



## Co-location Report

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**FCC ID:** O9C-BJNGAFB0038  
**IC:** 2299L-BJNGABB0038  
**APPLICANT:** Hewlett Packard Company

**Application Type:** Certification  
**Product:** HPE MSR954-W 1GbE+SFP LTE (AM) Rtr  
**Model No.:** BJNGA-BB0038  
**Brand Name:** Hewlett Packard Enterprise  
**FCC Rule Part(s):** Part 15.247, Part2, FCC Part22,  
FCC Part24, FCC Part 27, FCC Part 90S  
**IC Specification(s):** RSS-247 Issue 1, RSS-130 Issue 1,  
RSS-132 Issue 3, RSS-133 Issue 6,  
RSS-139 Issue 2  
**Test Date:** April 08 ~ 25, 2015

Reviewed By : Robin Wu  
( Robin Wu )  
Approved By : Marlin Chen  
( Marlin Chen )



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947, ANSI/TIA-603-D-2010 and ANSI C63.10-2013. Test results reported herein relate only to the item(s)

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

## Revision History

Report No.	Version	Description	Issue Date
1504RSU00602	Rev. 01	Initial report	10-08-2015
1504RSU00602	Rev. 02	Update the MC7354 module antenna list	10-28-2015

## §2.1033 General Information

<b>Applicant:</b>	Hewlett Packard Company
<b>Applicant Address:</b>	153 Taylor Street Littleton Massachusetts, United States 01460-1407
<b>Manufacturer:</b>	Hewlett Packard Company
<b>Manufacturer Address:</b>	153 Taylor Street Littleton Massachusetts, United States 01460-1407
<b>Test Site:</b>	MRT Technology (Suzhou) Co., Ltd
<b>Test Site Address:</b>	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
<b>MRT FCC Registration No.:</b>	809388
<b>MRT IC Registration No.:</b>	11384A
<b>Model No.:</b>	BJNGA-BB0038
<b>FCC ID:</b>	O9C-BJNGABB0038
<b>IC:</b>	2299L-BJNGABB0038
<b>Test Device Serial No.:</b>	N/A <input type="checkbox"/> Production <input checked="" type="checkbox"/> Pre-Production <input type="checkbox"/> Engineering
<b>FCC Classification:</b>	Digital Transmission System (DTS)

### Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-4179, G-814, C-4664, T-2206) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.



# 1. INTRODUCTION

## 1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

## 1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



## 2. PRODUCT INFORMATION

### 2.1. Equipment Description

Product Name	HPE MSR954-W 1GbE+SFP LTE (AM) Rtr
Model No.	BJNGA-BB0038
Brand Name	Hewlett Packard Enterprise
Antenna Type	External
<b>Wi-Fi Specification</b>	
Frequency Range	802.11b/g/n-HT20: 2412 ~ 2462 MHz 802.11n-HT40: 2422 ~ 2452 MHz
Maximum Output Power	802.11b: 23.00dBm 802.11g: 28.99dBm 802.11n-HT20: 28.96dBm 802.11n-HT40: 28.09dBm
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM
Antenna Type	External
Antenna Gain	3.0dBi
<b>MC7354 Module Specification</b>	
FCC ID	N7NMC7355
IC	2417C-MC7355
Supported Bands	GPRS/EDGE 850/1900 WCDMA Band II/V CDMA2000 BC0/BC1/BC10 LTE Band 2/4/5/13/17/25
<b>2G</b>	
T <sub>x</sub> Frequency Range	GSM 850: 824 ~ 849 MHz DCS 1900: 1850 ~ 1910 MHz
R <sub>x</sub> Frequency Range	GSM 850: 869 ~ 894 MHz DCS 1900: 1930 ~ 1990 MHz
Type of Modulation	GPRS: GMSK, EDGE: 8PSK
Release Version	R99

3G - WCDMA		
T <sub>x</sub> Frequency Range	WCDMA Band II: 1850 ~ 1910 MHz WCDMA Band V: 824 ~ 849 MHz	
R <sub>x</sub> Frequency Range	WCDMA Band II: 1930 ~ 1990 MHz WCDMA Band V: 869 ~ 894 MHz	
Type of Modulation	QPSK	
Release Version	Rel-7	
3G – CDMA2000		
T <sub>x</sub> Frequency Range	CDMA2000 BC0: 824~849MHz CDMA2000 BC1: 1850~1910MHz CDMA2000 BC10: 817~824MHz	
R <sub>x</sub> Frequency Range	CDMA2000 BC0: 869~894MHz CDMA2000 BC1: 1930~1990MHz CDMA2000 BC10: 862~869MHz	
Type of Modulation	QPSK	
Release Version	Rel-A	
4G - LTE		
T <sub>x</sub> Frequency Range	LTE Band 2: 1850 ~ 1910 MHz LTE Band 4: 1710 ~ 1755 MHz LTE Band 5: 824 ~ 849 MHz LTE Band 13: 777 ~ 787 MHz LTE Band 17: 704 ~ 716 MHz LTE Band 25: 1850 ~ 1915 MHz	
R <sub>x</sub> Frequency Range	LTE Band 2: 1930 ~ 1990 MHz LTE Band 4: 2110 ~ 2155MHz LTE Band 5: 869 ~ 894 MHz LTE Band 13: 746 ~ 756 MHz LTE Band 17: 734 ~ 746 MHz LTE Band 25: 1930 ~ 1995 MHz	
Type of modulation	QPSK, 16QAM	
Release Version	Rel-8	
Antenna Type	External Antenna	
Antenna Gain	1.26dBi for 750MHz 1.22dBi for 850MHz 1.24dBi for 1710MHz 0.88dBi for 1880MHz	1.09dBi for 1990MHz 1.43dBi for 2170MHz 1.24dBi for 2400MHz 2.16dBi for 2700MHz

## 2.2. Test Mode

Worst-Case Mode for Transmitter Spurious Emission

GPRS/EDGE/WCDMA/CDMA2000 and Wi-Fi				
Mode 1: Transmit at channel 01 by 802.11g and GPRS 850 channel 128 Traffic				
Mode 2: Transmit at channel 01 by 802.11g and GPRS 1900 channel 512 Traffic				
Mode 3: Transmit at channel 01 by 802.11g and EDGE 850 channel 189 Traffic				
Mode 4: Transmit at channel 01 by 802.11g and EDGE 1900 channel 661 Traffic				
Mode 5: Transmit at channel 01 by 802.11g and WCDMA Band II channel 9538 Traffic				
Mode 6: Transmit at channel 01 by 802.11g and WCDMA Band V channel 4233 Traffic				
Mode 7: Transmit at channel 01 by 802.11g and CDMA2000 1x BC0 channel 1013 Traffic				
Mode 8: Transmit at channel 01 by 802.11g and CDMA2000 1x BC1 channel 1175 Traffic				
Mode 9: Transmit at channel 01 by 802.11g and CDMA2000 1x BC10 channel 670 Traffic				
LTE Test Mode and Wi-Fi	BW	RB Size	RB Offset	Modulation Type
Mode 10: Transmit at channel 01 by 802.11g and LTE Band 2 channel 18700 Traffic	20M	1	0	QPSK
Mode 11: Transmit at channel 01 by 802.11g and LTE Band 4 channel 20050 Traffic	20M	1	99	QPSK
Mode 12: Transmit at channel 01 by 802.11g and LTE Band 5 channel 20450 Traffic	10M	1	0	QPSK
Mode 13: Transmit at channel 01 by 802.11g and LTE Band 13 channel 23205 Traffic	5M	1	0	QPSK
Mode 14: Transmit at channel 01 by 802.11g and LTE Band 17 channel 23780 Traffic	10M	1	24	QPSK
Mode 15: Transmit at channel 01 by 802.11g and LTE Band 25 channel 26365 Traffic	20M	1	24	QPSK

Note: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and antenna ports

## 2.3. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

### 3. TEST EQUIPMENT CALIBRATION DATE

#### Radiated Emission

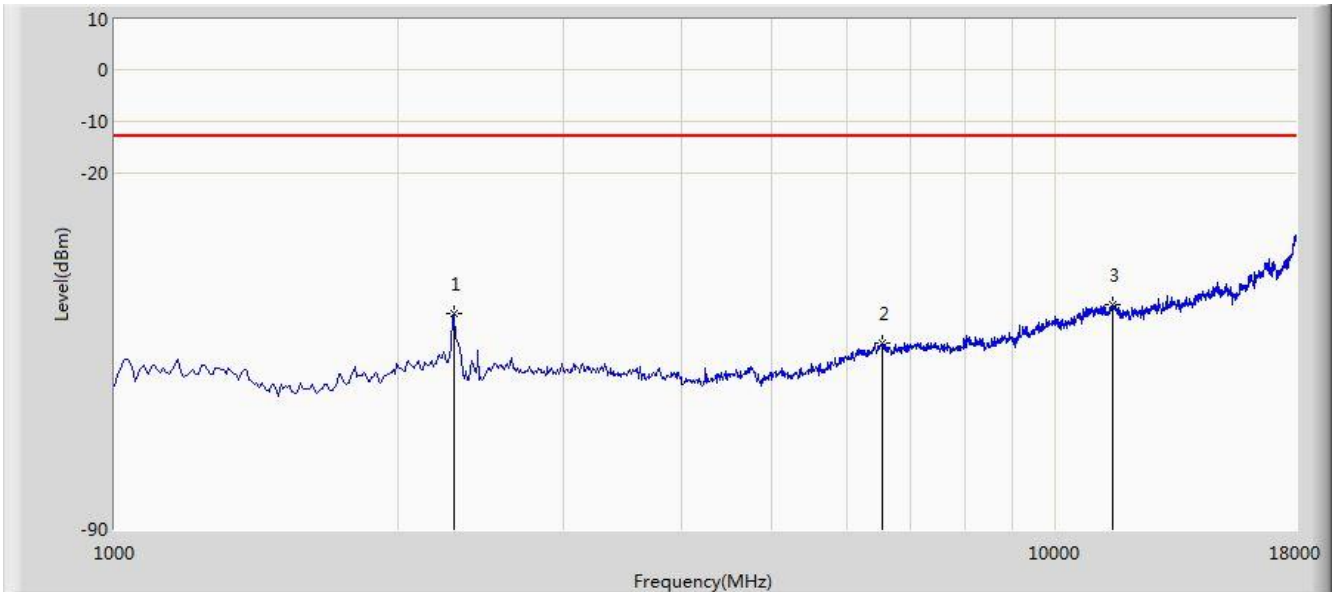
Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	E4447A	MRTSUE06028	1 year	2015/12/09
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2015/11/07
Preamplifier	Agilent	83017A	MRTSUE06020	1 year	2015/12/13
Loop Antenna	Schwarzbeck	FMZB1519	MRTSUE06025	1 year	2015/11/08
TRILOG Antenna	Schwarzbeck	VULB9162	MRTSUE06022	1 year	2015/11/08
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06023	1 year	2015/11/08
Broadband Horn Antenna	Schwarzbeck	BBHA9170	MRTSUE06024	1 year	2016/01/05
Temperature/Humidity Meter	Anymetre	TH101B	MRTSUE06045	1 year	2015/11/14

Software	Version	Function
e3	V8.3.5	EMI Test Software



#### 4. Test Result of Radiated Emissions for Co-located

Site: AC1	Time: 2015/04/25 - 12:05
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Horizontal
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 01 by 802.11g and GPRS 850 channel 128 Traffic	



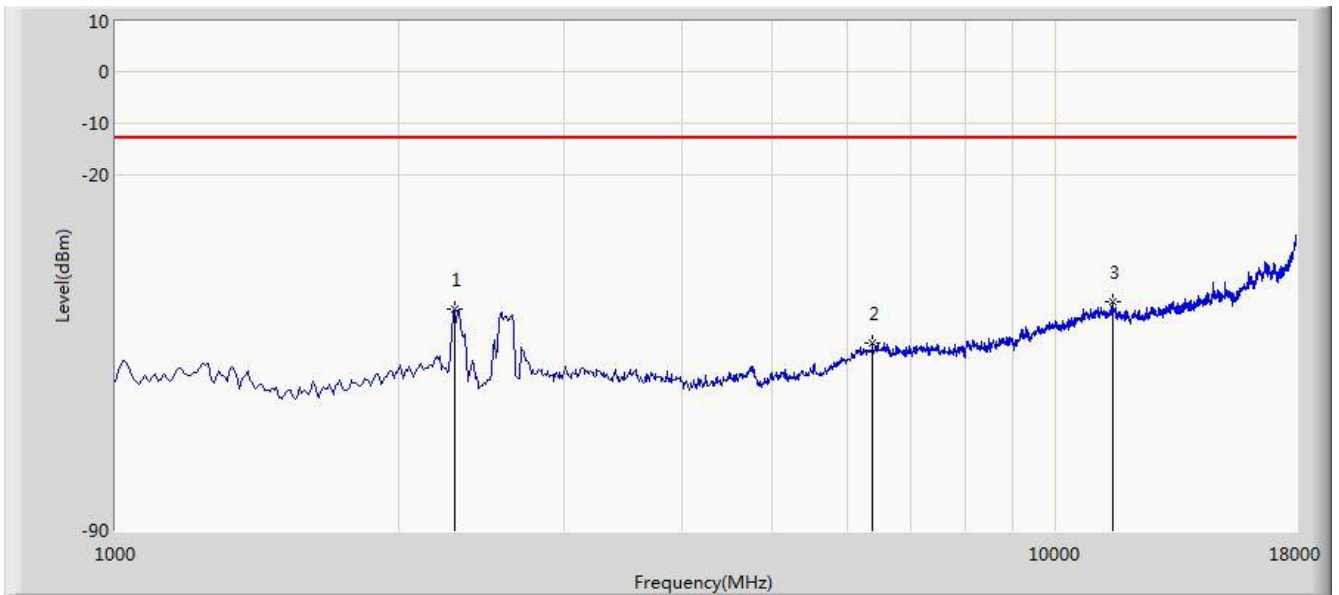
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor (dB)	Type
1			2292.000	-47.758	-56.217	-34.758	-13.000	8.459	PK
2			6542.000	-53.375	-69.831	-40.375	-13.000	16.456	PK
3		*	11497.500	-45.842	-70.182	-32.842	-13.000	24.340	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/25 - 12:08
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Vertical
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 01 by 802.11g and GPRS 850 channel 128 Traffic	



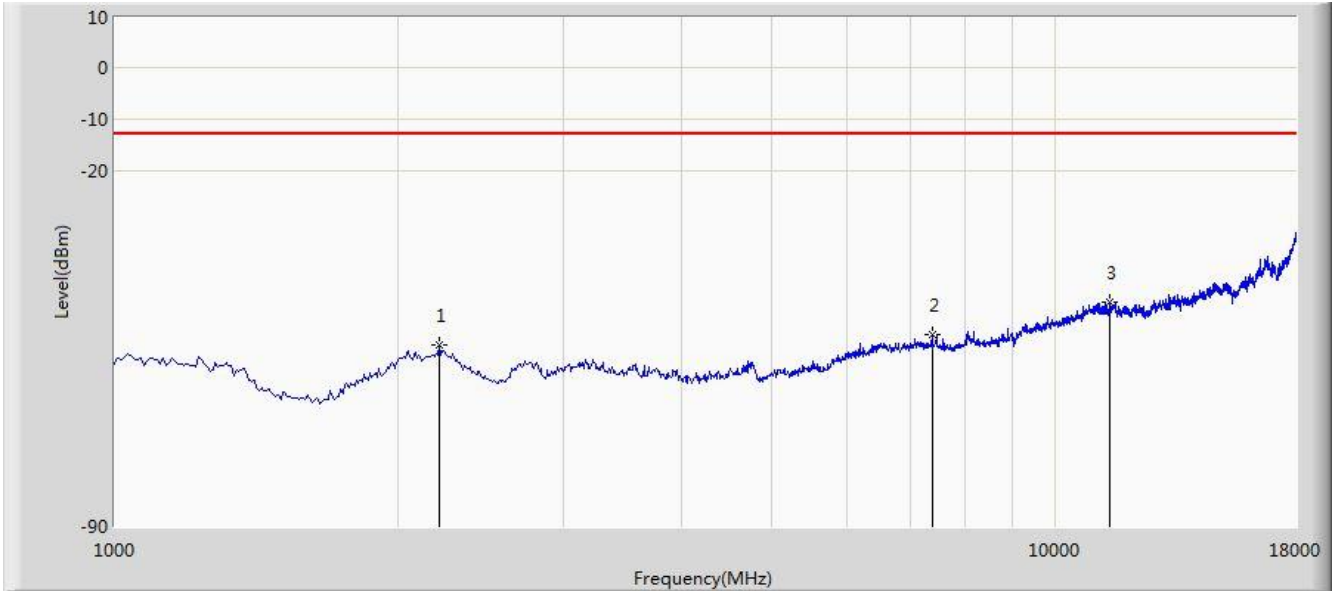
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2292.000	-46.640	-54.932	-33.640	-13.000	8.292	PK
2			6380.500	-53.180	-70.100	-40.180	-13.000	16.920	PK
3		*	11506.000	-44.981	-69.589	-31.981	-13.000	24.608	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/25 - 12:52
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Horizontal
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 01 by 802.11g and GPRS 1900 channel 512 Traffic	



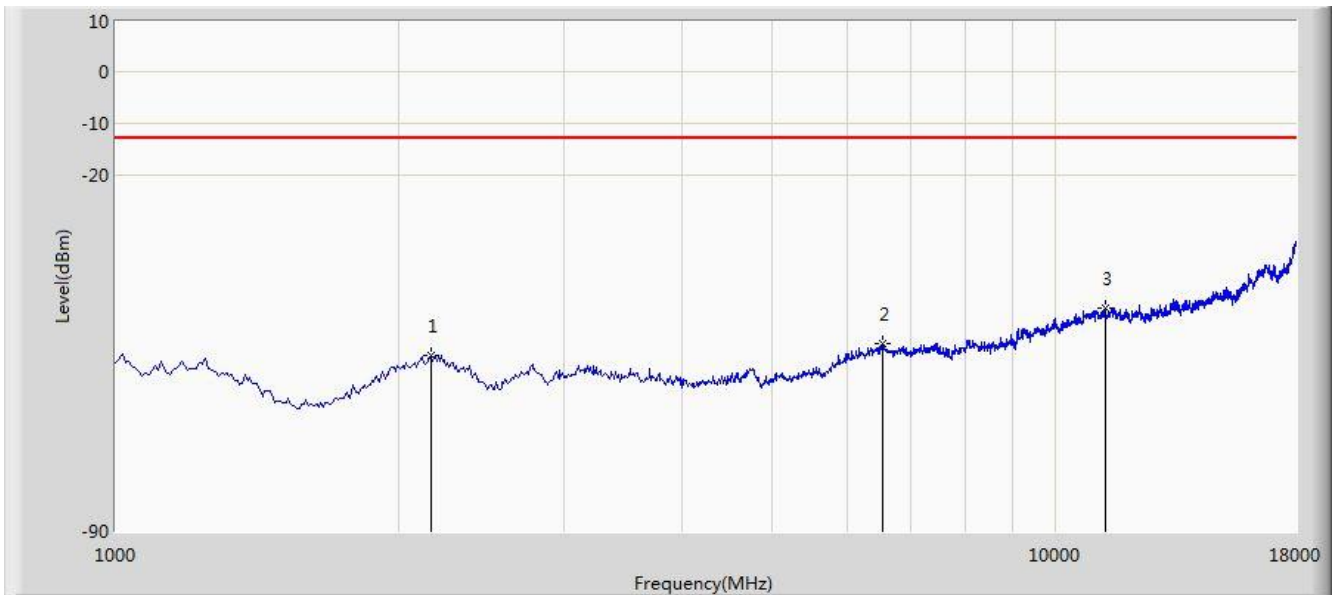
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2215.500	-54.242	-63.129	-41.242	-13.000	8.887	PK
2			7400.500	-52.366	-68.953	-39.366	-13.000	16.587	PK
3		*	11438.000	-46.002	-70.263	-33.002	-13.000	24.261	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/25 - 12:59
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Vertical
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 01 by 802.11g and GPRS 1900 channel 512 Traffic	



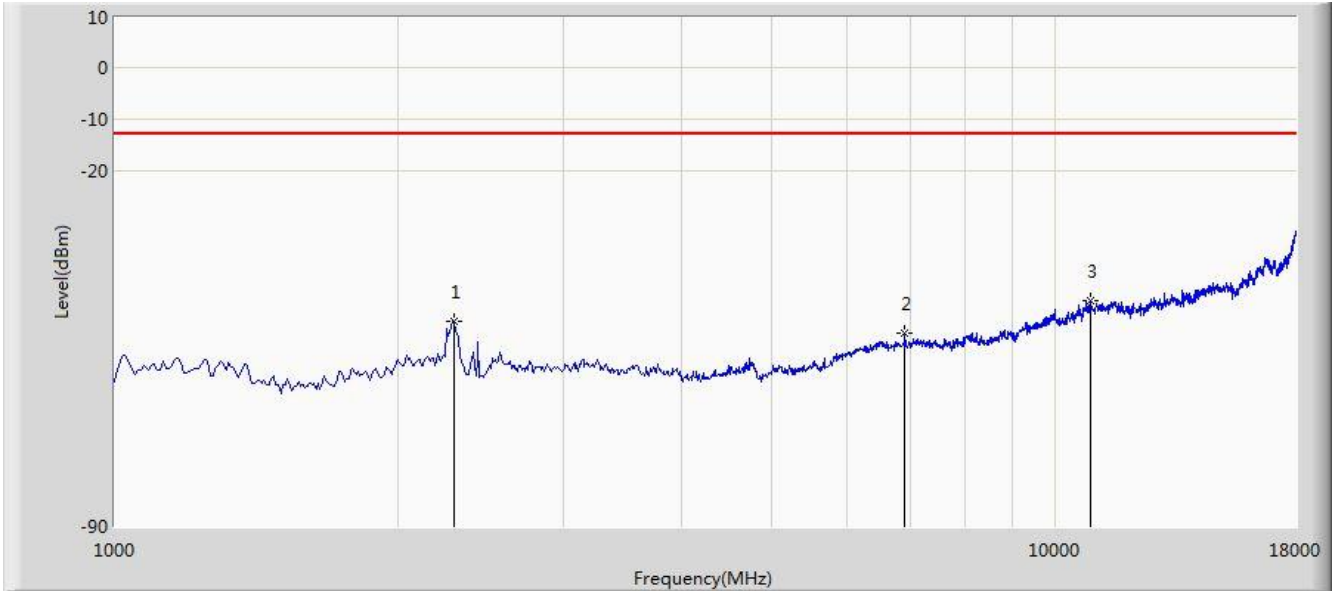
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2164.500	-55.415	-63.930	-42.415	-13.000	8.515	PK
2			6550.500	-53.107	-70.536	-40.107	-13.000	17.429	PK
3		*	11276.500	-46.229	-70.354	-33.229	-13.000	24.125	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/25 - 12:32
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Horizontal
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 01 by 802.11g and EDGE 850 channel 189 Traffic	



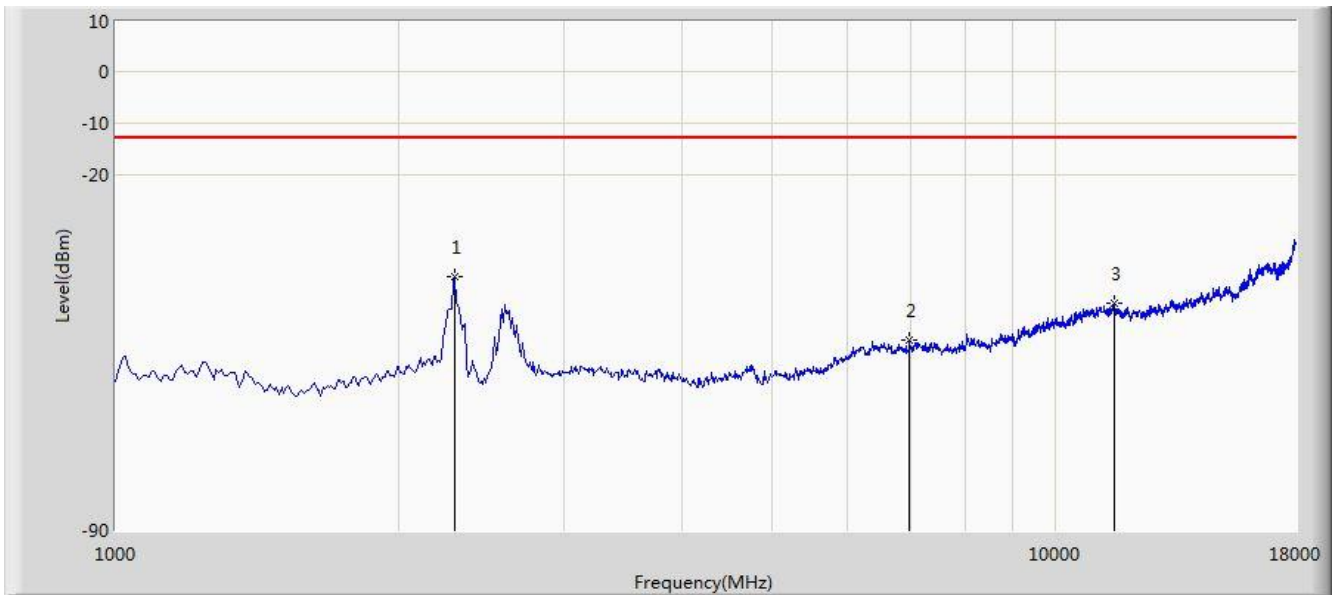
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2292.000	-49.781	-58.240	-36.781	-13.000	8.459	PK
2			6916.000	-52.031	-68.360	-39.031	-13.000	16.329	PK
3		*	10885.500	-45.551	-69.932	-32.551	-13.000	24.381	PK

Note 1: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/25 - 12:35
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Vertical
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 01 by 802.11g and EDGE 850 channel 189 Traffic	



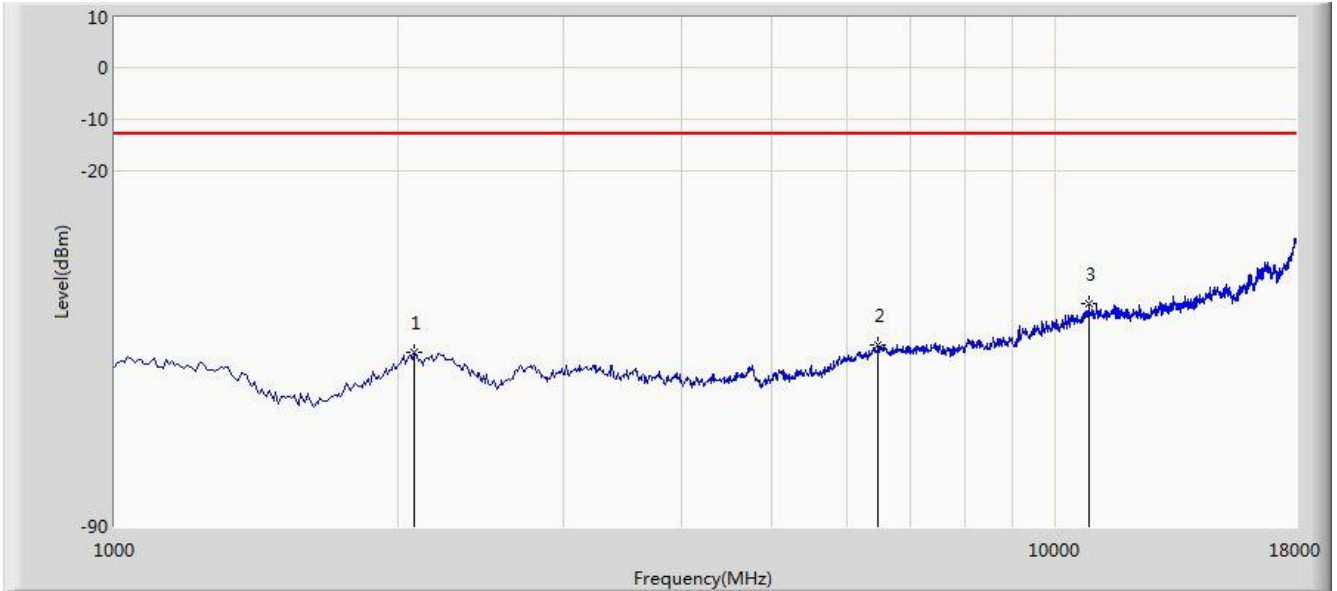
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1		*	2292.000	-40.053	-48.345	-27.053	-13.000	8.292	PK
2			6984.000	-52.559	-68.938	-39.559	-13.000	16.379	PK
3			11548.500	-45.498	-70.208	-32.498	-13.000	24.710	PK

Note 1: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/25 - 13:17
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Horizontal
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 01 by 802.11g and EDGE 1900 channel 661 Traffic	



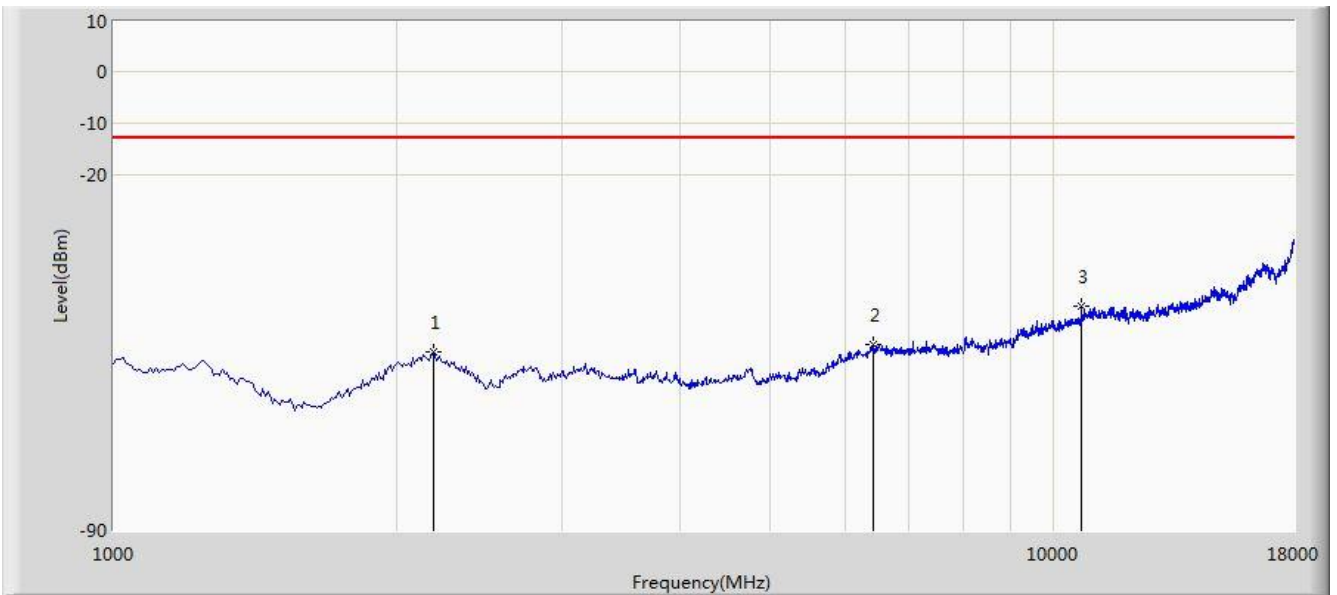
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2079.500	-55.769	-63.580	-42.769	-13.000	7.811	PK
2			6474.000	-54.299	-70.774	-41.299	-13.000	16.475	PK
3		*	10843.000	-46.172	-70.513	-33.172	-13.000	24.341	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/25 - 13:18
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Vertical
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 01 by 802.11g and EDGE 1900 channel 661 Traffic	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2190.000	-54.893	-64.133	-41.893	-13.000	9.240	PK
2			6431.500	-53.439	-70.335	-40.439	-13.000	16.895	PK
3		*	10707.000	-46.037	-70.702	-33.037	-13.000	24.665	PK

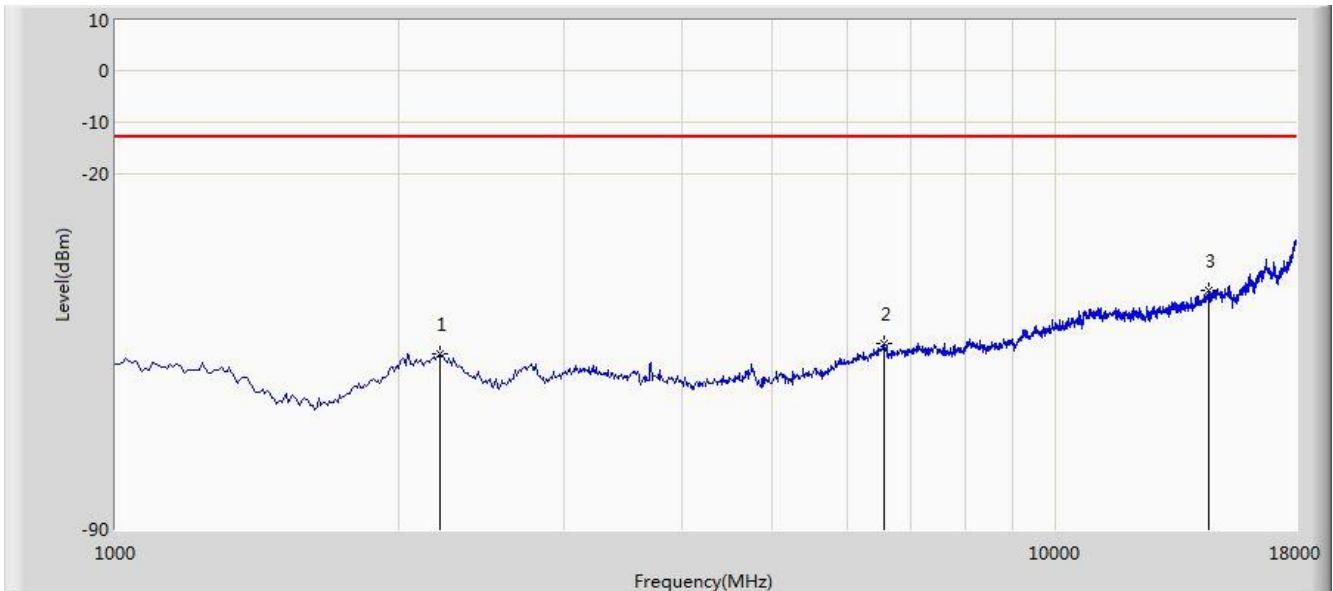
Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.



Site: AC1	Time: 2015/04/25 - 13:38
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Horizontal
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 5: Transmit at channel 01 by 802.11g and WCDMA Band II channel 9538 Traffic	



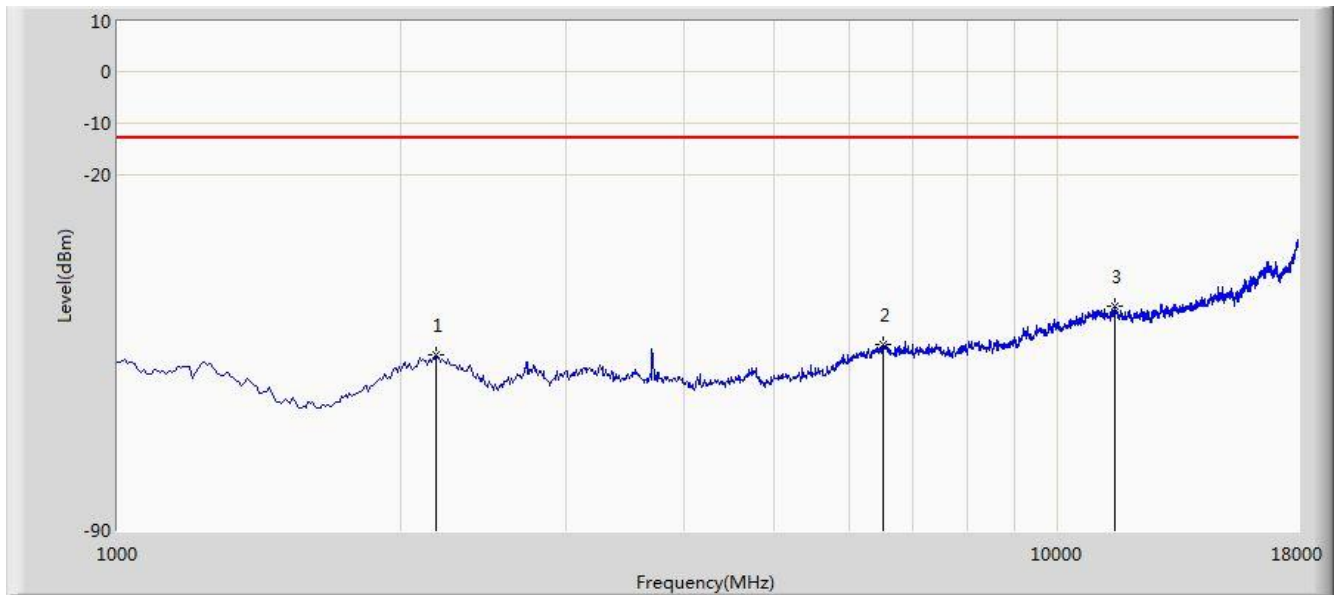
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2215.500	-55.637	-64.524	-42.637	-13.000	8.887	PK
2			6567.500	-53.489	-70.159	-40.489	-13.000	16.670	PK
3		*	14540.500	-43.005	-70.366	-30.005	-13.000	27.361	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/25 - 13:39
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Vertical
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 5: Transmit at channel 01 by 802.11g and WCDMA Band II channel 9538 Traffic	



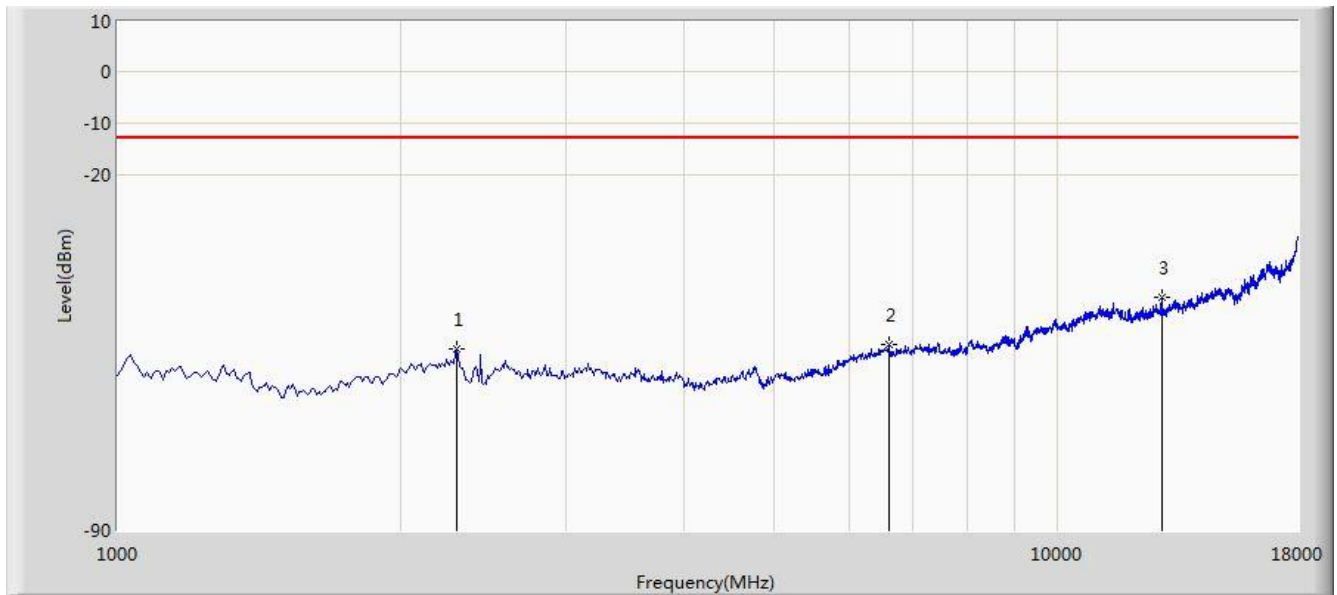
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2181.500	-55.569	-64.548	-42.569	-13.000	8.979	PK
2			6525.000	-53.378	-70.810	-40.378	-13.000	17.432	PK
3		*	11480.500	-45.873	-70.455	-32.873	-13.000	24.581	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/25 - 13:48
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Horizontal
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 6: Transmit at channel 01 by 802.11g and WCDMA Band V channel 4233 Traffic	



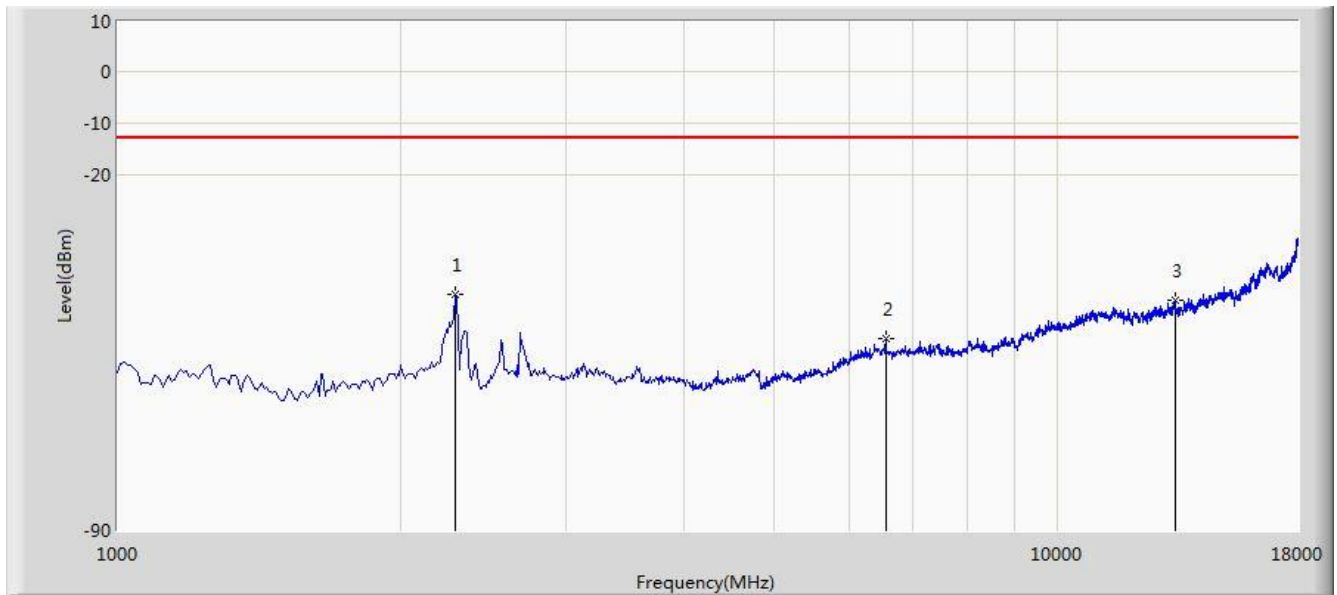
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2292.000	-54.241	-62.700	-41.241	-13.000	8.459	PK
2			6627.000	-53.541	-69.631	-40.541	-13.000	16.090	PK
3		*	12891.500	-44.179	-69.556	-31.179	-13.000	25.377	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/25 - 13:58
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Vertical
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 6: Transmit at channel 01 by 802.11g and WCDMA Band V channel 4233 Traffic	



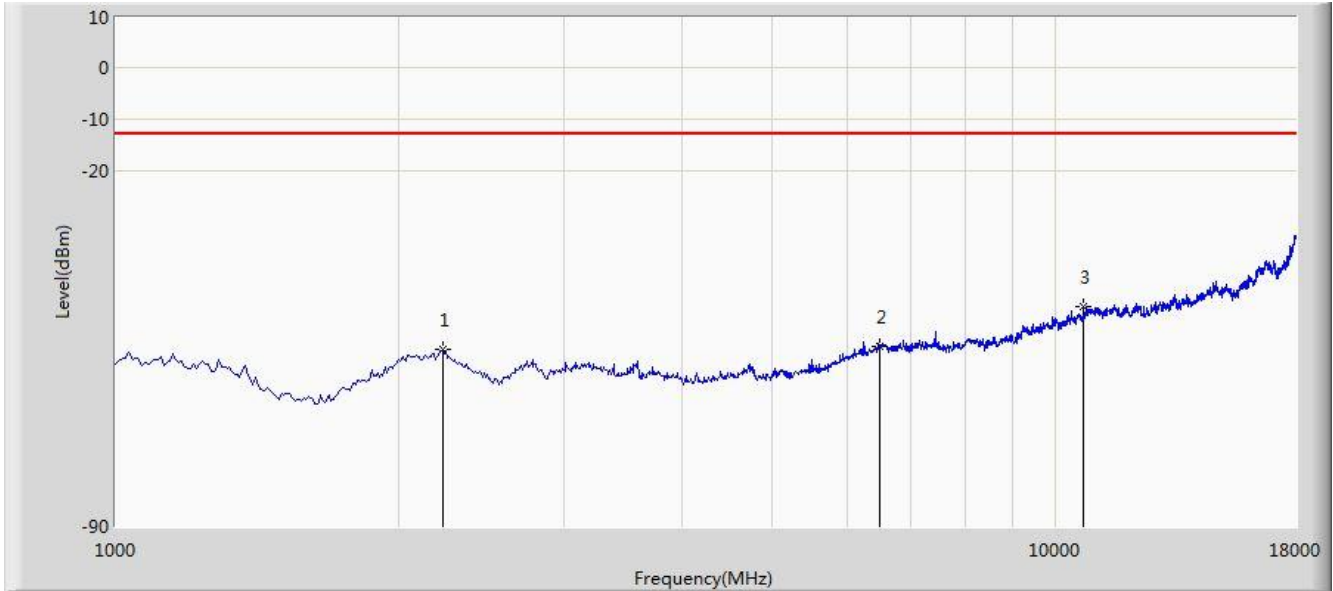
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1		*	2283.500	-43.666	-51.895	-30.666	-13.000	8.229	PK
2			6559.000	-52.339	-69.898	-39.339	-13.000	17.559	PK
3			13342.000	-44.814	-70.975	-31.814	-13.000	26.161	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/29 - 01:25
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Horizontal
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 7: Transmit at channel 01 by 802.11g and CDMA2000 1x BC0 channel 1013 Traffic	



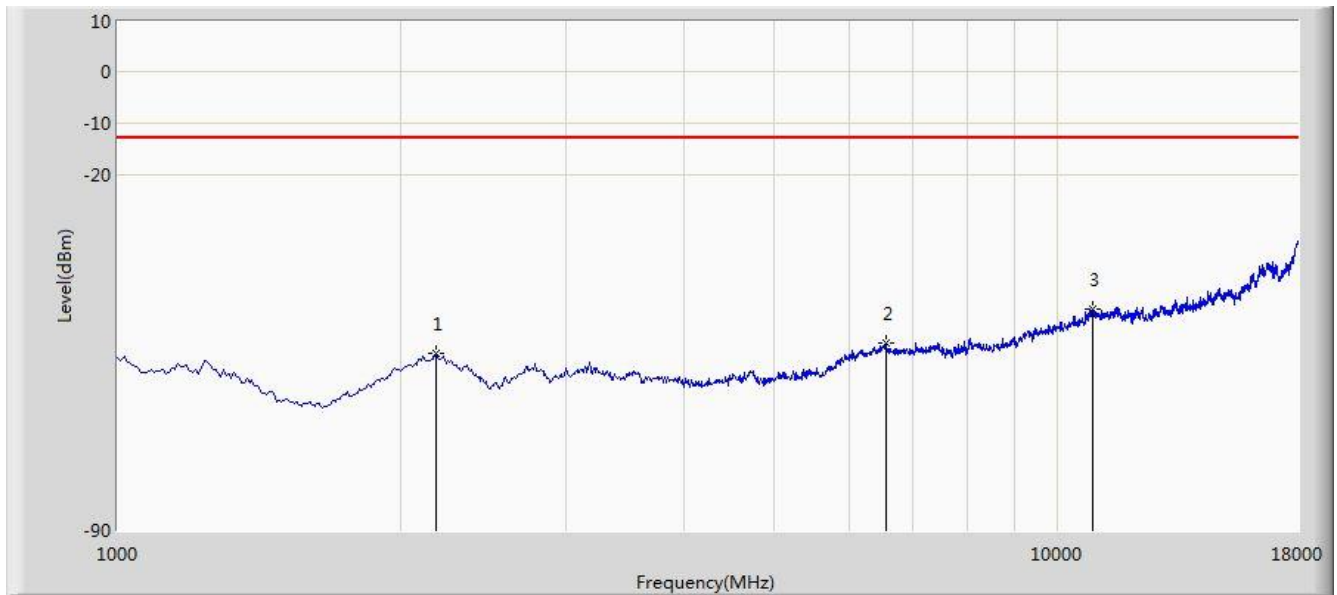
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2232.500	-55.141	-64.310	-42.141	-13.000	9.169	PK
2			6499.500	-54.635	-71.244	-41.635	-13.000	16.609	PK
3		*	10707.000	-46.812	-71.316	-33.812	-13.000	24.504	PK

Note 1: Measure Level (dBμV/m) = Measuring Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/29 - 01:31
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Vertical
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 7: Transmit at channel 01 by 802.11g and CDMA2000 1x BC0 channel 1013 Traffic	



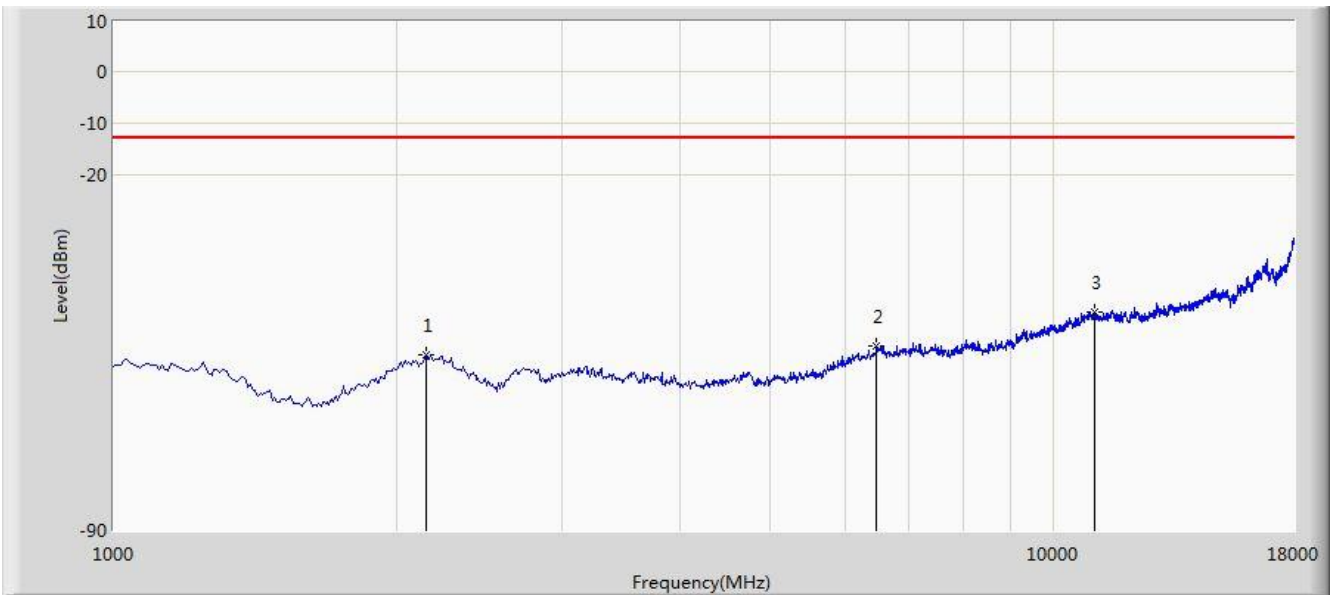
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2181.500	-55.272	-64.251	-42.272	-13.000	8.979	PK
2			6559.000	-53.238	-70.797	-40.238	-13.000	17.559	PK
3		*	10894.000	-46.388	-70.903	-33.388	-13.000	24.515	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/29 - 01:36
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Horizontal
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 8: Transmit at channel 01 by 802.11g and CDMA2000 1x BC1 channel 1175 Traffic	



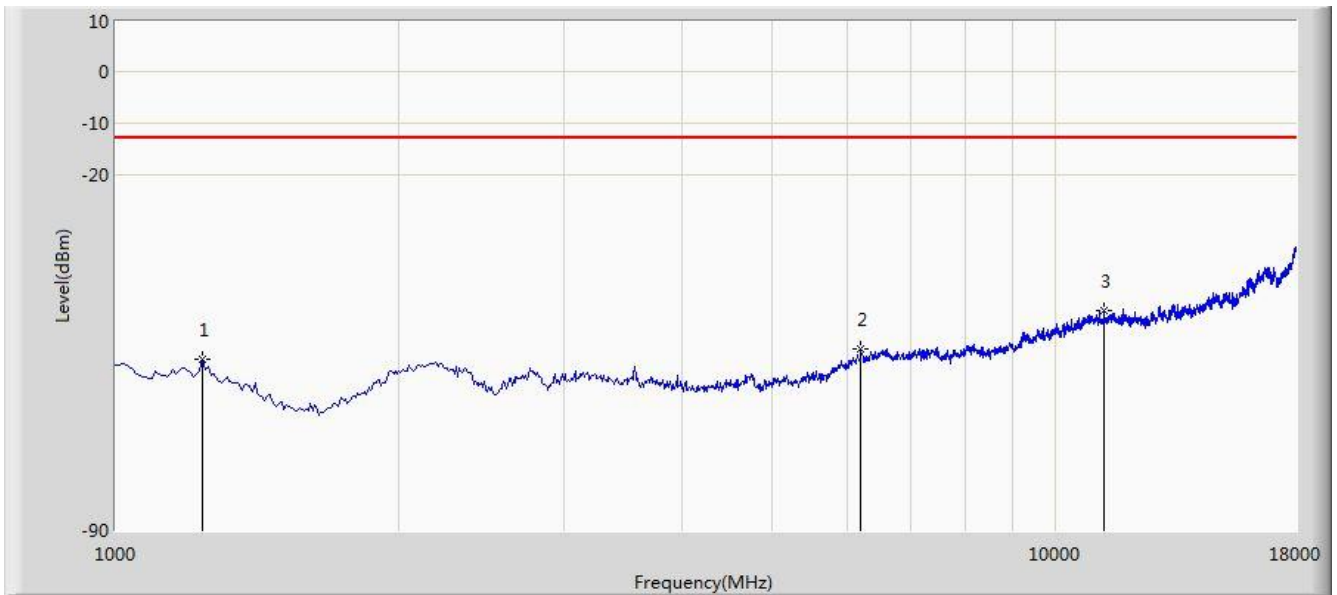
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2147.500	-55.466	-63.458	-42.466	-13.000	7.992	PK
2			6474.000	-53.699	-70.174	-40.699	-13.000	16.475	PK
3		*	11047.000	-47.086	-71.484	-34.086	-13.000	24.398	PK

Note 1: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/29 - 01:40
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Vertical
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 8: Transmit at channel 01 by 802.11g and CDMA2000 1x BC1 channel 1175 Traffic	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			1238.000	-56.269	-62.012	-43.269	-13.000	5.743	PK
2			6202.000	-54.310	-70.757	-41.310	-13.000	16.447	PK
3		*	11268.000	-46.721	-70.842	-33.721	-13.000	24.121	PK

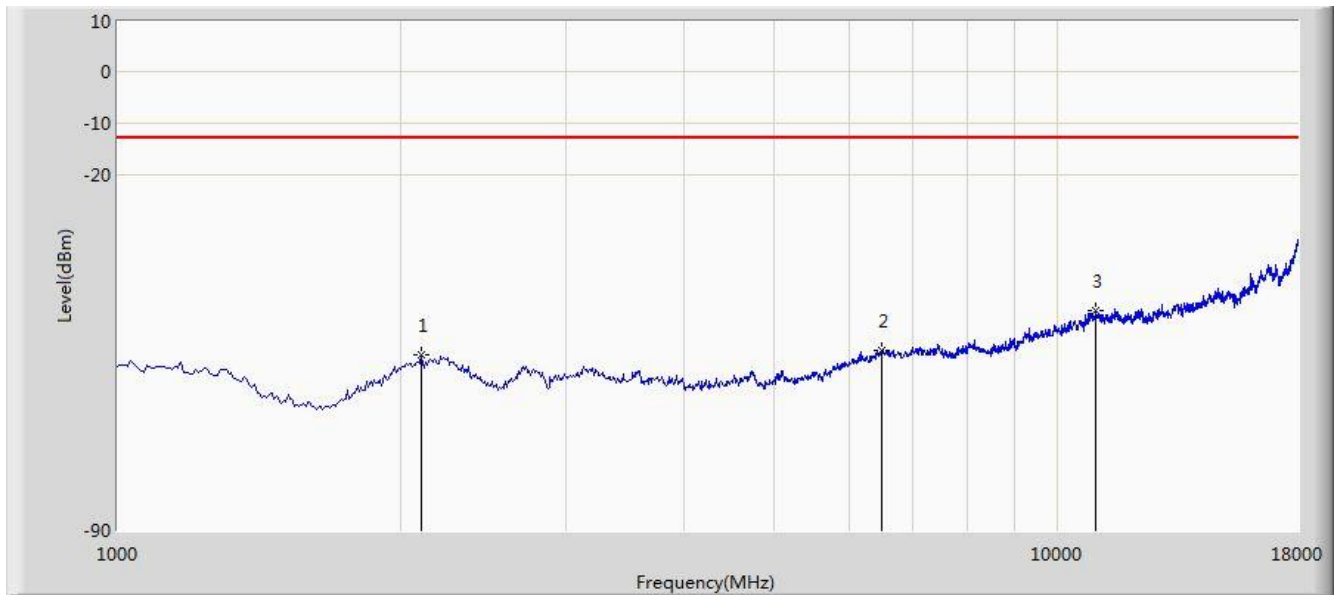
Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.



Site: AC1	Time: 2015/04/29 - 01:42
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Horizontal
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 9: Transmit at channel 01 by 802.11g and CDMA2000 1x BC10 channel 670 Traffic	



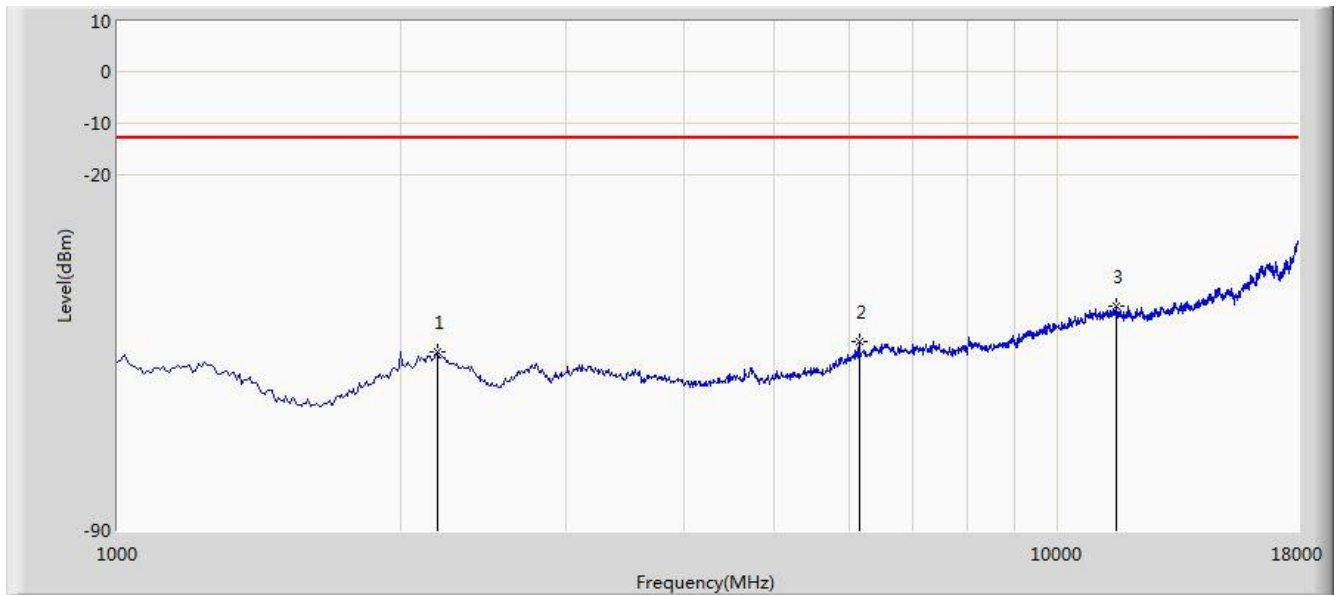
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2105.000	-55.586	-63.278	-42.586	-13.000	7.692	PK
2			6499.500	-54.716	-71.325	-41.716	-13.000	16.609	PK
3		*	10962.000	-46.909	-71.010	-33.909	-13.000	24.101	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/29 - 01:44
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Vertical
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 9: Transmit at channel 01 by 802.11g and CDMA2000 1x BC10 channel 670 Traffic	



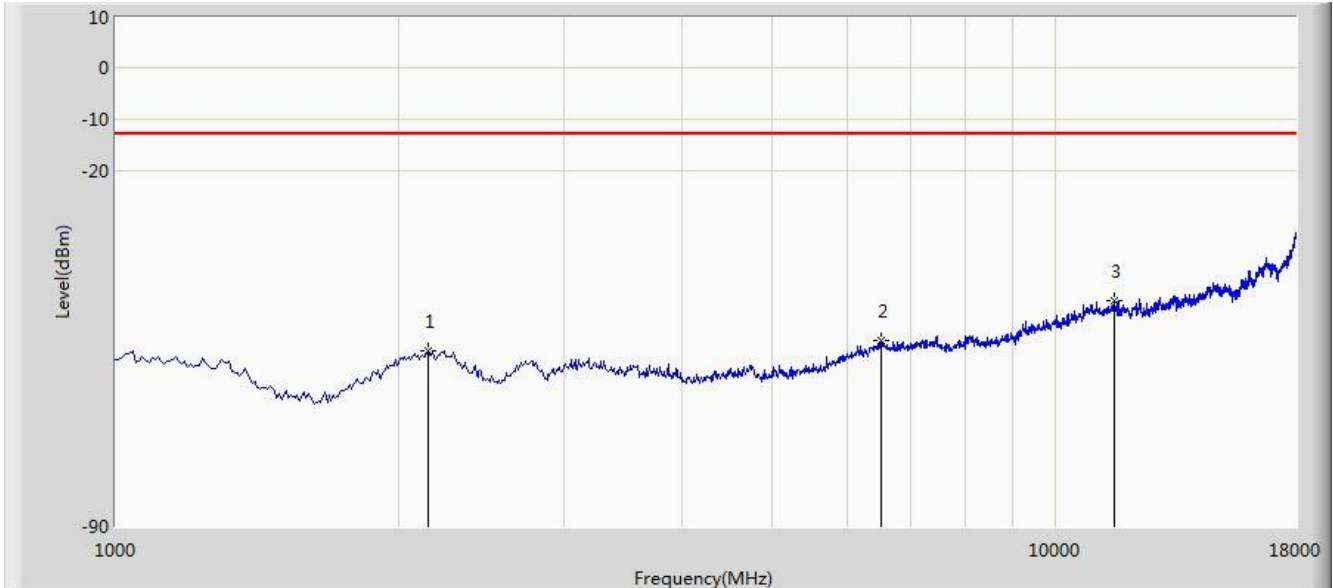
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2190.000	-54.891	-64.131	-41.891	-13.000	9.240	PK
2			6151.000	-52.980	-69.072	-39.980	-13.000	16.092	PK
3		*	11540.000	-45.898	-70.501	-32.898	-13.000	24.603	PK

Note 1: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/28 - 22:18
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Horizontal
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 10: Transmit at channel 01 by 802.11g and LTE Band 2 channel 18700 Traffic	



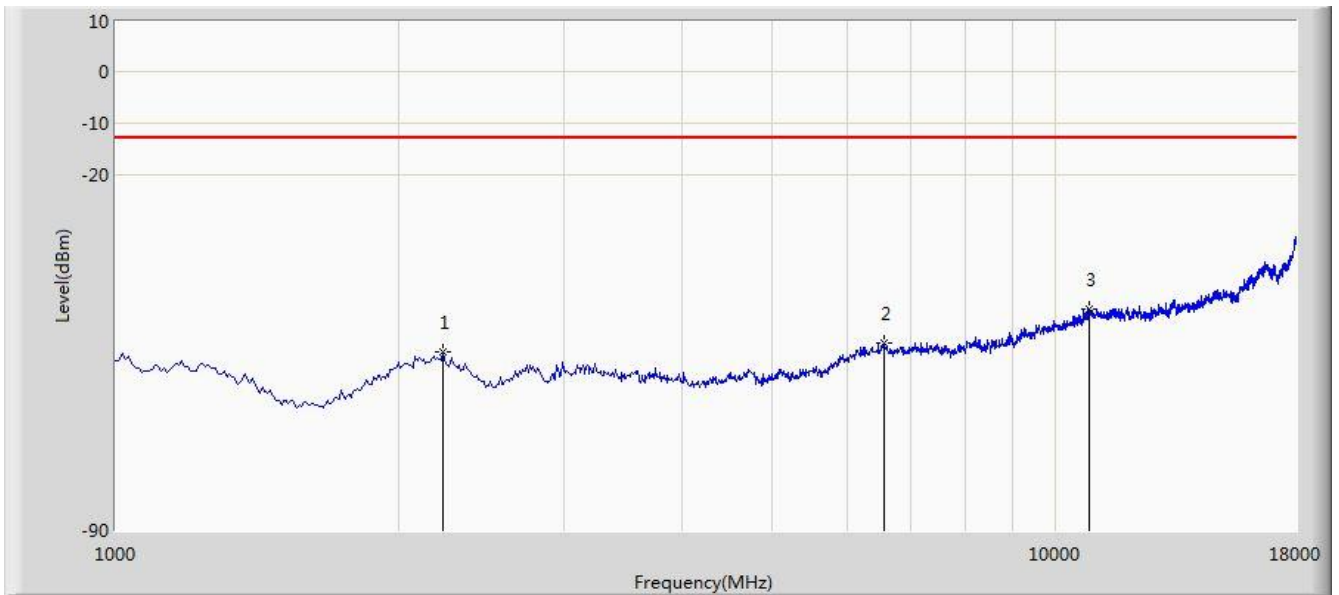
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2147.500	-55.619	-63.611	-42.619	-13.000	7.992	PK
2			6525.000	-53.434	-70.164	-40.434	-13.000	16.730	PK
3		*	11523.000	-45.586	-69.842	-32.586	-13.000	24.256	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/28 - 22:19
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Vertical
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 10: Transmit at channel 01 by 802.11g and LTE Band 2 channel 18700 Traffic	



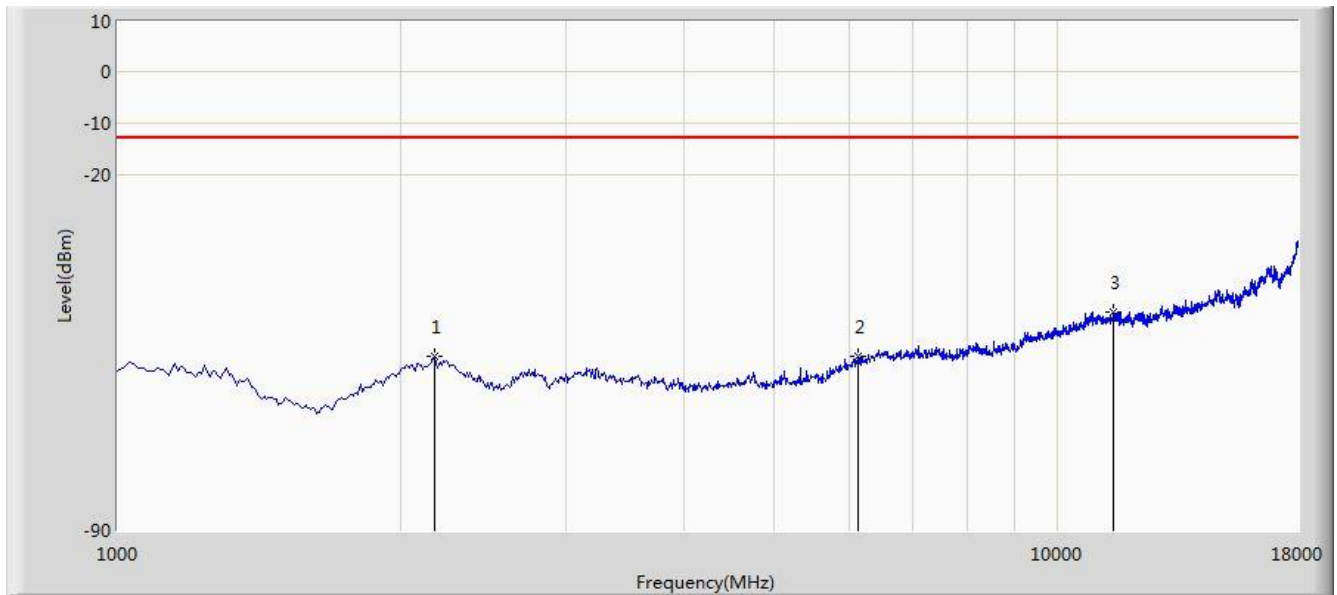
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2232.500	-54.996	-63.659	-41.996	-13.000	8.663	PK
2			6559.000	-53.305	-70.864	-40.305	-13.000	17.559	PK
3		*	10860.000	-46.645	-71.054	-33.645	-13.000	24.409	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/28 - 23:04
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Horizontal
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 11: Transmit at channel 01 by 802.11g and LTE Band 4 channel 20050 Traffic	



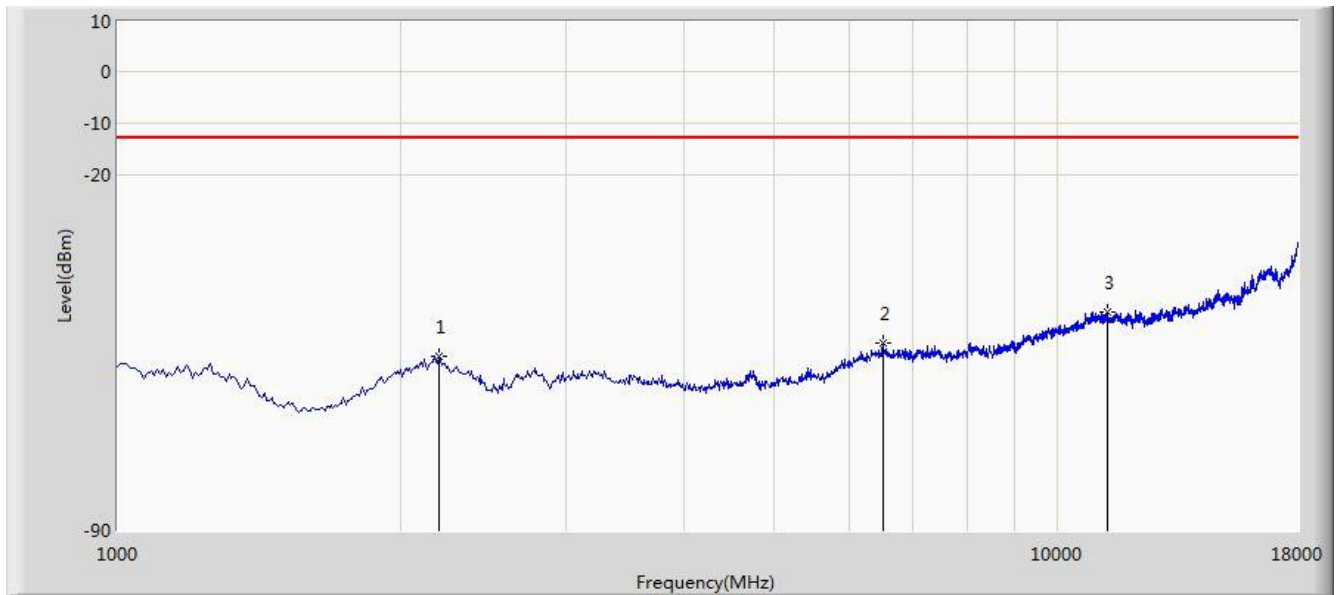
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2173.000	-55.850	-64.633	-42.850	-13.000	8.783	PK
2			6134.000	-55.930	-70.937	-42.930	-13.000	15.007	PK
3		*	11455.000	-47.241	-71.543	-34.241	-13.000	24.302	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/28 - 23:06
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Vertical
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 11: Transmit at channel 01 by 802.11g and LTE Band 4 channel 20050 Traffic	



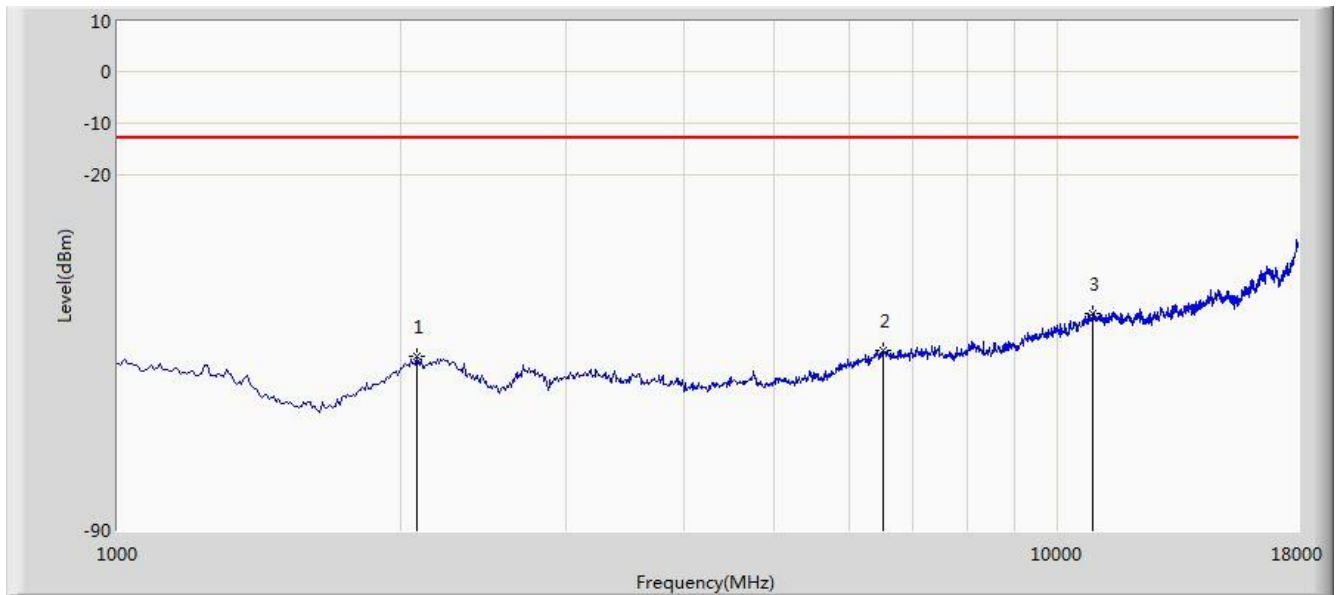
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2198.500	-55.706	-64.701	-42.706	-13.000	8.995	PK
2			6516.500	-53.182	-70.354	-40.182	-13.000	17.172	PK
3		*	11276.500	-47.212	-71.337	-34.212	-13.000	24.125	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/28 - 23:20
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Horizontal
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 12: Transmit at channel 01 by 802.11g and LTE Band 5 channel 20450 Traffic	



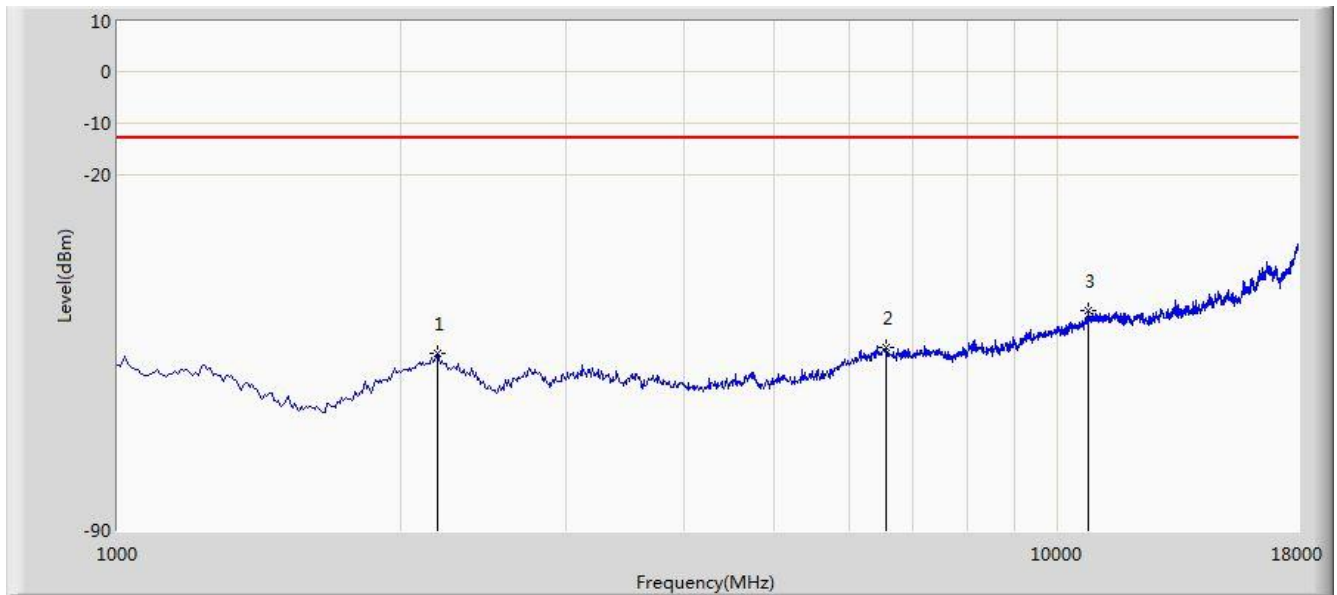
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2079.500	-55.716	-63.527	-42.716	-13.000	7.811	PK
2			6525.000	-54.710	-71.440	-41.710	-13.000	16.730	PK
3		*	10877.000	-47.409	-71.931	-34.409	-13.000	24.522	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/28 - 23:26
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Vertical
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 12: Transmit at channel 01 by 802.11g and LTE Band 5 channel 20450 Traffic	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2190.000	-55.309	-64.549	-42.309	-13.000	9.240	PK
2			6559.000	-54.038	-71.597	-41.038	-13.000	17.559	PK
3		*	10792.000	-46.953	-71.461	-33.953	-13.000	24.508	PK

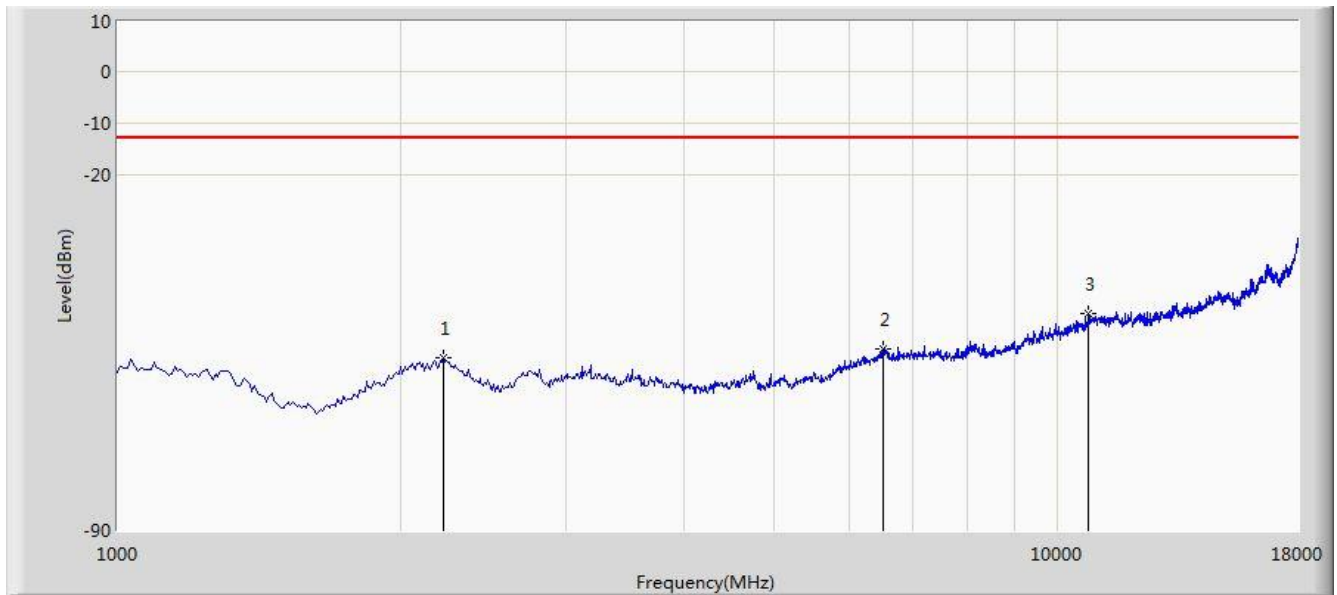
Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.



Site: AC1	Time: 2015/04/29 - 00:23
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Horizontal
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 13: Transmit at channel 01 by 802.11g and LTE Band 13 channel 23205 Traffic	



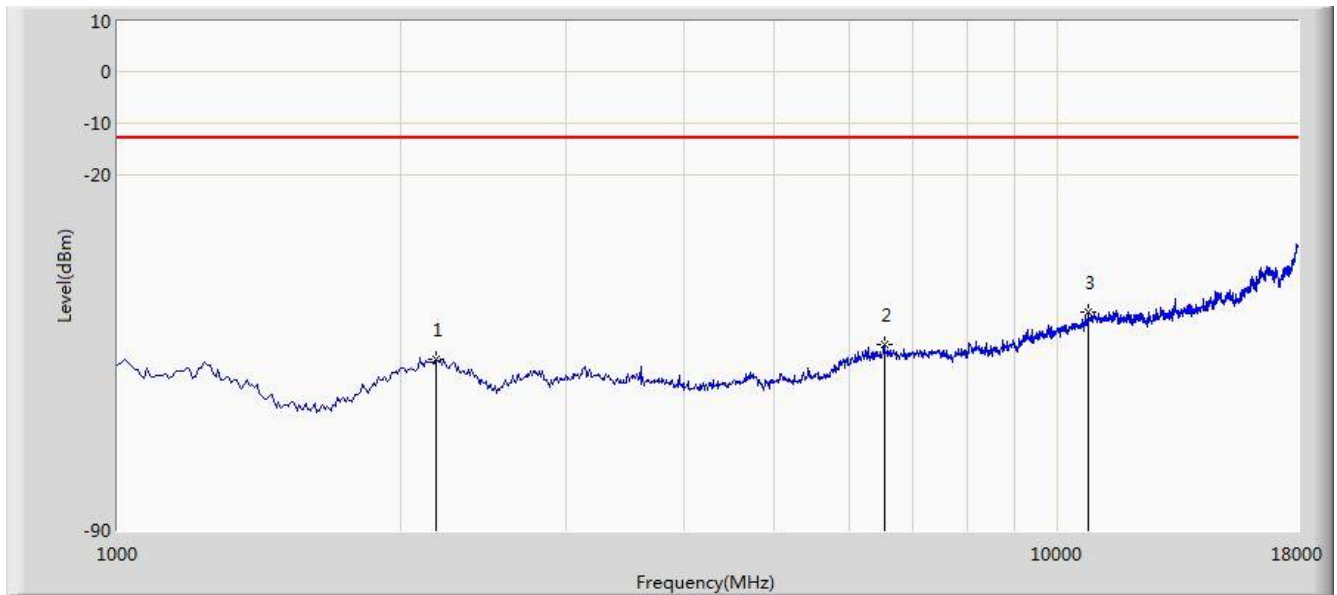
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2224.000	-56.141	-65.097	-43.141	-13.000	8.956	PK
2			6516.500	-54.277	-71.014	-41.277	-13.000	16.736	PK
3		*	10792.000	-47.264	-71.722	-34.264	-13.000	24.458	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/29 - 00:23
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Vertical
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 13: Transmit at channel 01 by 802.11g and LTE Band 13 channel 23205 Traffic	



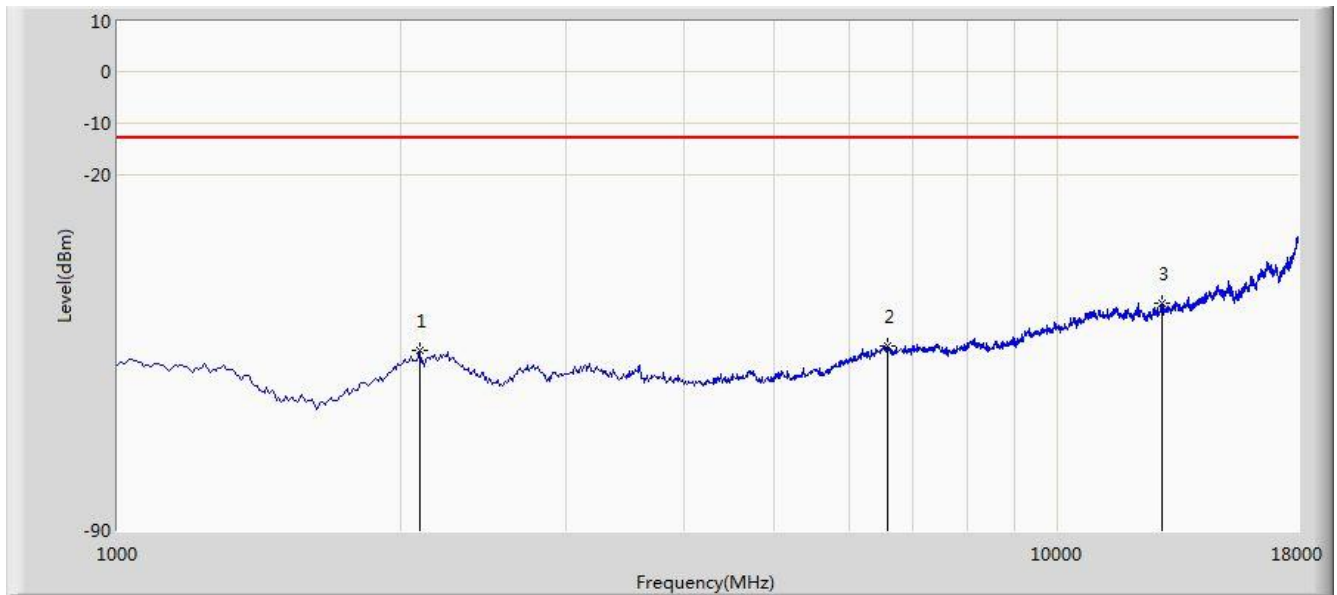
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2181.500	-56.297	-65.276	-43.297	-13.000	8.979	PK
2			6533.500	-53.463	-70.829	-40.463	-13.000	17.365	PK
3		*	10783.500	-47.111	-71.549	-34.111	-13.000	24.438	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/29 - 00:42
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Horizontal
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 14: Transmit at channel 01 by 802.11g and LTE Band 17 channel 23780 Traffic	



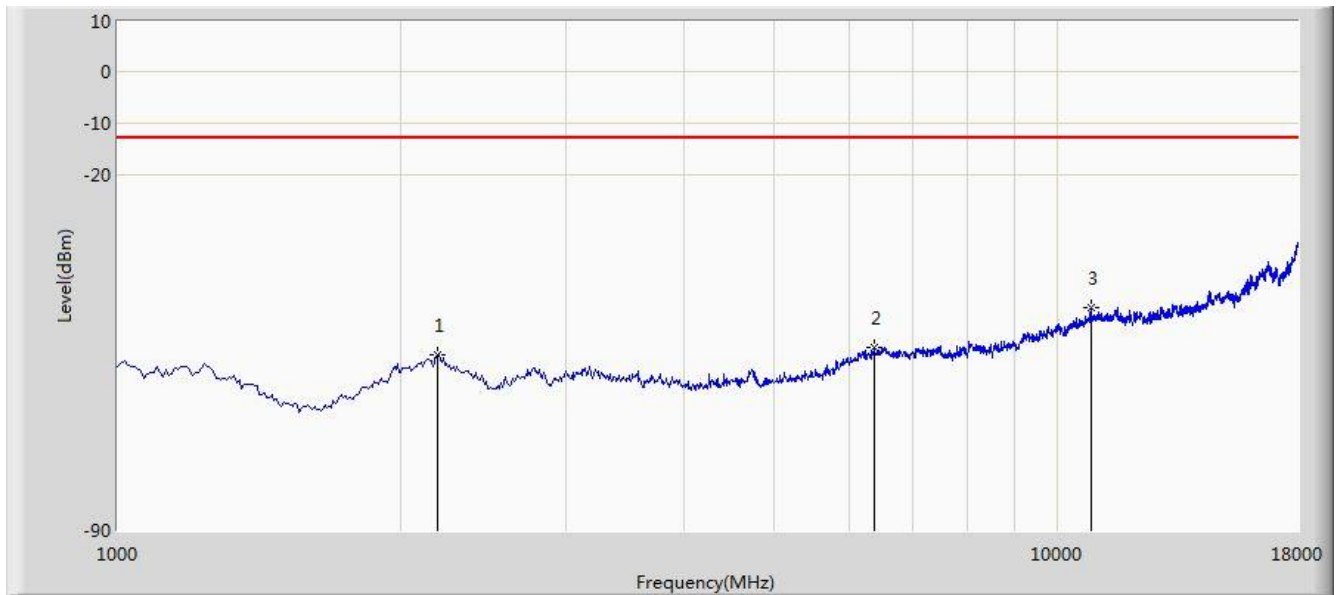
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2096.500	-54.625	-62.595	-41.625	-13.000	7.970	PK
2			6601.500	-53.684	-70.271	-40.684	-13.000	16.587	PK
3		*	12900.000	-45.267	-70.738	-32.267	-13.000	25.471	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/29 - 00:49
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Vertical
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 14: Transmit at channel 01 by 802.11g and LTE Band 17 channel 23780 Traffic	



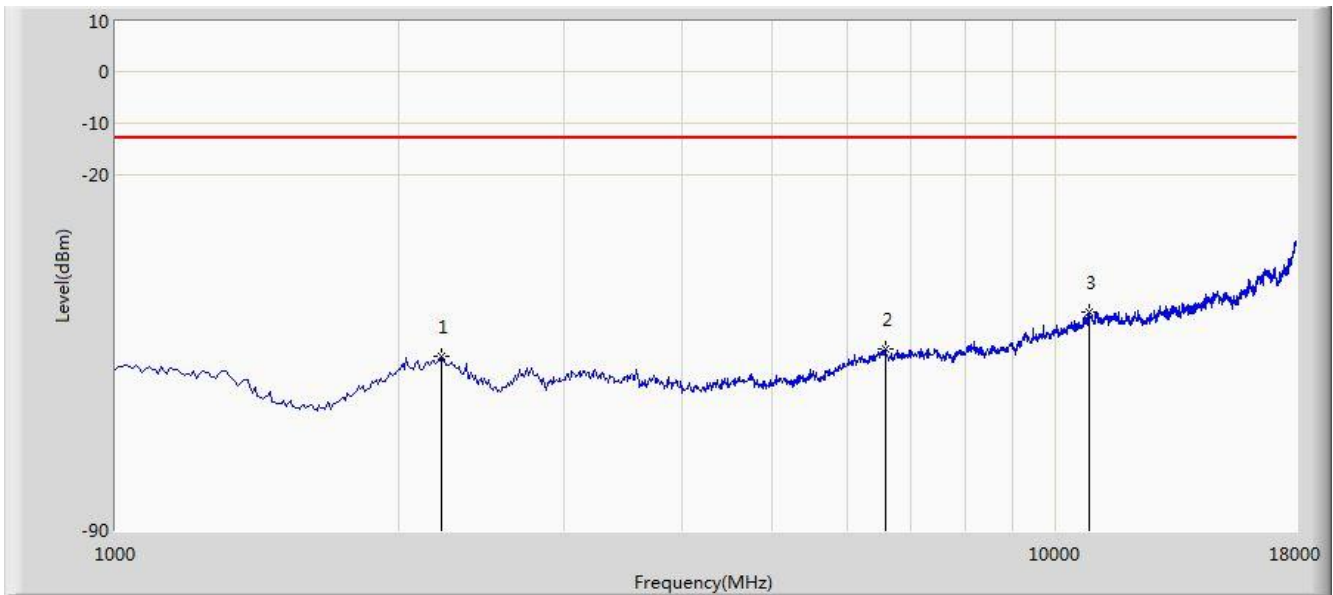
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2190.000	-55.394	-64.634	-42.394	-13.000	9.240	PK
2			6372.000	-54.139	-71.028	-41.139	-13.000	16.889	PK
3		*	10843.000	-46.364	-70.993	-33.364	-13.000	24.629	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/29 - 01:23
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Horizontal
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 15: Transmit at channel 01 by 802.11g and LTE Band 25 channel 26365 Traffic	



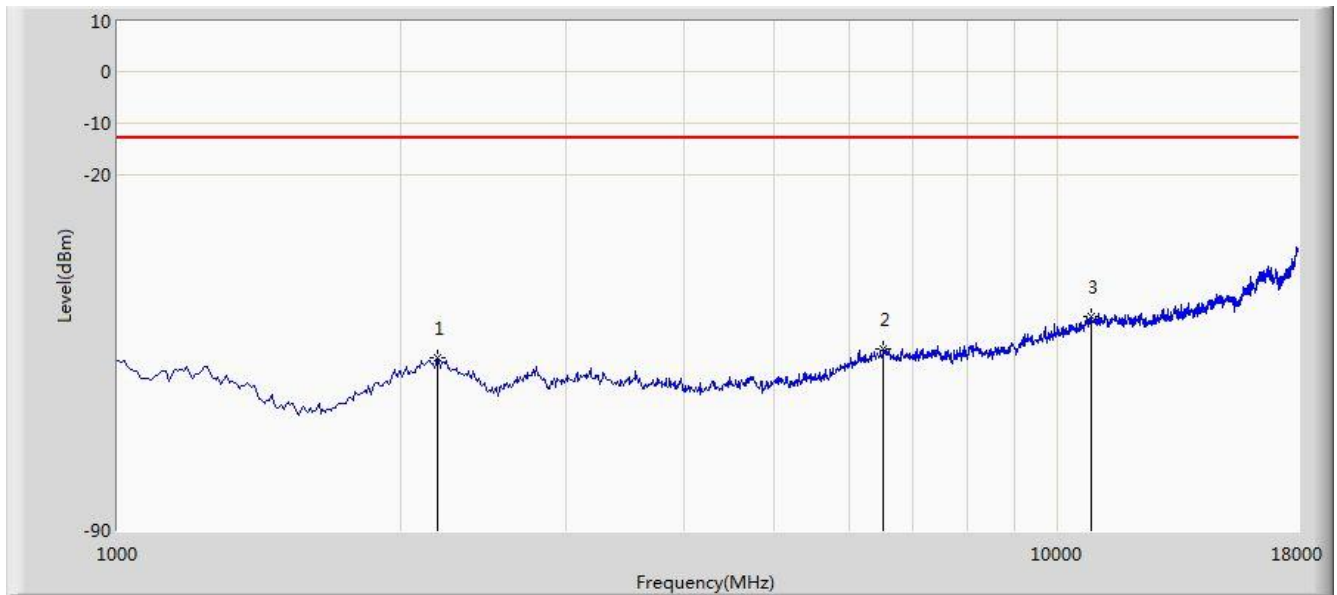
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2224.000	-55.928	-64.884	-42.928	-13.000	8.956	PK
2			6584.500	-54.353	-71.034	-41.353	-13.000	16.681	PK
3		*	10860.000	-47.164	-71.595	-34.164	-13.000	24.431	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/29 - 01:24
Limit: FCC_22&24&27&90S_Spurious_03M_PK	Engineer: Line Chen
Probe: RF_Substitution_(1GHz_18GHz)	Polarity: Vertical
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Mode 15: Transmit at channel 01 by 802.11g and LTE Band 25 channel 26365 Traffic	



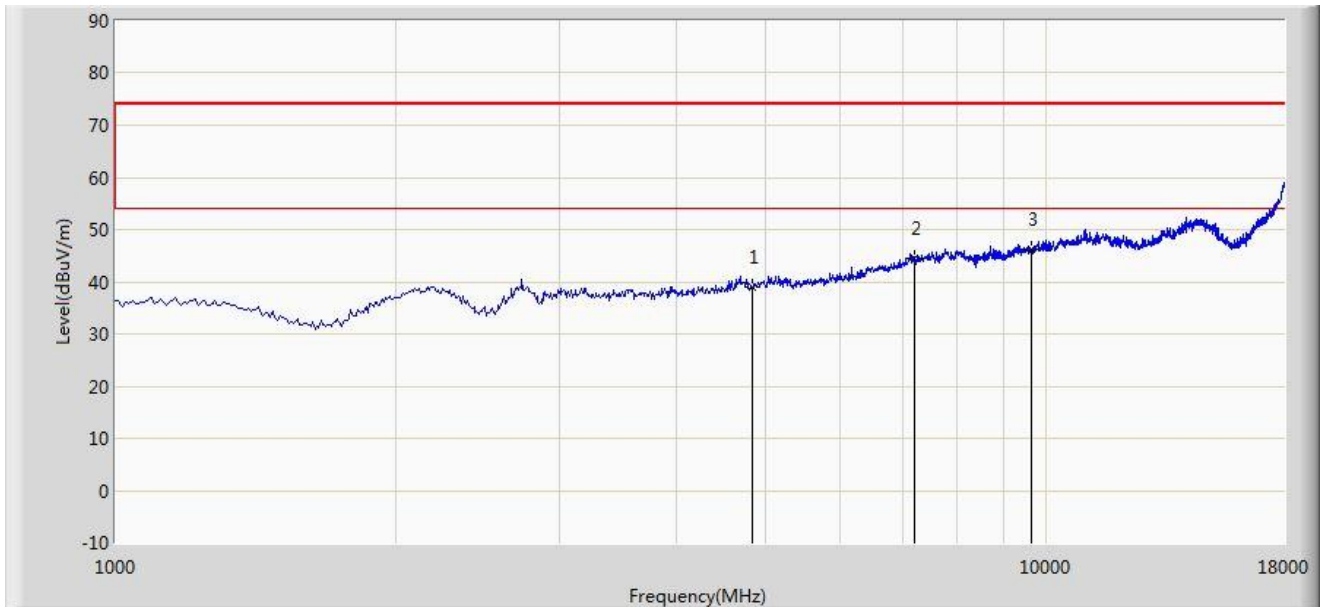
No	Flag	Mark	Frequency (MHz)	Measure Level (dBm)	Reading Level (dBm)	Over Limit (dB)	Limit (dBm)	Factor	Type
1			2190.000	-56.124	-65.364	-43.124	-13.000	9.240	PK
2			6525.000	-54.294	-71.726	-41.294	-13.000	17.432	PK
3		*	10843.000	-47.916	-72.545	-34.916	-13.000	24.629	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/28 - 17:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Line Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Worst Mode: Transmit at channel 01 by 802.11g and GPRS 850 channel 128 Traffic	



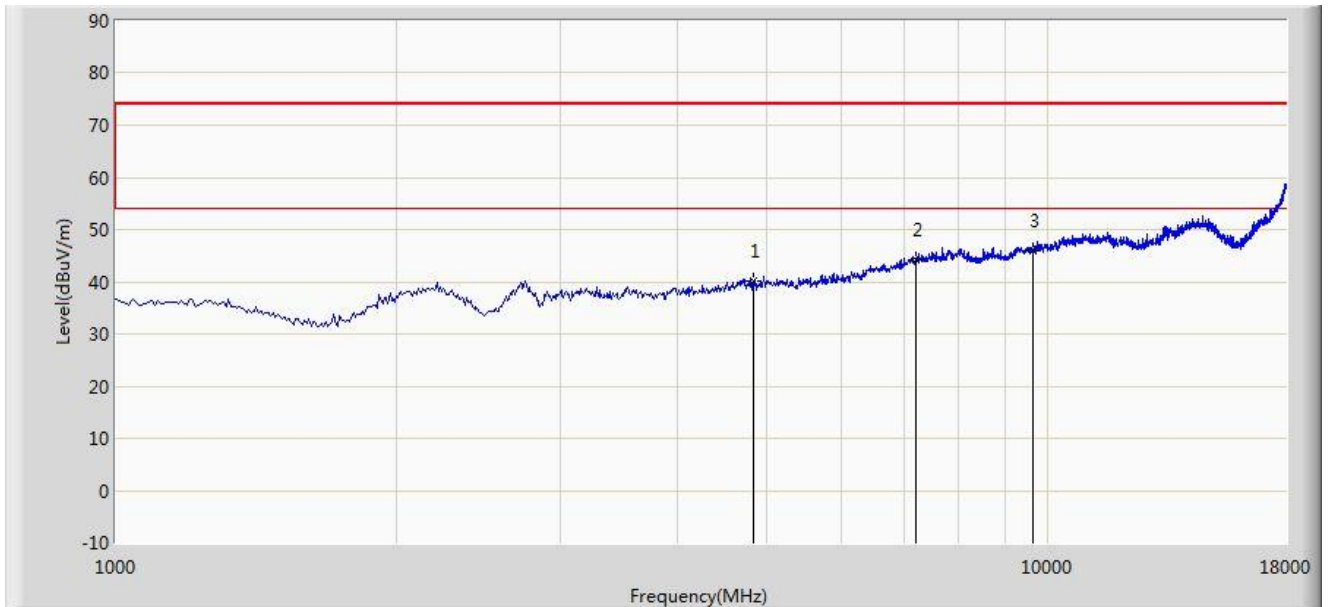
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			4824.000	39.009	36.309	-34.991	74.000	2.700	PK
2			7206.000	44.496	36.691	-29.504	74.000	7.805	PK
3		*	9648.000	46.343	35.356	-27.657	74.000	10.986	PK

Note 1: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

Site: AC1	Time: 2015/04/28 - 17:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Line Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: HPE MSR954-W 1GbE+SFP LTE (AM) Rtr	Power: AC 120V/60Hz
Note: Worst Mode: Transmit at channel 01 by 802.11g and GPRS 850 channel 128 Traffic	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			4824.000	40.049	37.349	-33.951	74.000	2.700	PK
2			7206.000	44.224	36.419	-29.776	74.000	7.805	PK
3		*	9648.000	45.838	34.851	-28.162	74.000	10.986	PK

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre\_Amplifier Gain (dB).

Note 2: There is the ambient noise within frequency range 9 kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.

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