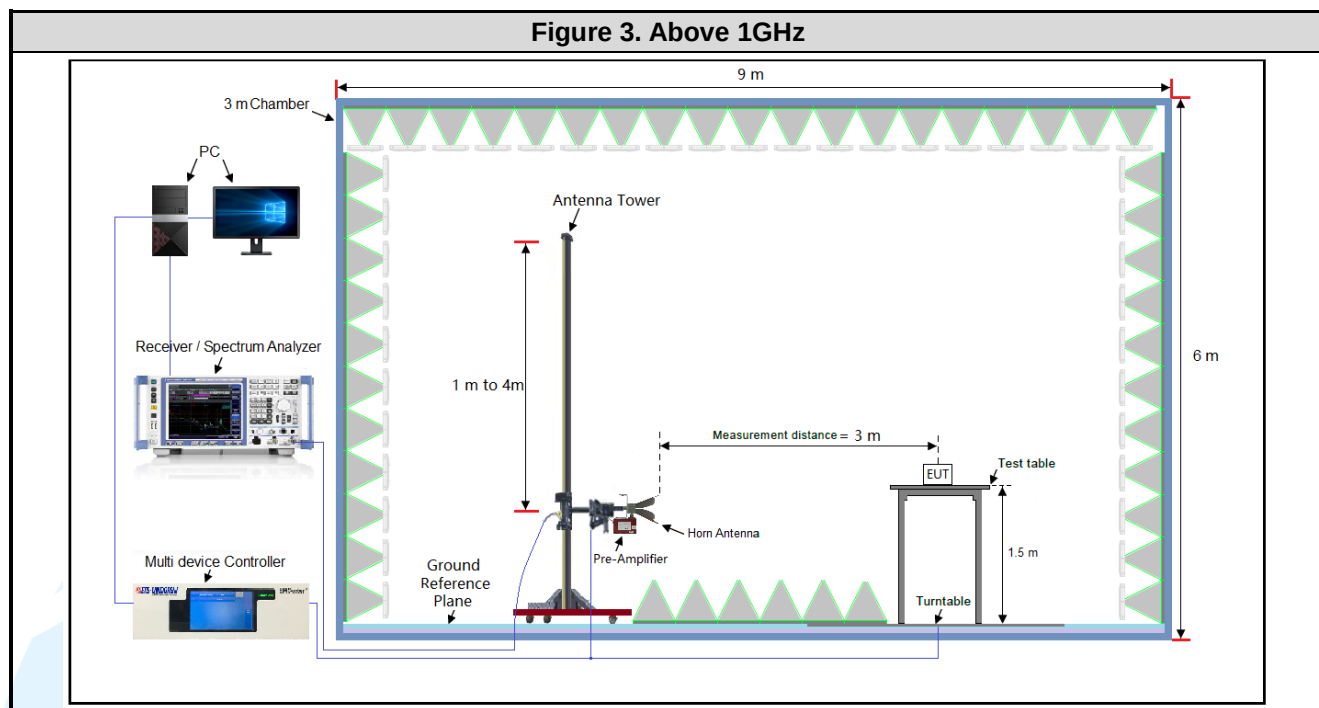
4.3 TEST MODES

Test Item	EMI Test Modes
Radiated Emission	Mode 1: Collocation – WIFI(Lowest Channel)+Satellite(Lowest Channel)
	Mode 2: Collocation – WIFI(Lowest Channel)+Satellite(Middle Channel)
	Mode 3: Collocation – WIFI(Lowest Channel)+Satellite(Highest Channel)
	Mode 4: Collocation – WIFI(Middle Channel)+Satellite(Lowest Channel)
	Mode 5: Collocation – WIFI(Middle Channel)+Satellite(Middle Channel)
	Mode 6: Collocation – WIFI(Middle Channel)+Satellite(Highest Channel)
	Mode 7: Collocation – WIFI(Highest Channel)+Satellite(Lowest Channel)
	Mode 8: Collocation – WIFI(Highest Channel)+Satellite(Middle Channel)
	Mode 9: Collocation – WIFI(Highest Channel)+Satellite(Highest Channel)

4.4 TEST SETUP

4.4.1 For Radiated Emissions test setup





4.5 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by a 3.7V battery. Only the worst case data were recorded in this test report.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. Therefore, all final radiated testing was performed with the EUT in (see table below) orientation.

Frequency	Mode	Antenna Port	Worst-case axis positioning
Above 1GHz	1TX	Chain 0	Z axis

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	FCC 47 CFR Part 25	Satellite Communications
5	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

5.2 RADIATED SPURIOUS EMISSIONS

Test Requirement: Part 15 Subpart (c) 15.247 / Part 25 Section 25.202 (f)

Test Method: ANSI C63.10-2013 / ANSI C63.26-2015, clause 5.5

Part 25 Limit:

- (1) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: 25 dB;
- (2) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: 35 dB;
- (3) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: An amount equal to 43 dB plus 10 times the logarithm (to the base 10) of the transmitter power in watts;
- (4) In any event, when an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in paragraphs (f) (1), (2) and (3) of this section.

Part 15 Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBμV/m)	Remark	Measurement distance (m)
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0.009 MHz-0.490 MHz	2400/F(kHz)	--	--	300
0.490 MHz-1.705 MHz	24000/F(kHz)	--	--	30
1.705 MHz-30 MHz	30	--	--	30
30 MHz-88 MHz	100	40.0	Quasi-peak	3
88 MHz-216 MHz	150	43.5	Quasi-peak	3
216 MHz-960 MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1 GHz	500	54.0	Average	3

Remark:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

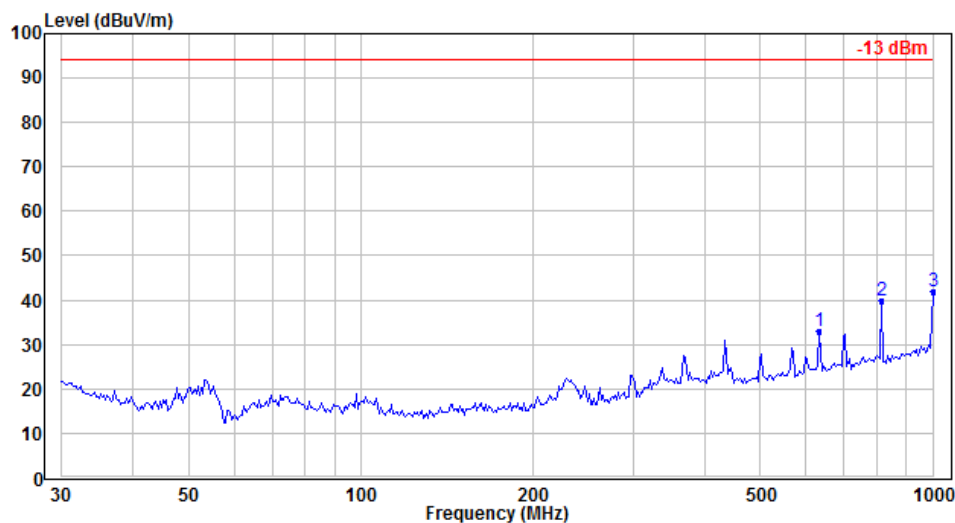
Test Setup: Refer to section 4.4.1 for details.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

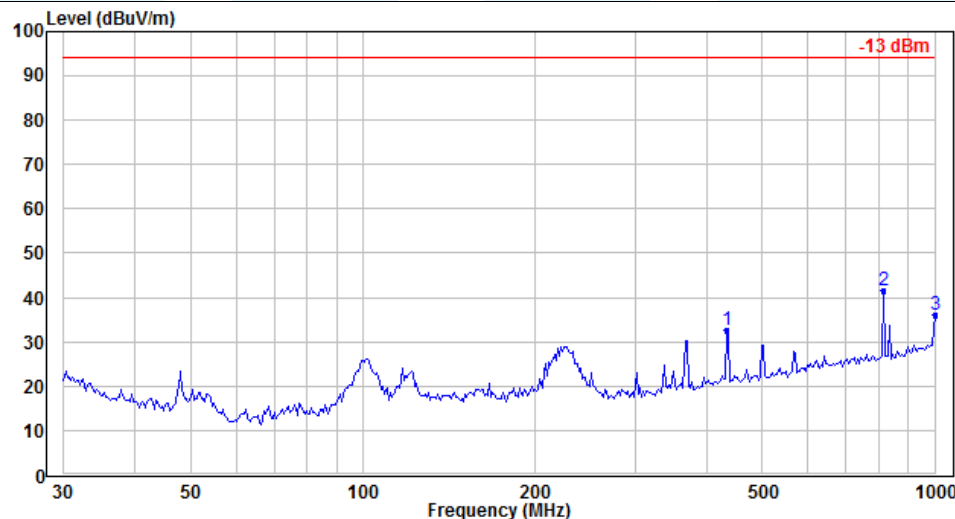
The measurement data as follows:

Below 1GHz
Mode1
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	633.328	33.65	-0.81	32.84	94.00	-61.16	Peak
2	815.635	38.40	1.43	39.83	94.00	-54.17	Peak
3	1000.000	36.50	5.27	41.77	94.00	-52.23	Peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	433.340	37.22	-4.42	32.80	94.00	-61.20	Peak
2	815.635	40.22	1.43	41.65	94.00	-52.35	Peak
3	1000.000	30.82	5.27	36.09	94.00	-57.91	Peak

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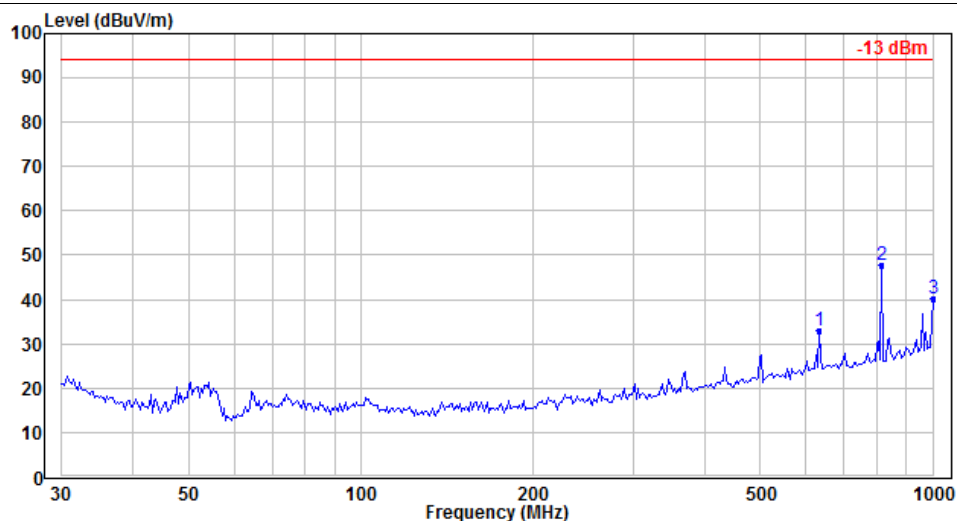
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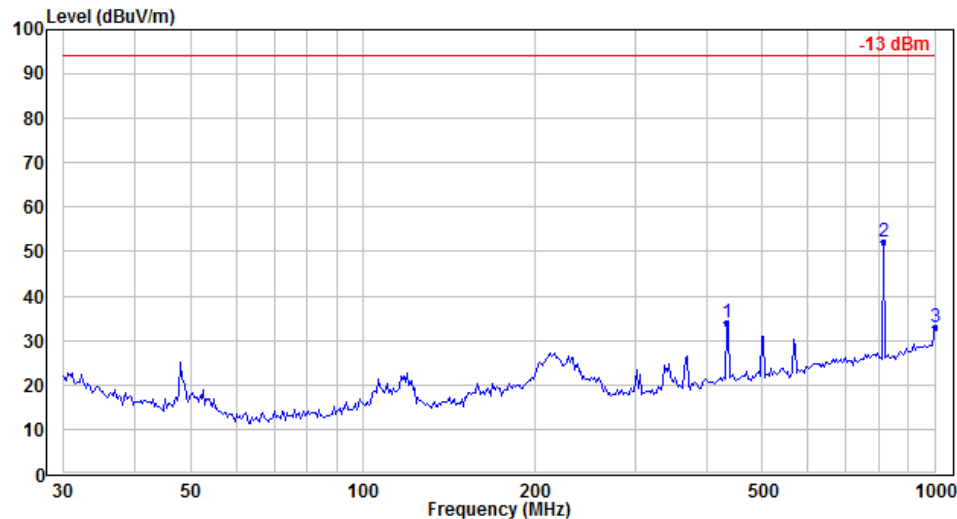
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Below 1GHz
Mode2
Horizontal



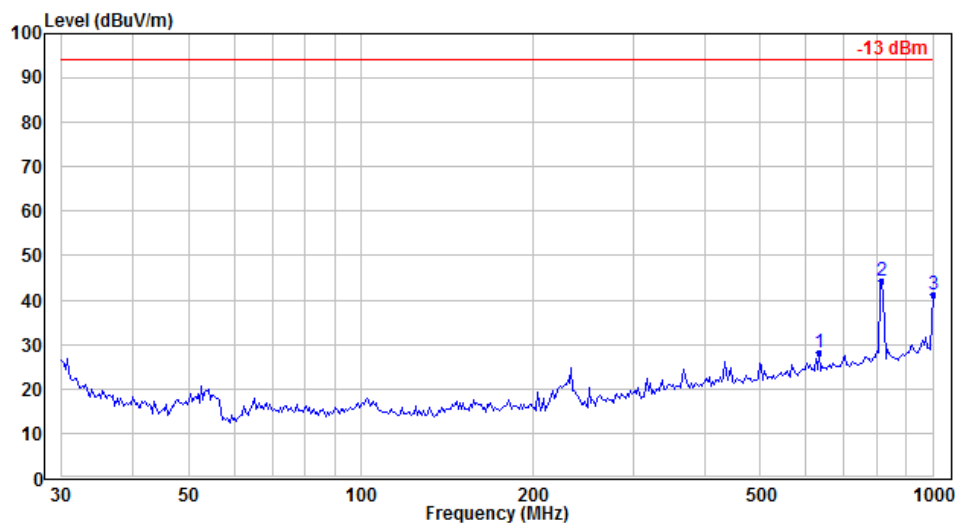
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	633.328	33.83	-0.81	33.02	94.00	-60.98	Peak
2	815.635	46.46	1.43	47.89	94.00	-46.11	Peak
3	1000.000	35.03	5.27	40.30	94.00	-53.70	Peak

Vertical



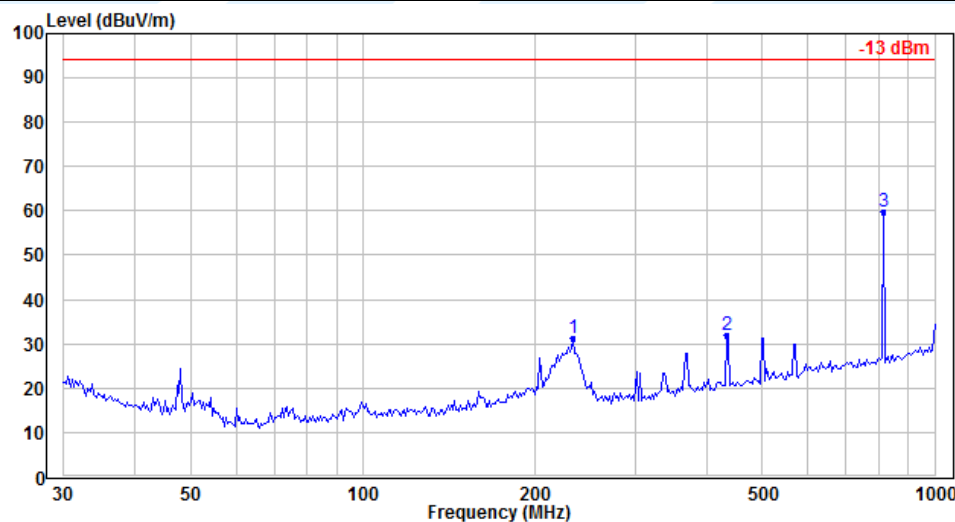
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	433.340	38.49	-4.42	34.07	94.00	-59.93	Peak
2	815.635	50.66	1.43	52.09	94.00	-41.91	Peak
3	1000.000	27.60	5.27	32.87	94.00	-61.13	Peak

Below 1GHz
Mode3
Horizontal



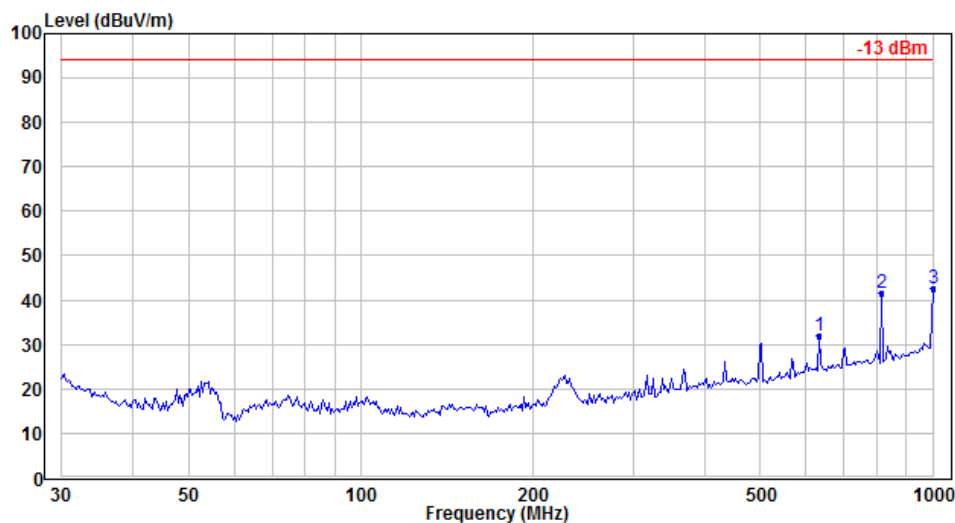
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	633.328	28.98	-0.81	28.17	94.00	-65.83	Peak
2	815.635	42.84	1.43	44.27	94.00	-49.73	Peak
3	1000.000	35.94	5.27	41.21	94.00	-52.79	Peak

Vertical



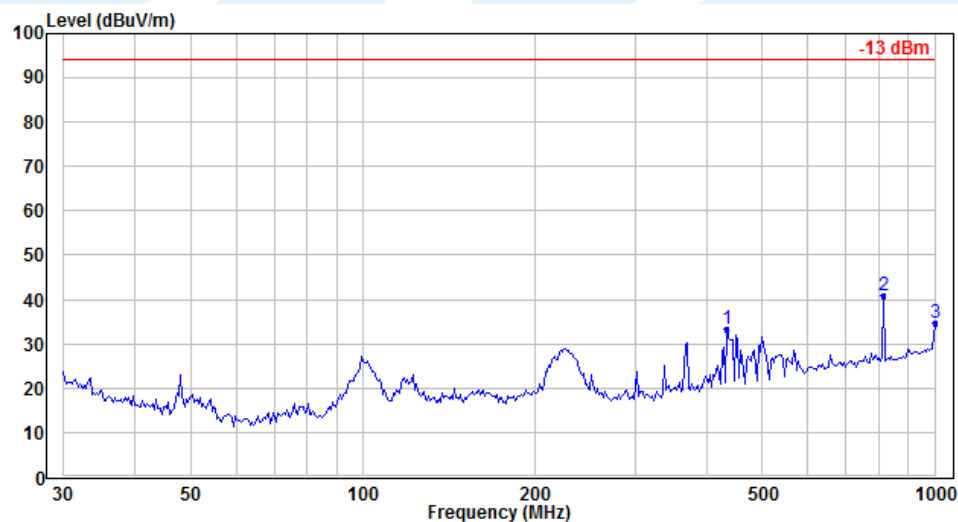
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	233.488	40.26	-9.13	31.13	94.00	-62.87	Peak
2	433.340	36.40	-4.42	31.98	94.00	-62.02	Peak
3	815.635	58.44	1.43	59.87	94.00	-34.13	Peak

Below 1GHz
Mode4
Horizontal



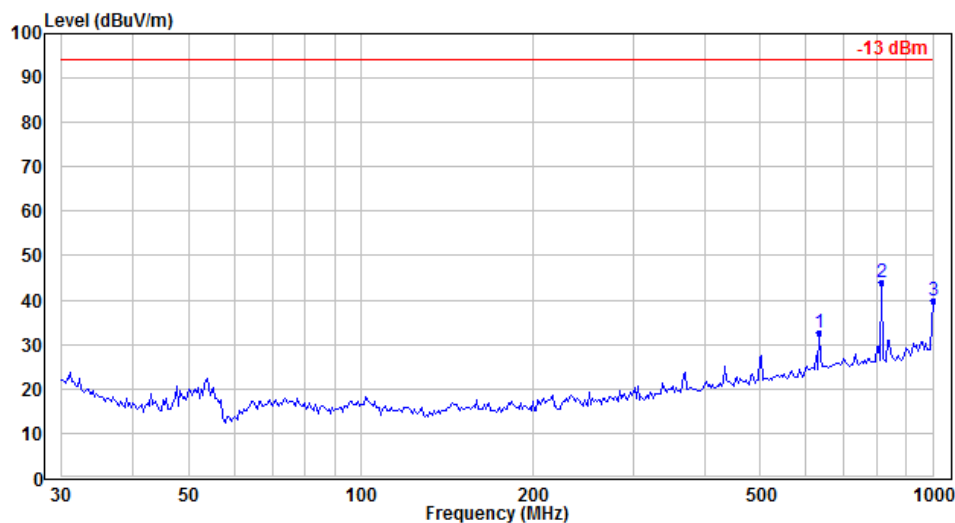
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	633.328	32.77	-0.81	31.96	94.00	-62.04	Peak
2	815.635	39.98	1.43	41.41	94.00	-52.59	Peak
3	1000.000	37.43	5.27	42.70	94.00	-51.30	Peak

Vertical



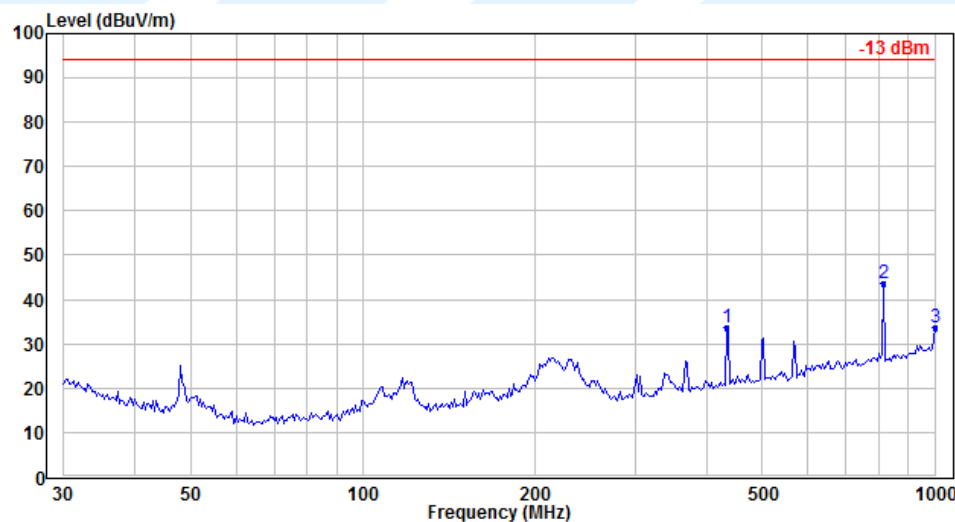
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	433.340	37.81	-4.42	33.39	94.00	-60.61	Peak
2	815.635	39.54	1.43	40.97	94.00	-53.03	Peak
3	1000.000	29.32	5.27	34.59	94.00	-59.41	Peak

Below 1GHz
Mode5
Horizontal



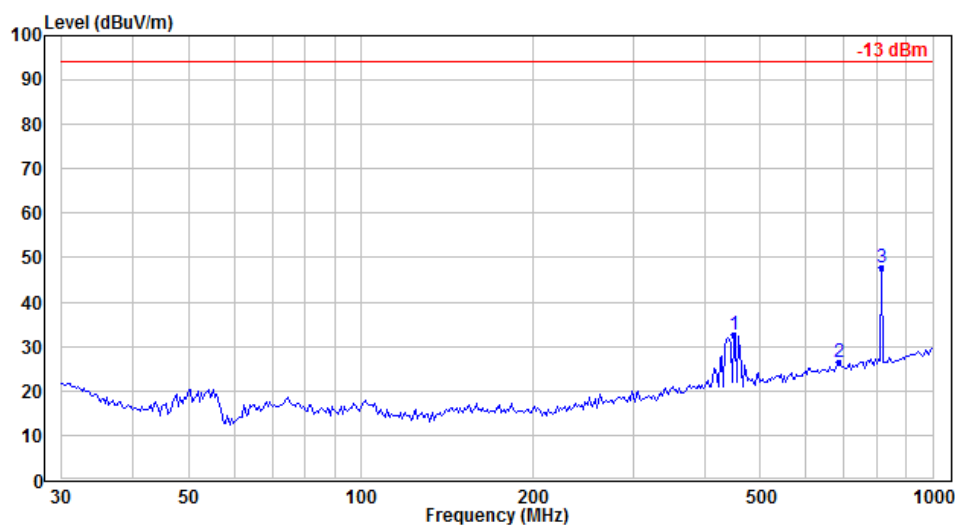
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	633.328	33.59	-0.81	32.78	94.00	-61.22	Peak
2	815.635	42.53	1.43	43.96	94.00	-50.04	Peak
3	1000.000	34.50	5.27	39.77	94.00	-54.23	Peak

Vertical



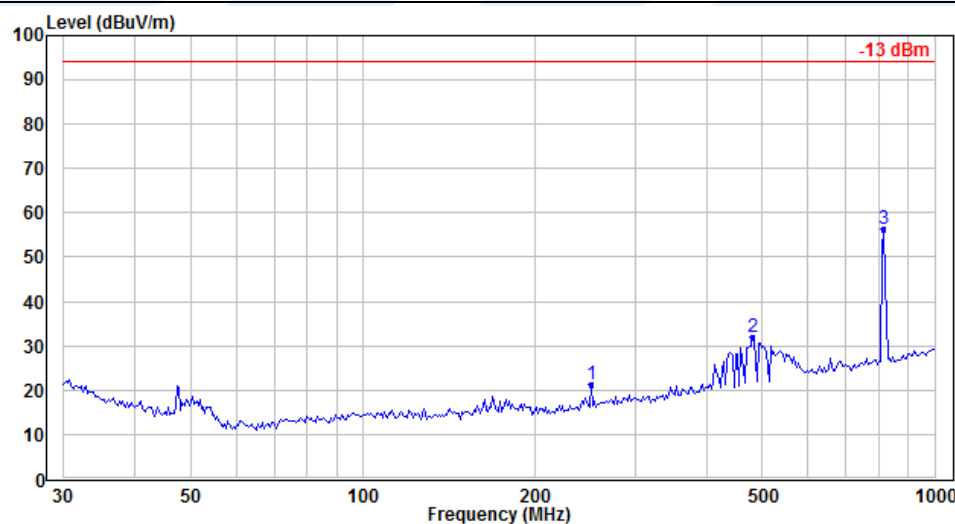
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	433.340	38.11	-4.42	33.69	94.00	-60.31	Peak
2	815.635	42.15	1.43	43.58	94.00	-50.42	Peak
3	1000.000	28.41	5.27	33.68	94.00	-60.32	Peak

Below 1GHz
Mode6
Horizontal



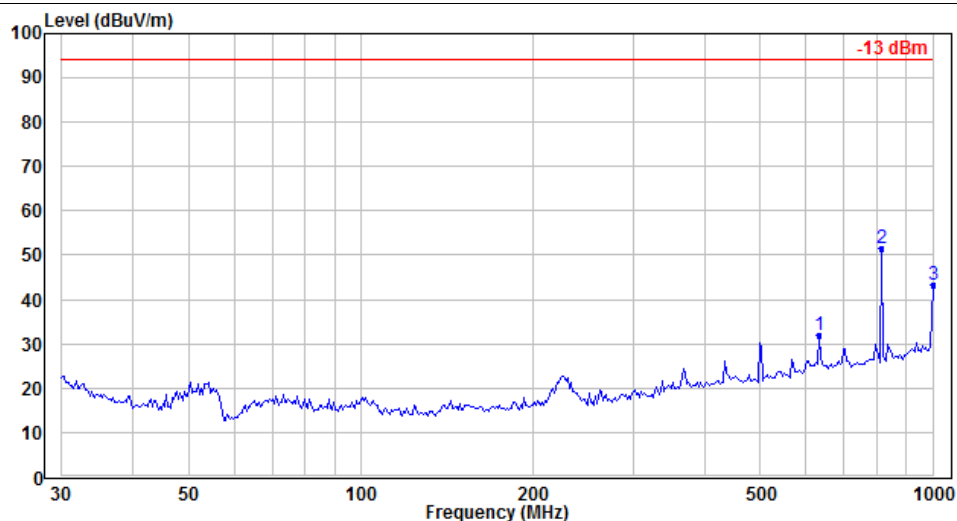
No.	Frequency (MHz)	Reading (dBUV)	Correction factor (dB)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	448.836	37.00	-4.50	32.50	94.00	-61.50	Peak
2	684.226	26.53	-0.04	26.49	94.00	-67.51	Peak
3	815.635	46.38	1.43	47.81	94.00	-46.19	Peak

Vertical



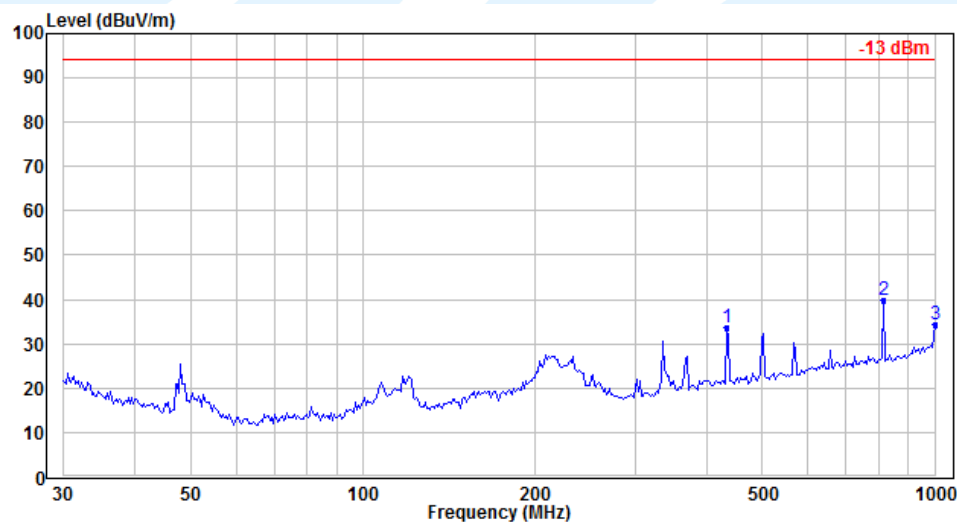
No.	Frequency (MHz)	Reading (dBUV)	Correction factor (dB)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	250.486	29.85	-8.56	21.29	94.00	-72.71	Peak
2	481.511	36.03	-3.98	32.05	94.00	-61.95	Peak
3	815.635	54.81	1.43	56.24	94.00	-37.76	Peak

Below 1GHz
Mode7
Horizontal



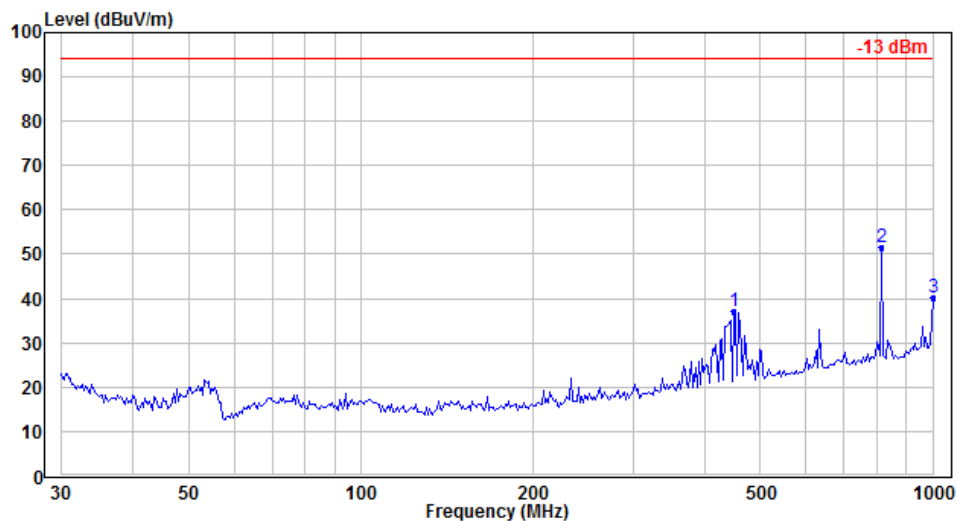
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	633.328	32.68	-0.81	31.87	94.00	-62.13	Peak
2	815.635	50.02	1.43	51.45	94.00	-42.55	Peak
3	1000.000	37.89	5.27	43.16	94.00	-50.84	Peak

Vertical



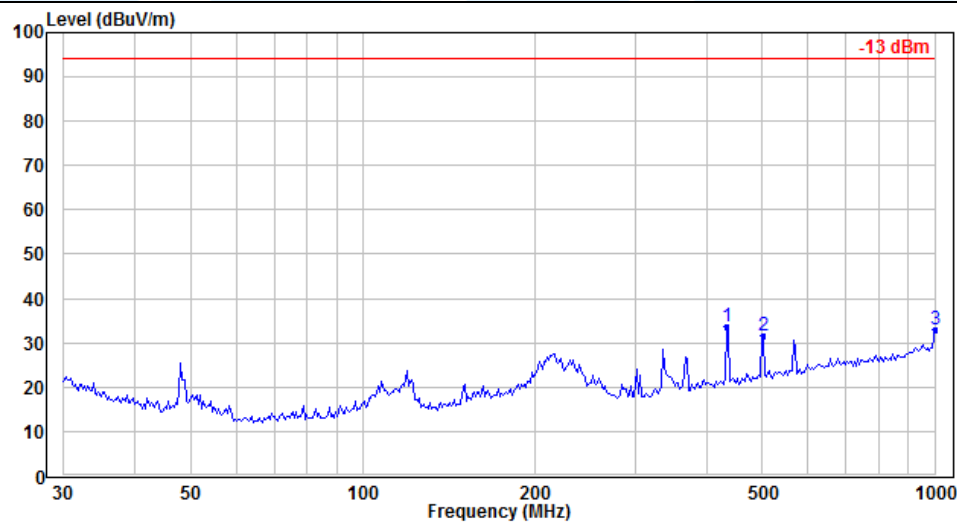
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	433.340	38.14	-4.42	33.72	94.00	-60.28	Peak
2	815.635	38.59	1.43	40.02	94.00	-53.98	Peak
3	1000.000	29.09	5.27	34.36	94.00	-59.64	Peak

Below 1GHz
Mode8
Horizontal



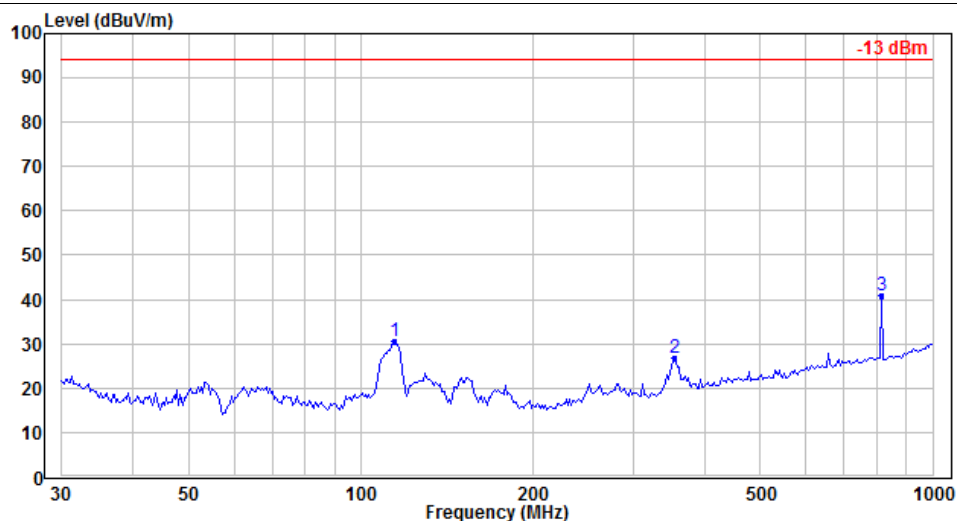
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	448.836	41.71	-4.50	37.21	94.00	-56.79	Peak
2	815.635	50.23	1.43	51.66	94.00	-42.34	Peak
3	1000.000	34.98	5.27	40.25	94.00	-53.75	Peak

Vertical



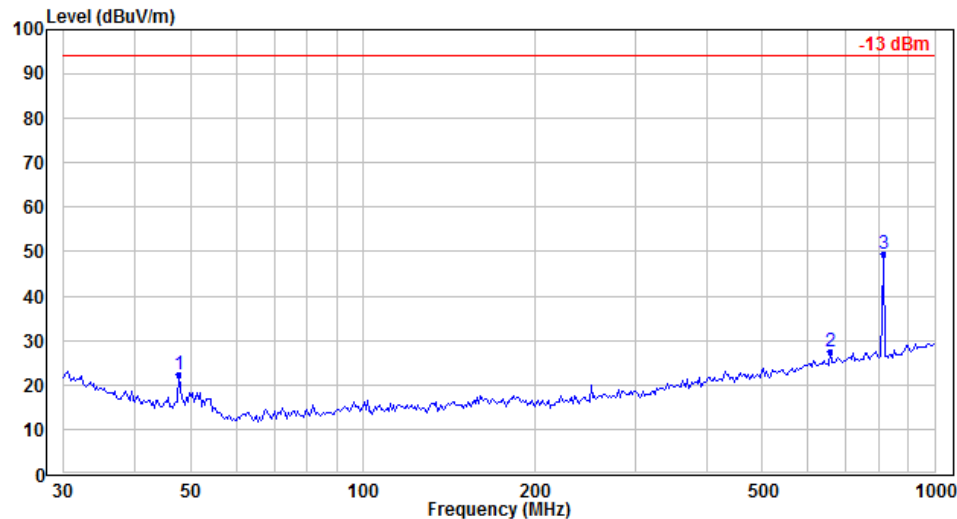
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	433.340	38.22	-4.42	33.80	94.00	-60.20	Peak
2	502.247	35.28	-3.54	31.74	94.00	-62.26	Peak
3	1000.000	27.61	5.27	32.88	94.00	-61.12	Peak

Below 1GHz
Mode9
Horizontal



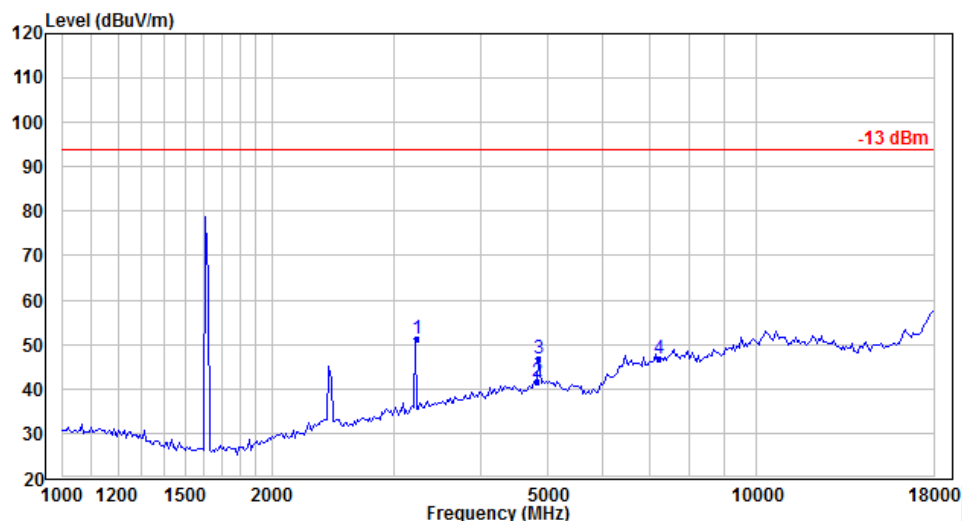
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	114.822	41.97	-11.49	30.48	94.00	-63.52	Peak
2	353.447	32.77	-5.82	26.95	94.00	-67.05	Peak
3	815.635	39.36	1.43	40.79	94.00	-53.21	Peak

Vertical



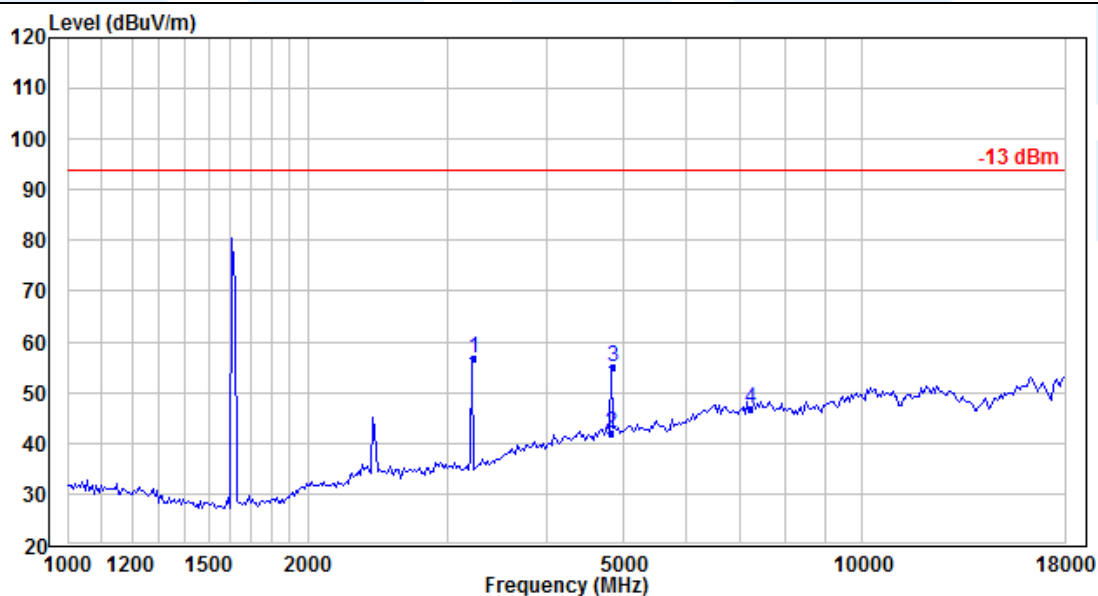
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	47.703	35.51	-13.08	22.43	94.00	-71.57	Peak
2	655.977	28.23	-0.64	27.59	94.00	-66.41	Peak
3	815.635	48.02	1.43	49.45	94.00	-44.55	Peak

Above 1GHz
Mode1
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3232.040	51.30	-0.11	51.19	94.00	-42.81	Peak
2	4824.000	37.65	3.95	41.60	94.00	-52.40	Peak
3	4848.060	42.67	3.97	46.64	94.00	-47.36	Peak
4	7236.000	39.95	6.82	46.77	94.00	-47.23	Peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3232.040	55.50	1.25	56.75	94.00	-37.25	Peak
2	4824.000	36.97	4.95	41.92	94.00	-52.08	Peak
3	4848.060	49.92	4.97	54.89	94.00	-39.11	Peak
4	7236.000	40.58	6.38	46.96	94.00	-47.04	Peak

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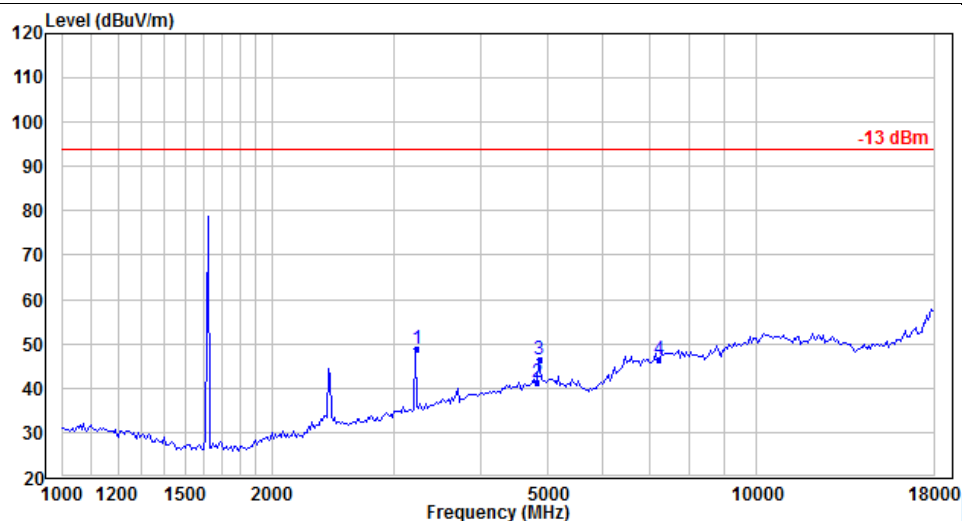
Tel: +86-755-28230888

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E-mail: info@uttlab.com

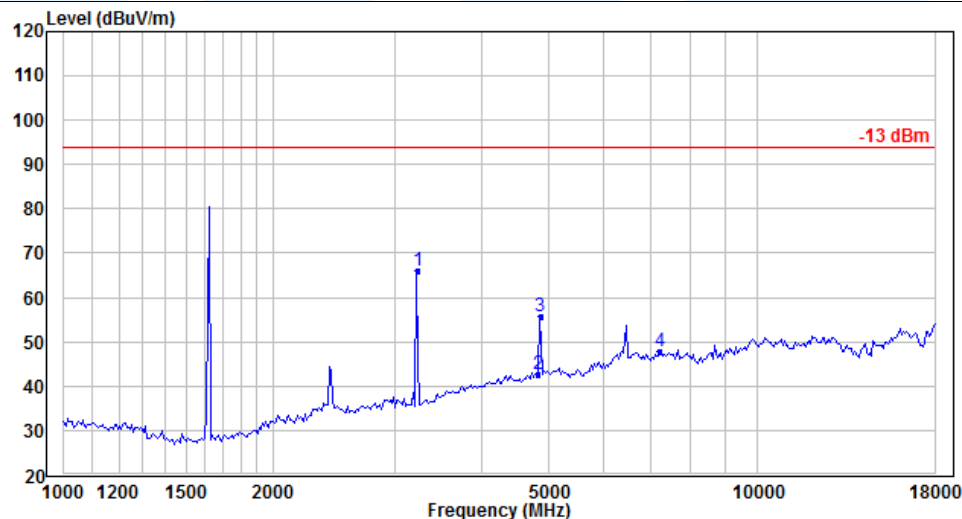
[Http://www.uttlab.com](http://www.uttlab.com)

Above 1GHz
Mode2
Horizontal



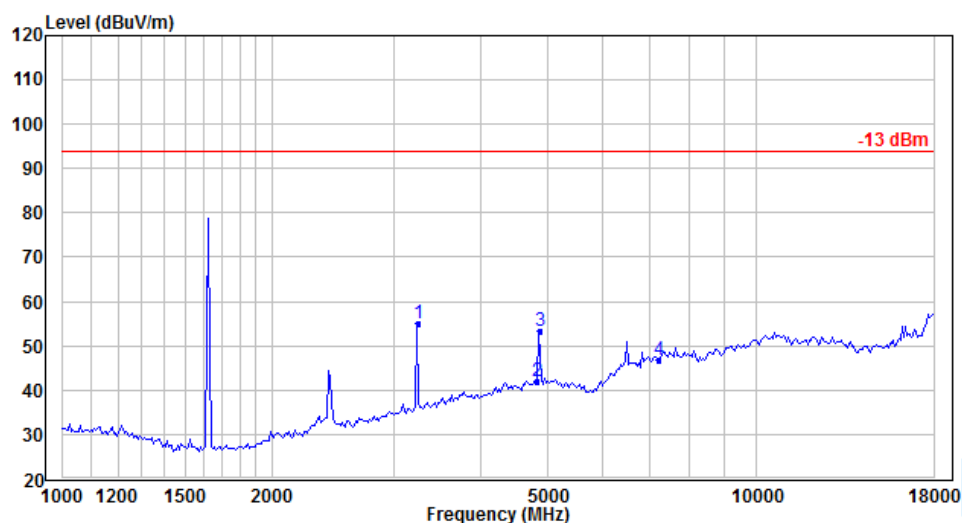
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3242.040	48.78	-0.07	48.71	94.00	-45.29	Peak
2	4824.000	37.49	3.95	41.44	94.00	-52.56	Peak
3	4863.060	42.40	3.99	46.39	94.00	-47.61	Peak
4	7236.000	39.66	6.82	46.48	94.00	-47.52	Peak

Vertical



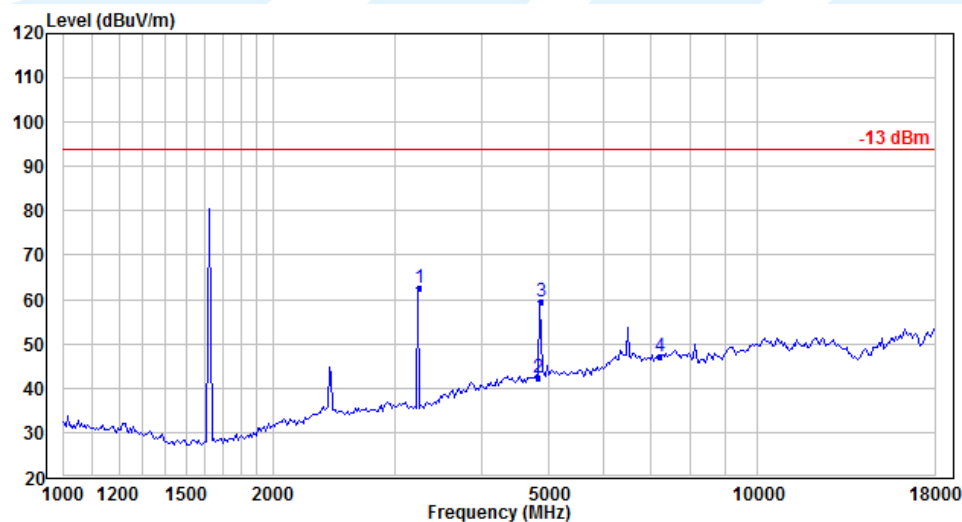
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3242.040	64.72	1.29	66.01	94.00	-27.99	Peak
2	4824.000	37.59	4.95	42.54	94.00	-51.46	Peak
3	4863.060	50.79	4.99	55.78	94.00	-38.22	Peak
4	7236.000	41.30	6.38	47.68	94.00	-46.32	Peak

Above 1GHz
Mode3
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3251.940	55.01	-0.04	54.97	94.00	-39.03	Peak
2	4824.000	37.89	3.95	41.84	94.00	-52.16	Peak
3	4877.910	49.22	4.00	53.22	94.00	-40.78	Peak
4	7236.000	39.89	6.82	46.71	94.00	-47.29	Peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3251.940	61.36	1.31	62.67	94.00	-31.33	Peak
2	4824.000	37.25	4.95	42.20	94.00	-51.80	Peak
3	4877.910	54.66	5.00	59.66	94.00	-34.34	Peak
4	7236.000	40.90	6.38	47.28	94.00	-46.72	Peak

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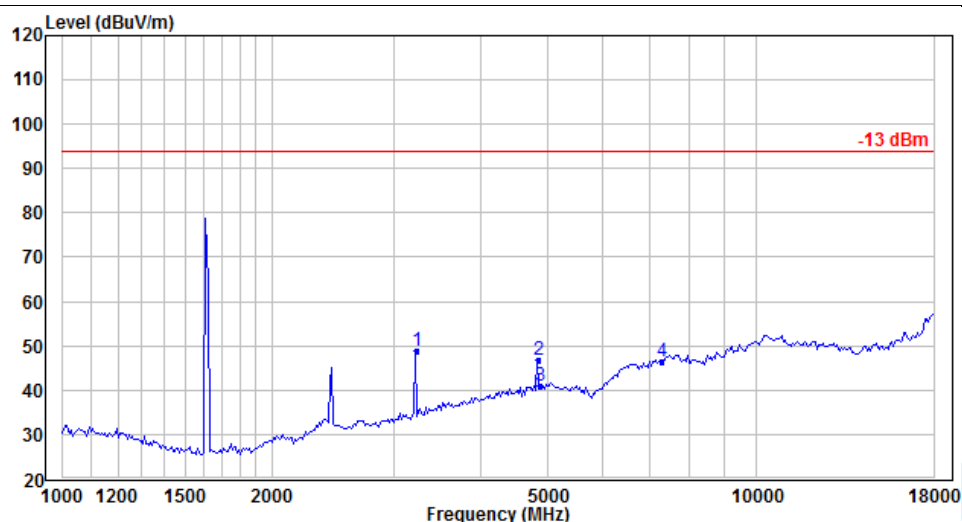
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E-mail: info@uttlab.com

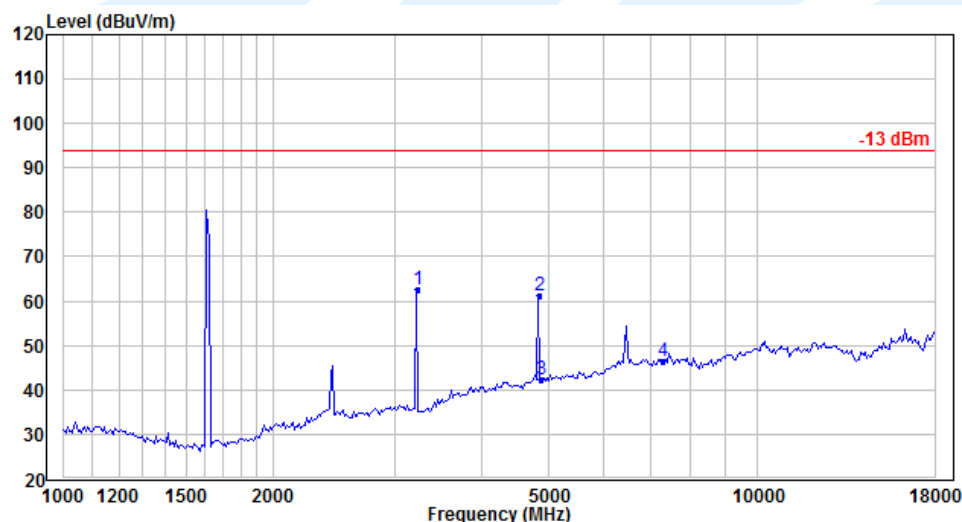
[Http://www.uttlab.com](http://www.uttlab.com)

Above 1GHz
Mode4
Horizontal



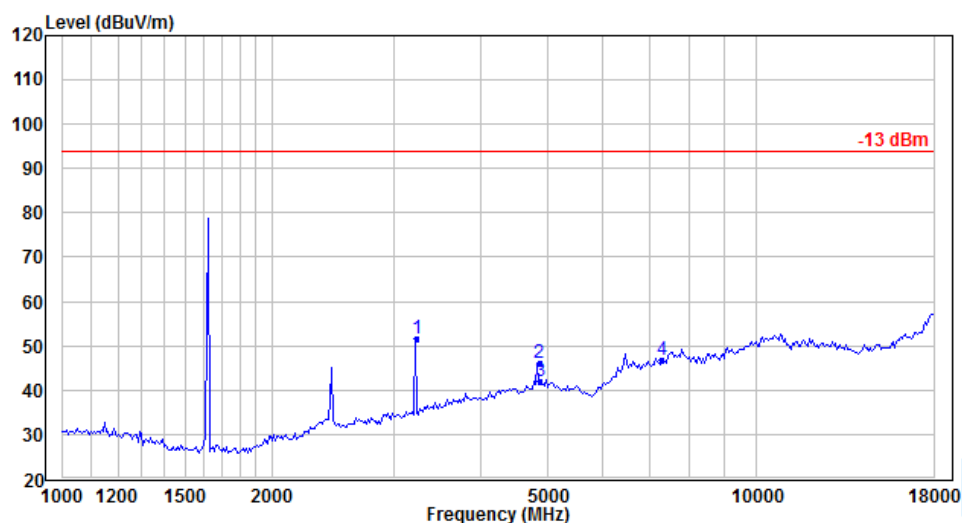
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3232.040	49.10	-0.11	48.99	94.00	-45.01	Peak
2	4848.060	42.78	3.97	46.75	94.00	-47.25	Peak
3	4874.000	36.81	3.99	40.80	94.00	-53.20	Peak
4	7311.000	39.50	6.96	46.46	94.00	-47.54	Peak

Vertical



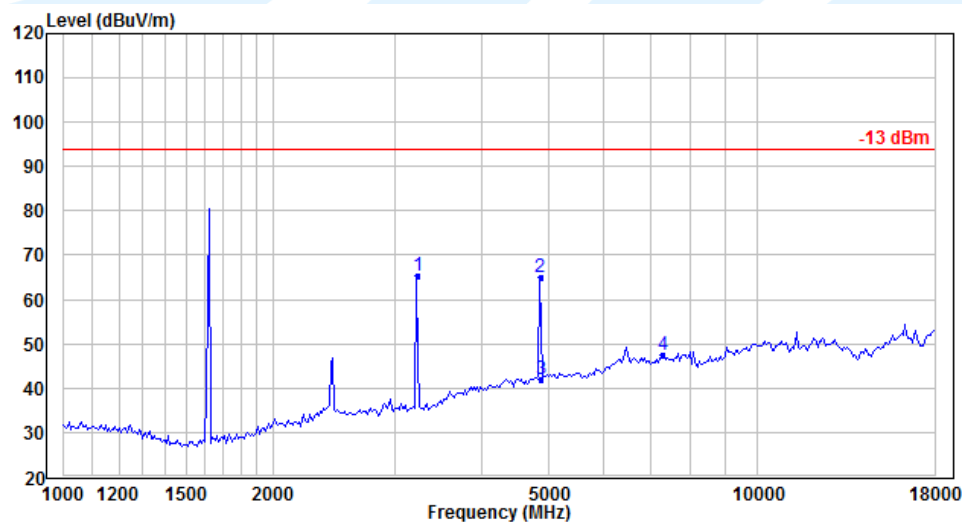
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3232.040	61.51	1.25	62.76	94.00	-31.24	Peak
2	4848.060	56.39	4.97	61.36	94.00	-32.64	Peak
3	4874.000	37.52	4.99	42.51	94.00	-51.49	Peak
4	7311.000	40.08	6.47	46.55	94.00	-47.45	Peak

Above 1GHz
Mode5
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3242.040	51.81	-0.07	51.74	94.00	-42.26	Peak
2	4863.060	42.04	3.99	46.03	94.00	-47.97	Peak
3	4874.000	38.04	3.99	42.03	94.00	-51.97	Peak
4	7311.000	39.70	6.96	46.66	94.00	-47.34	Peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3242.040	63.94	1.29	65.23	94.00	-28.77	Peak
2	4863.060	60.15	4.99	65.14	94.00	-28.86	Peak
3	4874.000	37.07	4.99	42.06	94.00	-51.94	Peak
4	7311.000	40.94	6.47	47.41	94.00	-46.59	Peak

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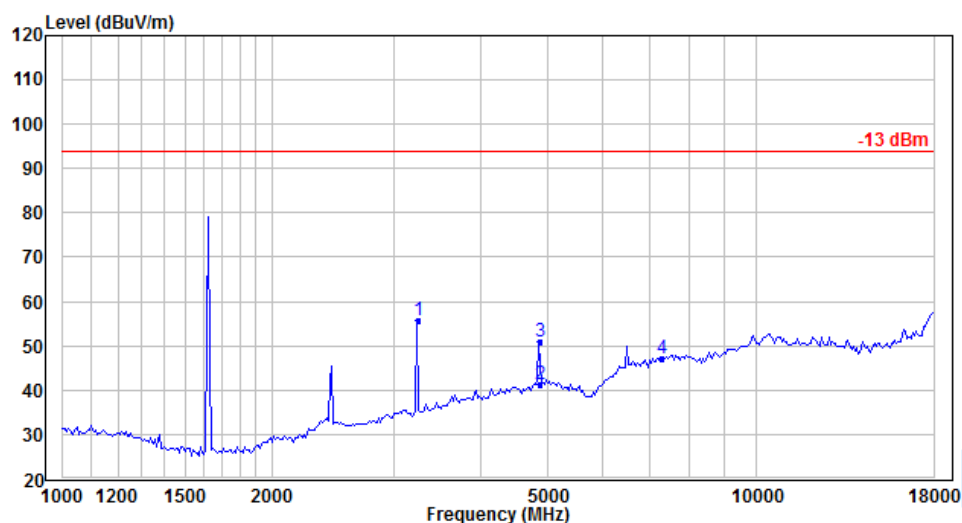
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E-mail: info@uttlab.com

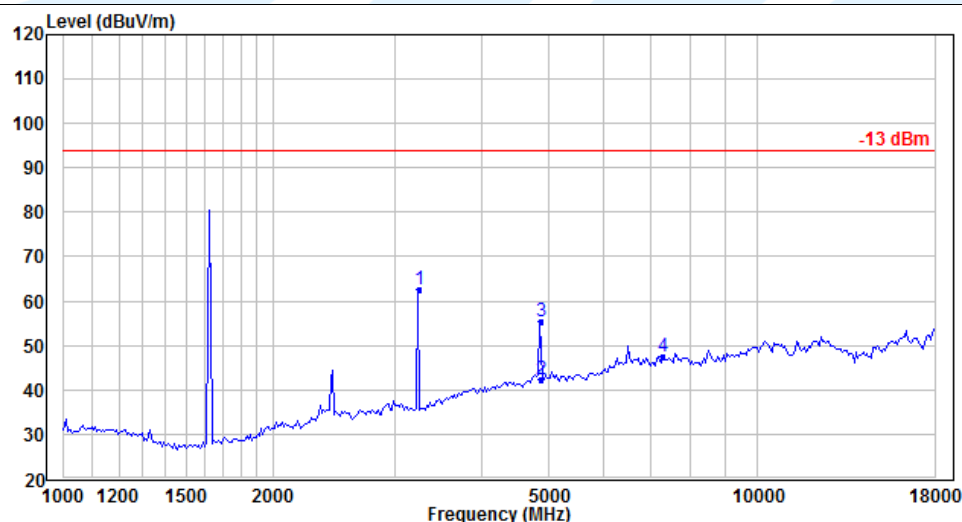
[Http://www.uttlab.com](http://www.uttlab.com)

Above 1GHz
Mode6
Horizontal



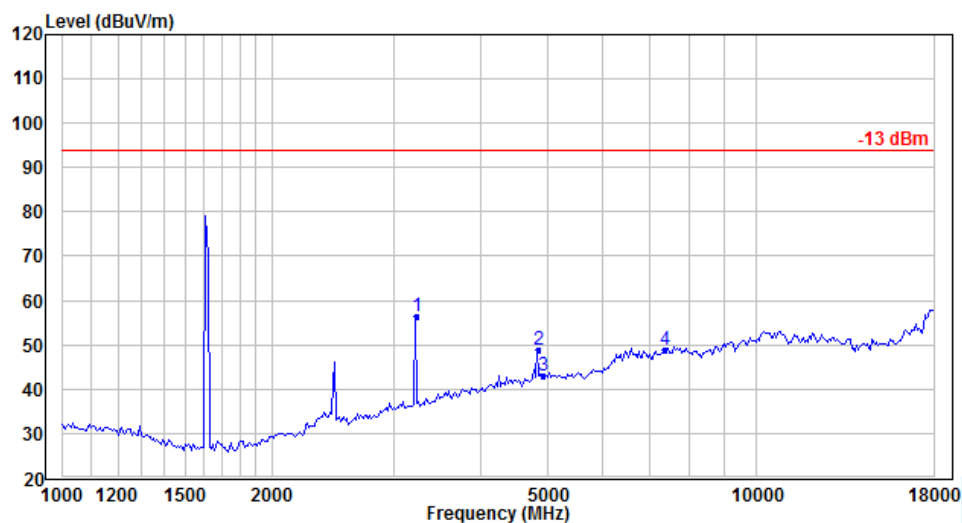
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3251.940	55.82	-0.04	55.78	94.00	-38.22	Peak
2	4874.000	37.37	3.99	41.36	94.00	-52.64	Peak
3	4877.910	47.09	4.00	51.09	94.00	-42.91	Peak
4	7311.000	40.21	6.96	47.17	94.00	-46.83	Peak

Vertical



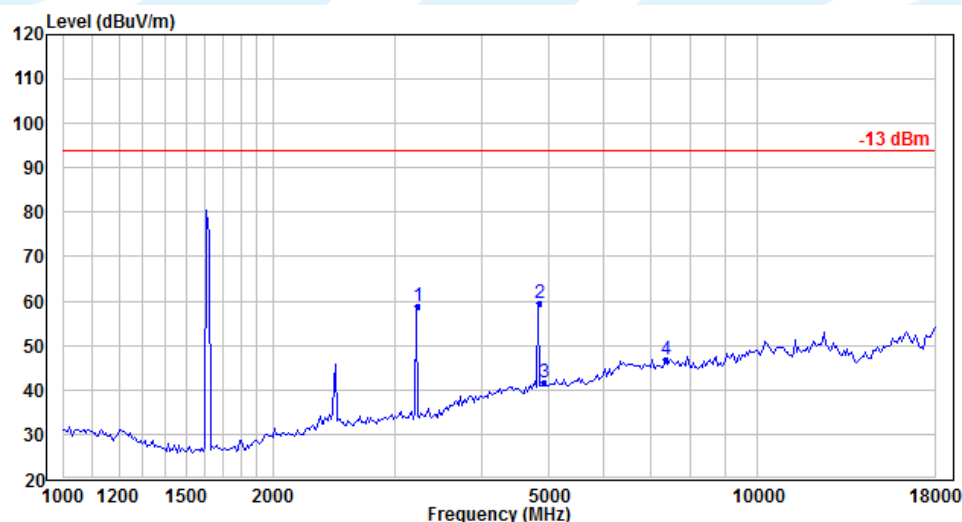
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3251.940	61.25	1.31	62.56	94.00	-31.44	Peak
2	4874.000	37.40	4.99	42.39	94.00	-51.61	Peak
3	4877.910	50.35	5.00	55.35	94.00	-38.65	Peak
4	7311.000	41.07	6.47	47.54	94.00	-46.46	Peak

Above 1GHz
Mode7
Horizontal



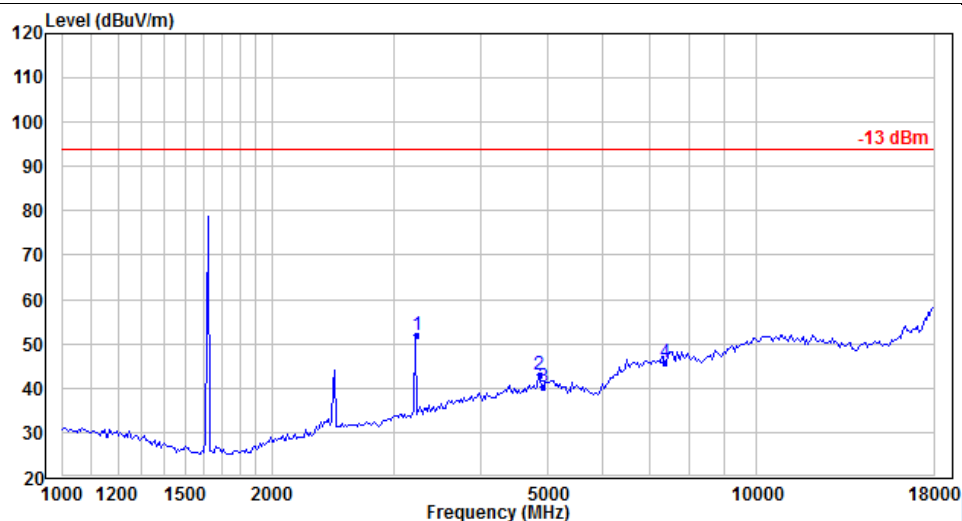
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3232.040	56.39	-0.11	56.28	94.00	-37.72	Peak
2	4848.060	44.82	3.97	48.79	94.00	-45.21	Peak
3	4924.000	39.06	4.03	43.09	94.00	-50.91	Peak
4	7386.000	41.71	7.09	48.80	94.00	-45.20	Peak

Vertical



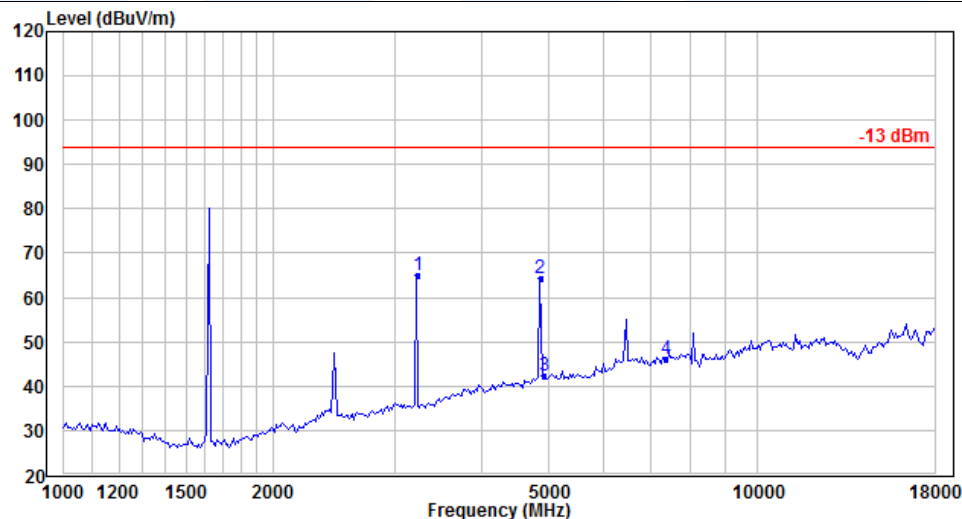
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3232.040	57.72	1.25	58.97	94.00	-35.03	Peak
2	4848.060	54.59	4.97	59.56	94.00	-34.44	Peak
3	4924.000	36.70	5.03	41.73	94.00	-52.27	Peak
4	7386.000	40.20	6.56	46.76	94.00	-47.24	Peak

Above 1GHz
Mode8
Horizontal



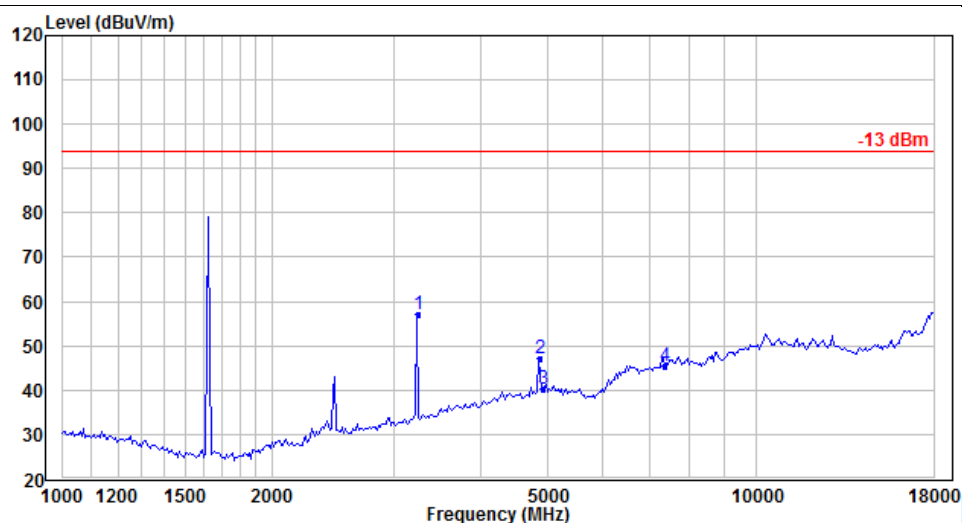
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3242.040	52.16	-0.07	52.09	94.00	-41.91	Peak
2	4863.060	38.99	3.99	42.98	94.00	-51.02	Peak
3	4924.000	36.32	4.03	40.35	94.00	-53.65	Peak
4	7386.000	38.68	7.09	45.77	94.00	-48.23	Peak

Vertical



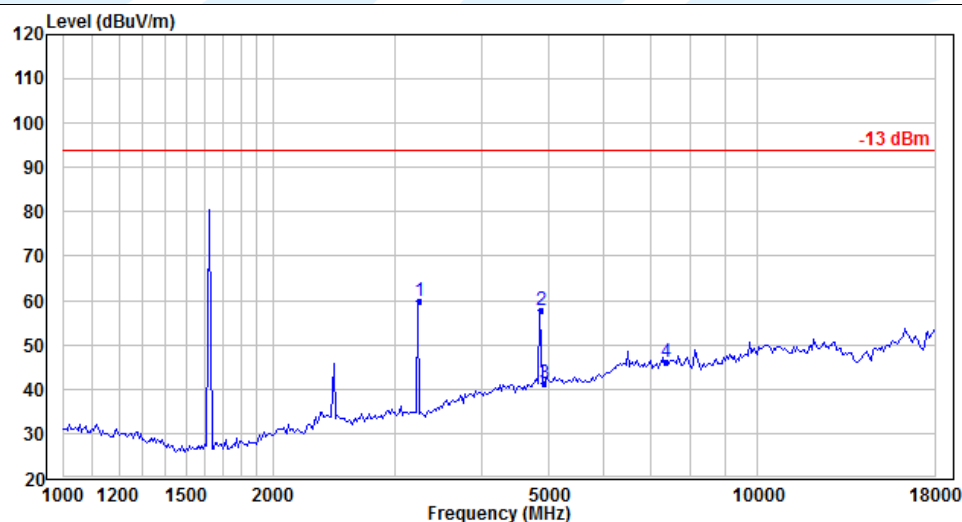
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3242.040	63.83	1.29	65.12	94.00	-28.88	Peak
2	4863.060	59.50	4.99	64.49	94.00	-29.51	Peak
3	4924.000	37.21	5.03	42.24	94.00	-51.76	Peak
4	7386.000	39.66	6.56	46.22	94.00	-47.78	Peak

Above 1GHz
Mode9
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3251.940	57.25	-0.04	57.21	94.00	-36.79	Peak
2	4877.910	43.00	4.00	47.00	94.00	-47.00	Peak
3	4924.000	36.14	4.03	40.17	94.00	-53.83	Peak
4	7386.000	38.41	7.09	45.50	94.00	-48.50	Peak

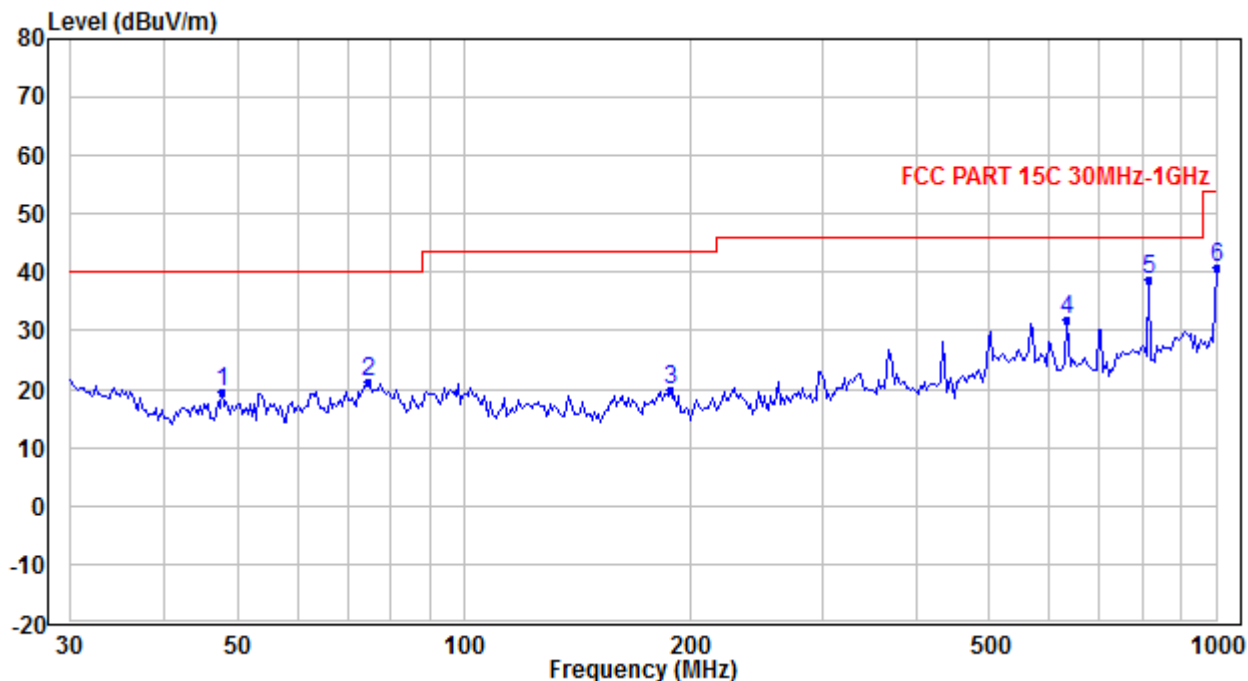
Vertical



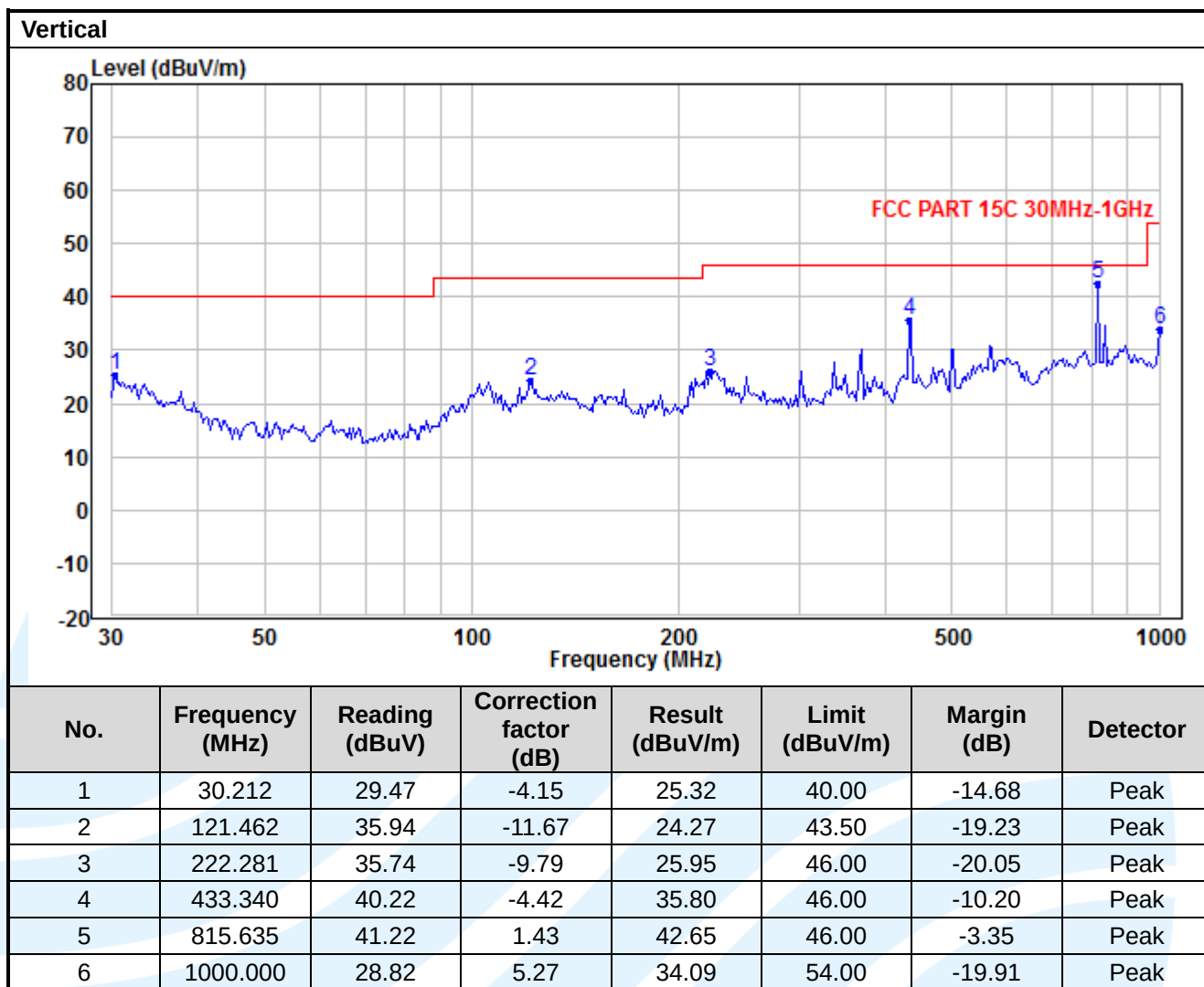
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3251.940	58.46	1.31	59.77	94.00	-34.23	Peak
2	4877.910	52.78	5.00	57.78	94.00	-36.22	Peak
3	4924.000	36.39	5.03	41.42	94.00	-52.58	Peak
4	7386.000	39.62	6.56	46.18	94.00	-47.82	Peak

Radiated Emission Test Data (9 KHz ~ 30 MHz):

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

Radiated Emission Test Data (30 MHz ~ 1 GHz):
Worst-Case Configuration(Mode 1)
Horizontal


No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	47.703	32.50	-13.08	19.42	40.00	-20.58	Peak
2	74.793	34.61	-13.33	21.28	40.00	-18.72	Peak
3	187.783	29.77	-10.01	19.76	43.50	-23.74	Peak
4	633.328	32.65	-0.81	31.84	46.00	-14.16	Peak
5	815.635	37.40	1.43	38.83	46.00	-7.17	Peak
6	1000.000	35.50	5.27	40.77	54.00	-13.23	Peak



Radiated Emission Test Data (Above 1GHz):
Mode1

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	3232.04	51.30	-0.11	51.19	74.00	-22.81	Peak	Horizontal
2	3232.04	32.30	-0.11	32.19	54.00	-21.81	Average	Horizontal
3	4824.00	37.65	3.95	41.60	74.00	-32.40	Peak	Horizontal
4	4824.00	20.65	3.95	24.60	54.00	-29.40	Average	Horizontal
5	4848.06	42.67	3.97	46.64	74.00	-27.36	Peak	Horizontal
6	4848.06	23.67	3.97	27.64	54.00	-26.36	Average	Horizontal
7	7236.00	39.95	6.82	46.77	74.00	-27.23	Peak	Horizontal
8	7236.00	22.95	6.82	29.77	54.00	-24.23	Average	Horizontal
9	3232.04	52.51	1.25	53.76	74.00	-20.24	Peak	Vertical
10	3232.04	34.51	1.25	35.76	54.00	-18.24	Average	Vertical
11	4824.00	36.97	4.95	41.92	74.00	-32.08	Peak	Vertical
12	4824.00	17.97	4.95	22.92	54.00	-31.08	Average	Vertical
13	4848.06	48.91	4.97	53.88	74.00	-20.12	Peak	Vertical
14	4848.06	28.91	4.97	33.88	54.00	-20.12	Average	Vertical
15	7236.00	39.16	6.38	45.54	74.00	-28.46	Peak	Vertical
16	7236.00	20.16	6.38	26.54	54.00	-27.46	Average	Vertical

Mode2

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	3242.04	44.49	-0.07	44.42	74.00	-29.58	Peak	Horizontal
2	3242.04	26.49	-0.07	26.42	54.00	-27.58	Average	Horizontal
3	4824.00	34.60	3.95	38.55	74.00	-35.45	Peak	Horizontal
4	4824.00	18.60	3.95	22.55	54.00	-31.45	Average	Horizontal
5	4863.06	38.56	3.99	42.55	74.00	-31.45	Peak	Horizontal
6	4863.06	19.56	3.99	23.55	54.00	-30.45	Average	Horizontal
7	7236.00	37.60	6.82	44.42	74.00	-29.58	Peak	Horizontal
8	7236.00	19.60	6.82	26.42	54.00	-27.58	Average	Horizontal
9	3242.04	61.94	1.29	63.23	74.00	-10.77	Peak	Vertical
10	3242.04	42.94	1.29	44.23	54.00	-9.77	Average	Vertical
11	4824.00	37.59	4.95	42.54	74.00	-31.46	Peak	Vertical
12	4824.00	17.59	4.95	22.54	54.00	-31.46	Average	Vertical
13	4863.06	52.91	4.99	57.90	74.00	-16.10	Peak	Vertical
14	4863.06	34.91	4.99	39.90	54.00	-14.10	Average	Vertical
15	7236.00	41.51	6.38	47.89	74.00	-26.11	Peak	Vertical
16	7236.00	23.51	6.38	29.89	54.00	-24.11	Average	Vertical

Mode3								
No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	3251.94	52.21	-0.04	52.17	74.00	-21.83	Peak	Horizontal
2	3251.94	35.21	-0.04	35.17	54.00	-18.83	Average	Horizontal
3	4824.00	34.82	3.95	38.77	74.00	-35.23	Peak	Horizontal
4	4824.00	18.82	3.95	22.77	54.00	-31.23	Average	Horizontal
5	4877.91	44.09	4.00	48.09	74.00	-25.91	Peak	Horizontal
6	4877.91	26.09	4.00	30.09	54.00	-23.91	Average	Horizontal
7	7236.00	36.89	6.82	43.71	74.00	-30.29	Peak	Horizontal
8	7236.00	18.89	6.82	25.71	54.00	-28.29	Average	Horizontal
9	3251.94	59.21	1.31	60.52	74.00	-13.48	Peak	Vertical
10	3251.94	41.21	1.31	42.52	54.00	-11.48	Average	Vertical
11	4824.00	35.93	4.95	40.88	74.00	-33.12	Peak	Vertical
12	4824.00	18.93	4.95	23.88	54.00	-30.12	Average	Vertical
13	4877.91	51.66	5.00	56.66	74.00	-17.34	Peak	Vertical
14	4877.91	33.66	5.00	38.66	54.00	-15.34	Average	Vertical
15	7236.00	37.20	6.38	43.58	74.00	-30.42	Peak	Vertical
16	7236.00	18.20	6.38	24.58	54.00	-29.42	Average	Vertical

Mode4								
No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	3232.04	46.20	-0.11	46.09	74.00	-27.91	Peak	Horizontal
2	3232.04	27.20	-0.11	27.09	54.00	-26.91	Average	Horizontal
3	4848.06	39.06	3.97	43.03	74.00	-30.97	Peak	Horizontal
4	4848.06	20.06	3.97	24.03	54.00	-29.97	Average	Horizontal
5	4874.00	33.92	3.99	37.91	74.00	-36.09	Peak	Horizontal
6	4874.00	14.92	3.99	18.91	54.00	-35.09	Average	Horizontal
7	7311.00	33.65	6.96	40.61	74.00	-33.39	Peak	Horizontal
8	7311.00	12.65	6.96	19.61	54.00	-34.39	Average	Horizontal
9	3232.04	64.92	1.25	66.17	74.00	-7.83	Peak	Vertical
10	3232.04	45.92	1.25	47.17	54.00	-6.83	Average	Vertical
11	4848.06	55.95	4.97	60.92	74.00	-13.08	Peak	Vertical
12	4848.06	38.95	4.97	43.92	54.00	-10.08	Average	Vertical
13	4874.00	37.30	4.99	42.29	74.00	-31.71	Peak	Vertical
14	4874.00	19.30	4.99	24.29	54.00	-29.71	Average	Vertical
15	7311.00	40.31	7.47	47.78	74.00	-26.22	Peak	Vertical
16	7311.00	20.31	7.47	27.78	54.00	-26.22	Average	Vertical

Mode5								
No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	3242.04	49.89	-0.07	49.82	74.00	-24.18	Peak	Horizontal
2	3242.04	32.89	-0.07	32.82	54.00	-21.18	Average	Horizontal
3	4863.06	37.06	3.99	41.05	74.00	-32.95	Peak	Horizontal
4	4863.06	16.06	3.99	20.05	54.00	-33.95	Average	Horizontal
5	4874.00	33.04	3.99	37.03	74.00	-36.97	Peak	Horizontal
6	4874.00	13.04	3.99	17.03	54.00	-36.97	Average	Horizontal
7	7311.00	33.39	6.96	40.35	74.00	-33.65	Peak	Horizontal
8	7311.00	14.39	6.96	21.35	54.00	-32.65	Average	Horizontal
9	3242.04	65.94	1.29	67.23	74.00	-6.77	Peak	Vertical
10	3242.04	46.94	1.29	48.23	54.00	-5.77	Average	Vertical
11	4863.06	60.15	4.99	65.14	74.00	-8.86	Peak	Vertical
12	4863.06	43.15	4.99	48.14	54.00	-5.86	Average	Vertical
13	4874.00	37.07	4.99	42.06	74.00	-31.94	Peak	Vertical
14	4874.00	21.07	4.99	26.06	54.00	-27.94	Average	Vertical
15	7311.00	39.94	6.47	46.41	74.00	-27.59	Peak	Vertical
16	7311.00	21.94	6.47	28.41	54.00	-25.59	Average	Vertical

Mode6								
No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	3251.94	53.94	-0.04	53.90	74.00	-20.10	Peak	Horizontal
2	3251.94	35.94	-0.04	35.90	54.00	-18.10	Average	Horizontal
3	4874.00	35.20	3.99	39.19	74.00	-34.81	Peak	Horizontal
4	4874.00	17.20	3.99	21.19	54.00	-32.81	Average	Horizontal
5	4877.91	45.08	4.00	49.08	74.00	-24.92	Peak	Horizontal
6	4877.91	26.08	4.00	30.08	54.00	-23.92	Average	Horizontal
7	7311.00	37.29	6.96	44.25	74.00	-29.75	Peak	Horizontal
8	7311.00	18.29	6.96	25.25	54.00	-28.75	Average	Horizontal
9	3251.94	63.30	1.31	64.61	74.00	-9.39	Peak	Vertical
10	3251.94	45.30	1.31	46.61	54.00	-7.39	Average	Vertical
11	4874.00	36.19	4.99	41.18	74.00	-32.82	Peak	Vertical
12	4874.00	17.10	4.99	22.09	54.00	-31.91	Average	Vertical
13	4877.91	52.55	5.00	57.55	74.00	-16.45	Peak	Vertical
14	4877.91	34.55	5.00	39.55	54.00	-14.45	Average	Vertical
15	7311.00	42.06	6.47	48.53	74.00	-25.47	Peak	Vertical
16	7311.00	22.06	6.47	28.53	54.00	-25.47	Average	Vertical

Mode7								
No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	3232.04	55.39	-0.11	55.28	74.00	-18.72	Peak	Horizontal
2	3232.04	36.39	-0.11	36.28	54.00	-17.72	Average	Horizontal
3	4848.06	43.82	3.97	47.79	74.00	-26.21	Peak	Horizontal
4	4848.06	24.82	3.97	28.79	54.00	-25.21	Average	Horizontal
5	4924.00	39.06	4.03	43.09	74.00	-30.91	Peak	Horizontal
6	4924.00	23.06	4.03	27.09	54.00	-26.91	Average	Horizontal
7	7386.00	41.71	7.09	48.80	74.00	-25.20	Peak	Horizontal
8	7386.00	22.71	7.09	29.80	54.00	-24.20	Average	Horizontal
9	3232.04	57.72	1.25	58.97	74.00	-15.03	Peak	Vertical
10	3232.04	40.72	1.25	41.97	54.00	-12.03	Average	Vertical
11	4848.06	54.59	4.97	59.56	74.00	-14.44	Peak	Vertical
12	4848.06	38.59	4.97	43.56	54.00	-10.44	Average	Vertical
13	4924.00	36.70	5.03	41.73	74.00	-32.27	Peak	Vertical
14	4924.00	20.70	5.03	25.73	54.00	-28.27	Average	Vertical
15	7386.00	40.20	6.56	46.76	74.00	-27.24	Peak	Vertical
16	7386.00	22.20	6.56	28.76	54.00	-25.24	Average	Vertical

Mode8								
No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	3242.04	53.65	-0.07	53.58	74.00	-20.42	Peak	Horizontal
2	3242.04	35.65	-0.07	35.58	54.00	-18.42	Average	Horizontal
3	4863.06	38.89	3.99	42.88	74.00	-31.12	Peak	Horizontal
4	4863.06	20.89	3.99	24.88	54.00	-29.12	Average	Horizontal
5	4924.00	36.26	4.03	40.29	74.00	-33.71	Peak	Horizontal
6	4924.00	18.26	4.03	22.29	54.00	-31.71	Average	Horizontal
7	7386.00	38.37	7.09	45.46	74.00	-28.54	Peak	Horizontal
8	7386.00	19.37	7.09	26.46	54.00	-27.54	Average	Horizontal
9	3242.04	65.83	1.29	67.12	74.00	-6.88	Peak	Vertical
10	3242.04	43.83	1.29	45.12	54.00	-8.88	Average	Vertical
11	4863.06	59.50	4.99	64.49	74.00	-9.51	Peak	Vertical
12	4863.06	42.50	4.99	47.49	54.00	-6.51	Average	Vertical
13	4924.00	37.21	5.03	42.24	74.00	-31.76	Peak	Vertical
14	4924.00	19.21	5.03	24.24	54.00	-29.76	Average	Vertical
15	7386.00	39.66	6.56	46.22	74.00	-27.78	Peak	Vertical
16	7386.00	20.66	6.56	27.22	54.00	-26.78	Average	Vertical

Mode9								
No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	3251.94	57.64	-0.04	57.60	74.00	-16.40	Peak	Horizontal
2	3251.94	37.64	-0.04	37.60	54.00	-16.40	Average	Horizontal
3	4877.91	43.19	4.00	47.19	74.00	-26.81	Peak	Horizontal
4	4877.91	23.19	4.00	27.19	54.00	-26.81	Average	Horizontal
5	4924.00	36.16	4.03	40.19	74.00	-33.81	Peak	Horizontal
6	4924.00	19.16	4.03	23.19	54.00	-30.81	Average	Horizontal
7	7386.00	38.20	7.09	45.29	74.00	-28.71	Peak	Horizontal
8	7386.00	21.20	7.09	28.29	54.00	-25.71	Average	Horizontal
9	3251.94	61.21	1.31	62.52	74.00	-11.48	Peak	Vertical
10	3251.94	44.21	1.31	45.52	54.00	-8.48	Average	Vertical
11	4877.91	53.96	5.00	58.96	74.00	-15.04	Peak	Vertical
12	4877.91	34.96	5.00	39.96	54.00	-14.04	Average	Vertical
13	4924.00	38.50	5.03	43.53	74.00	-30.47	Peak	Vertical
14	4924.00	20.50	5.03	25.53	54.00	-28.47	Average	Vertical
15	7386.00	41.50	6.56	48.06	74.00	-25.94	Peak	Vertical
16	7386.00	22.50	6.56	29.06	54.00	-24.94	Average	Vertical

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result – Limit
4. For Radiated Emission above 18GHz, there was not any unwanted emission detected.

APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.
