FCC 47 CFR PART 15 SUBPART E

Applicant	:	Kpnetworks Ltd.
Product Type	:	Wireless Lan Access Point
Trade Name	:	Kpnetworks
Model Number	:	KPWL-0300
Test Specification	:	FCC 47 CFR PART 15 SUBPART E ANSI C63.10:2013
Receive Date	:	Dec. 01, 2016
Test Period	:	Dec. 01, 2016 ~ Apr. 05, 2017
Issue Date	:	Apr. 21, 2017

Issue by

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Taiwan Accreditation Foundation accreditation number: 1330

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	Apr. 11, 2017	Initial Issue	Nina Lin
01	Apr. 21, 2017	Revised report information.	Nina Lin

Verification of Compliance

Issued Date: Apr. 21, 2017

Applicant	:	Kpnetworks Ltd.
Product Type	:	Wireless Lan Access Point
Trade Name	:	Kpnetworks
Model Number	:	KPWL-0300
FCC ID	:	2AGR9KPWL0300
EUT Rated Voltage	:	DC 48V, 1A
Test Voltage	:	120 Vac / 60 Hz
Applicable Standard	:	FCC 47 CFR PART 15 SUBPART E ANSI C63.10:2013
Test Result	:	Complied
Performing Lab.	:	A Test Lab Techno Corp. No. 140-1, Changan Street, Bade District, Taoyuan City 33465, Taiwan (R.O.C) Tel：+86-3-2710188 / Fax：+86-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330 http://www.atl-lab.com.tw/e-index.htm

A Test Lab Techno Corp. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by A Test Lab Techno Corp. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By :	Fly Lu	Reviewed By :	Eric Ou Yang
(Manager)	(Fly Lu)	(Testing Engineer)	(Eric Ou Yang)

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1 General Information

1.1. Summary of Test Result

Standard FCC	Item	Result	Remark
15.407(b)(6) 15.207	AC Power Conducted Emission	PASS	---
15.407(b) 15.205 / 15.209	Transmitter Radiated Emissions	PASS	---
15.407(a)	Maximum Conducted Output Power	PASS	---
15.407(h)(1)	Transmit power control	PASS	---
15.407(a)	26dB RF Bandwidth	Reference	---
15.407(e)	6dB RF Bandwidth	N/A	---
15.407(a)	Peak Power Spectral Density	PASS	---
15.407(g)	Frequency Stability	PASS	---
15.407(a) 15.203	Antenna Requirement	PASS	---

The test results of this report relate only to the tested sample(s) identified in this report. Manufacturer or whom it may concern should recognize the pass or fail of the test result.

1.2. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conducted Emission	9kHz ~ 150KHz	2.7
	150kHz ~ 30MHz	2.7
Radiated Emission	9kHz ~ 30MHz	1.7
	30MHz ~ 1000MHz	5.7
	1000MHz ~ 18000MHz	5.5
	18000MHz ~ 26500MHz	4.8
	26500MHz ~ 40000MHz	4.8
Conducted Output Power		+0.27 dB / -0.28 dB
RF Bandwidth		4.96%
Power Spectral Density		+0.71 dB / -0.77 dB
Frequency Stability		+ 2.212 x 10-7% / - 2.170 x 10-7
Duty Cycle		1.06%
Time Occupancy		1.40%

2 EUT Description

Applicant	Kpnetworks Ltd. 4-5-11-10F Shiba, Minato-ku, Tokyo, 108-0014, Japan
Manufacturer	Edimax Technology Co., Ltd. No. 3, Wu-Chun 3rd Road., Wuku District, New Taipei City 24891, Taiwan, R.O.C.
Product Type	Wireless Lan Access Point
Trade Name	Kpnetworks
Model No.	KPWL-0300
FCC ID	2AGR9KPWL0300
Class II Permissive Change	Add U-NII Band II function by software control.

Operate Frequency

Frequency Band		Frequency Range (MHz)	Number of Channels
IEEE 802.11a	U-NII Band II-A	5260 – 5320	3
	U-NII Band II-C	5500 – 5700	3
IEEE 802.11n 20 MHz / IEEE 802.11ac 20 MHz	U-NII Band II-A	5260 – 5320	3
	U-NII Band II-C	5500 – 5700	3
IEEE 802.11n 40 MHz / IEEE 802.11ac 40 MHz	U-NII Band II-A	5270 – 5310	2
	U-NII Band II-C	5510 – 5670	3
IEEE 802.11ac 80 MHz	U-NII Band II-A	5290	1
	U-NII Band II-C	5530	1

Modulation Type	OFDM
Equipment Type	Indoor access point have (master / client) function
Module use	QUALCOMM_QCA9984 (EW-7955MAC) QUALCOMM_QCA9990 (EW-7944MAC)

Antenna information

Module : QCA9984 (EW-7955MAC)

Model	Type	Max. Gain (dBi)	Note
C059-510348-A	External antenna (Reversed-SMA Connector)	6.0	For AP port_4TX
M6060060P1D43602M	External antenna (Reversed-SMA Connector)	6.0	Quad Patct Antenna
M6060060P23602NB	External antenna (Reversed-SMA Connector)	6.0	MIMO Patct Antenna
SAA04-22008A	External antenna (Reversed-SMA Connector)	7.0	Omni Directional Antenna

Module : QCA9990 (EW-7944MAC)

Model	Type	Max. Gain (dBi)	Note
CO59-510347-A	External antenna (Reversed-SMA Connector)	6.0	For P-t-P Port_4TX

Antenna Delivery	IEEE 802.11a : 4TX + 4RX (CDD) IEEE 802.11ac 20 MHz / 40 MHz / 80 MHz : 4TX + 4RX (MIMO)
Frequency stability specification	± 20 ppm

Module : QCA9984 (EW-7955MAC)		
Frequency Band		RF Output Power (W)
IEEE 802.11a	U-NII Band II-A	0.043
	U-NII Band II-C	0.017
IEEE 802.11ac 20 MHz	U-NII Band II-A	0.039
	U-NII Band II-C	0.018
IEEE 802.11ac 40 MHz	U-NII Band II-A	0.046
	U-NII Band II-C	0.021
IEEE 802.11ac 80 MHz	U-NII Band II-A	0.042
	U-NII Band II-C	0.026

Module : QCA9990 (EW-7944MAC)		
Frequency Band		RF Output Power (W)
IEEE 802.11a	U-NII Band II-A	0.041
	U-NII Band II-C	0.036
IEEE 802.11ac 20 MHz	U-NII Band II-A	0.041
	U-NII Band II-C	0.040
IEEE 802.11ac 40 MHz	U-NII Band II-A	0.059
	U-NII Band II-C	0.054
IEEE 802.11ac 80 MHz	U-NII Band II-A	0.053
	U-NII Band II-C	0.059

3 Test Methodology

3.1. Mode of Operation

Decision of Test ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Continuous TX mode
Mode 2: IEEE 802.11a Link Mode
Mode 3: IEEE 802.11ac 20MHz Link Mode
Mode 4: IEEE 802.11ac 40MHz Link Mode
Mode 5: IEEE 802.11ac 80MHz Link Mode

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

Equipment Type	
Outdoor access point	---
Indoor access point	V
Fixed point-to-point access points	V
Client devices	V

Test Mode	ANT-0	ANT-1	ANT-2	ANT-3	ANT-0+1+2+3
Mode 2	V	V	V	V	V
Mode 3	V	V	V	V	V
Mode 4	V	V	V	V	V
Mode 5	V	V	V	V	V

Test Mode	Band	Data Rate	Test Channel
Mode 2	U-NII Band II-A	6M	52, 56, 64
	U-NII Band II-C		100,112,140
Mode 3	U-NII Band II-A	26M	52, 56, 64
	U-NII Band II-C		100,112,140
Mode 4	U-NII Band II-A	54M	54, 62
	U-NII Band II-C		102,110, 134
Mode 5	U-NII Band II-A	117.2M	58
	U-NII Band II-C		1106

Test combinations

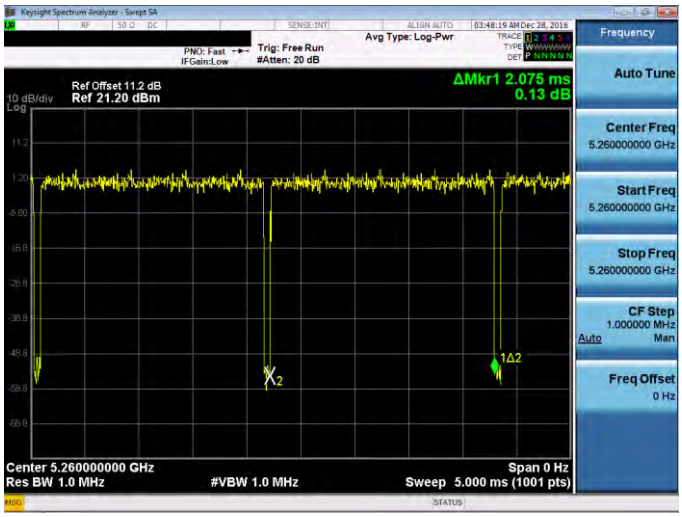
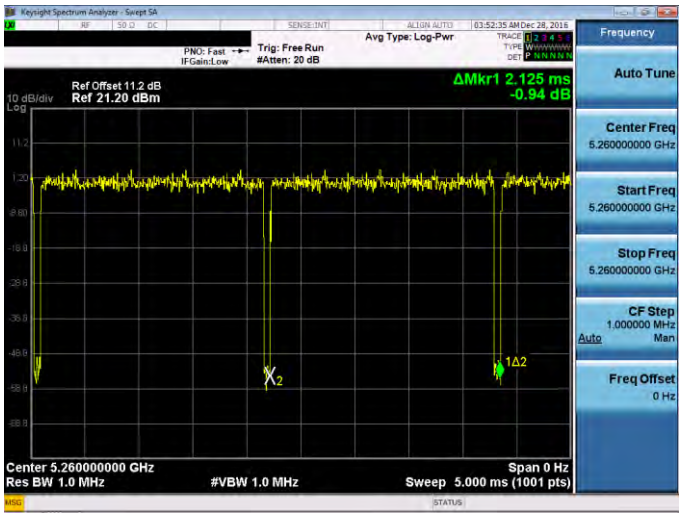
Model	Type	Max. Gain (dBi)
C059-510348-A	External antenna (Reversed-SMA Connector)	6.0
M6060060P1D43602M	External antenna (Reversed-SMA Connector)	6.0
M6060060P23602NB	External antenna (Reversed-SMA Connector)	6.0
SAA04-22008A	External antenna (Reversed-SMA Connector)	7.0
CO59-510347-A	External antenna (Reversed-SMA Connector)	6.0
AC Power Conducted Emission test combinations		
C059-510348-A+CO59-510347-A		
M6060060P23602NB+CO59-510347-A		
SAA04-22008A+CO59-510347-A		
Transmitter Radiated Emissions test combinations_ Module : QCA9984 (EW-7955MAC)_Master		
M6060060P23602NB		
SAA04-22008A		
Transmitter Radiated Emissions test combinations_ Module : QCA9990 (EW-7944MAC) _Master		
CO59-510347-A		
Simultaneous Transmitting		
M6060060P23602NB+C059-510347-A		
SAA04-22008A+C059-510347-A		

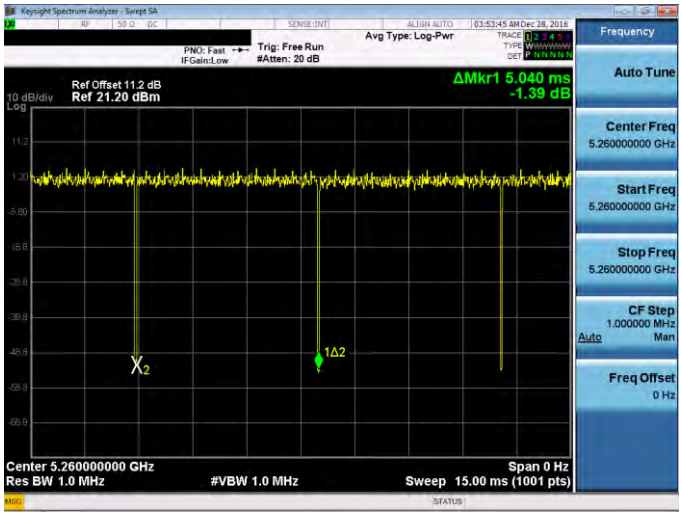
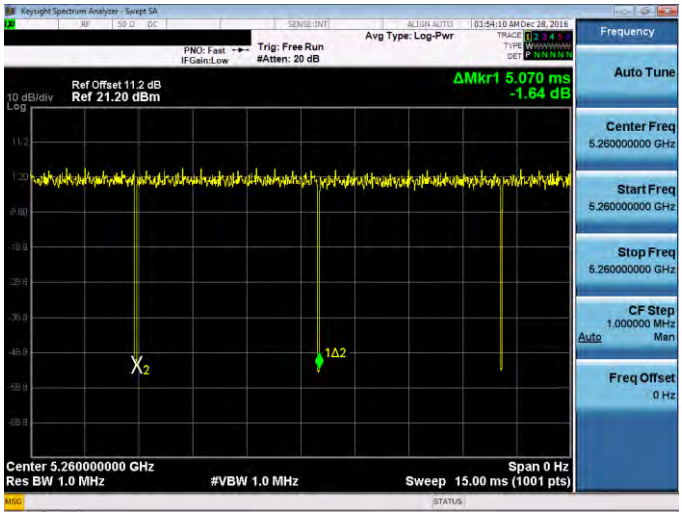
Duty cycle

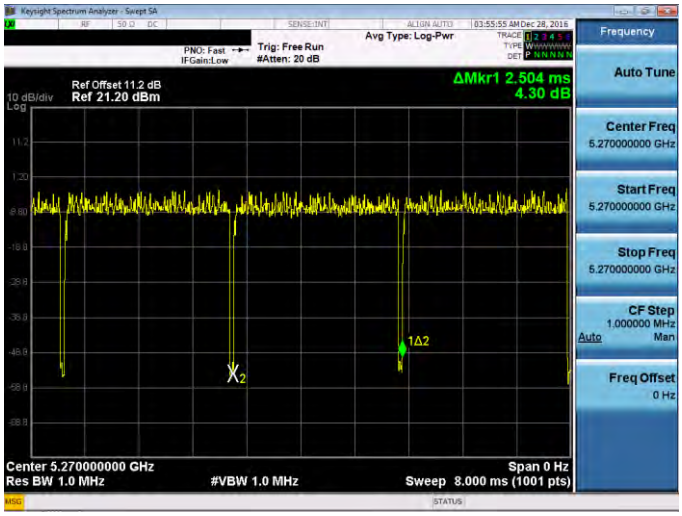
Module : QCA9984 (EW-7955MAC)						
Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 2: IEEE 802.11a Link Mode	5260.0	2.075	2.125	0.976	0.103	0.482
Mode 3: IEEE 802.11ac 20MHz Link Mode	5260.0	5.040	5.070	0.994	0.026	0.010
Mode 4: IEEE 802.11ac 40MHz Link Mode	5270.0	2.456	2.504	0.981	0.084	0.010
Mode 5: IEEE 802.11ac 80MHz Link Mode	5290.0	1.160	1.215	0.955	0.201	0.862

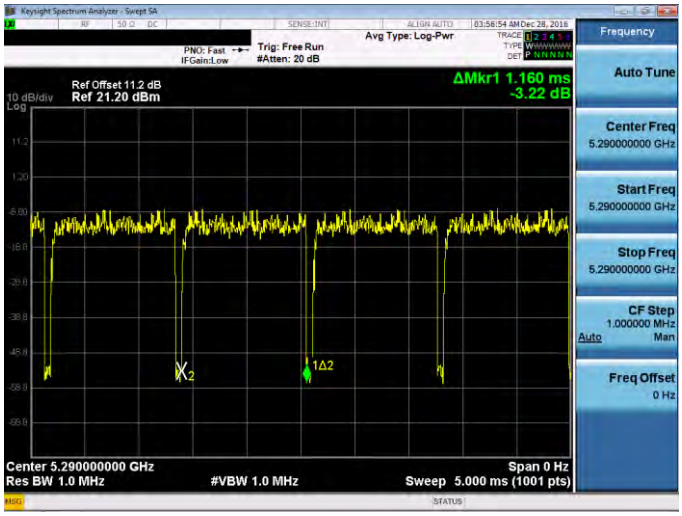
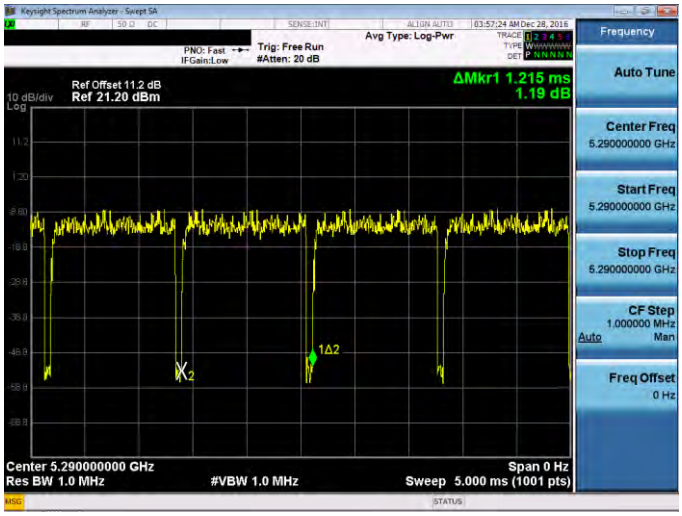
Module : QCA9990 (EW-7944MAC)						
Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 2: IEEE 802.11a Link Mode	5260.0	2.075	2.135	0.972	0.124	0.482
Mode 3: IEEE 802.11ac 20MHz Link Mode	5260.0	5.040	5.070	0.992	0.036	0.010
Mode 4: IEEE 802.11ac 40MHz Link Mode	5270.0	2.456	2.512	0.978	0.098	0.407
Mode 5: IEEE 802.11ac 80MHz Link Mode	5290.0	1.155	1.218	0.948	0.231	0.866

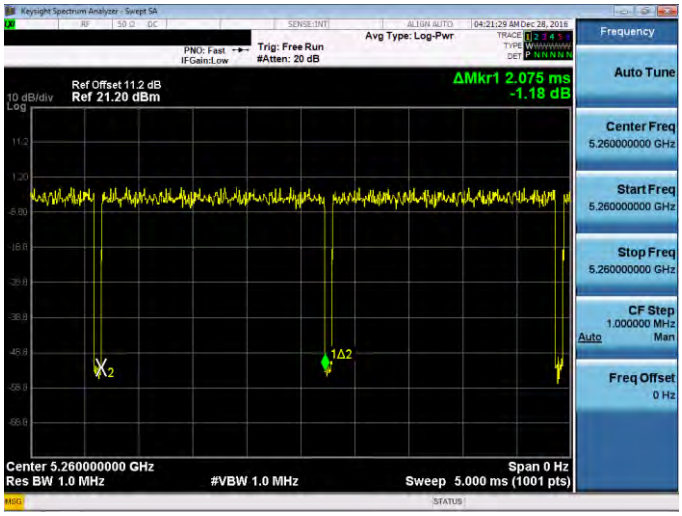
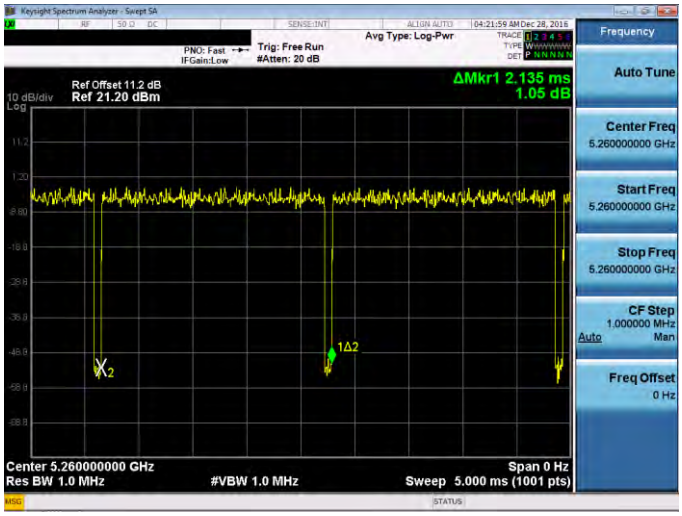
Duty Cycle Graphs

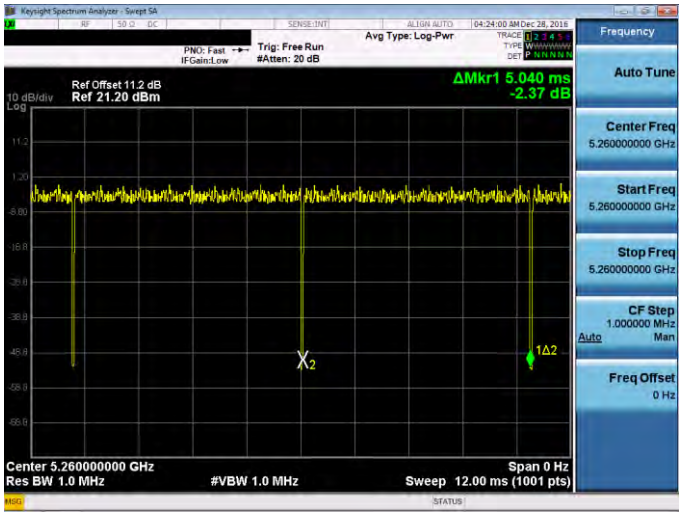
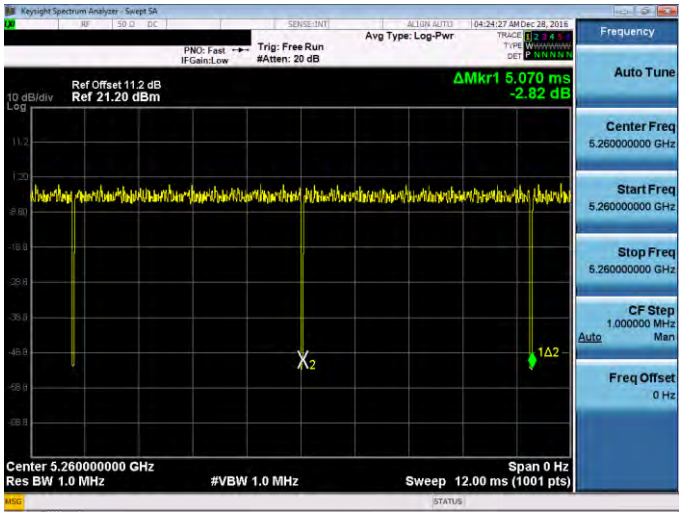
Module : QCA9984 (EW-7955MAC)	
Mode 2: IEEE 802.11a Link Mode	
On time	
On+off time	

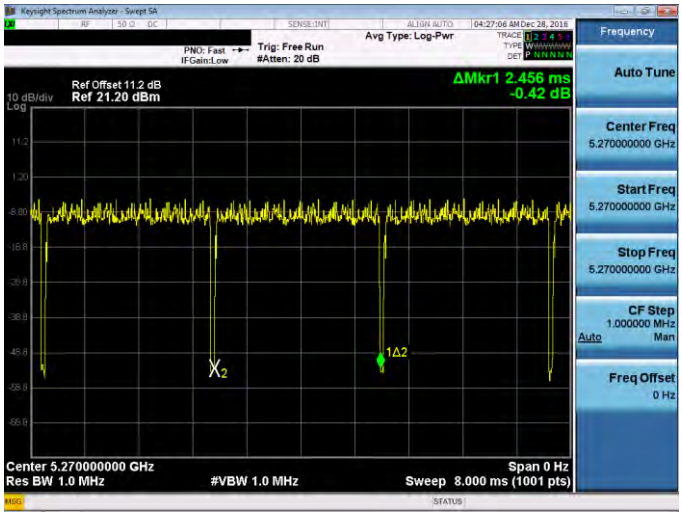
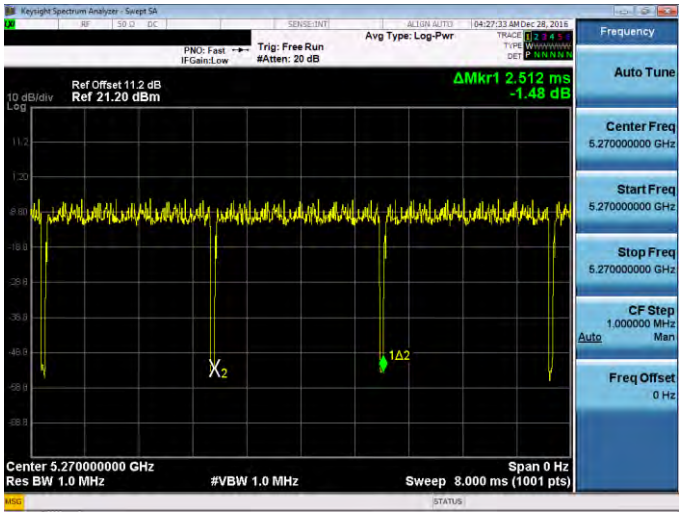
Module : QCA9984 (EW-7955MAC)	
Mode 3: IEEE 802.11ac 20MHz Link Mode	
On time	
On+off time	

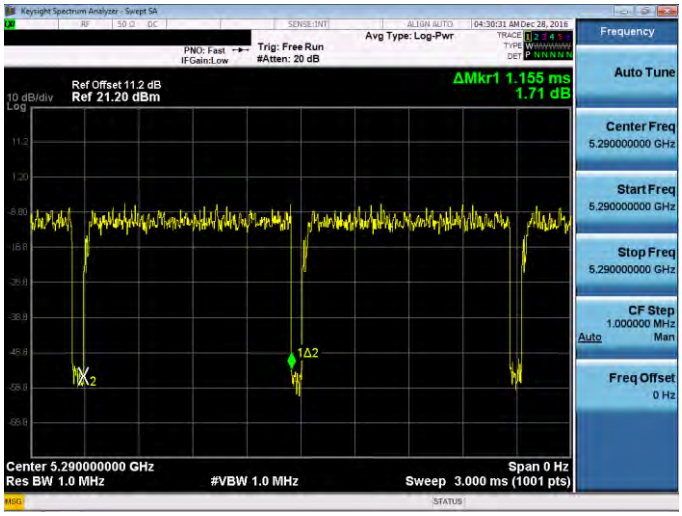
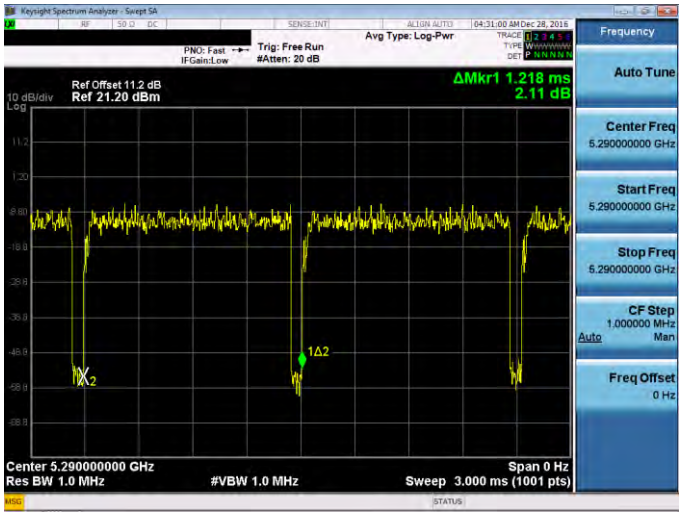
Module : QCA9984 (EW-7955MAC)	
Mode 4: IEEE 802.11ac 40MHz Link Mode	
On time	
On+off time	

Module : QCA9984 (EW-7955MAC)	
Mode 5: IEEE 802.11ac 80MHz Link Mode	
On time	
On+off time	

Module : QCA9990 (EW-7944MAC)	
Mode 2: IEEE 802.11a Link Mode	
On time	
On+off time	

Module : QCA9990 (EW-7944MAC)	
Mode 3: IEEE 802.11ac 20MHz Link Mode	
On time	
On+off time	

Module : QCA9990 (EW-7944MAC)	
Mode 4: IEEE 802.11ac 40MHz Link Mode	
On time	
On+off time	

Module : QCA9990 (EW-7944MAC)	
Mode 5: IEEE 802.11ac 80MHz Link Mode	
On time	
On+off time	

3.2. EUT Exercise Software

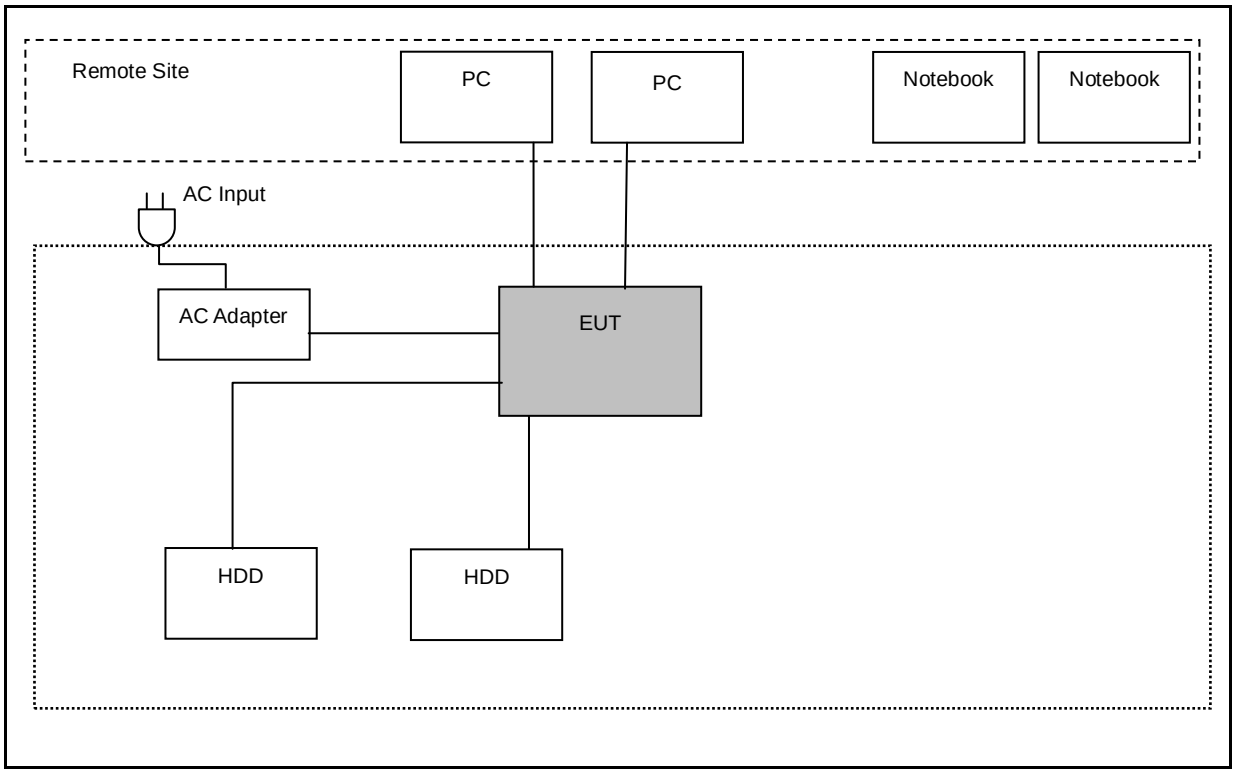
The EUT is operated in the engineering mode to fix the TX frequency for the purposes of measurement. According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

1.	Setup the EUT shown on 3.3.
2.	Turn on the power of all equipment.
3.	EUT run test program.

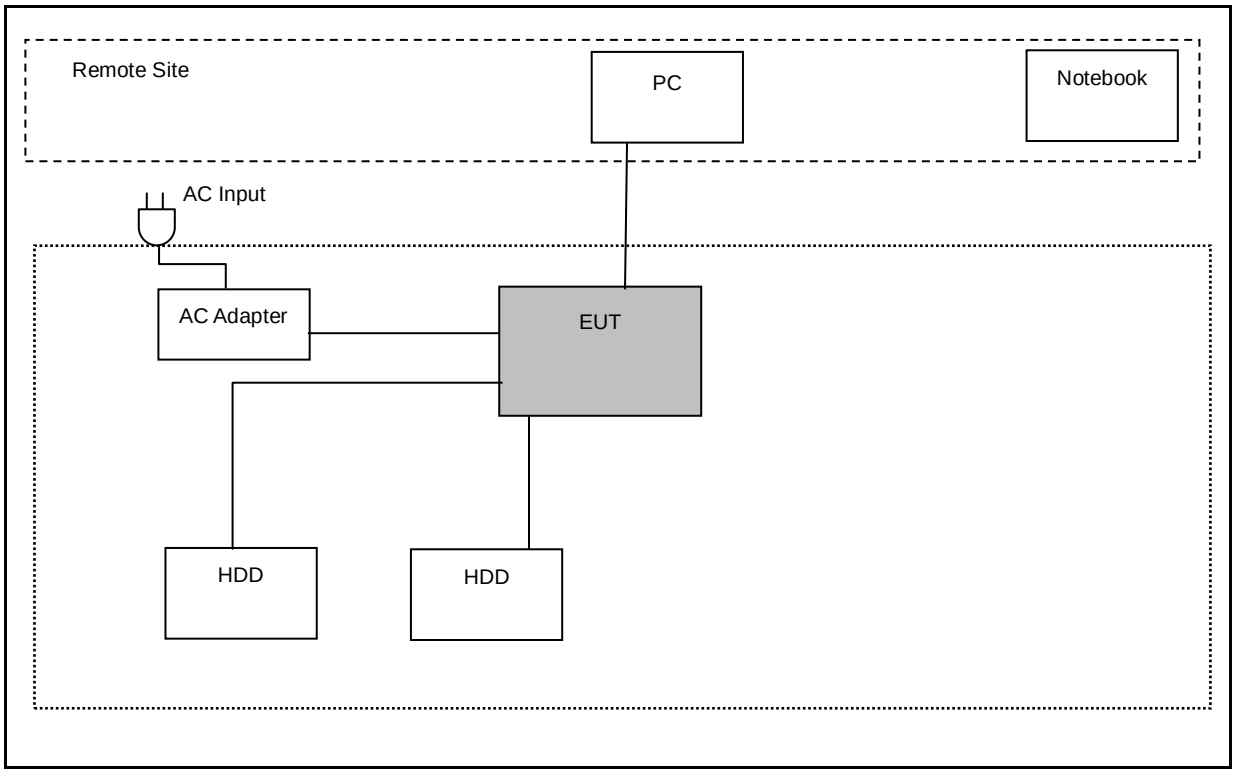
Measurement Software	
1	EZ-EMC Ver. ATL-03A1-1
2	EZ-EMC Ver ATL-ITC-3A1-1

3.3. Configuration of Test System Details

Conducted Emission



Radiated Emission



3.4. Test Site Environment

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

4 Test Results

4.1. AC Power Conducted Emission Measurement

■ **Limit**

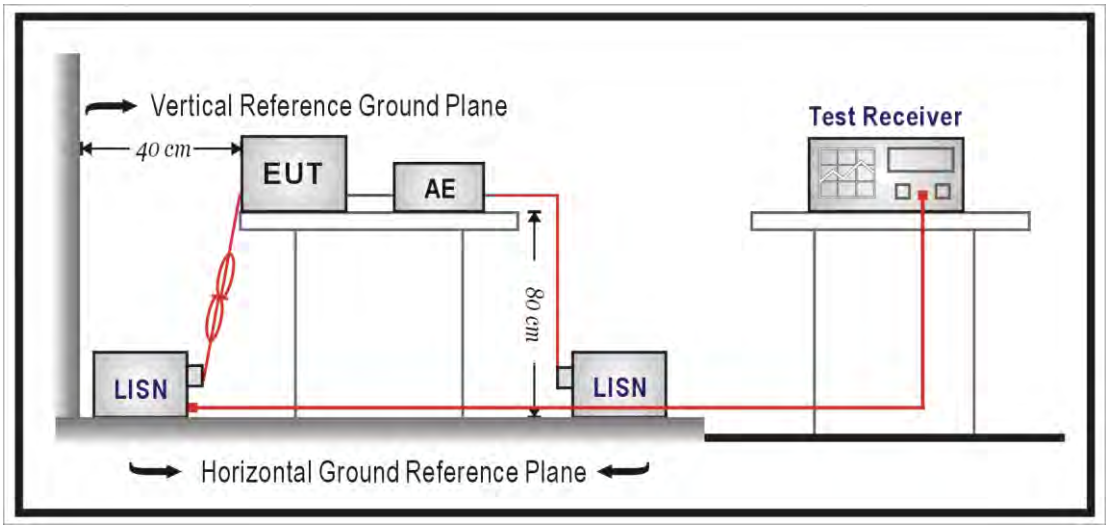
Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

■ **Test Instruments**

Describe	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Test Receiver	R&S	ESCI	100367	05/31/2016	1 year
LISN	R&S	ENV216	101040	03/15/2016	1 year
LISN	R&S	ENV216	101041	03/07/2016	1 year
RF Cable	Woken	00100D1380194M	TE-02-02	05/31/2016	1 year
Test Site	ATL	TE02	TE02	N.C.R.	-----

Note: N.C.R. = No Calibration Request.

■ **Test Setup**



4.2. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50Ω // 50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50Ω // 50uH coupling impedance with 50ohm termination.

Tabletop device shall be placed on a non-conducting platform, of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The wall of screened room shall be located 40cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80cm from any other ground conducting surface including one or more LISNs. For floor-standing device shall be placed under the EUT with a 12mm insulating material.

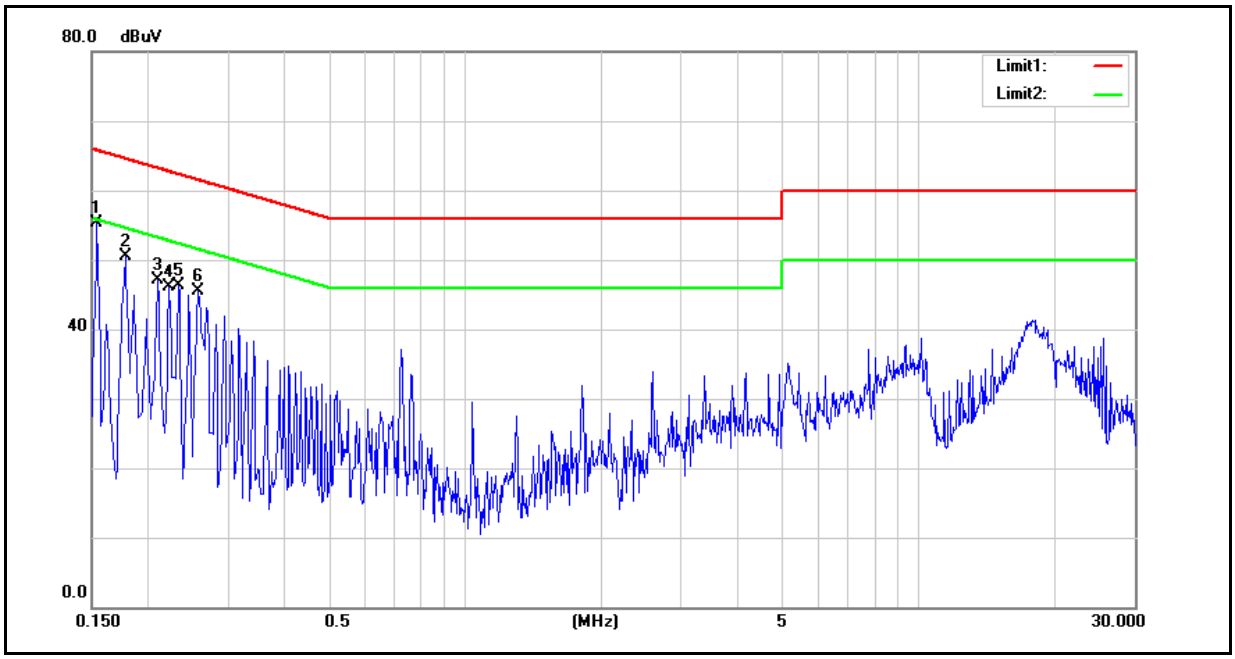
Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a resolution bandwidth of 9 kHz. The equipment under test (EUT) shall be meet the limits in section 4.1, as applicable, including the average limit and the quasi-peak limit when using respectively, an average detector and quasi-peak detector measured in accordance with the methods described of related standard. When all of peak value were complied with quasi-peak and average limit from 150kHz to 30MHz then quasi-peak and average measurement was unnecessary.

The AMN shall be placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0,8 m from the AMN. If the mains power cable is longer than 1m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4m. All of interconnecting cables that hang closer than 40cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1m. All 50 Ω ports of the LISN shall be resistively terminated into 50 Ω loads when not connected to the measuring instrument.

If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored.

■ **Test Result**

Standard:	FCC Part 15.407	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Test Mode:	Mode 1	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
		Date:	12/28/2016
Description:	Antenna:C059-510348-A+CO59-510347-A		

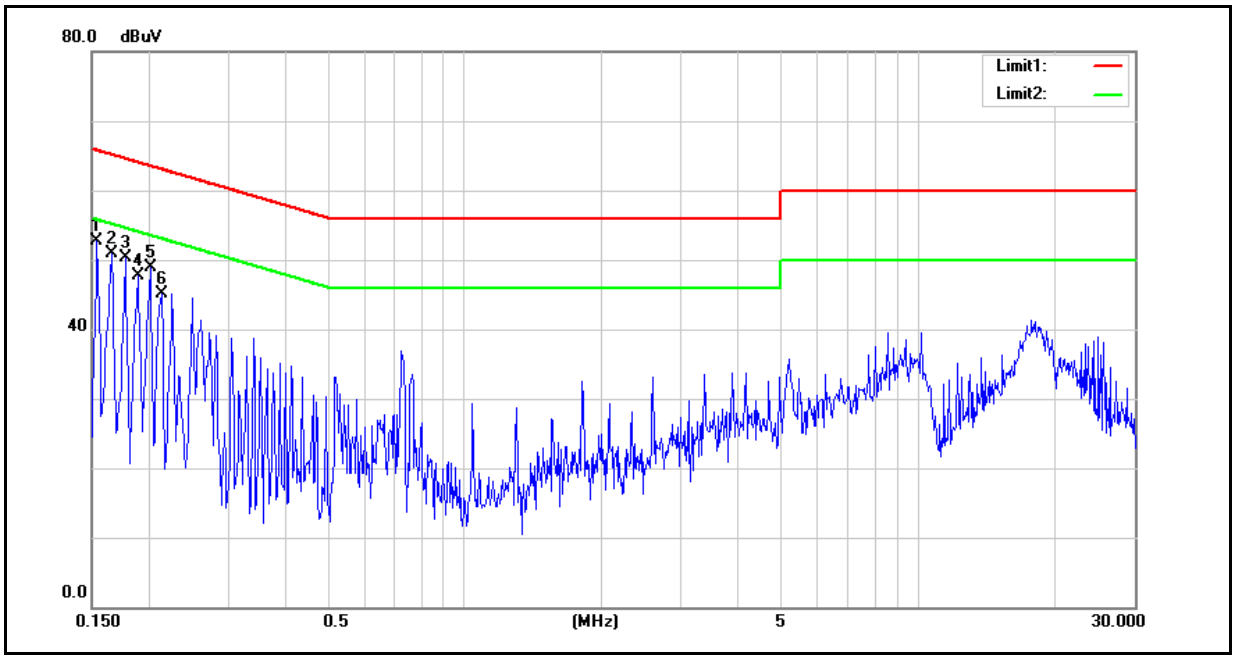


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1540	40.07	24.42	9.60	49.67	34.02	65.78	55.78	-16.11	-21.76	Pass
2	0.1780	35.99	19.25	9.59	45.58	28.84	64.58	54.58	-19.00	-25.74	Pass
3	0.2100	32.25	13.67	9.59	41.84	23.26	63.21	53.21	-21.37	-29.95	Pass
4	0.2220	30.94	15.50	9.59	40.53	25.09	62.74	52.74	-22.21	-27.65	Pass
5	0.2340	29.77	13.81	9.59	39.36	23.40	62.31	52.31	-22.95	-28.91	Pass
6	0.2580	30.58	27.51	9.60	40.18	37.11	61.50	51.50	-21.32	-14.39	Pass

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

Standard:	FCC Part 15.407	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Test Mode:	Mode 1	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
		Date:	12/28/2016
Description:	Antenna:C059-510348-A+CO59-510347-A		

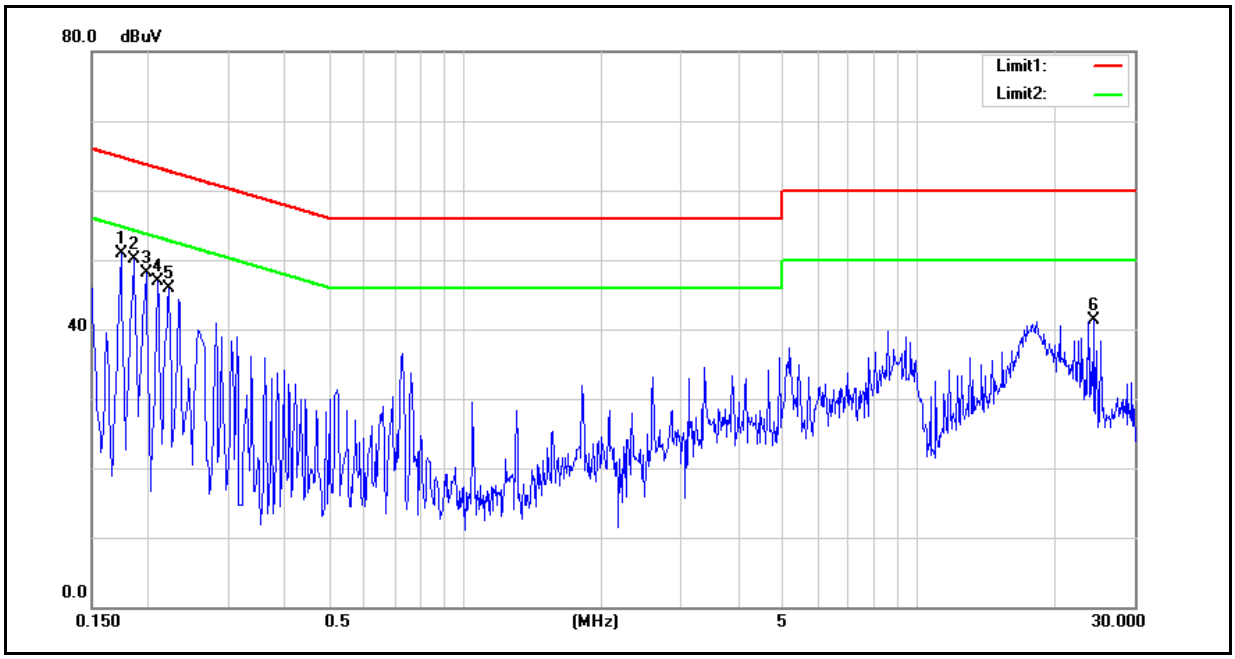


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1540	40.04	23.77	9.59	49.63	33.36	65.78	55.78	-16.15	-22.42	Pass
2	0.1660	37.59	14.52	9.59	47.18	24.11	65.16	55.16	-17.98	-31.05	Pass
3	0.1780	36.44	18.64	9.58	46.02	28.22	64.58	54.58	-18.56	-26.36	Pass
4	0.1900	34.97	18.53	9.58	44.55	28.11	64.04	54.04	-19.49	-25.93	Pass
5	0.2020	31.70	15.27	9.58	41.28	24.85	63.53	53.53	-22.25	-28.68	Pass
6	0.2140	31.49	15.02	9.58	41.07	24.60	63.05	53.05	-21.98	-28.45	Pass

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

Standard:	FCC Part 15.407	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Test Mode:	Mode 1	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
		Date:	12/28/2016
Description:	Antenna:M6060060P23602NB+CO59-510347-A		

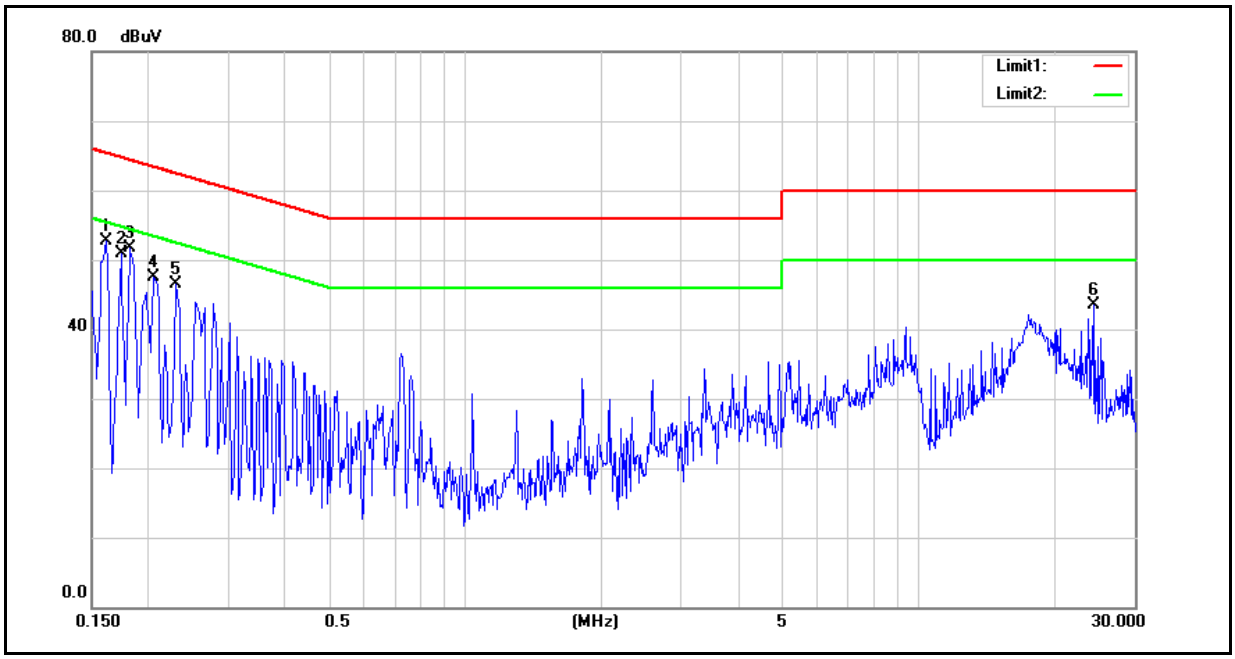


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1740	36.50	17.03	9.60	46.10	26.63	64.77	54.77	-18.67	-28.14	Pass
2	0.1860	34.57	19.47	9.59	44.16	29.06	64.21	54.21	-20.05	-25.15	Pass
3	0.1980	33.26	17.06	9.59	42.85	26.65	63.69	53.69	-20.84	-27.04	Pass
4	0.2100	32.48	13.07	9.59	42.07	22.66	63.21	53.21	-21.14	-30.55	Pass
5	0.2220	30.42	15.15	9.59	40.01	24.74	62.74	52.74	-22.73	-28.00	Pass
6	24.4220	31.56	30.87	9.98	41.54	40.85	60.00	50.00	-18.46	-9.15	Pass

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

Standard:	FCC Part 15.407	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Test Mode:	Mode 1	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
		Date:	12/28/2016
Description:	Antenna:M6060060P23602NB+CO59-510347-A		

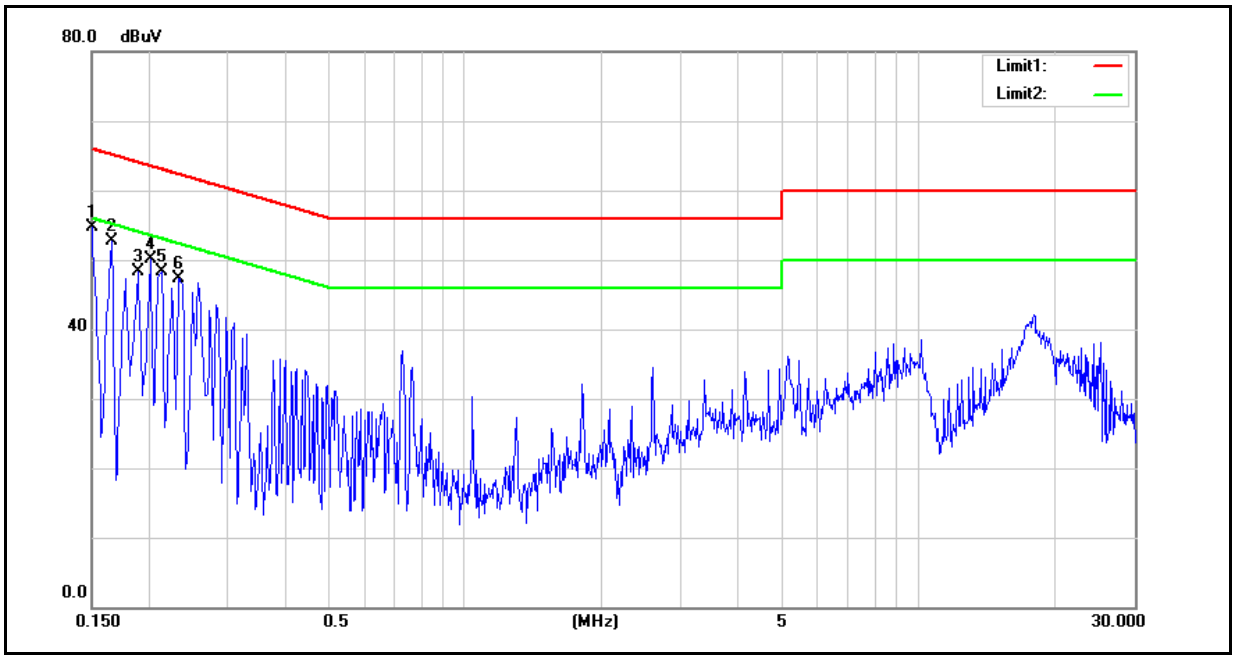


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1620	37.66	16.84	9.59	47.25	26.43	65.36	55.36	-18.11	-28.93	Pass
2	0.1740	35.62	17.23	9.59	45.21	26.82	64.77	54.77	-19.56	-27.95	Pass
3	0.1820	34.75	19.91	9.58	44.33	29.49	64.39	54.39	-20.06	-24.90	Pass
4	0.2060	32.91	13.05	9.58	42.49	22.63	63.37	53.37	-20.88	-30.74	Pass
5	0.2300	30.47	14.49	9.58	40.05	24.07	62.45	52.45	-22.40	-28.38	Pass
6	24.4260	31.94	31.42	10.15	42.09	41.57	60.00	50.00	-17.91	-8.43	Pass

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

Standard:	FCC Part 15.407	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Test Mode:	Mode 1	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
		Date:	12/28/2016
Description:	Antenna:SAA04-22008A+CO59-510347-A		

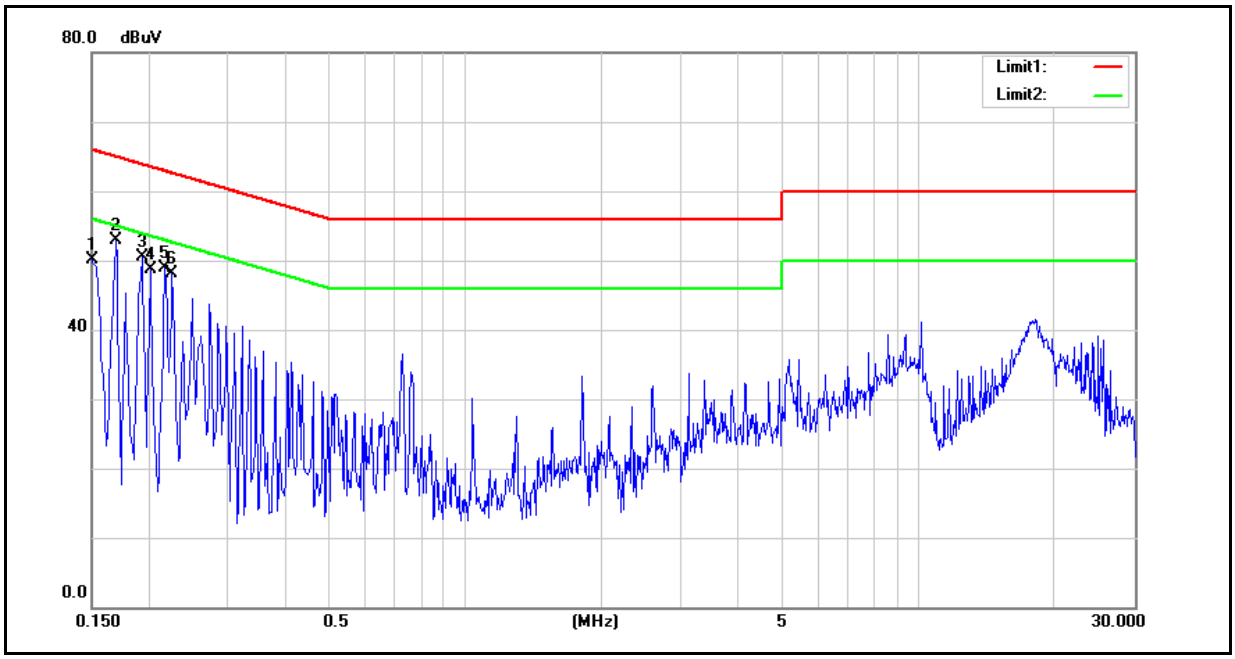


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1500	40.76	25.14	9.60	50.36	34.74	66.00	56.00	-15.64	-21.26	Pass
2	0.1660	37.78	15.86	9.60	47.38	25.46	65.16	55.16	-17.78	-29.70	Pass
3	0.1900	34.04	20.03	9.59	43.63	29.62	64.04	54.04	-20.41	-24.42	Pass
4	0.2020	33.22	15.17	9.59	42.81	24.76	63.53	53.53	-20.72	-28.77	Pass
5	0.2140	31.80	16.25	9.59	41.39	25.84	63.05	53.05	-21.66	-27.21	Pass
6	0.2340	29.36	15.23	9.59	38.95	24.82	62.31	52.31	-23.36	-27.49	Pass

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

Standard:	FCC Part 15.407	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Test Mode:	Mode 1	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
		Date:	12/28/2016
Description:	Antenna:SAA04-22008A+CO59-510347-A		



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1500	40.43	24.86	9.59	50.02	34.45	66.00	56.00	-15.98	-21.55	Pass
2	0.1700	36.42	17.99	9.59	46.01	27.58	64.96	54.96	-18.95	-27.38	Pass
3	0.1940	35.14	18.24	9.58	44.72	27.82	63.86	53.86	-19.14	-26.04	Pass
4	0.2020	33.17	14.17	9.58	42.75	23.75	63.53	53.53	-20.78	-29.78	Pass
5	0.2180	31.57	15.49	9.58	41.15	25.07	62.89	52.89	-21.74	-27.82	Pass
6	0.2260	30.70	14.89	9.58	40.28	24.47	62.60	52.60	-22.32	-28.13	Pass

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

4.3. Transmitter Radiated Emissions Measurement

■ **Limit**

(1)Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(a)For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(b)For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(c)For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(d)For transmitters operating in the 5.725-5.85 GHz band:

(i)All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(2)Limits of Radiated Emission Measurement

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequency Range (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	10	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note: 1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, 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 20dB under any condition of modulation.

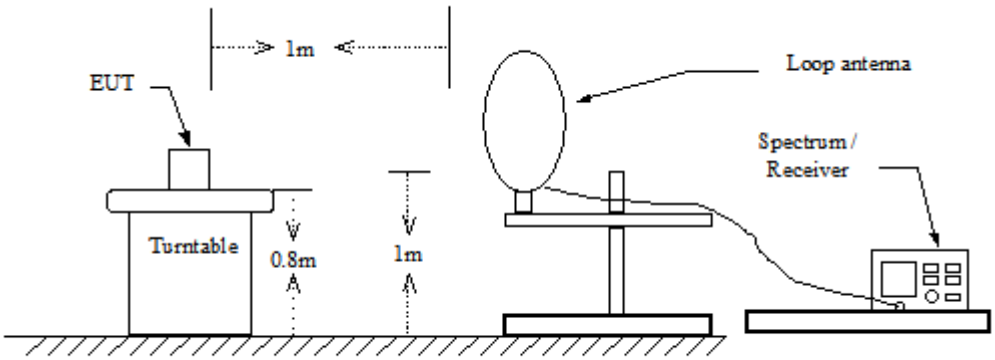
■ **Test Instruments**

3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/08/2016	1 year
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/08/2016	1 year
Pre Amplifier	Agilent	8449B	3008A02237	10/11/2016	1 year
Pre Amplifier	Agilent	8447D	2944A11119	01/11/2016	1 year
Broadband Antenna	Schwarzbeck	VULB9168	416	10/13/2016	1 year
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/06/2016	1 year
Horn Antenna (18~40GHz)	ETS	3116	86467	09/05/2016	1 year
Loop Antenna	COM-POWER CORPORATION	AL-130	121014	02/01/2016	1 year
Microwave Cable	EMCI	EMC102-KM-KM-14000	151001	02/23/2016	1 year
Microwave Cable	EMCI	EMC-104-SM-SM-14000	140202	02/23/2016	1 year
Microwave Cable	EMCI	EMC104-SM-SM-600	140301	02/23/2016	1 year

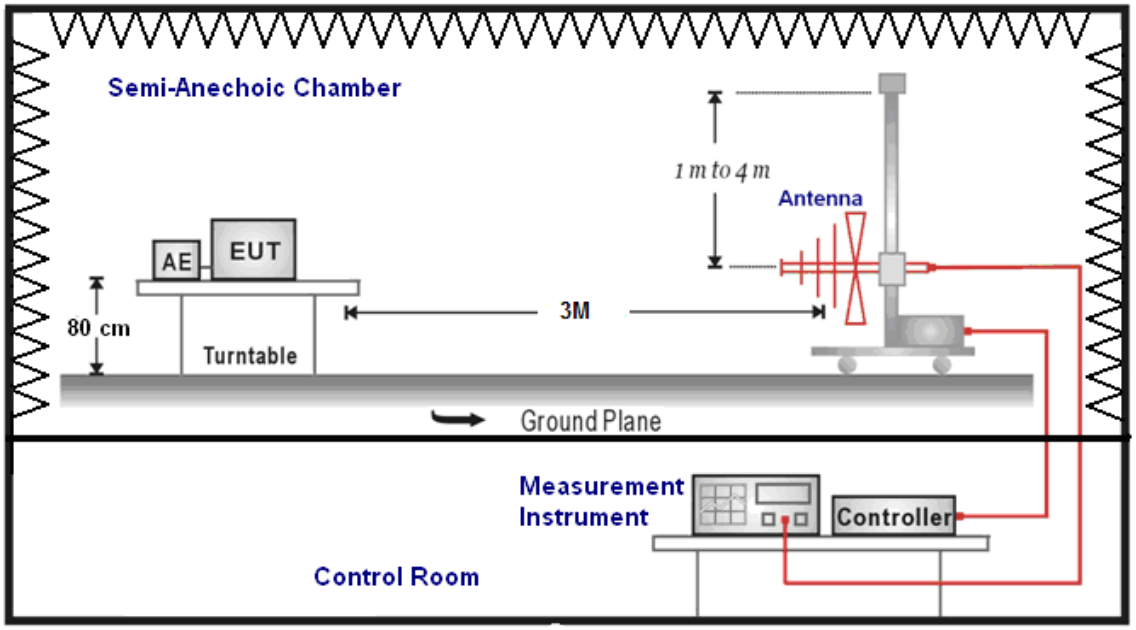
Note: N.C.R. = No Calibration Request.

■ **Setup**

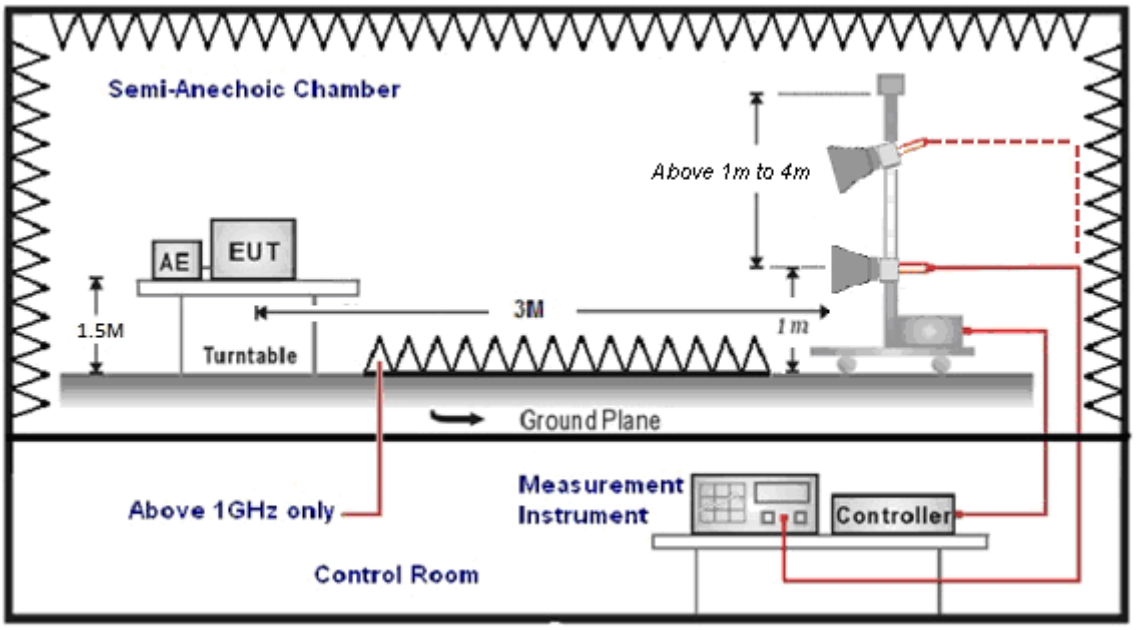
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



■ **Test Procedure**

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 or 1.5 meters height(below 1GHz use 0.8m turntable / above 1GHz use 1.5m turntable), top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 40 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For restricted measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements and 10 Hz for average measurements when Duty cycle > 0.98 / 1/T for average measurements when Duty cycle < 0.98.

For out of band measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on tree orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Trilog-Broadband Antenna at 3 Meter and the ETS-Lindgren Double-Ridged Waveguide Horn antnna Schwarzbeck Mess-Elektronik Broadband Horn Antenna was used in frequencies 1 – 40 GHz at a distance of 3 meter. The antenna at an angle toward the source of the emission.All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).

For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts pre meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro colts per meter (dBuV/m).

The actual field is intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

(1) Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)
FI= Reading of the field intensity.
AF= Antenna factor.
CL= Cable loss.
P.S Amplitude is auto calculate in spectrum analyzer.

(2) Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)
The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:
(a) For fundamental frequency : Transmitter Output < +30dBm
(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

Measuring Instruments and setting

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000MHz
Stop Frequency	40GHz
RBW/VBW(Emission in restricted band)	1MHz / 3MHz for Peak 1MHz / (1/T) for Average
RBW/VBW(Emission in non-restricted band)	1MHz / 3MHz for Peak

■ **Test Result**

Below 1GHz

Module : QCA9984 (EW-7955MAC)

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	Mode 1	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Description:	Antenna:M6060060P23602NB	Date:	12/29/2016

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
275.0000	45.67	-4.18	41.49	46.00	-4.51	QP	H
399.0000	41.02	-1.72	39.30	46.00	-6.70	QP	H
546.0000	30.34	1.40	31.74	46.00	-14.26	QP	H
675.0000	31.58	4.28	35.86	46.00	-10.14	QP	H
725.0000	30.91	5.34	36.25	46.00	-9.75	QP	H
800.0000	36.77	6.68	43.45	46.00	-2.55	QP	H
200.0000	42.41	-7.82	34.59	43.50	-8.91	QP	V
384.0000	39.15	-2.01	37.14	46.00	-8.86	QP	V
499.0000	32.60	0.72	33.32	46.00	-12.68	QP	V
600.0000	29.69	2.92	32.61	46.00	-13.39	QP	V
675.0000	30.72	4.28	35.00	46.00	-11.00	QP	V
800.0000	32.12	6.68	38.80	46.00	-7.20	QP	V

Note:
1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Result = Correction factor + Reading
3. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	Mode 1	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Description:	Antenna:SAA04-22008A	Date:	12/29/2016

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
275.0000	46.13	-4.18	41.95	46.00	-4.05	QP	H
399.0000	42.28	-1.72	40.56	46.00	-5.44	QP	H
675.0000	32.04	4.28	36.32	46.00	-9.68	QP	H
707.5000	32.59	4.86	37.45	46.00	-8.55	QP	H
750.0000	30.25	6.03	36.28	46.00	-9.72	QP	H
800.0000	37.88	6.68	44.56	46.00	-1.44	QP	H
200.0000	42.82	-7.82	35.00	43.50	-8.50	QP	V
400.0000	38.82	-1.70	37.12	46.00	-8.88	QP	V
514.0000	31.74	0.94	32.68	46.00	-13.32	QP	V
675.0000	28.69	4.28	32.97	46.00	-13.03	QP	V
800.0000	30.91	6.68	37.59	46.00	-8.41	QP	V
925.0000	26.90	9.13	36.03	46.00	-9.97	QP	V

Note:
1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Result = Correction factor + Reading
3. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

Module : QCA9990 (EW-7944MAC)

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Test Mode:	Mode 1	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Description:	Master_Antenna:CO59-510347-A	Date:	12/29/2016

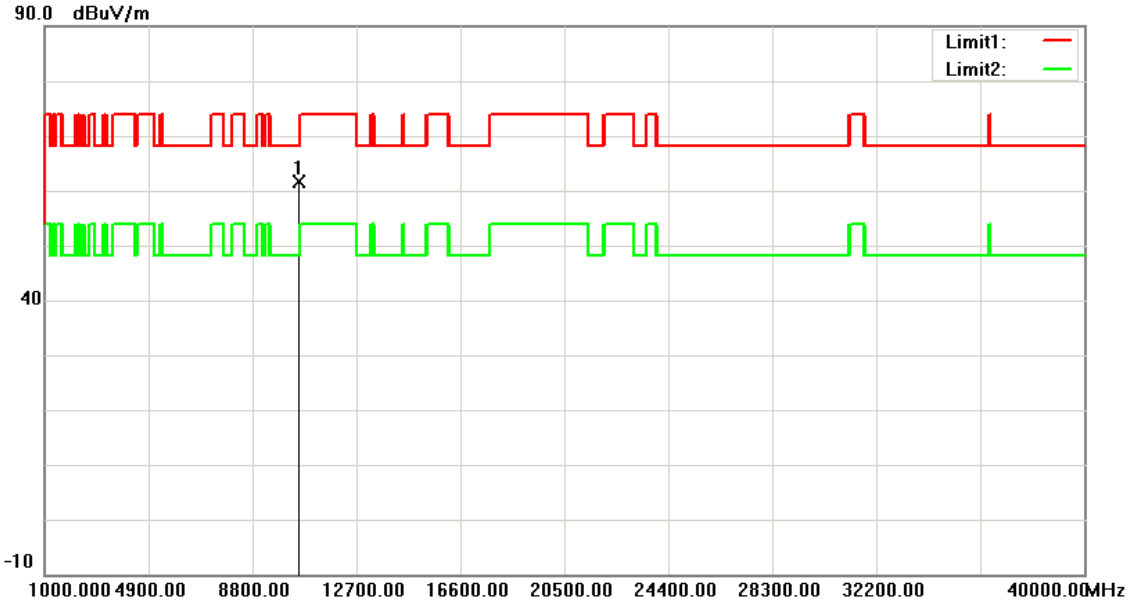
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
275.0000	45.20	-4.18	41.02	46.00	-4.98	QP	H
399.0000	43.65	-1.72	41.93	46.00	-4.07	QP	H
675.0000	31.72	4.28	36.00	46.00	-10.00	QP	H
707.5000	30.44	4.86	35.30	46.00	-10.70	QP	H
800.0000	37.30	6.68	43.98	46.00	-2.02	QP	H
944.0000	24.84	9.52	34.36	46.00	-11.64	QP	H
200.0000	41.77	-7.82	33.95	43.50	-9.55	QP	V
375.0000	37.27	-2.18	35.09	46.00	-10.91	QP	V
499.0000	34.05	0.72	34.77	46.00	-11.23	QP	V
600.0000	30.49	2.92	33.41	46.00	-12.59	QP	V
675.0000	30.75	4.28	35.03	46.00	-10.97	QP	V
800.0000	30.66	6.68	37.34	46.00	-8.66	QP	V

Note:
1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Result = Correction factor + Reading
3. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

Above 1GHz

Module : QCA9984 (EW-7955MAC)

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5260MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



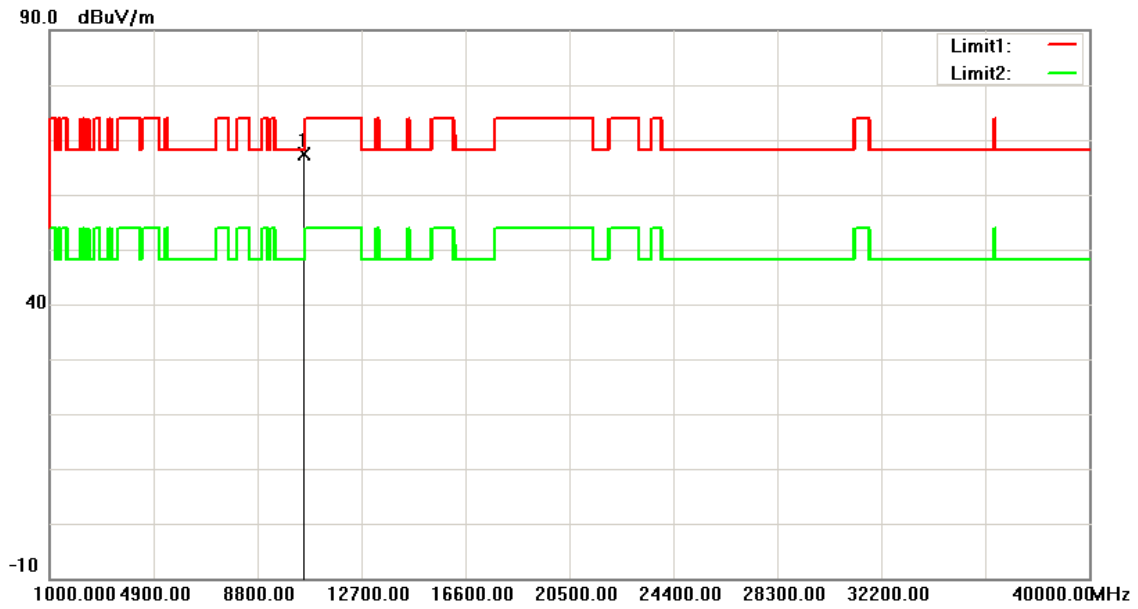
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	56.39	5.33	61.72	68.20	-6.48	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5260MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



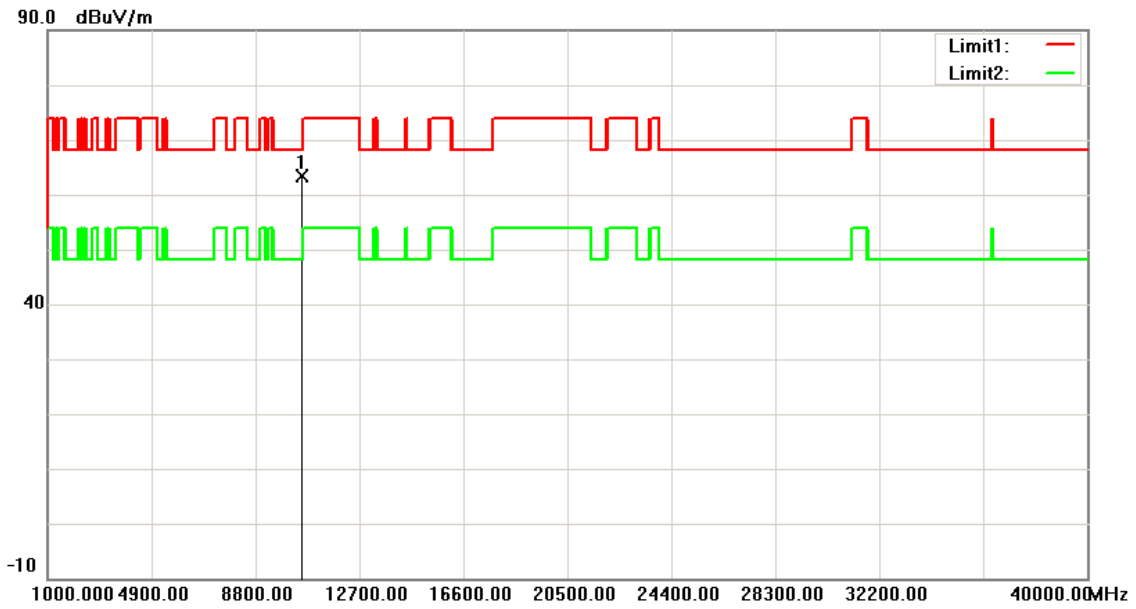
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	62.11	5.33	67.44	68.20	-0.76	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5280MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



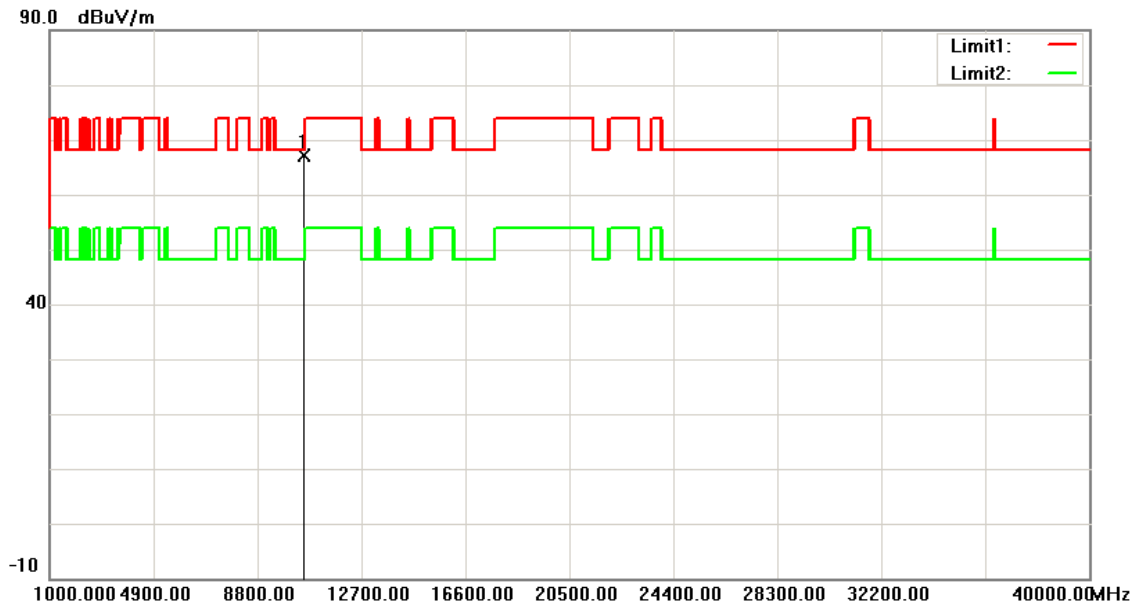
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	58.02	5.37	63.39	68.20	-4.81	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5280MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



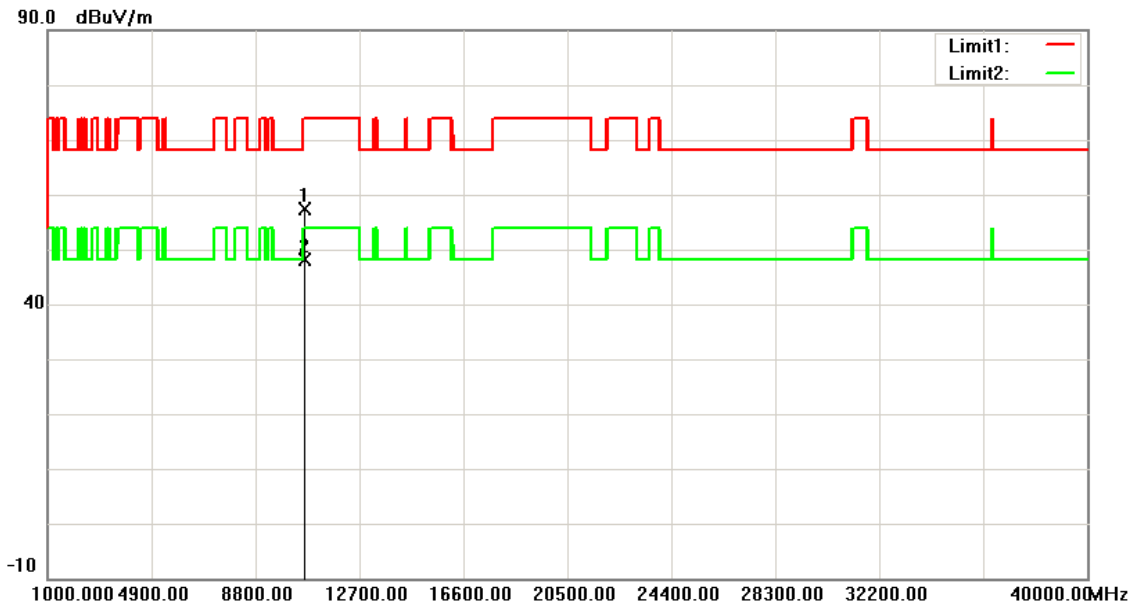
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	61.81	5.37	67.18	68.20	-1.02	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5320MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



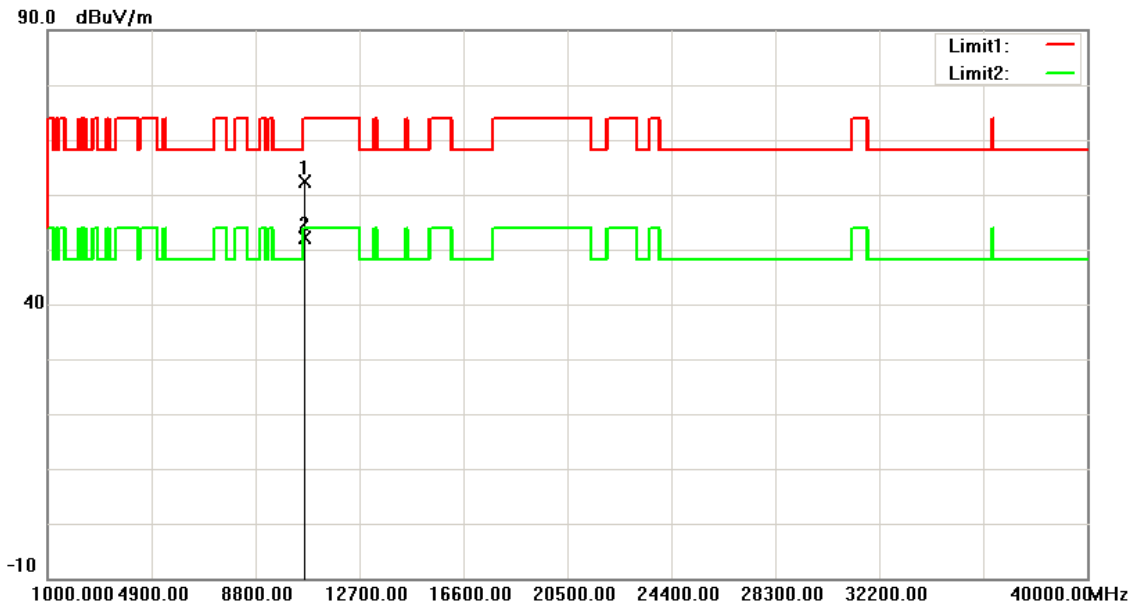
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	51.87	5.45	57.32	74.00	-16.68	peak
2	10640.000	42.66	5.45	48.11	54.00	-5.89	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5320MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



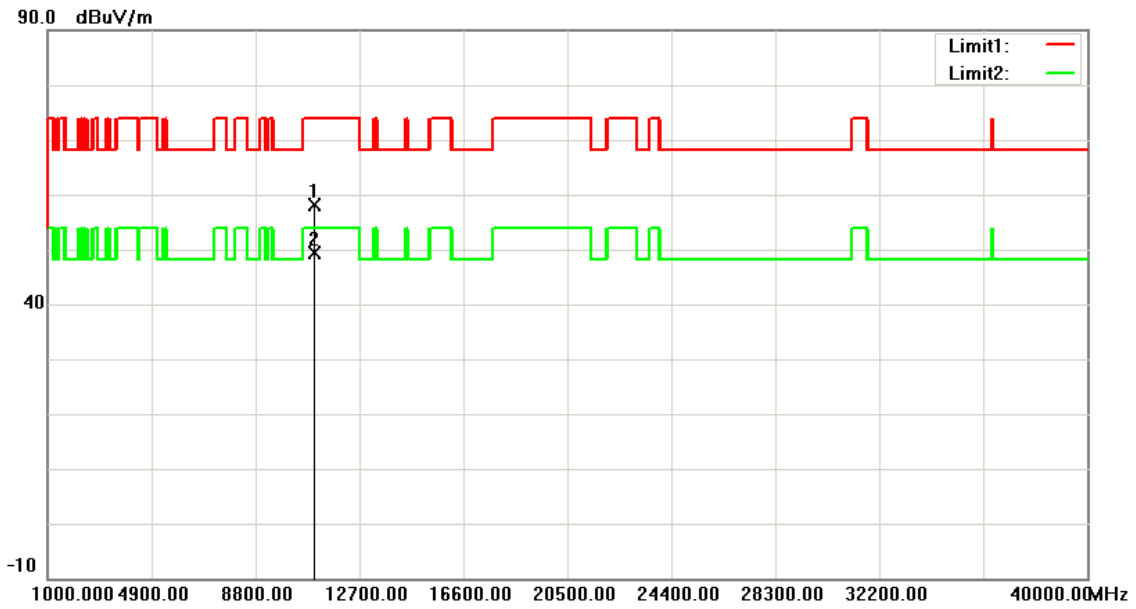
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	57.00	5.45	62.45	74.00	-11.55	peak
2	10640.000	46.80	5.45	52.25	54.00	-1.75	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5500MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



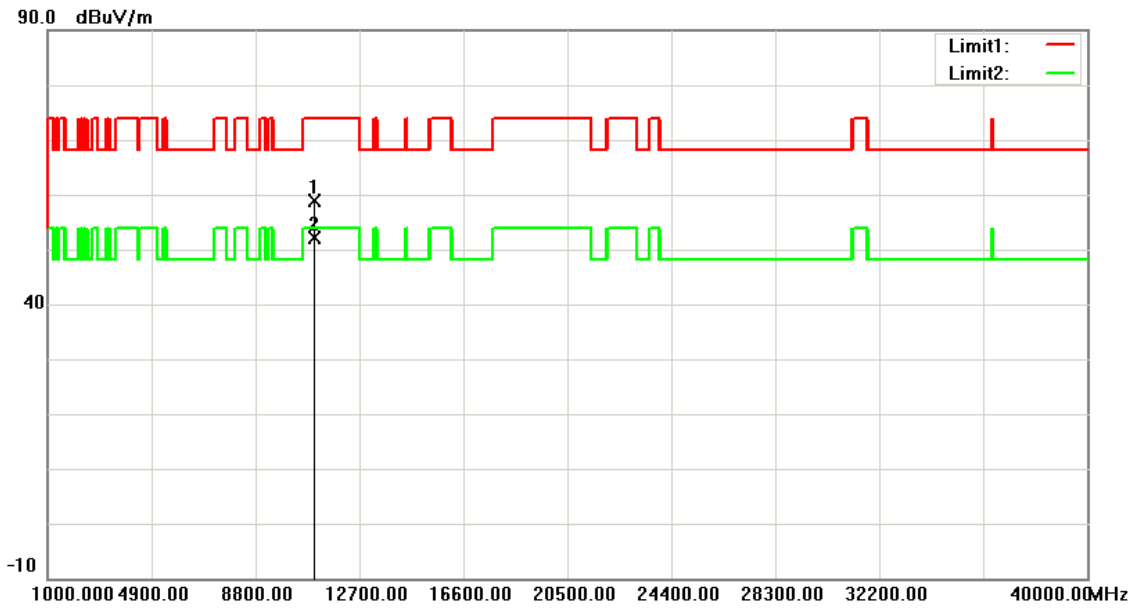
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	52.47	5.78	58.25	74.00	-15.75	peak
2	11000.000	43.53	5.78	49.31	54.00	-4.69	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5500MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



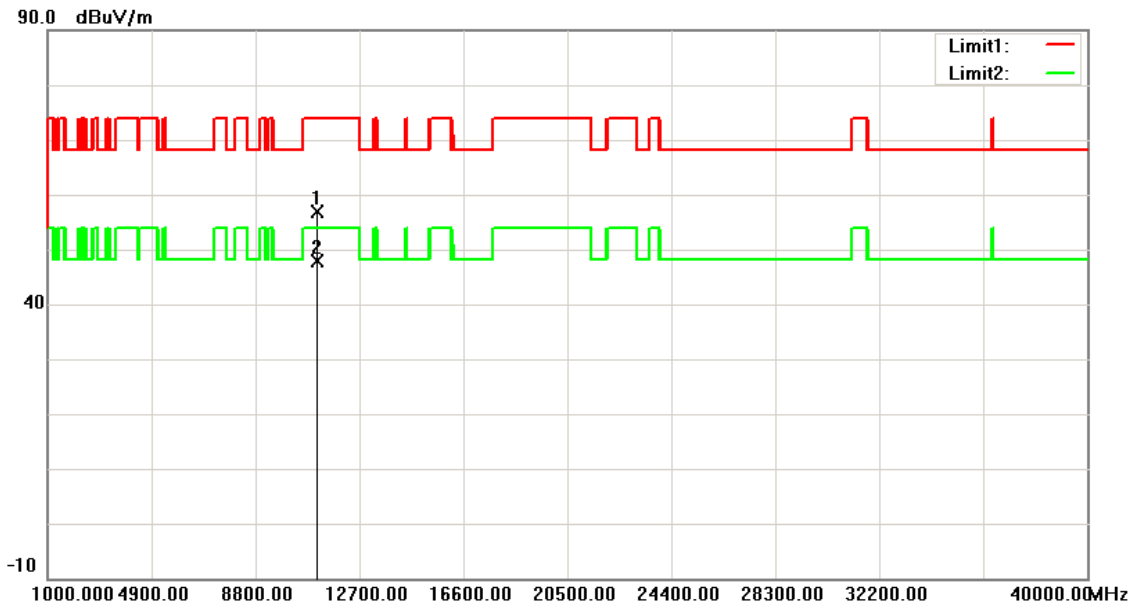
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	53.03	5.78	58.81	74.00	-15.19	peak
2	11000.000	46.45	5.78	52.23	54.00	-1.77	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5560MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



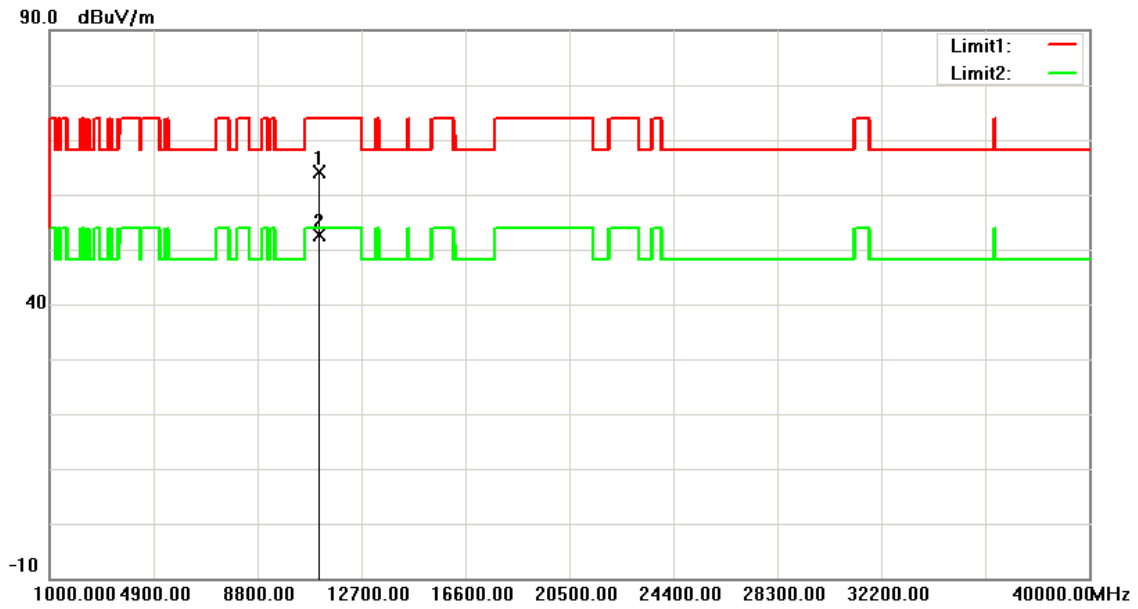
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	50.92	5.87	56.79	74.00	-17.21	peak
2	11120.000	42.07	5.87	47.94	54.00	-6.06	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5560MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



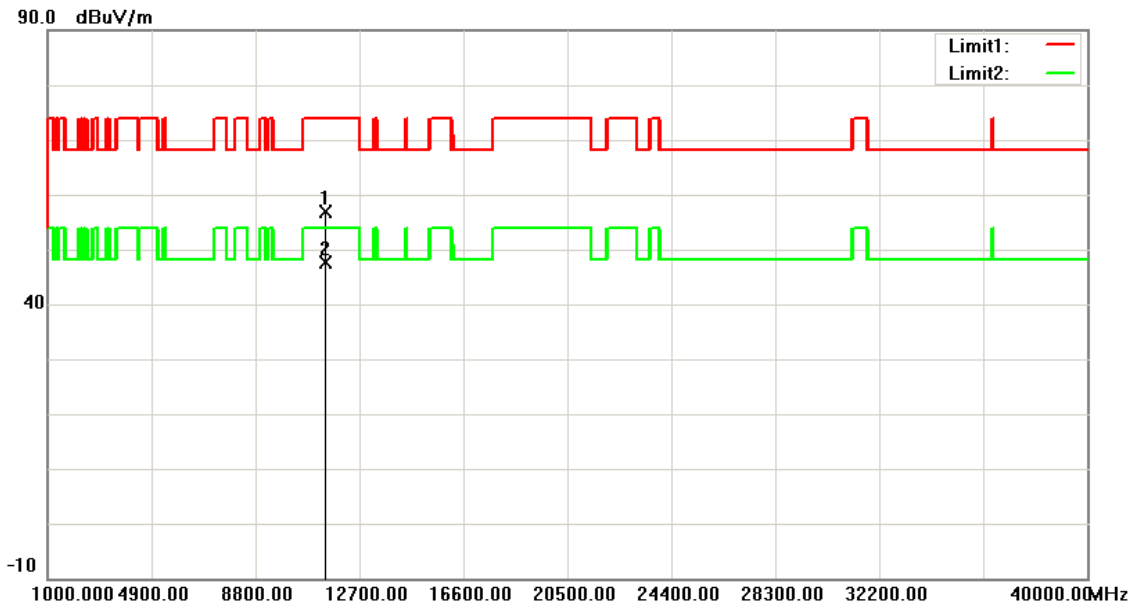
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	58.30	5.87	64.17	74.00	-9.83	peak
2	11120.000	46.85	5.87	52.72	54.00	-1.28	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5700MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



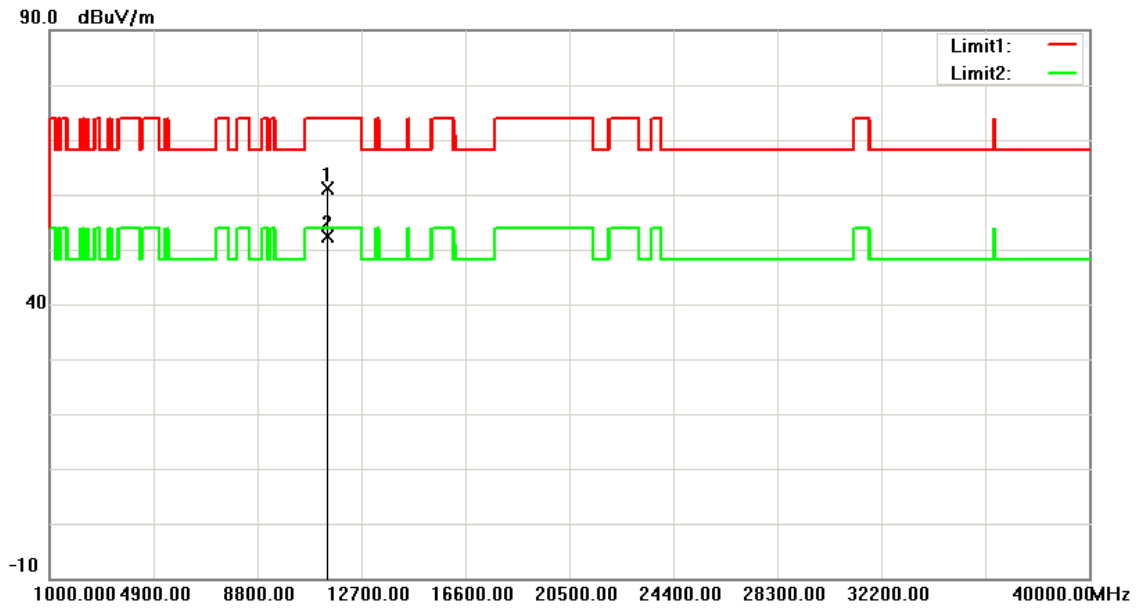
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	50.70	6.07	56.77	74.00	-17.23	peak
2	11400.000	41.45	6.07	47.52	54.00	-6.48	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5700MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



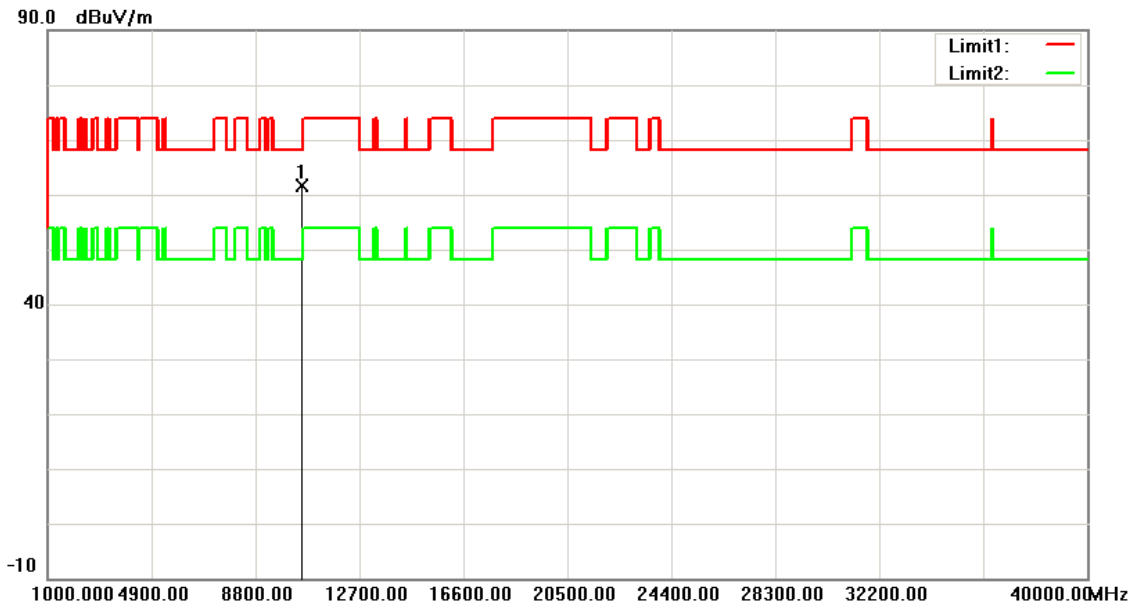
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	55.08	6.07	61.15	74.00	-12.85	peak
2	11400.000	46.36	6.07	52.43	54.00	-1.57	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5260MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



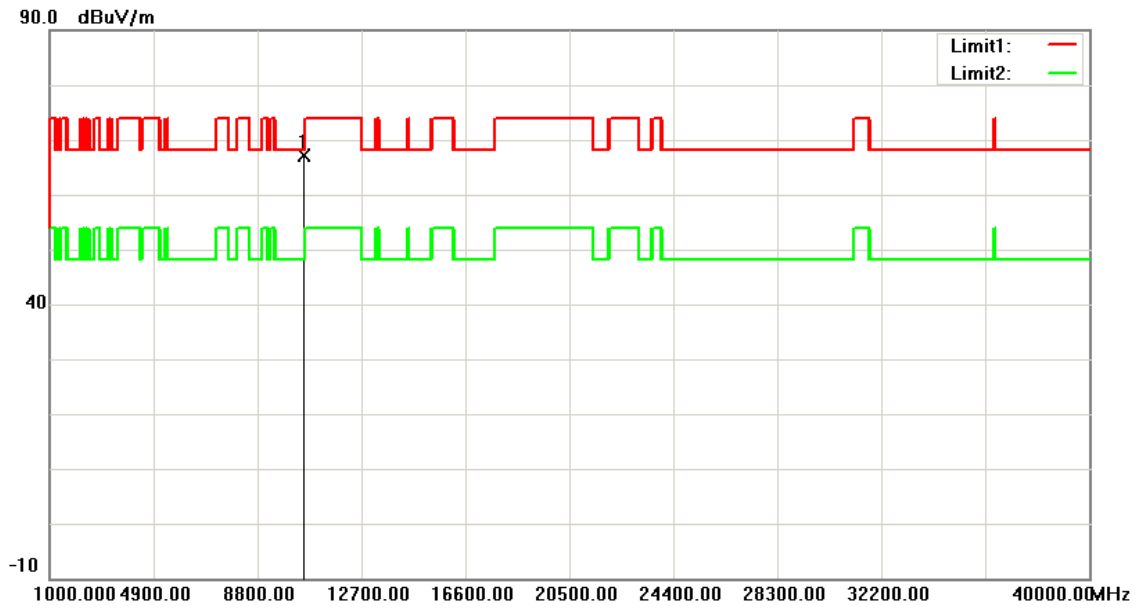
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	56.37	5.33	61.70	68.20	-6.50	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5260MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



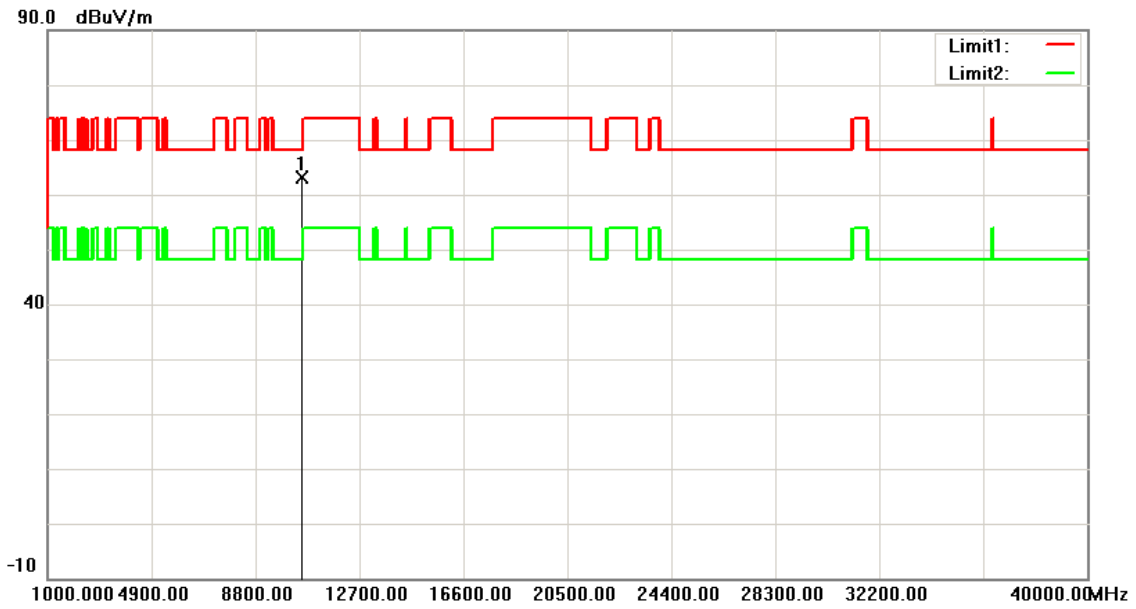
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	61.76	5.33	67.09	68.20	-1.11	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5280MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



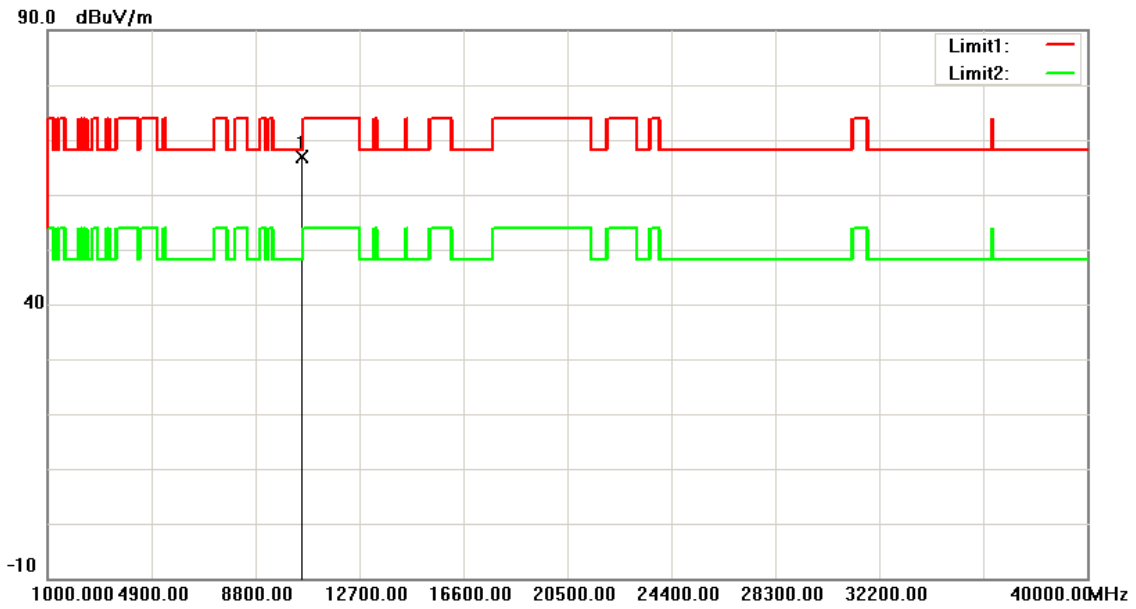
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	57.66	5.37	63.03	68.20	-5.17	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5280MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



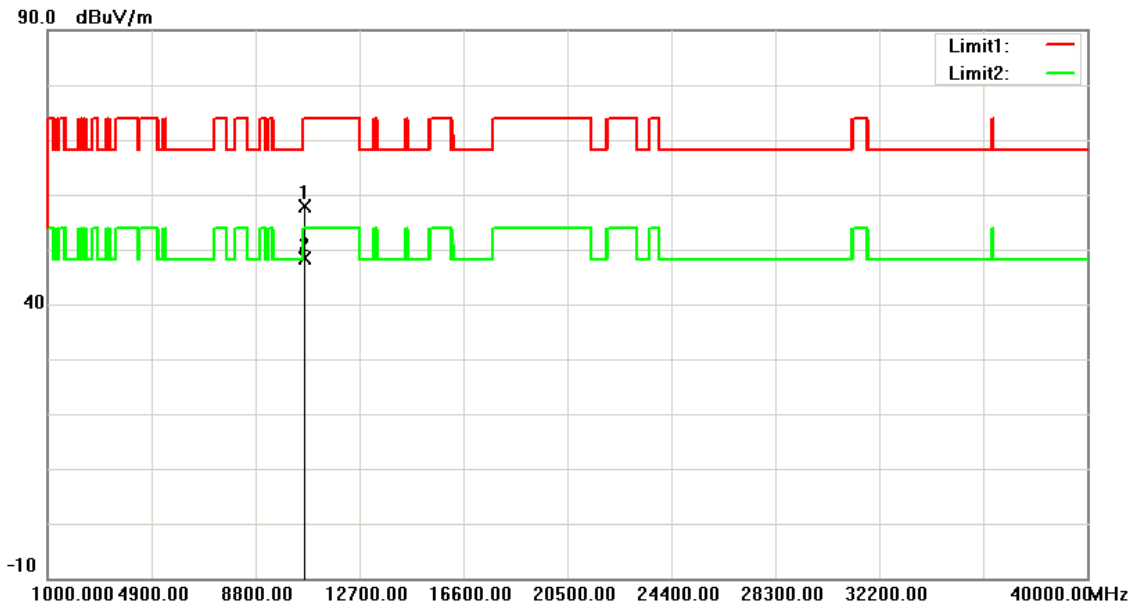
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	61.55	5.37	66.92	68.20	-1.28	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5320MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



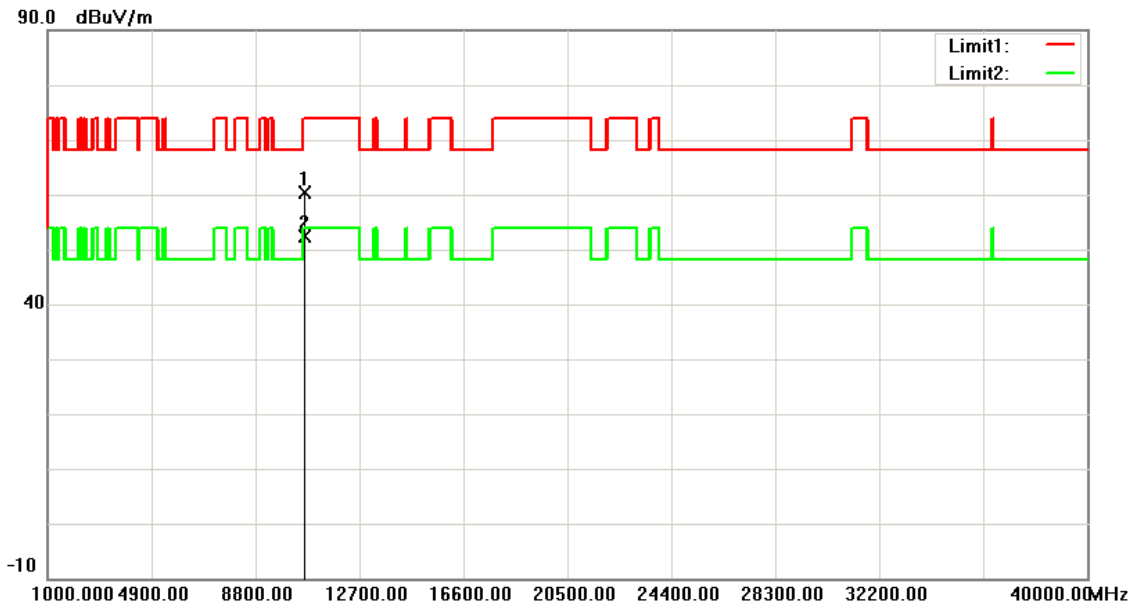
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	52.49	5.45	57.94	74.00	-16.06	peak
2	10640.000	42.94	5.45	48.39	54.00	-5.61	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5320MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



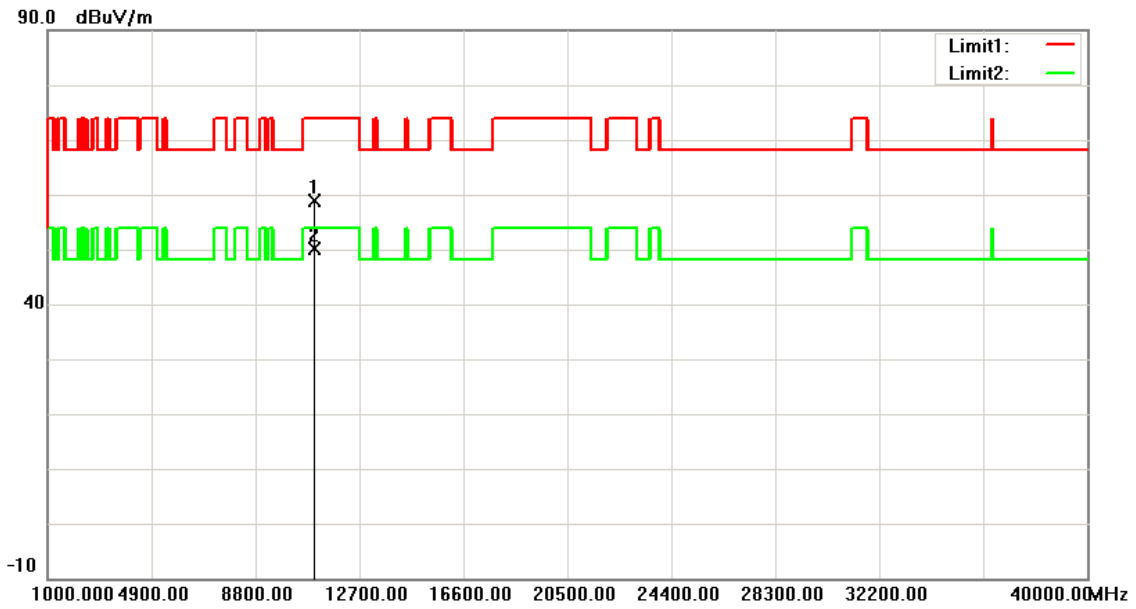
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	54.83	5.45	60.28	74.00	-13.72	peak
2	10640.000	46.92	5.45	52.37	54.00	-1.63	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5500MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



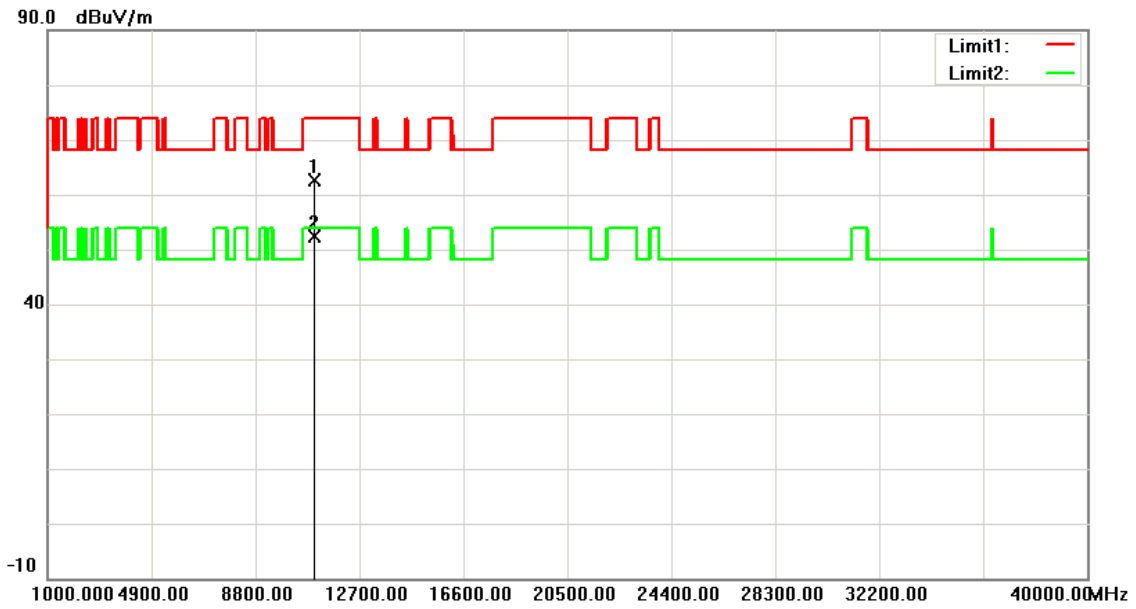
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	53.08	5.78	58.86	74.00	-15.14	peak
2	11000.000	44.23	5.78	50.01	54.00	-3.99	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5500MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



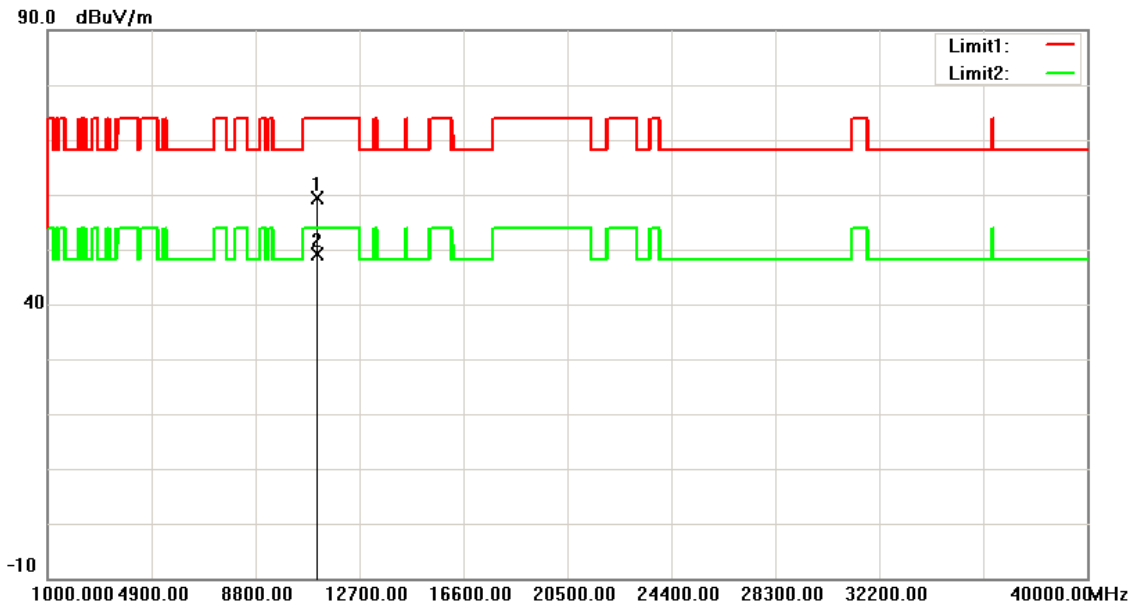
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	56.93	5.78	62.71	74.00	-11.29	peak
2	11000.000	46.57	5.78	52.35	54.00	-1.65	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5560MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



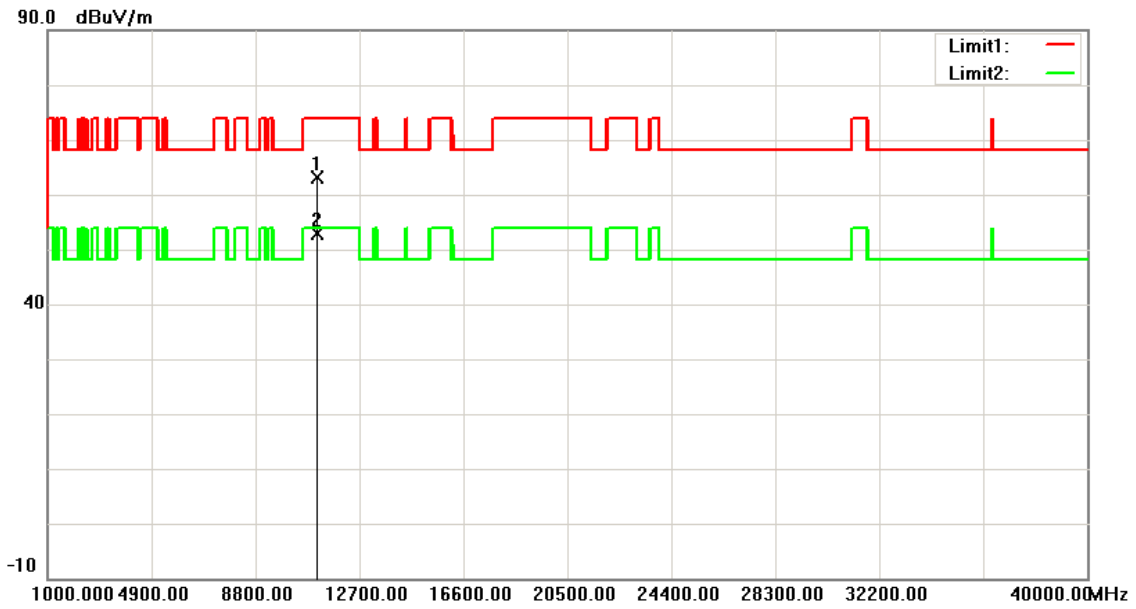
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	53.55	5.87	59.42	74.00	-14.58	peak
2	11120.000	43.28	5.87	49.15	54.00	-4.85	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5560MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



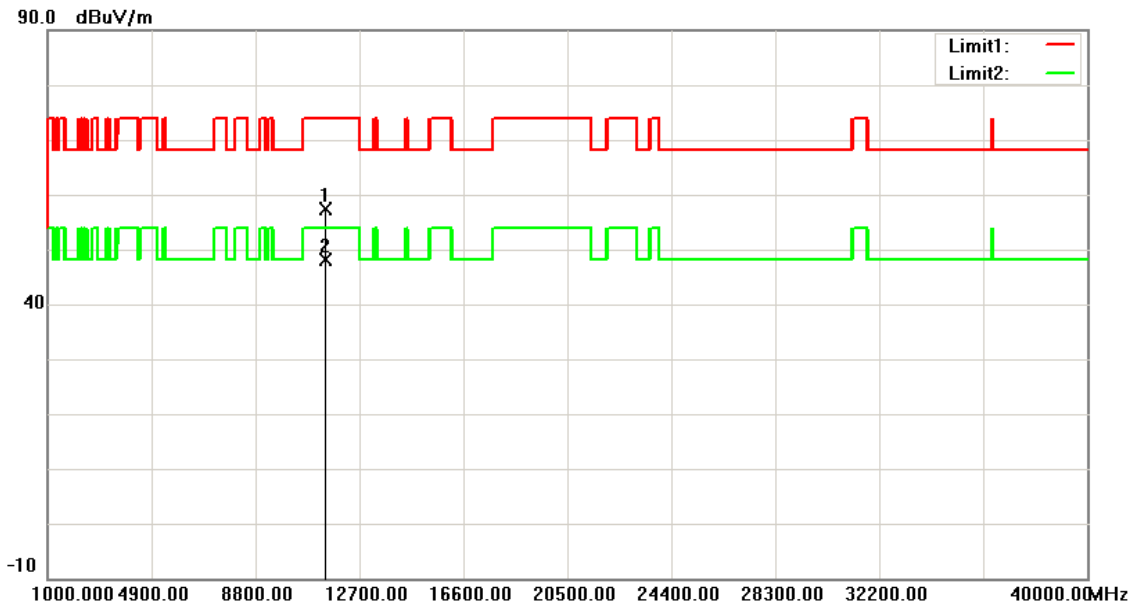
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	57.22	5.87	63.09	74.00	-10.91	peak
2	11120.000	47.04	5.87	52.91	54.00	-1.09	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5700MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



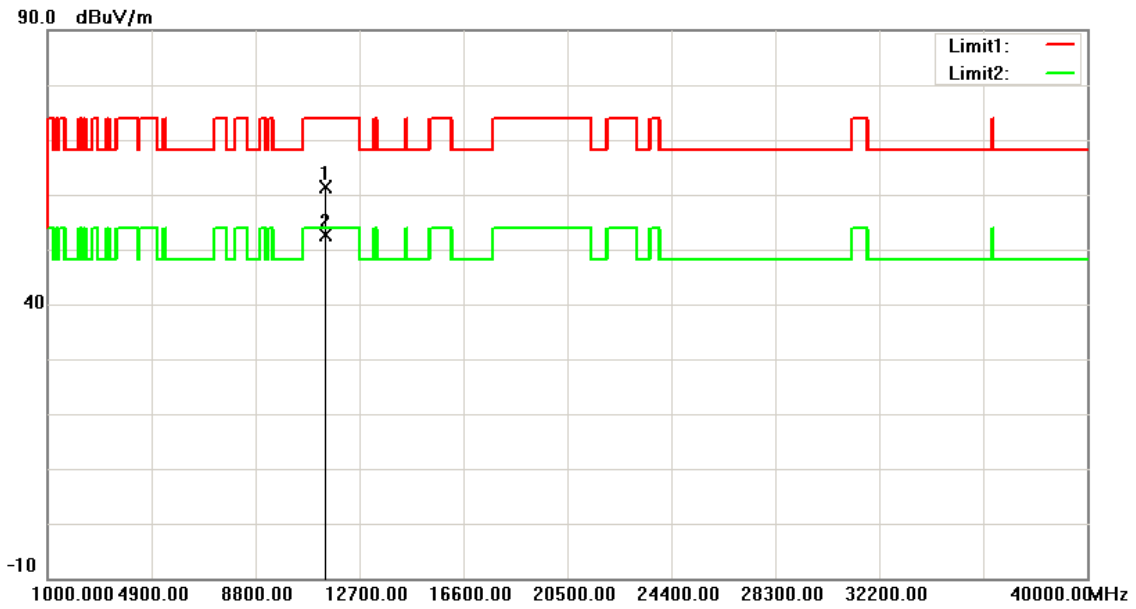
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	51.39	6.07	57.46	74.00	-16.54	peak
2	11400.000	42.05	6.07	48.12	54.00	-5.88	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5700MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



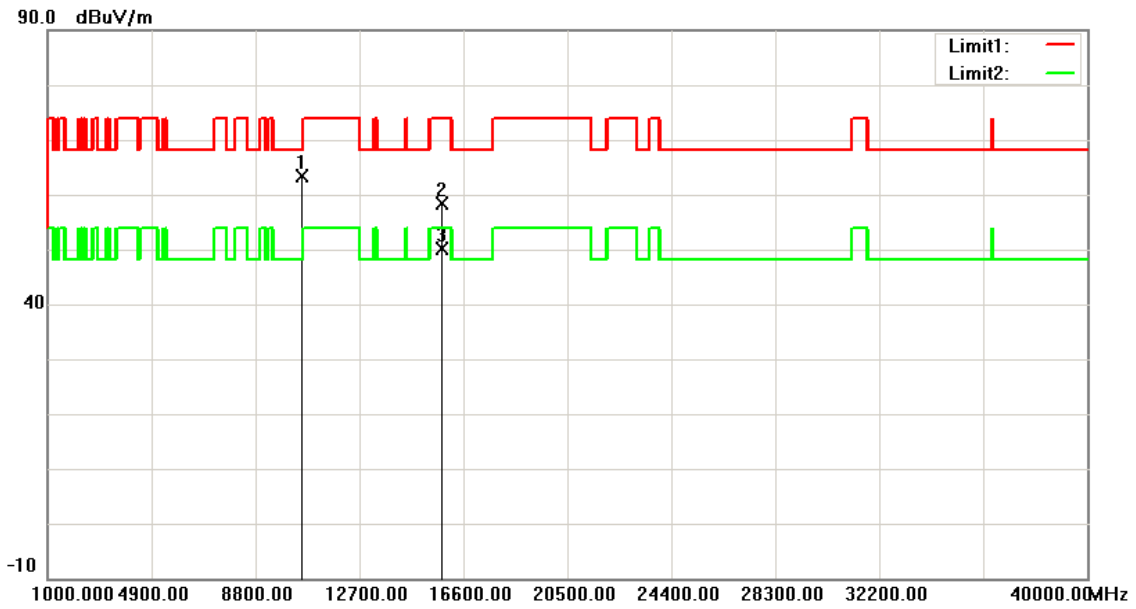
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	55.27	6.07	61.34	74.00	-12.66	peak
2	11400.000	46.65	6.07	52.72	54.00	-1.28	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5270MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



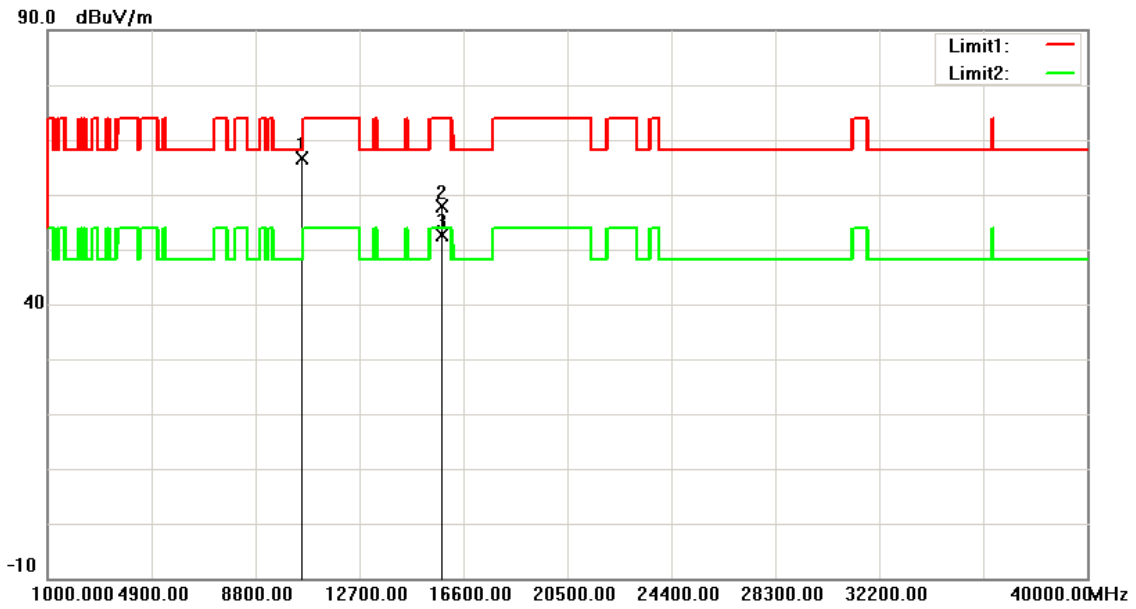
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	58.11	5.35	63.46	68.20	-4.74	peak
2	15810.000	51.65	6.84	58.49	74.00	-15.51	peak
3	15810.000	43.38	6.84	50.22	54.00	-3.78	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5270MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



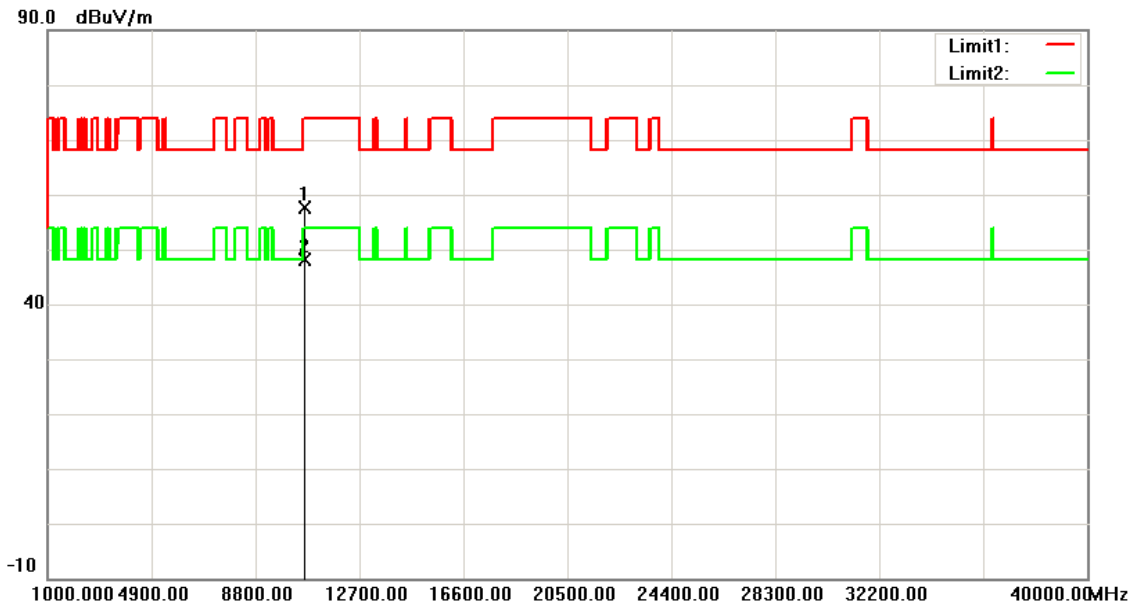
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	61.21	5.35	66.56	68.20	-1.64	peak
2	15810.000	51.10	6.84	57.94	74.00	-16.06	peak
3	15810.000	45.78	6.84	52.62	54.00	-1.38	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5310MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



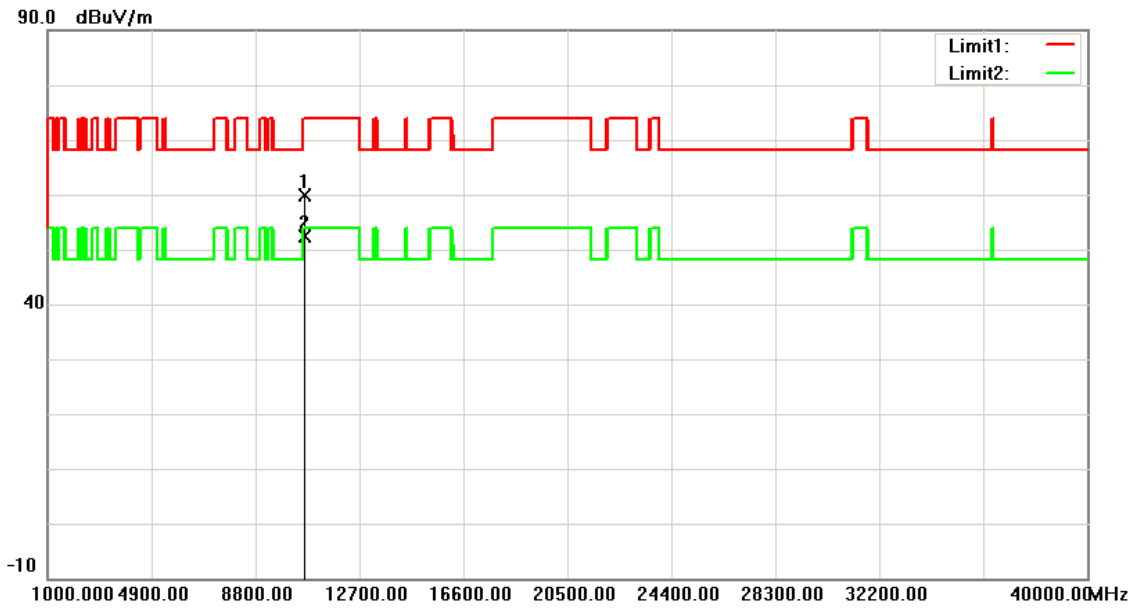
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	52.13	5.42	57.55	74.00	-16.45	peak
2	10620.000	42.81	5.42	48.23	54.00	-5.77	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5310MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



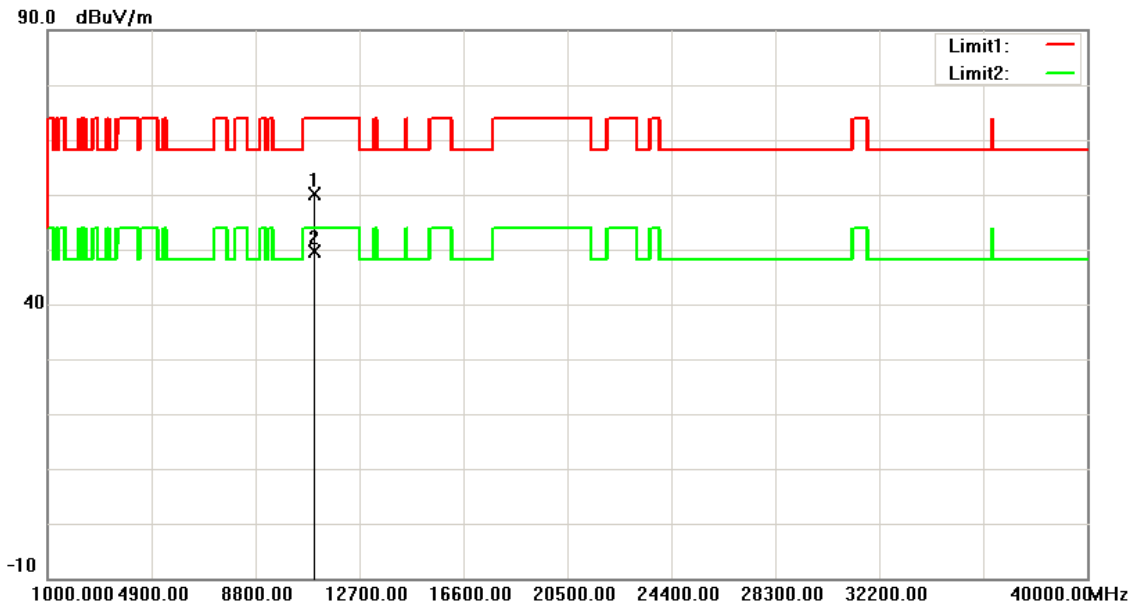
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	54.39	5.42	59.81	74.00	-14.19	peak
2	10620.000	46.84	5.42	52.26	54.00	-1.74	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5510MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



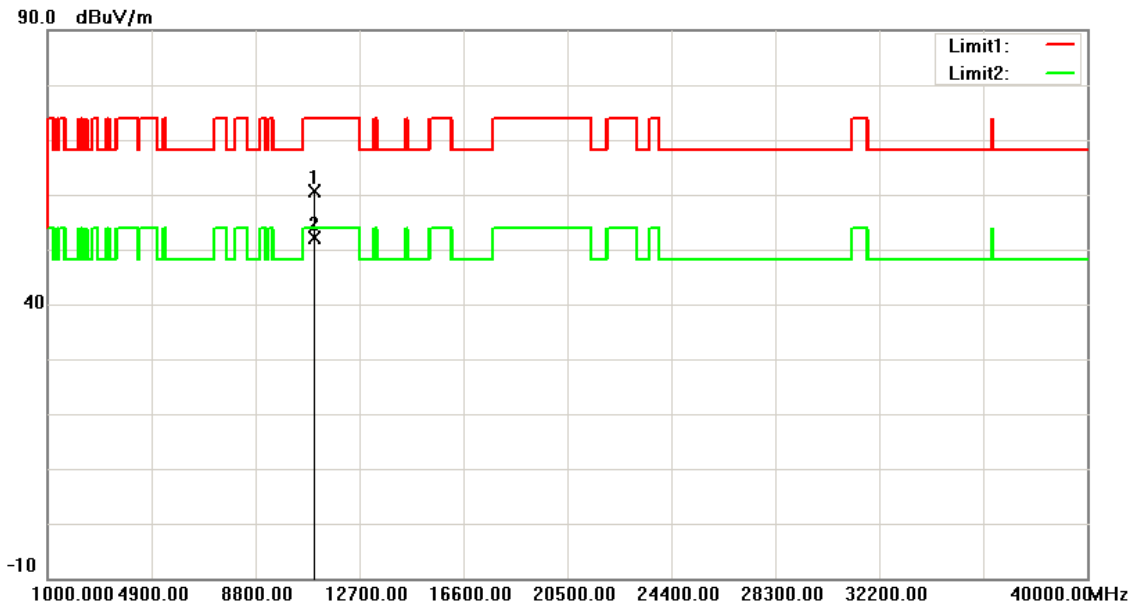
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	54.37	5.80	60.17	74.00	-13.83	peak
2	11020.000	43.74	5.80	49.54	54.00	-4.46	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5510MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



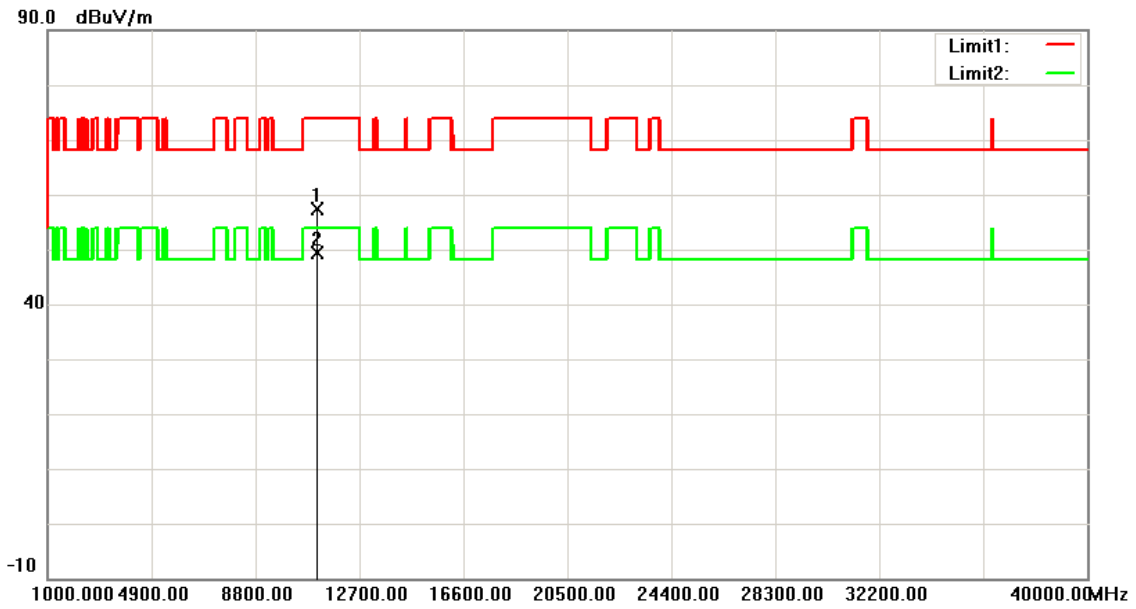
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	54.87	5.80	60.67	74.00	-13.33	peak
2	11020.000	46.43	5.80	52.23	54.00	-1.77	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5550MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



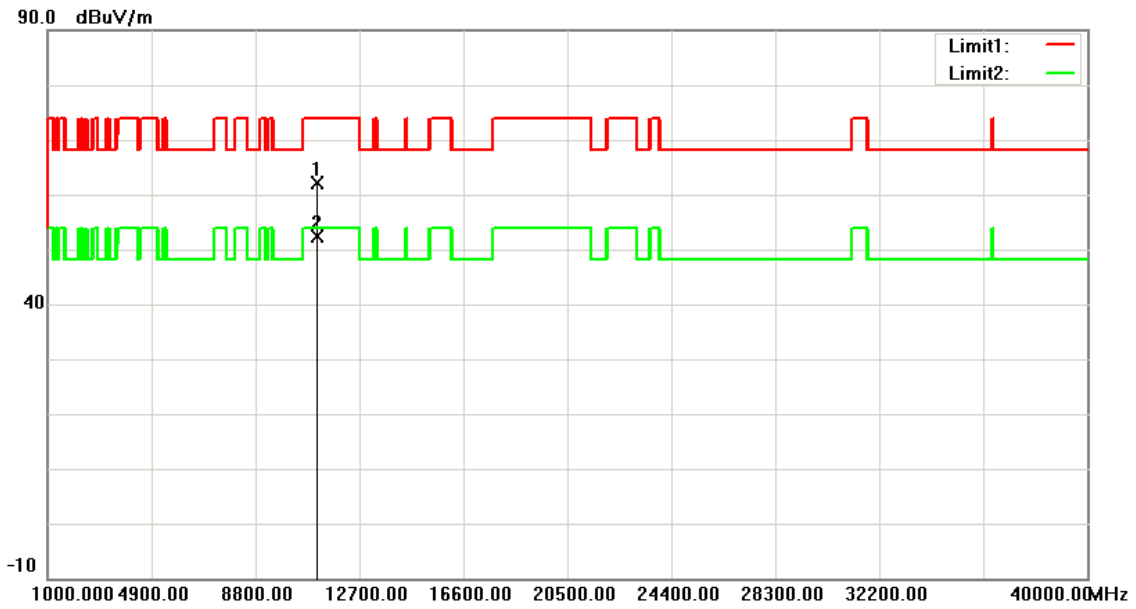
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11100.000	51.53	5.85	57.38	74.00	-16.62	peak
2	11100.000	43.47	5.85	49.32	54.00	-4.68	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5550MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



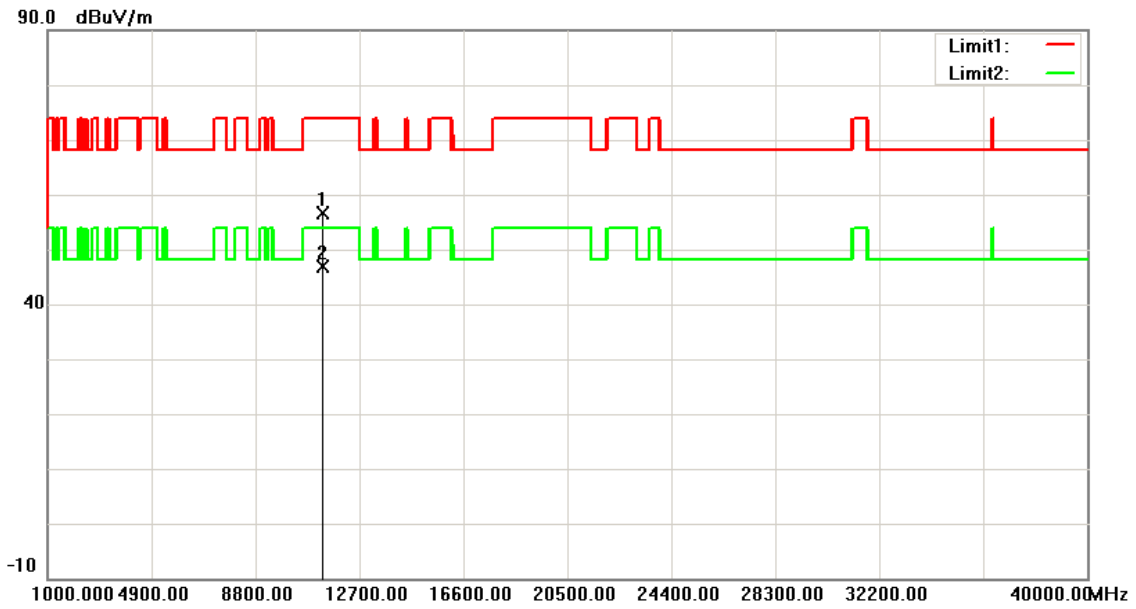
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11100.000	56.30	5.85	62.15	74.00	-11.85	peak
2	11100.000	46.43	5.85	52.28	54.00	-1.72	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5670MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



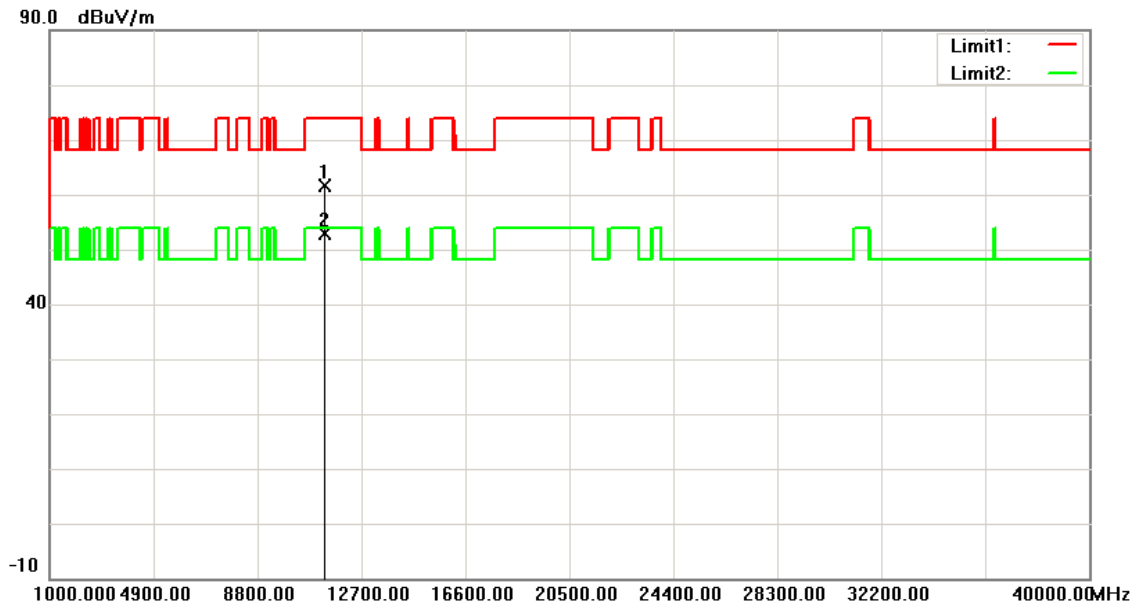
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	50.59	6.03	56.62	74.00	-17.38	peak
2	11340.000	40.88	6.03	46.91	54.00	-7.09	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5670MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



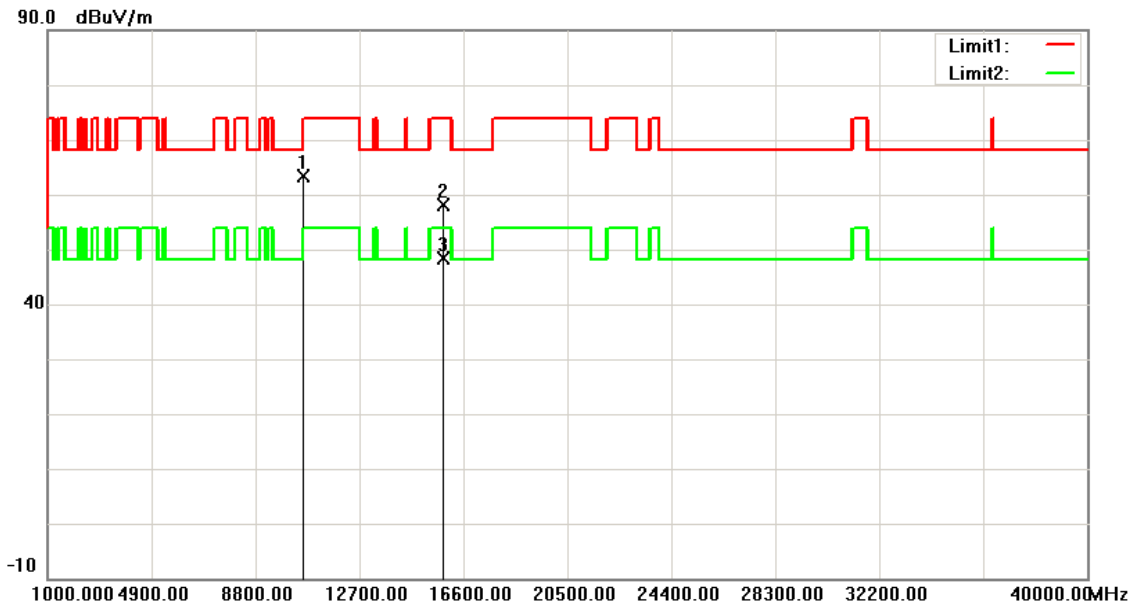
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	55.71	6.03	61.74	74.00	-12.26	peak
2	11340.000	46.91	6.03	52.94	54.00	-1.06	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5290MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 5	Date:	12/01/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



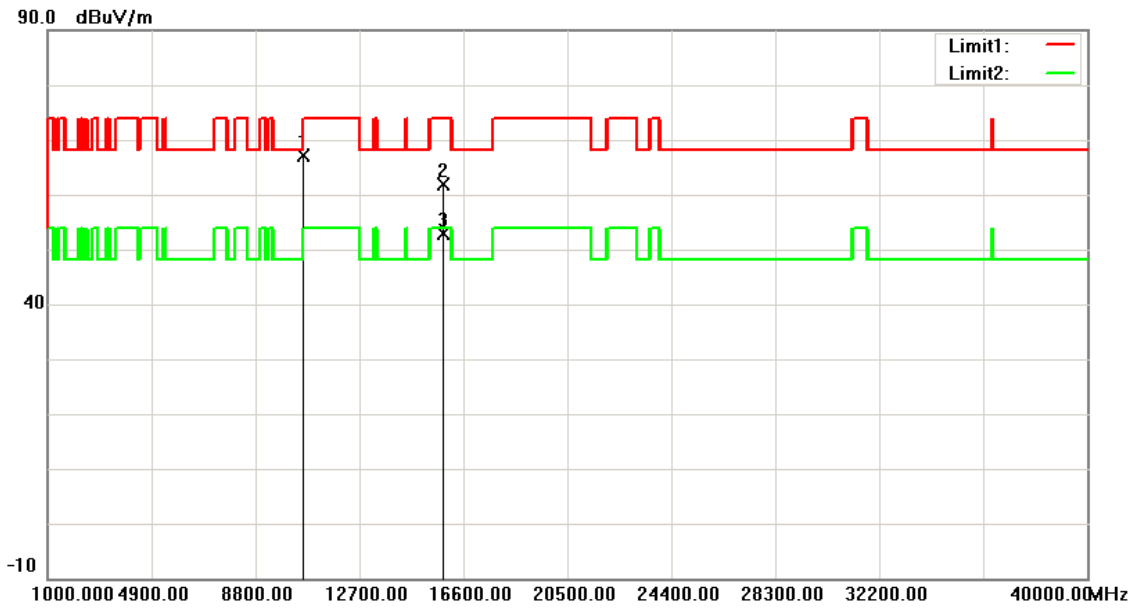
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	58.02	5.39	63.41	68.20	-4.79	peak
2	15870.000	51.49	6.75	58.24	74.00	-15.76	peak
3	15870.000	41.57	6.75	48.32	54.00	-5.68	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5290MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 5	Date:	12/01/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



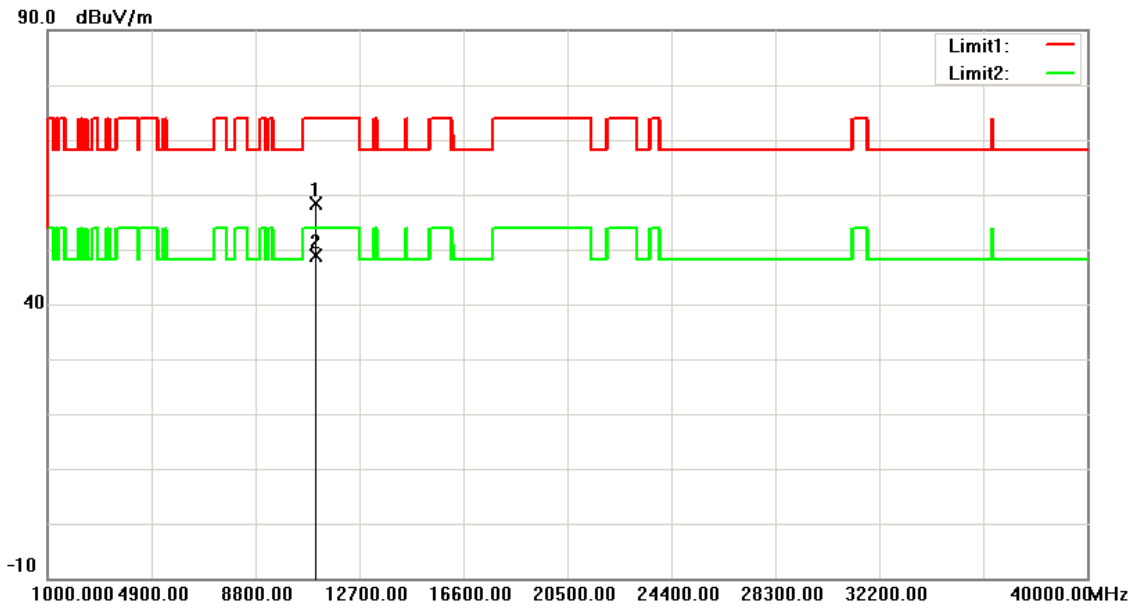
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	61.64	5.39	67.03	68.20	-1.17	peak
2	15870.000	55.07	6.75	61.82	74.00	-12.18	peak
3	15870.000	46.16	6.75	52.91	54.00	-1.09	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5530MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 5	Date:	12/02/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:M6060060P23602NB		



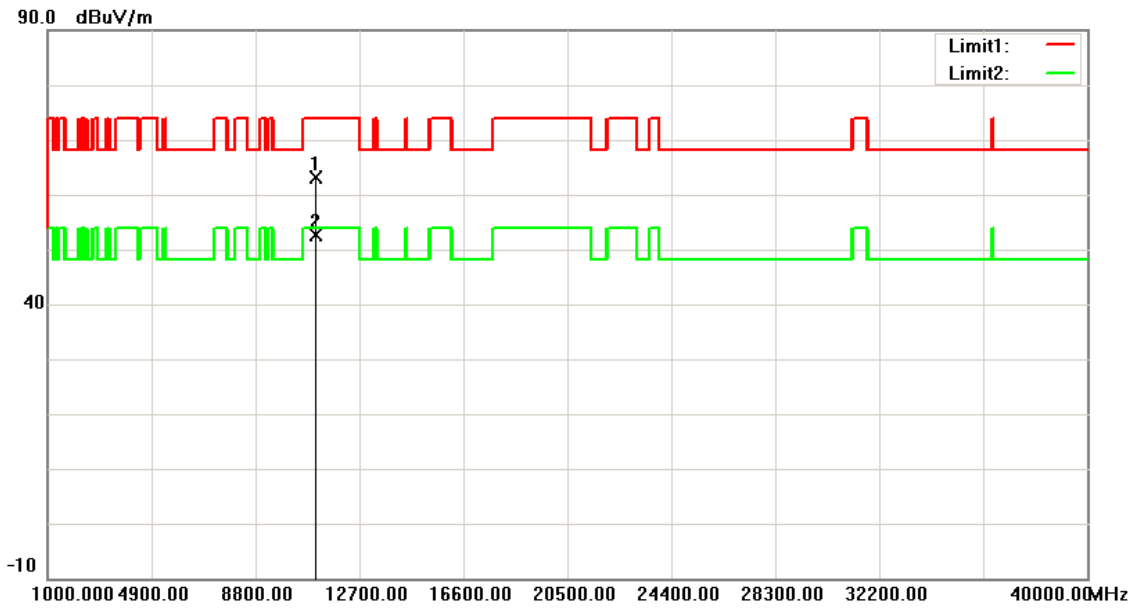
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	52.47	5.82	58.29	74.00	-15.71	peak
2	11060.000	42.97	5.82	48.79	54.00	-5.21	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5530MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 5	Date:	12/02/2016
Ant.Polar.:	Vertical		
Description:	Antenna:M6060060P23602NB		



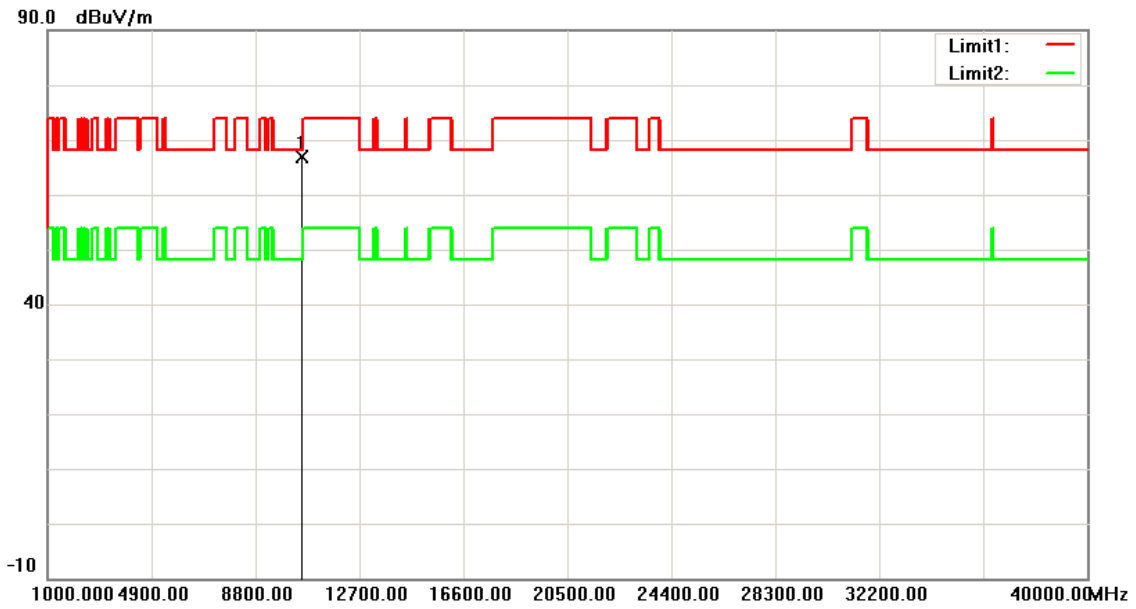
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	57.23	5.82	63.05	74.00	-10.95	peak
2	11060.000	46.79	5.82	52.61	54.00	-1.39	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5260MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/04/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



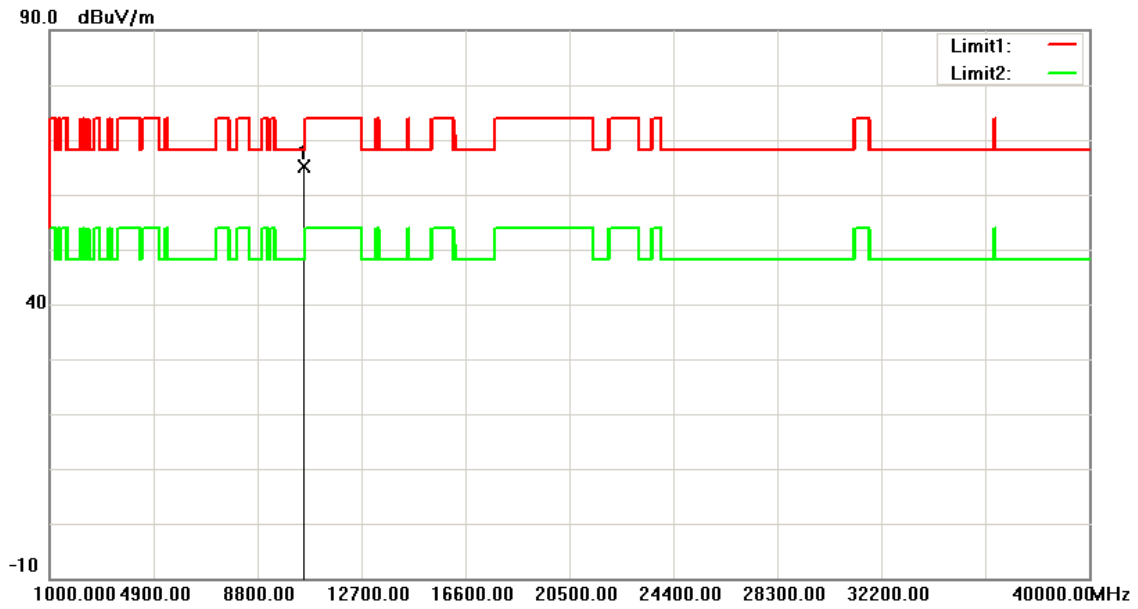
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	61.56	5.33	66.89	68.20	-1.31	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5260MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/04/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



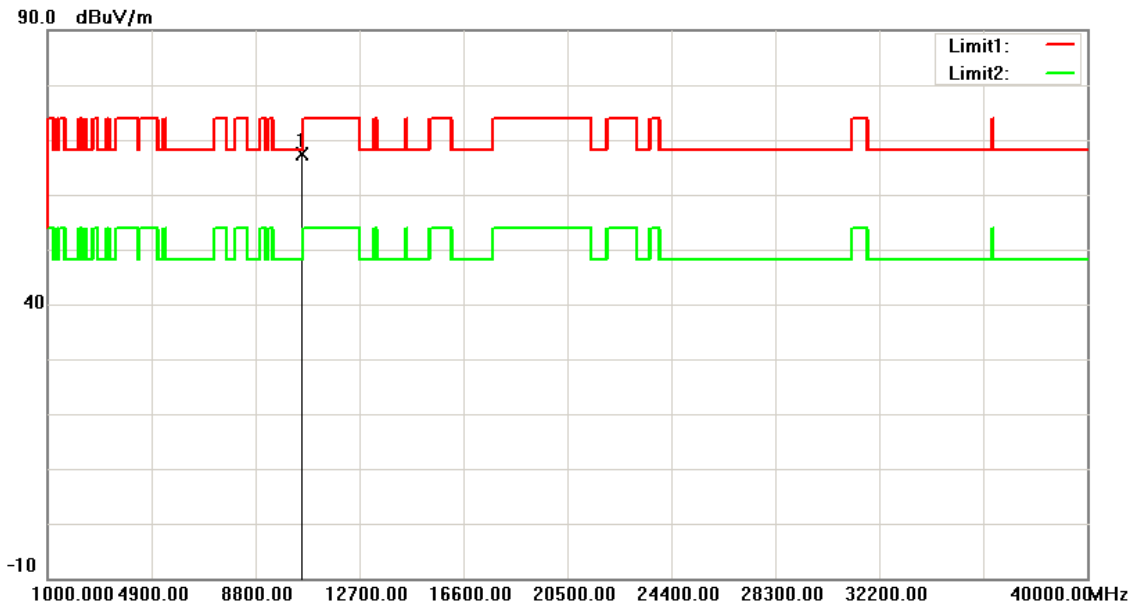
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	59.89	5.33	65.22	68.20	-2.98	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5280MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/04/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



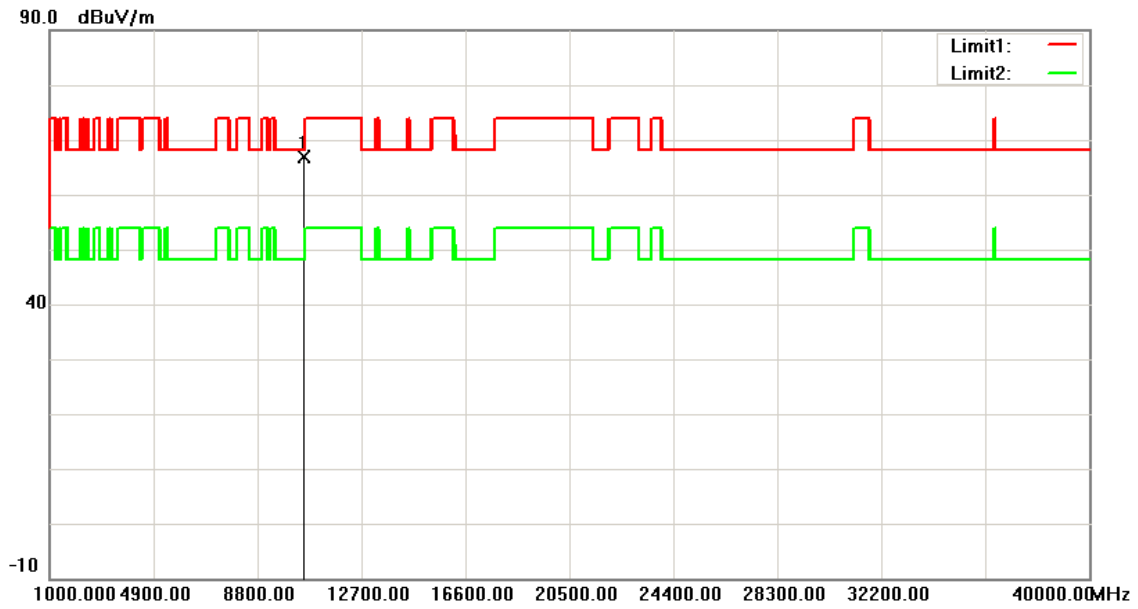
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	62.13	5.37	67.50	68.20	-0.70	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5280MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/04/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



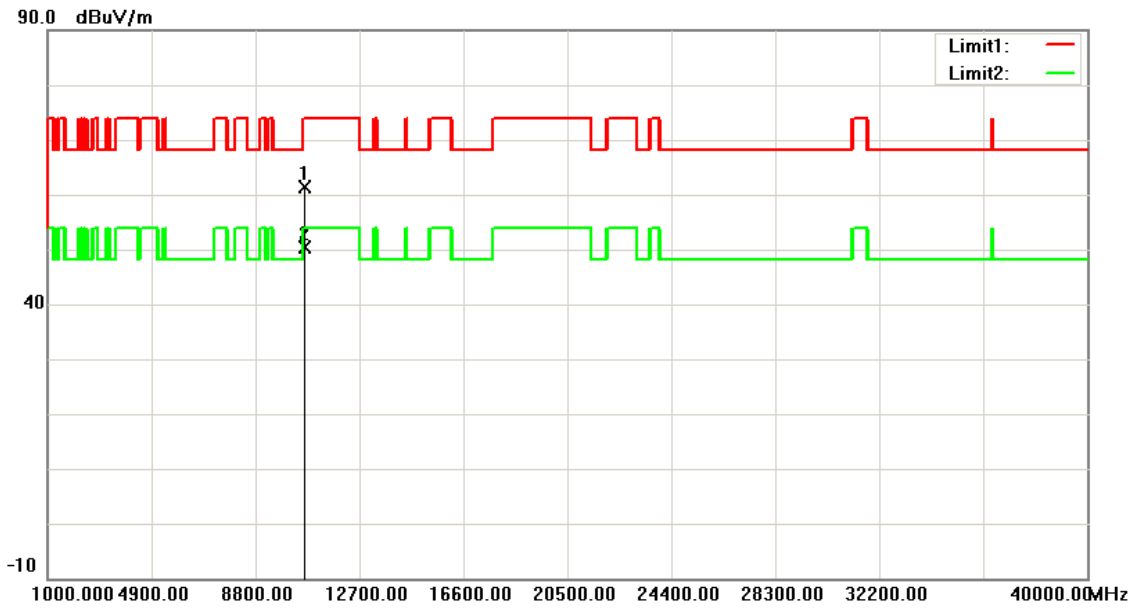
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10554.000	61.47	5.35	66.82	68.20	-1.38	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5320MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/04/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



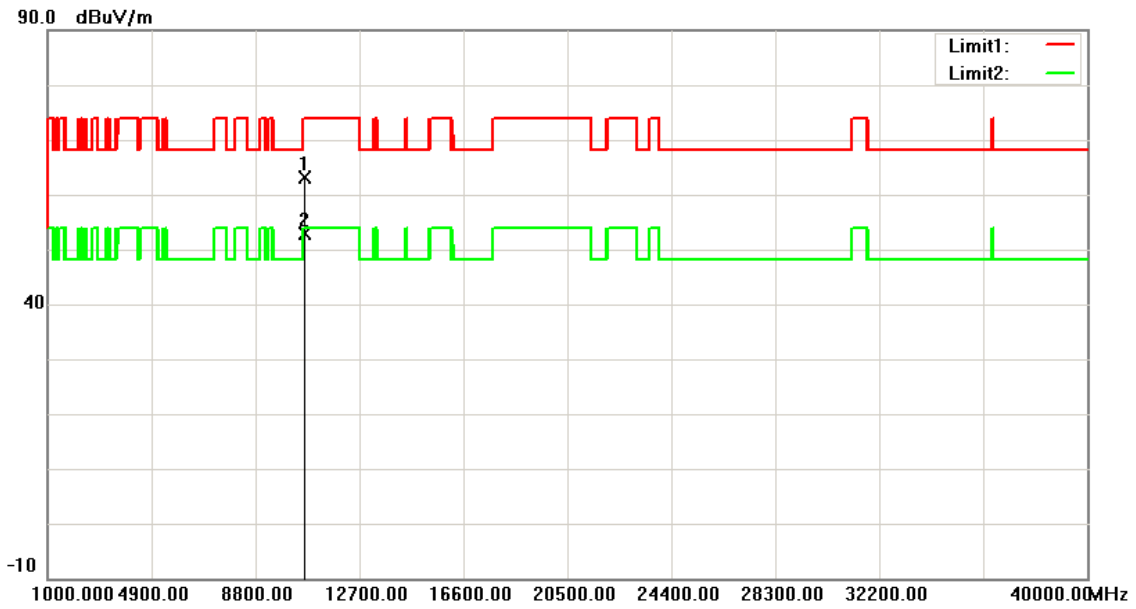
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	55.83	5.45	61.28	74.00	-12.72	peak
2	10640.000	44.98	5.45	50.43	54.00	-3.57	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5320MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/04/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



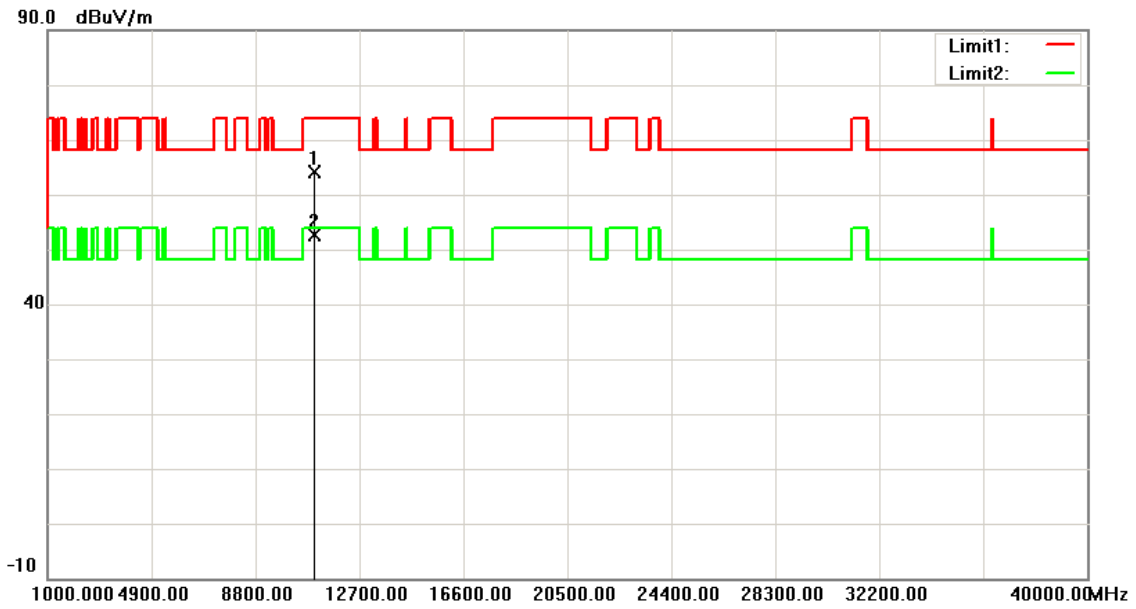
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	57.58	5.45	63.03	74.00	-10.97	peak
2	10640.000	47.53	5.45	52.98	54.00	-1.02	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5500MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/06/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



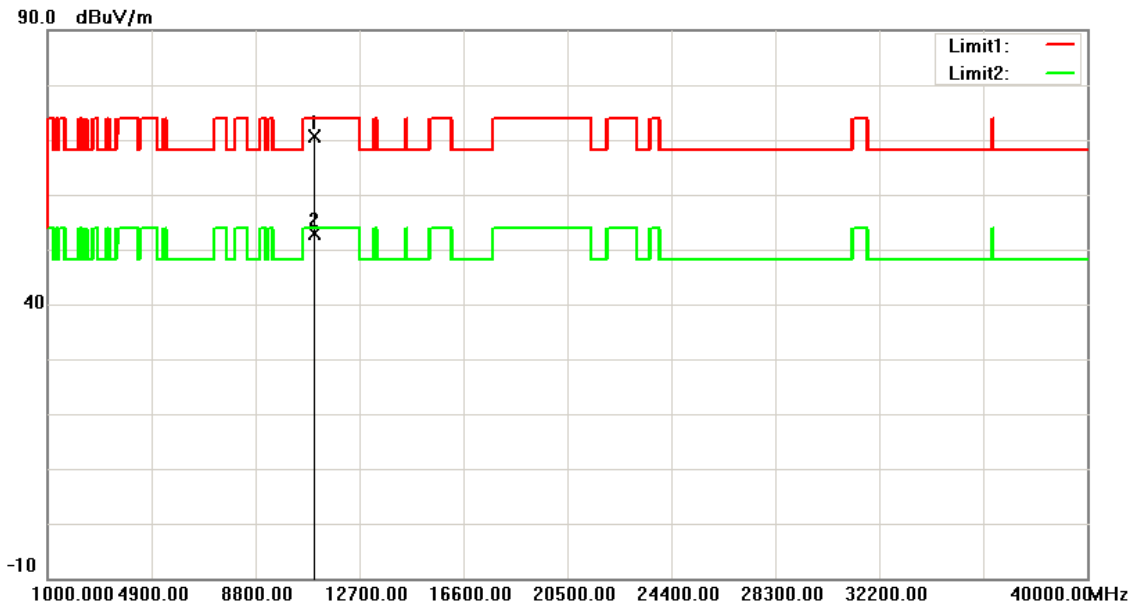
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	58.37	5.78	64.15	74.00	-9.85	peak
2	11000.000	46.77	5.78	52.55	54.00	-1.45	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5500MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/06/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



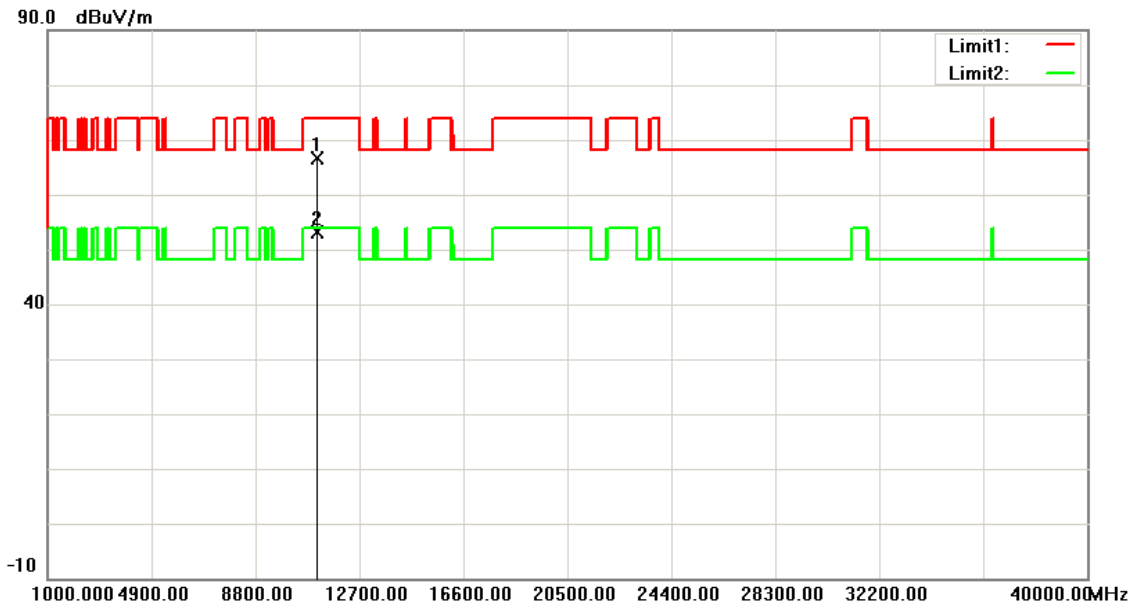
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	64.75	5.78	70.53	74.00	-3.47	peak
2	11000.000	47.16	5.78	52.94	54.00	-1.06	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5560MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/06/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



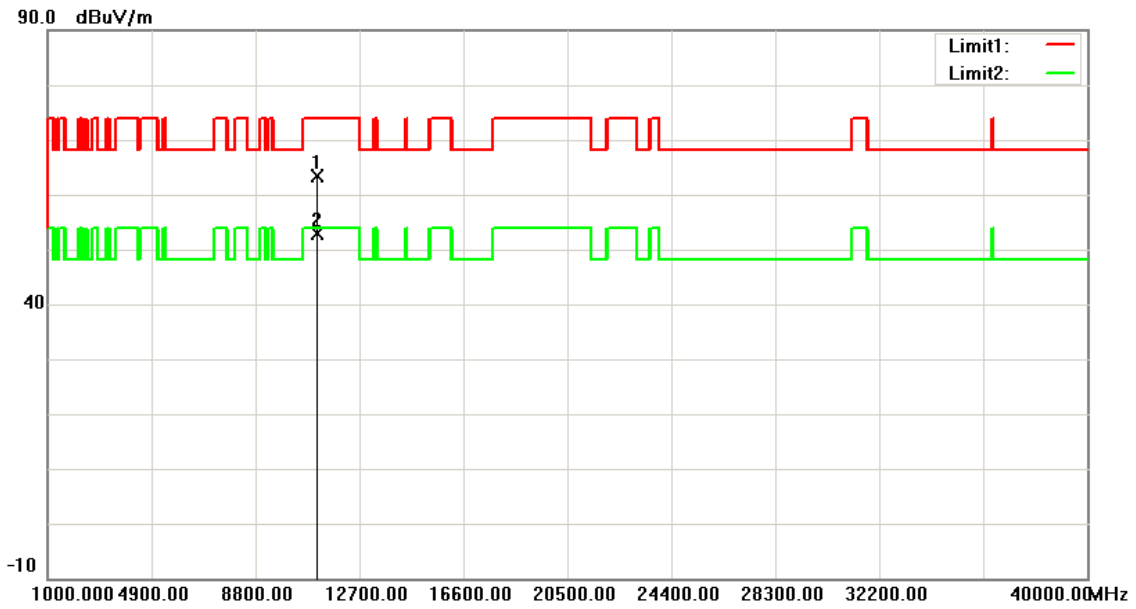
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	60.68	5.87	66.55	74.00	-7.45	peak
2	11120.000	47.18	5.87	53.05	54.00	-0.95	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5560MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/06/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



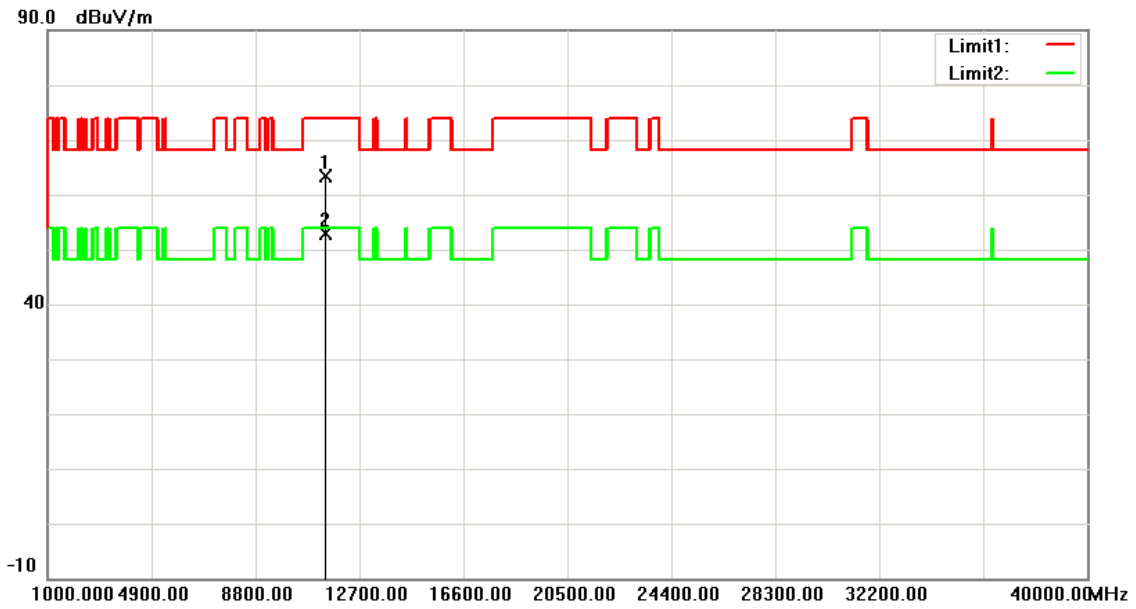
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	57.52	5.87	63.39	74.00	-10.61	peak
2	11120.000	47.03	5.87	52.90	54.00	-1.10	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5700MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/06/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



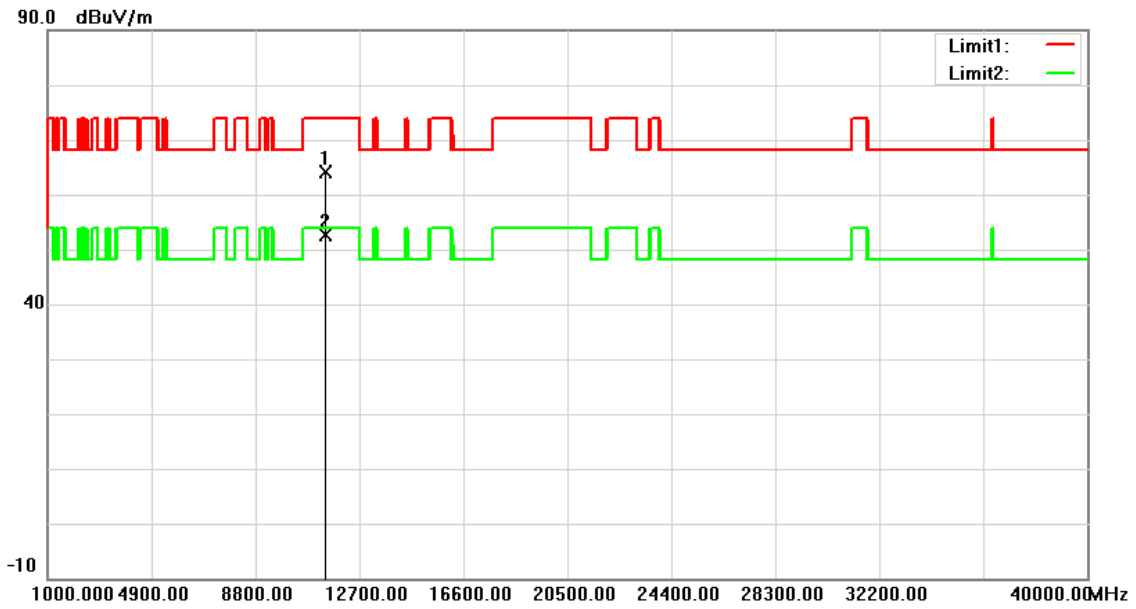
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	57.24	6.07	63.31	74.00	-10.69	peak
2	11400.000	46.90	6.07	52.97	54.00	-1.03	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5700MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/06/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



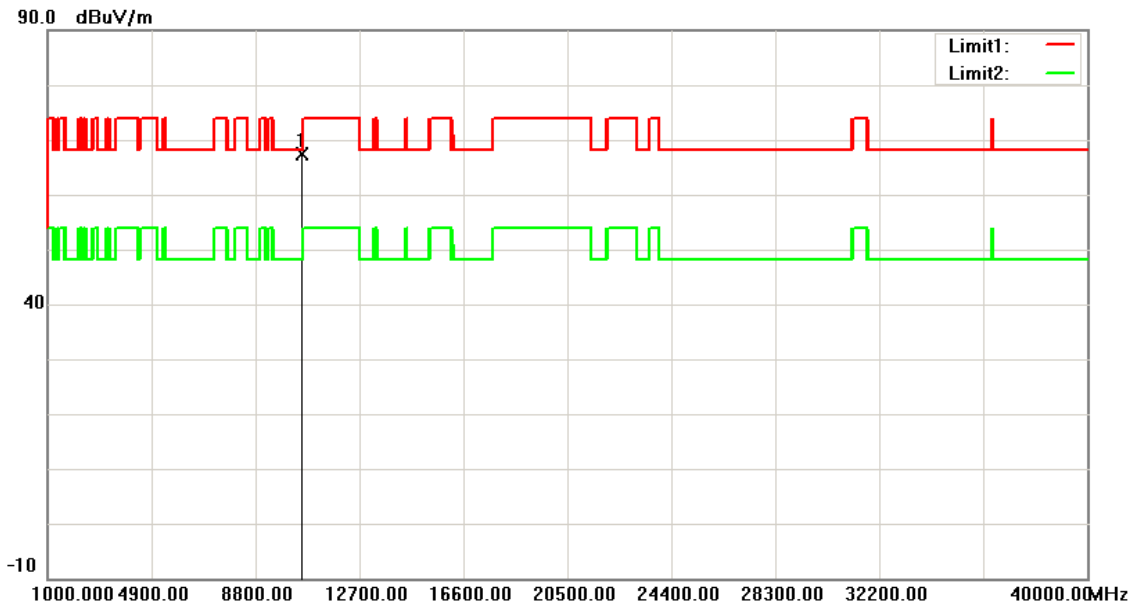
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	58.01	6.07	64.08	74.00	-9.92	peak
2	11400.000	46.51	6.07	52.58	54.00	-1.42	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5260MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/04/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



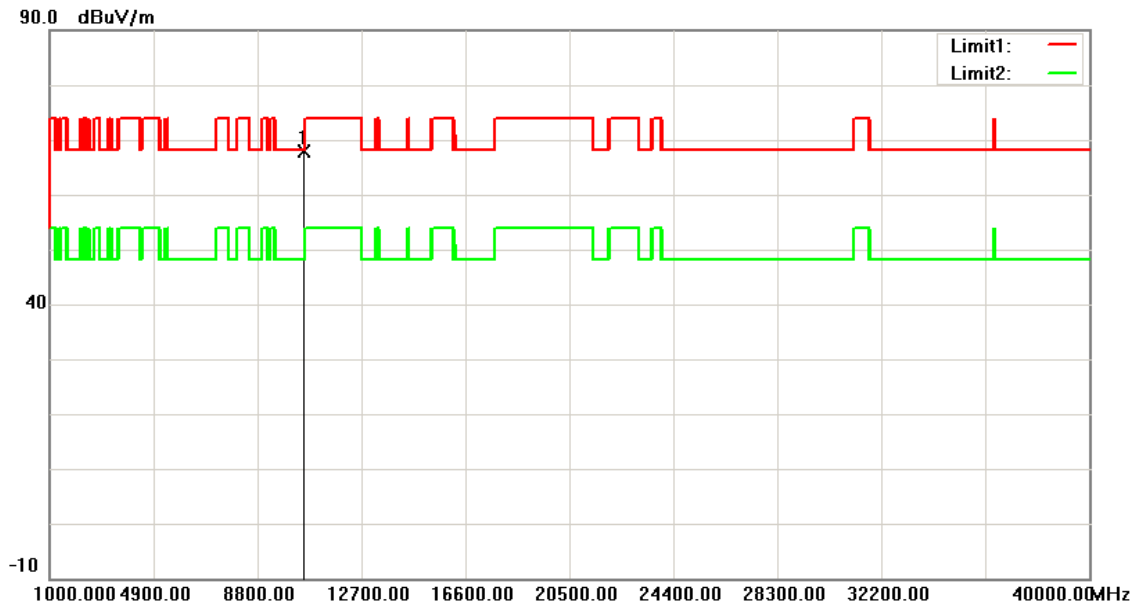
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	62.01	5.33	67.34	68.20	-0.86	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5260MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/04/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



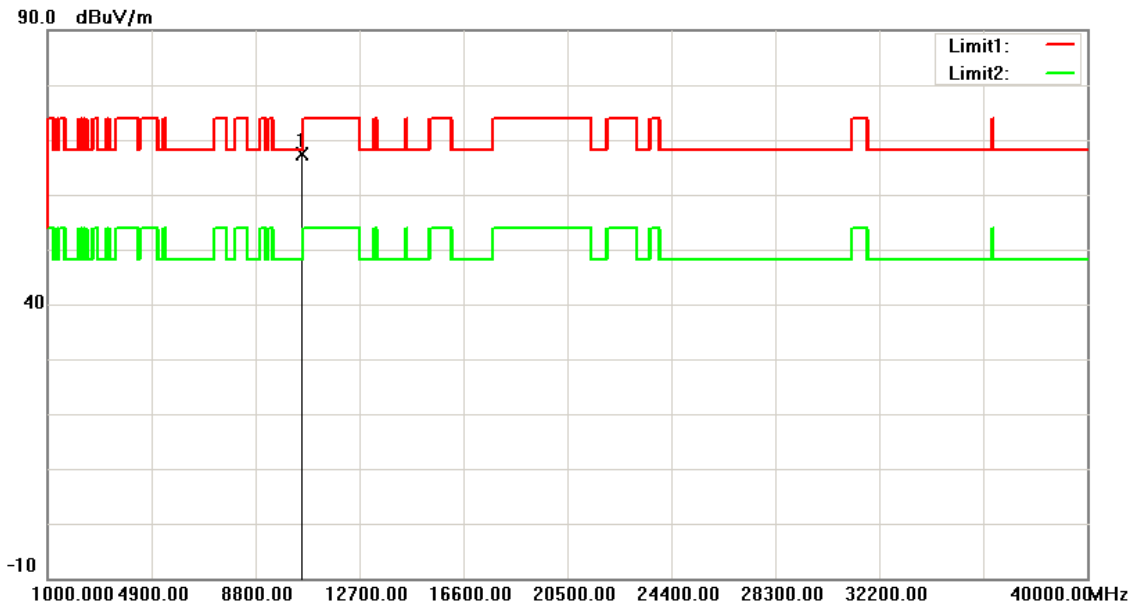
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	62.43	5.33	67.76	68.20	-0.44	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5280MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/04/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



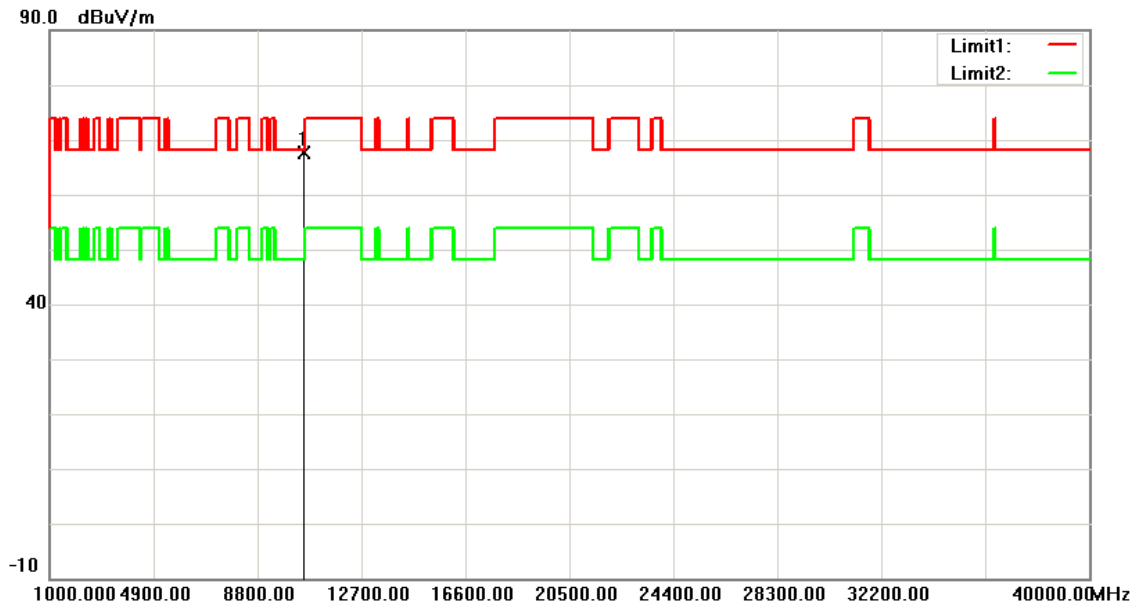
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10554.000	62.06	5.35	67.41	68.20	-0.79	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5280MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/04/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



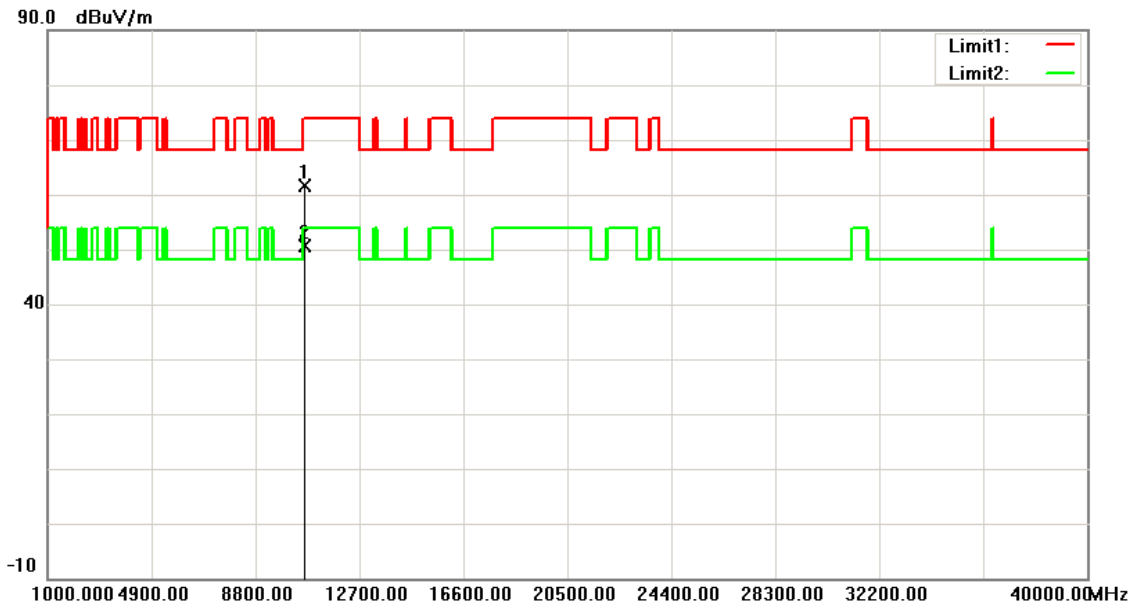
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10554.000	62.32	5.35	67.67	68.20	-0.53	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5320MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/04/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



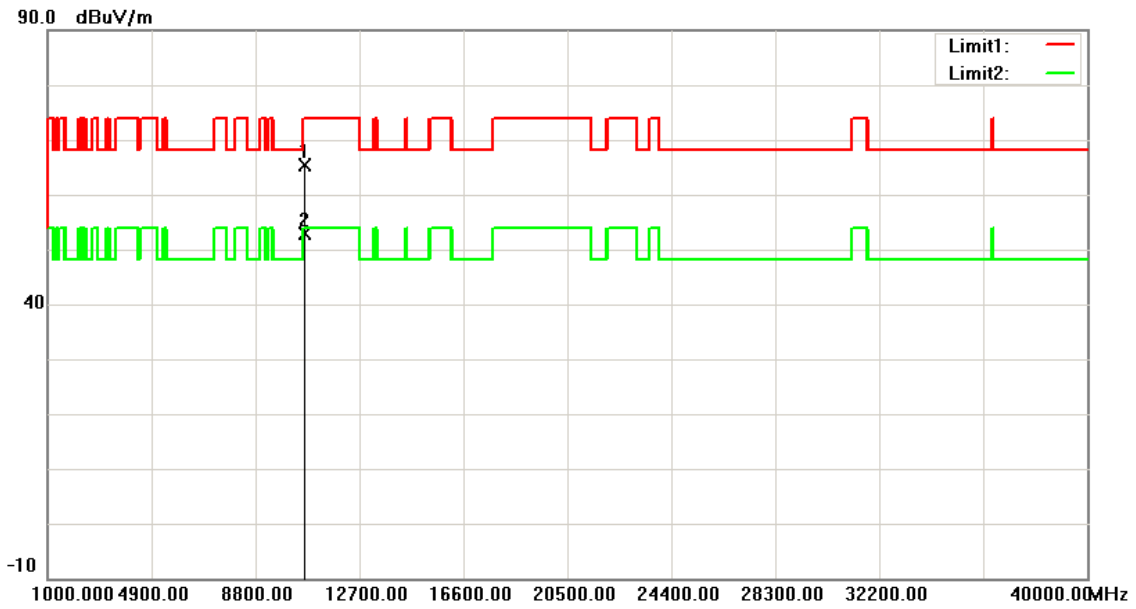
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	56.17	5.45	61.62	74.00	-12.38	peak
2	10640.000	45.06	5.45	50.51	54.00	-3.49	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5320MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/04/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



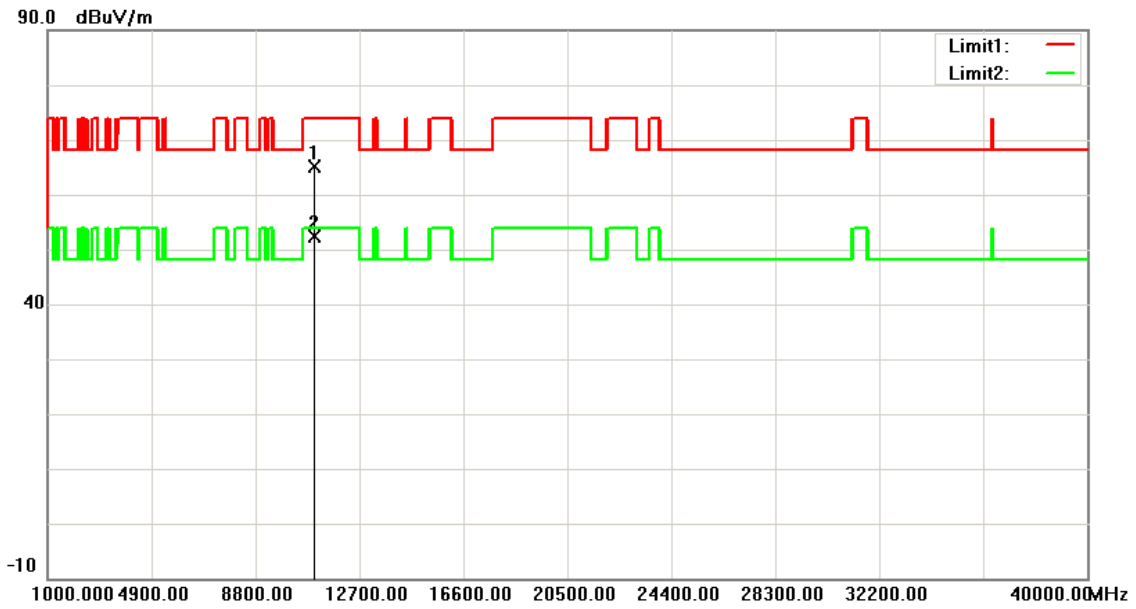
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	59.96	5.45	65.41	74.00	-8.59	peak
2	10640.000	47.51	5.45	52.96	54.00	-1.04	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5500MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/06/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



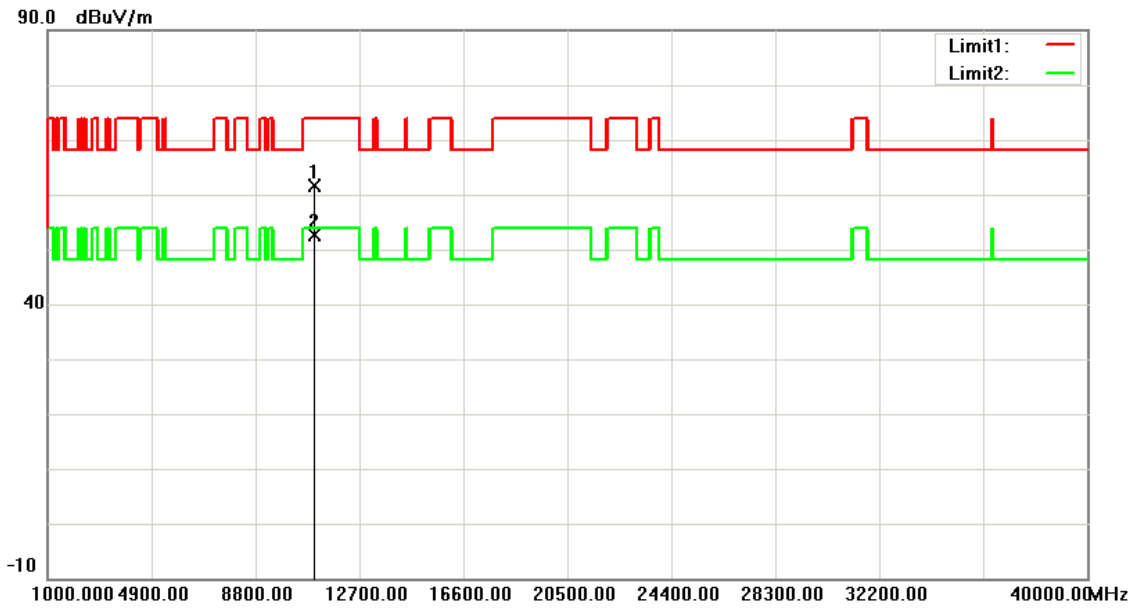
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	59.36	5.78	65.14	74.00	-8.86	peak
2	11000.000	46.60	5.78	52.38	54.00	-1.62	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5500MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/06/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



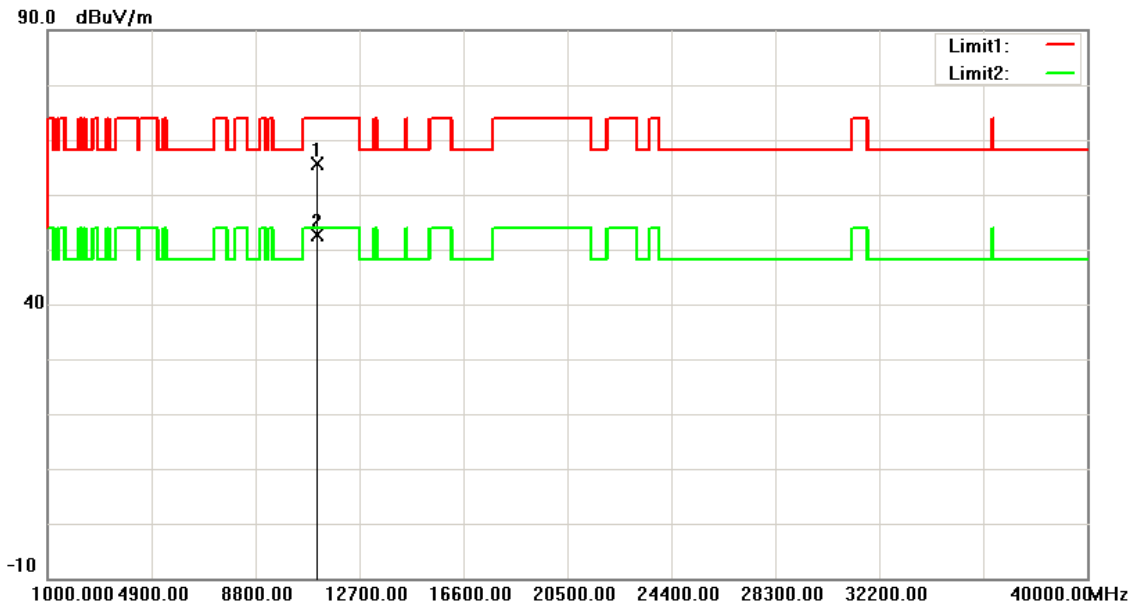
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	55.97	5.78	61.75	74.00	-12.25	peak
2	11000.000	46.93	5.78	52.71	54.00	-1.29	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5560MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/06/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



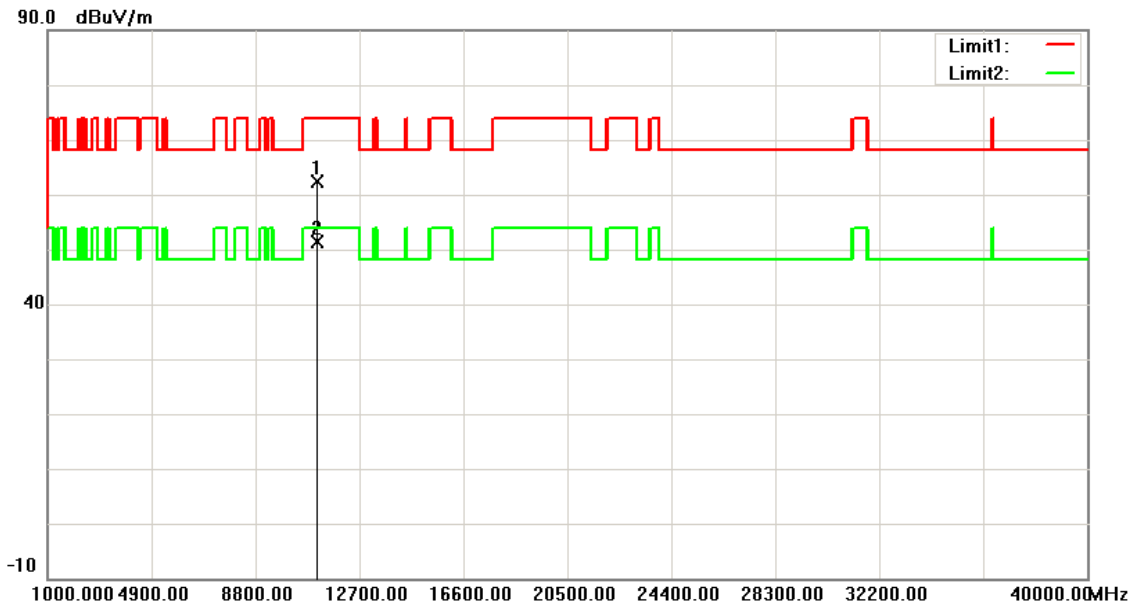
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	59.72	5.87	65.59	74.00	-8.41	peak
2	11120.000	46.66	5.87	52.53	54.00	-1.47	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5560MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/06/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



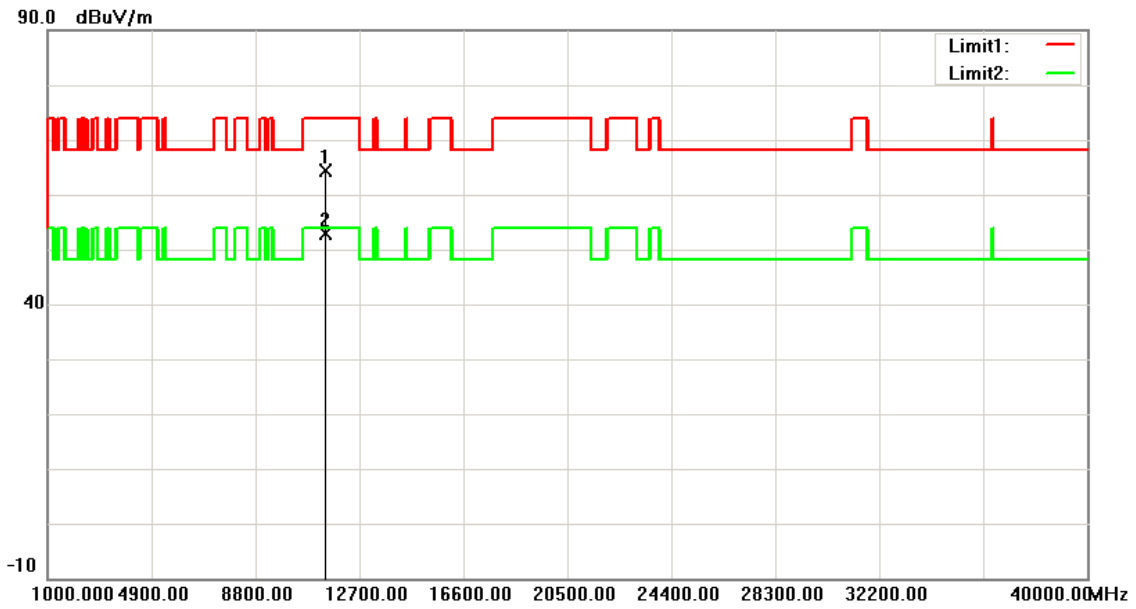
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	56.52	5.87	62.39	74.00	-11.61	peak
2	11120.000	45.42	5.87	51.29	54.00	-2.71	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5700MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/06/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



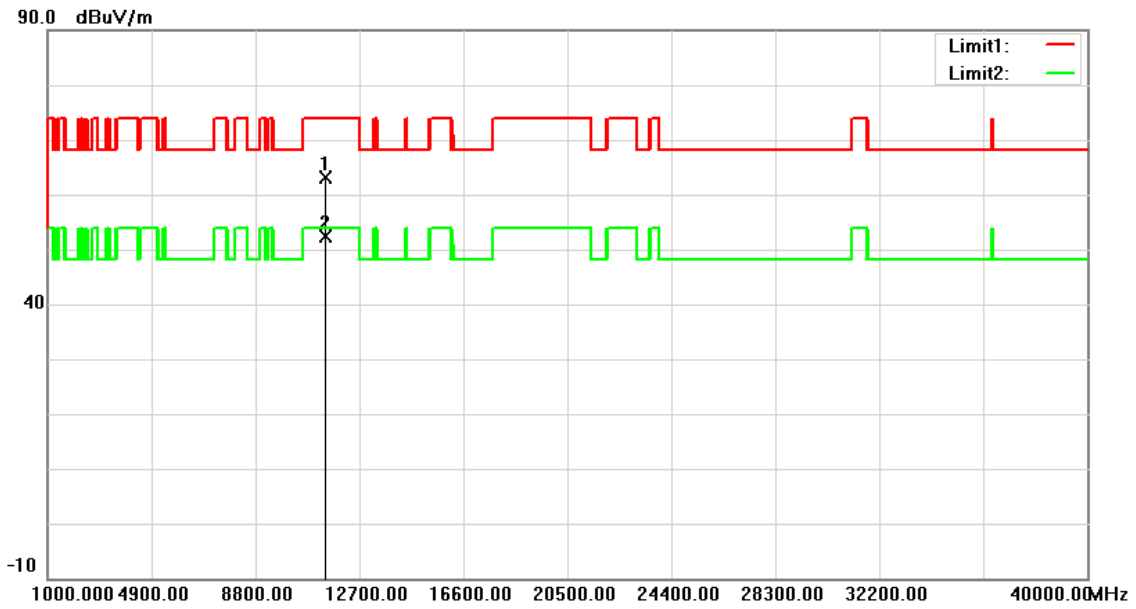
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	58.41	6.07	64.48	74.00	-9.52	peak
2	11400.000	46.91	6.07	52.98	54.00	-1.02	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5700MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/06/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



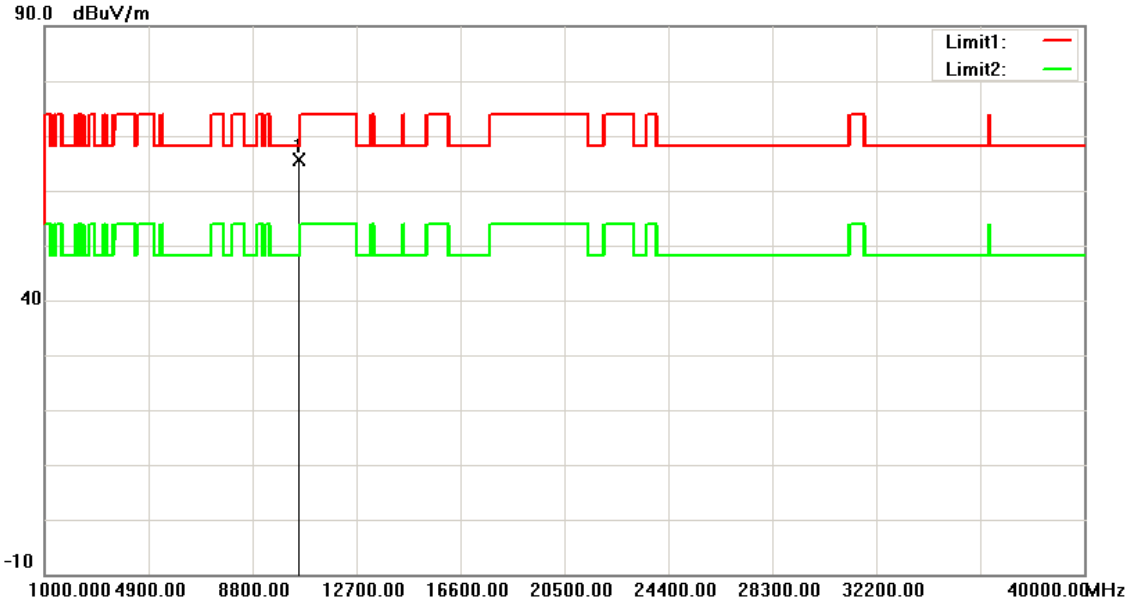
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	57.10	6.07	63.17	74.00	-10.83	peak
2	11400.000	46.39	6.07	52.46	54.00	-1.54	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5270MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/04/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



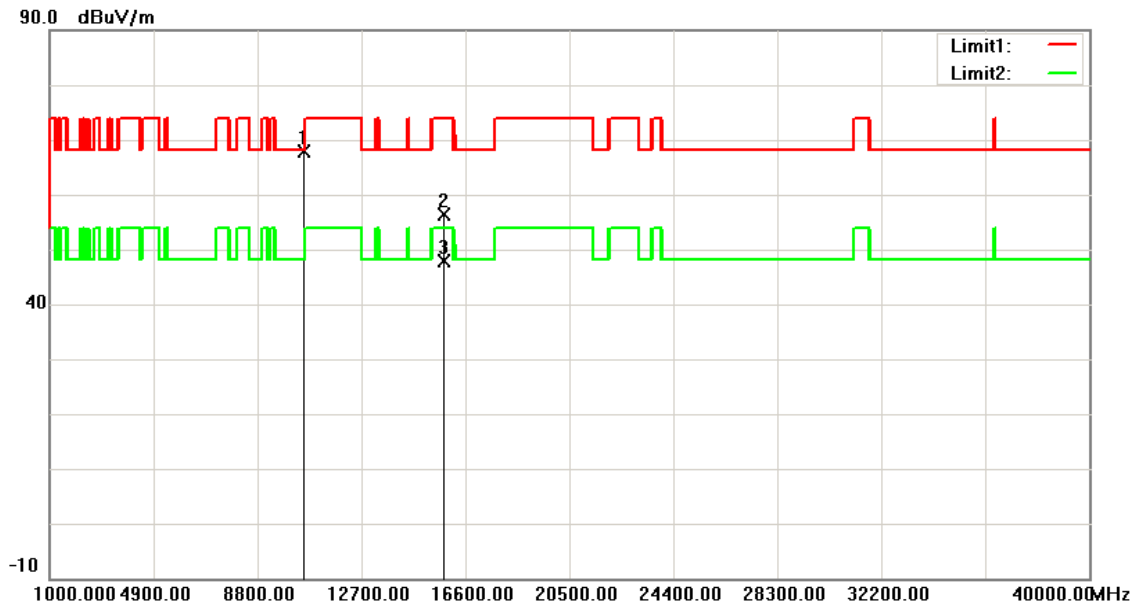
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	60.18	5.35	65.53	68.20	-2.67	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5270MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/04/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



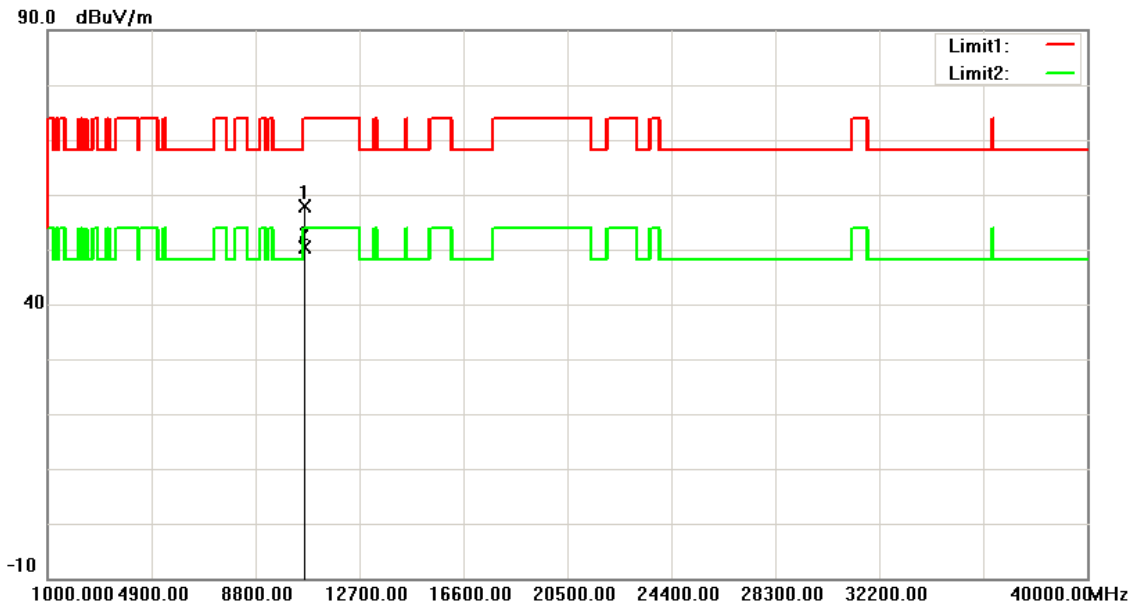
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	62.42	5.35	67.77	68.20	-0.43	peak
2	15810.000	49.43	6.84	56.27	74.00	-17.73	peak
3	15810.000	41.09	6.84	47.93	54.00	-6.07	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5310MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/04/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



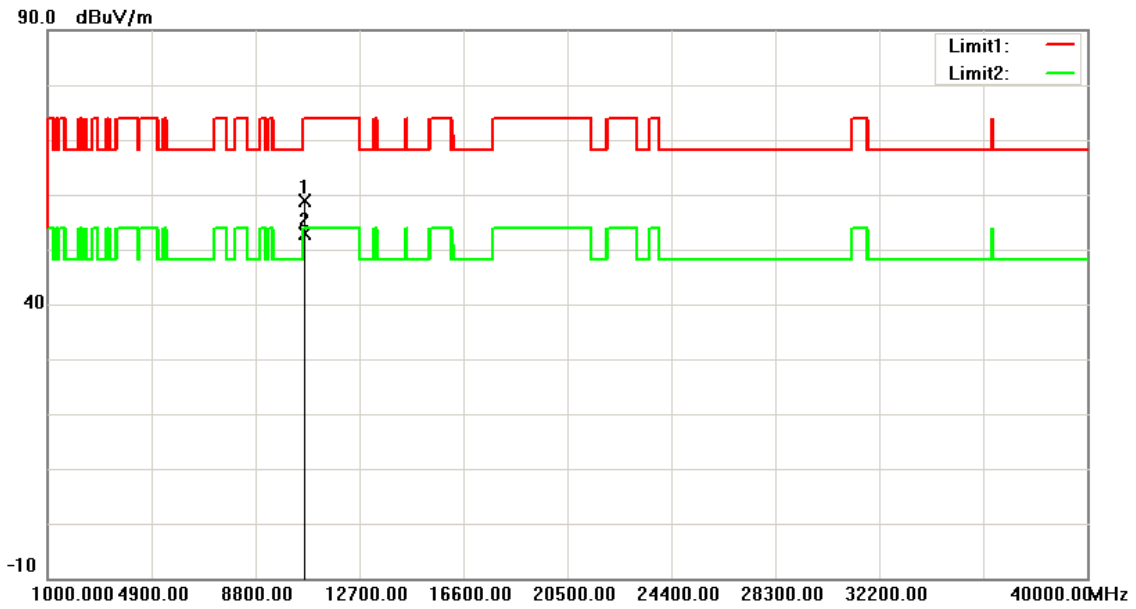
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	52.50	5.42	57.92	74.00	-16.08	peak
2	10620.000	44.84	5.42	50.26	54.00	-3.74	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5310MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/04/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



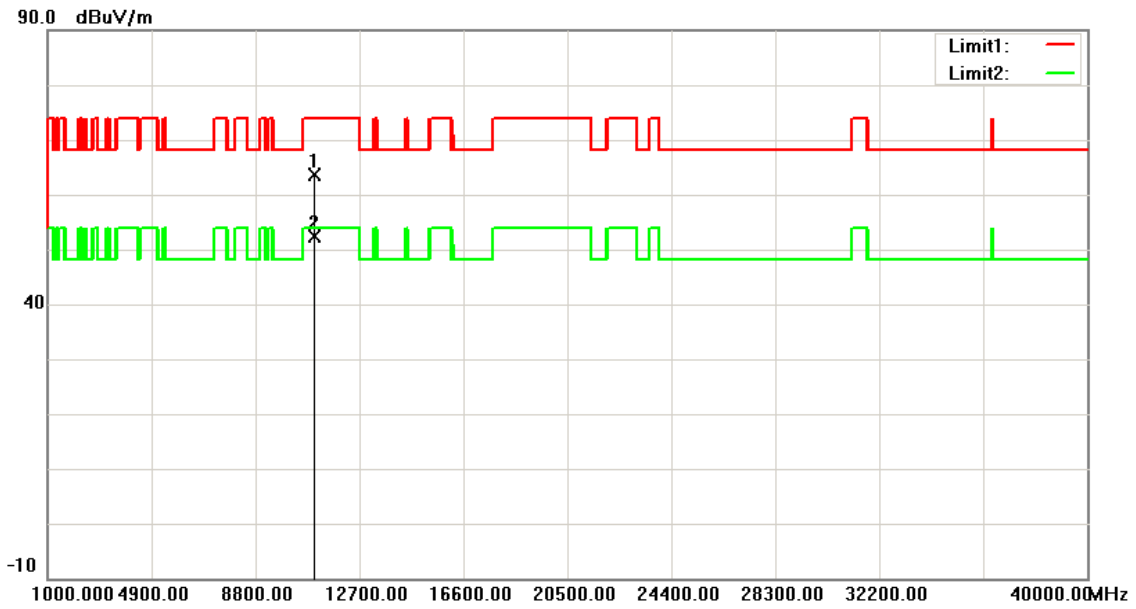
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	53.51	5.42	58.93	74.00	-15.07	peak
2	10620.000	47.45	5.42	52.87	54.00	-1.13	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5510MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/06/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



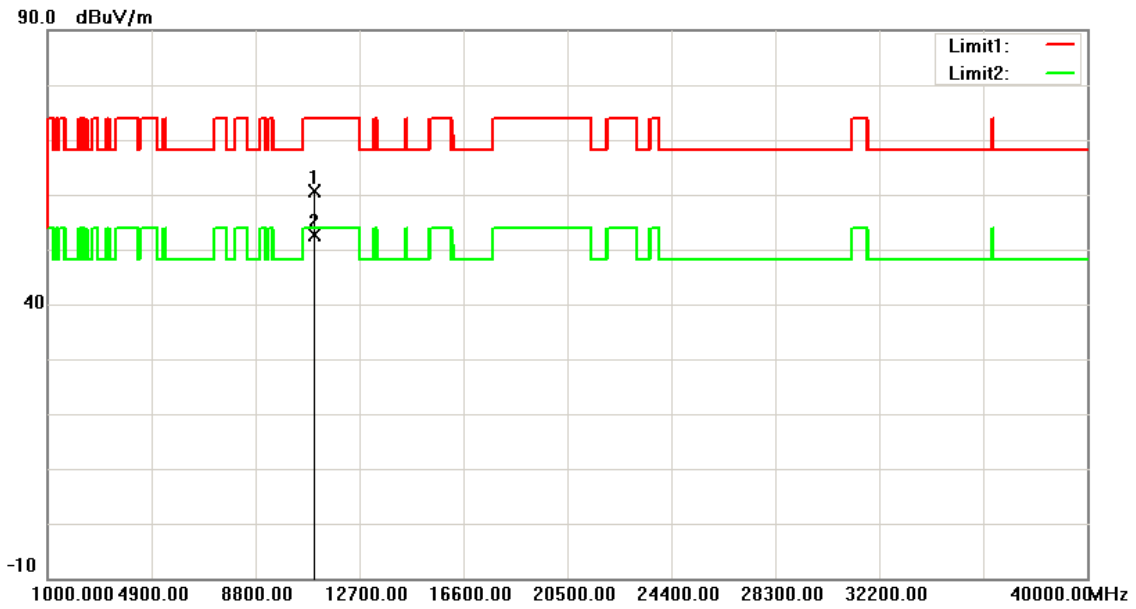
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	57.95	5.80	63.75	74.00	-10.25	peak
2	11020.000	46.69	5.80	52.49	54.00	-1.51	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5510MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/06/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



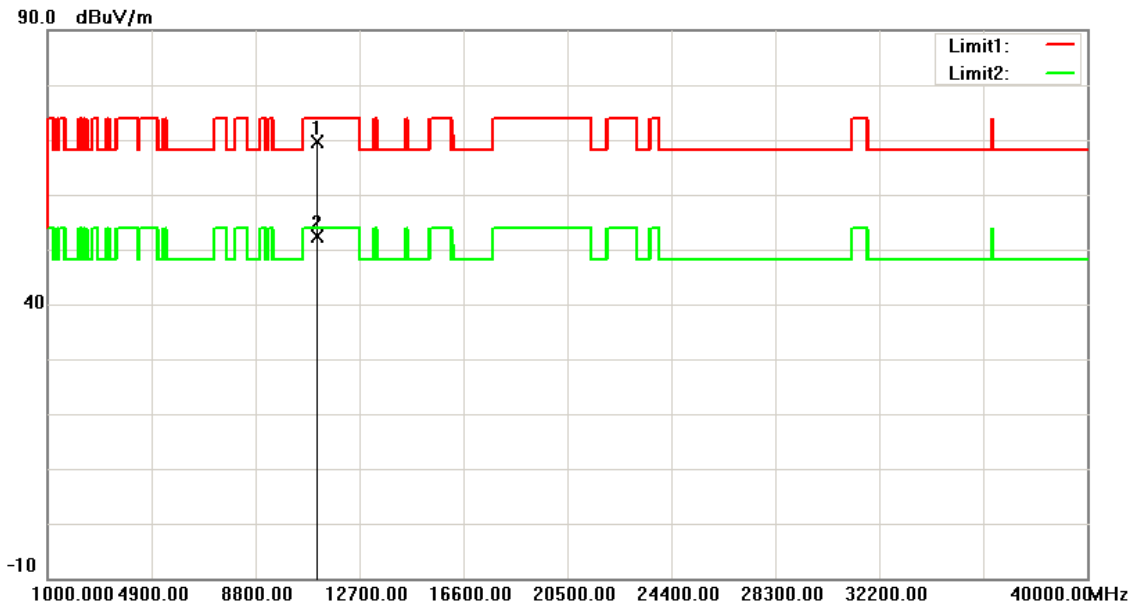
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	54.81	5.80	60.61	74.00	-13.39	peak
2	11020.000	46.76	5.80	52.56	54.00	-1.44	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5550MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/07/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



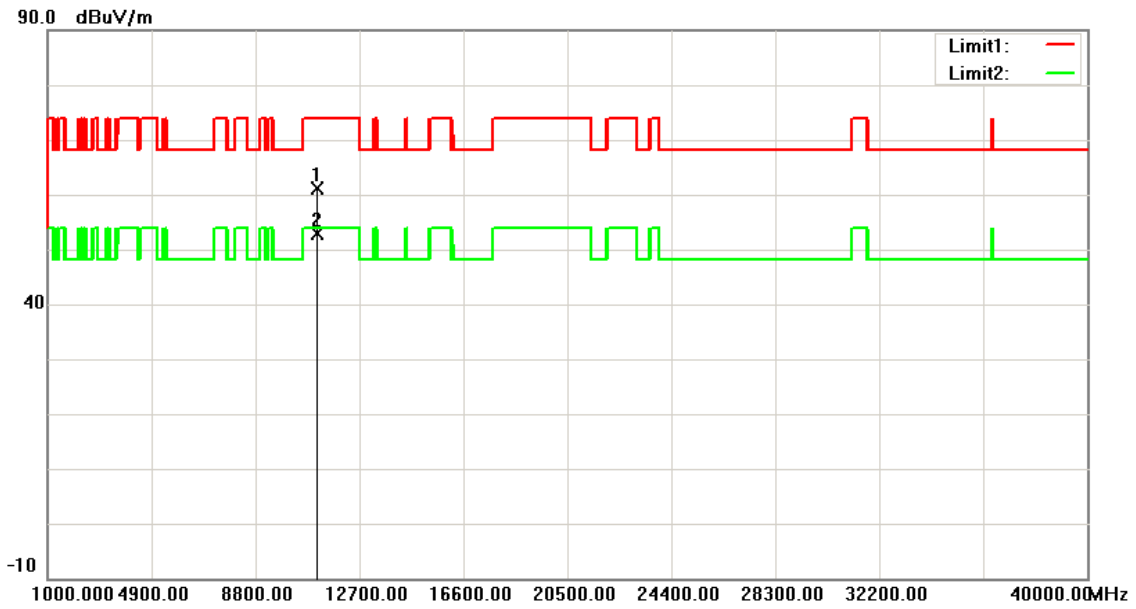
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11100.000	63.67	5.85	69.52	74.00	-4.48	peak
2	11100.000	46.57	5.85	52.42	54.00	-1.58	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5550MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/07/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



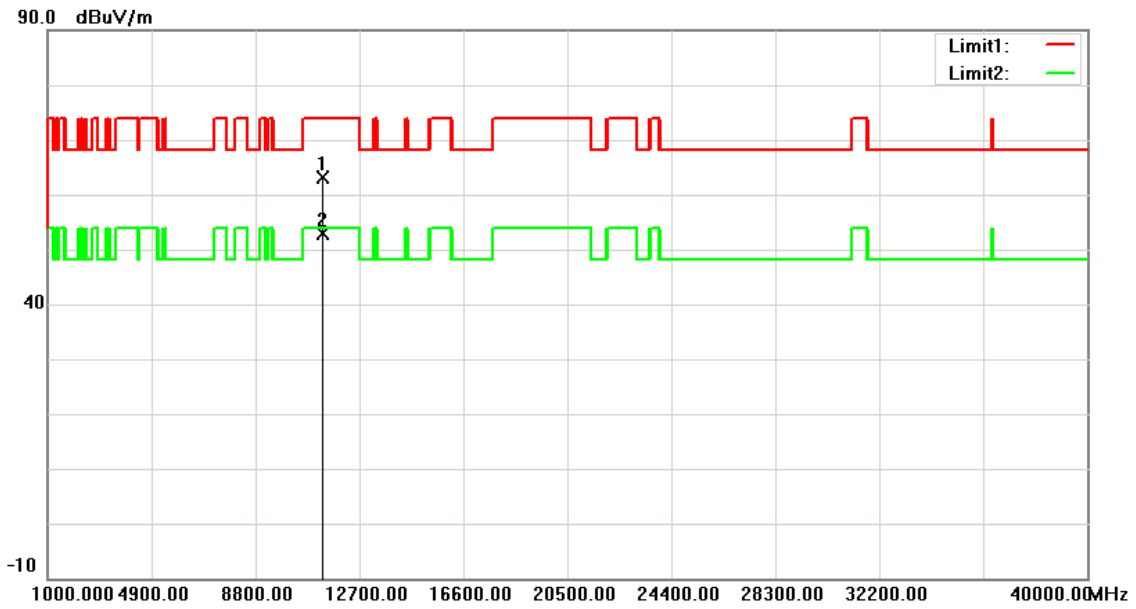
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11100.000	55.28	5.85	61.13	74.00	-12.87	peak
2	11100.000	47.06	5.85	52.91	54.00	-1.09	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5670MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/07/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



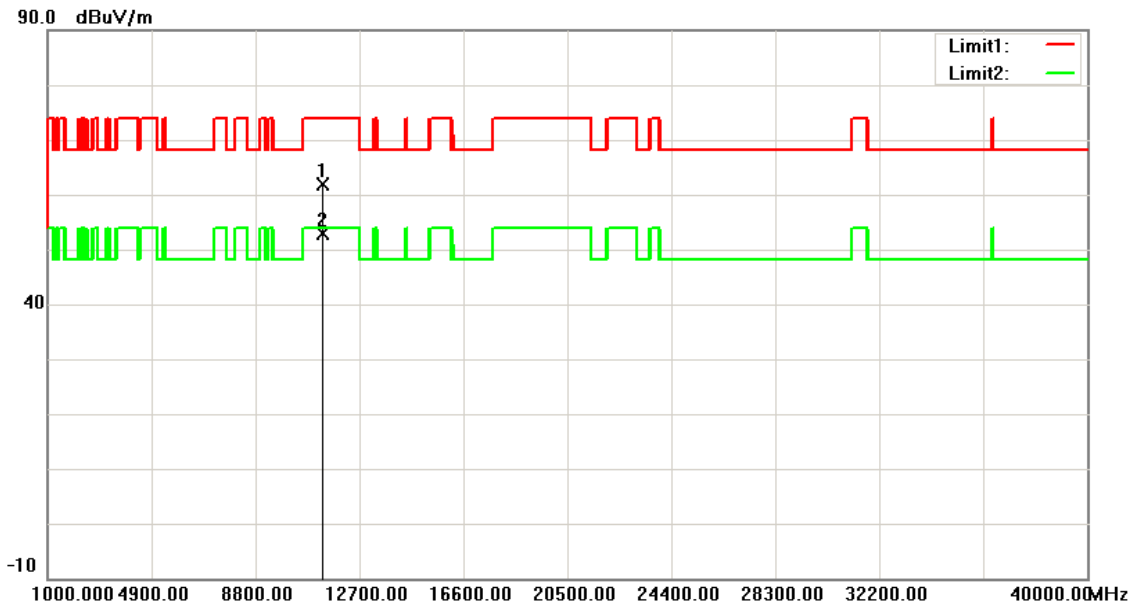
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	57.13	6.03	63.16	74.00	-10.84	peak
2	11340.000	46.89	6.03	52.92	54.00	-1.08	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5670MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/07/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



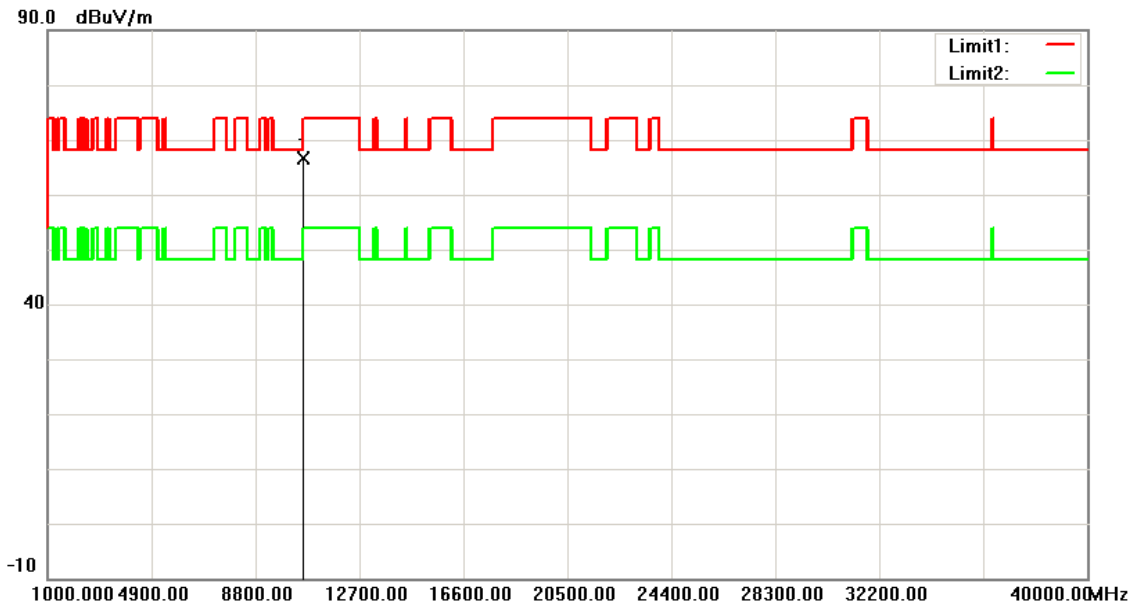
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	55.91	6.03	61.94	74.00	-12.06	peak
2	11340.000	46.75	6.03	52.78	54.00	-1.22	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5290MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 5	Date:	12/04/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



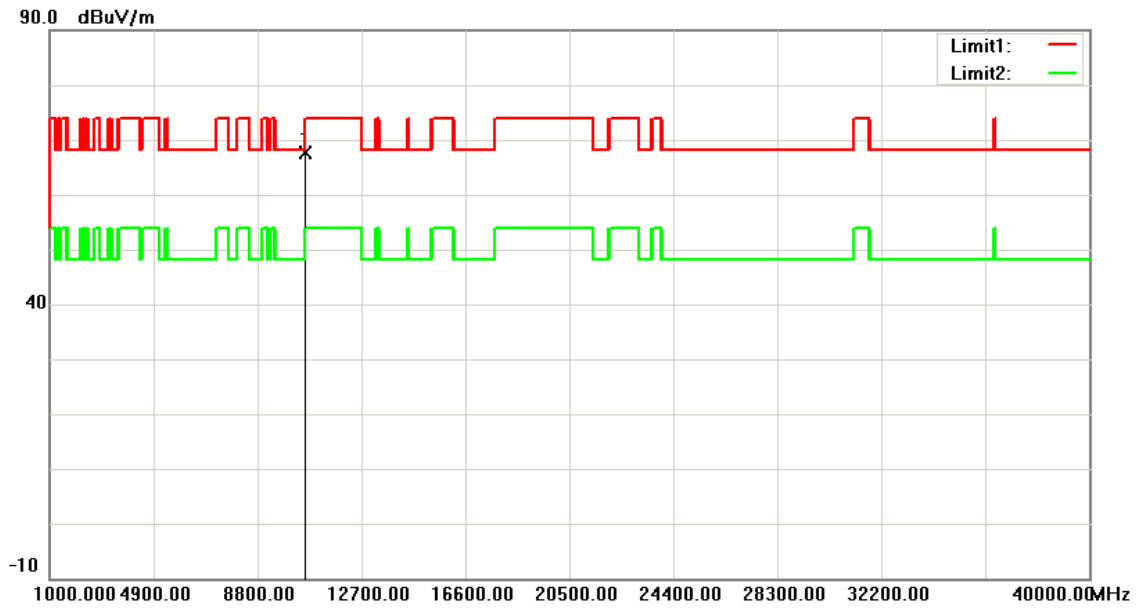
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	61.17	5.39	66.56	68.20	-1.64	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5290MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 5	Date:	12/04/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



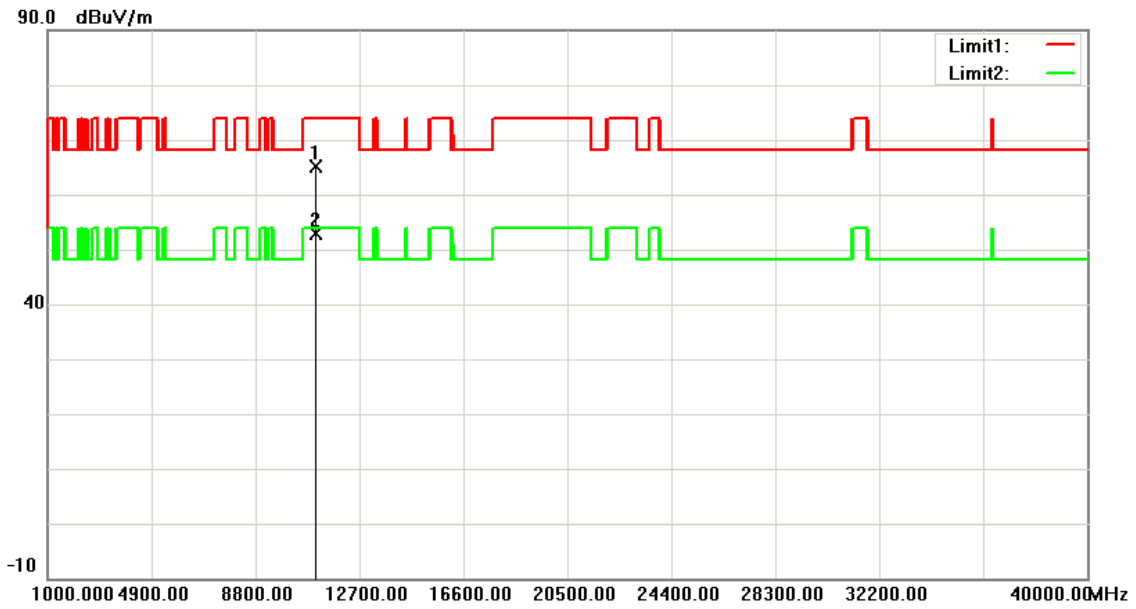
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	62.18	5.39	67.57	68.20	-0.63	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5530MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 5	Date:	12/07/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:SAA04-22008A		



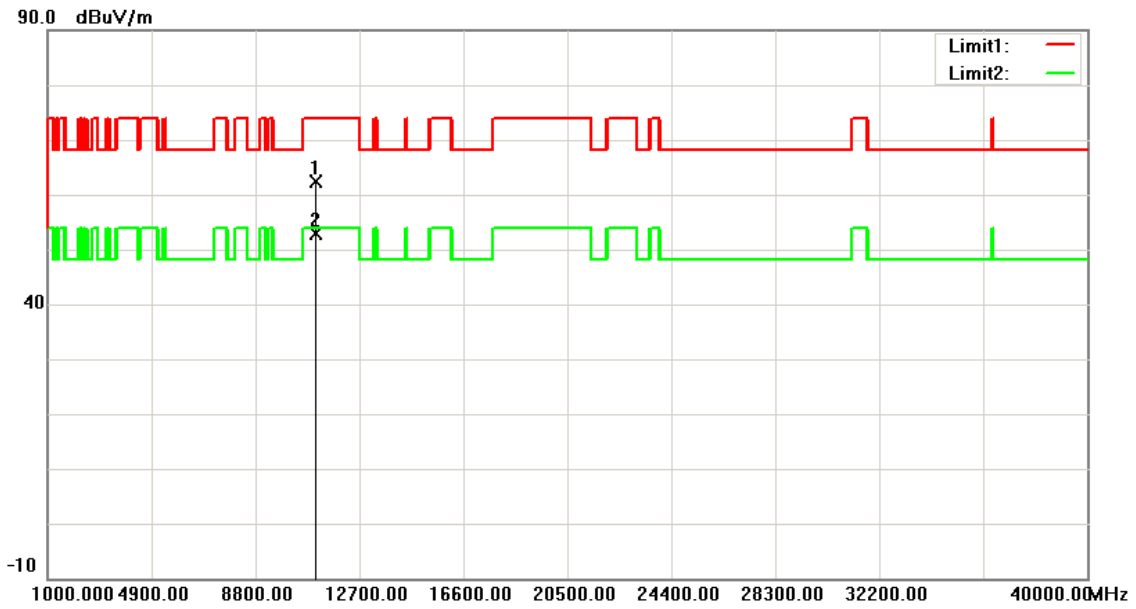
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	59.27	5.82	65.09	74.00	-8.91	peak
2	11060.000	47.00	5.82	52.82	54.00	-1.18	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5530MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 5	Date:	12/07/2016
Ant.Polar.:	Vertical		
Description:	Antenna:SAA04-22008A		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	56.59	5.82	62.41	74.00	-11.59	peak
2	11060.000	47.09	5.82	52.91	54.00	-1.09	AVG

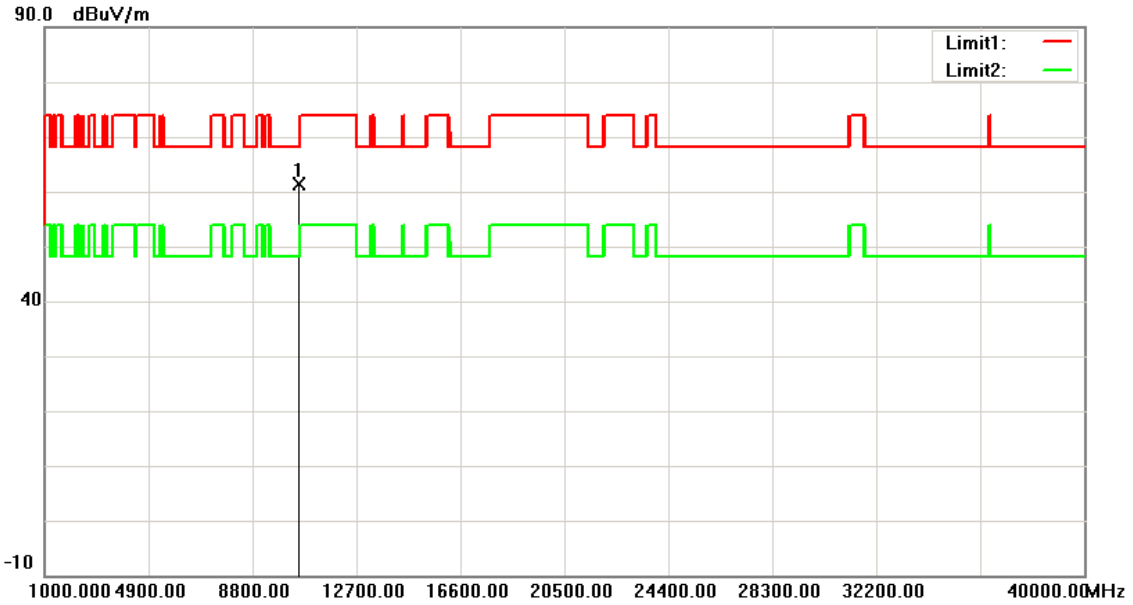
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Module : QCA9990 (EW-7944MAC)

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5260MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/07/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



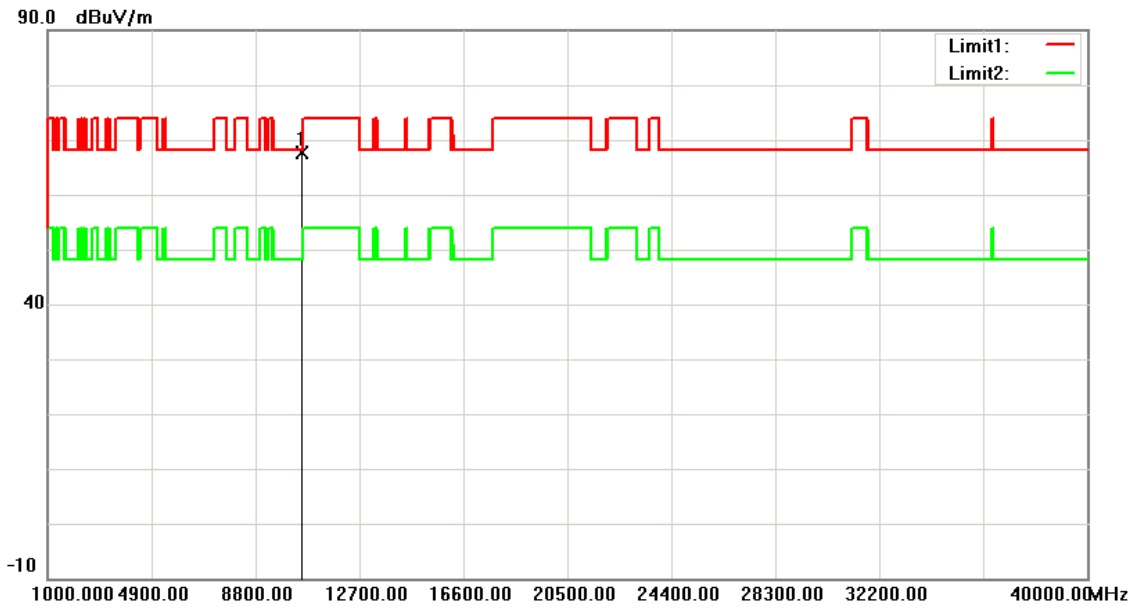
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	56.05	5.33	61.38	68.20	-6.82	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5260MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/07/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



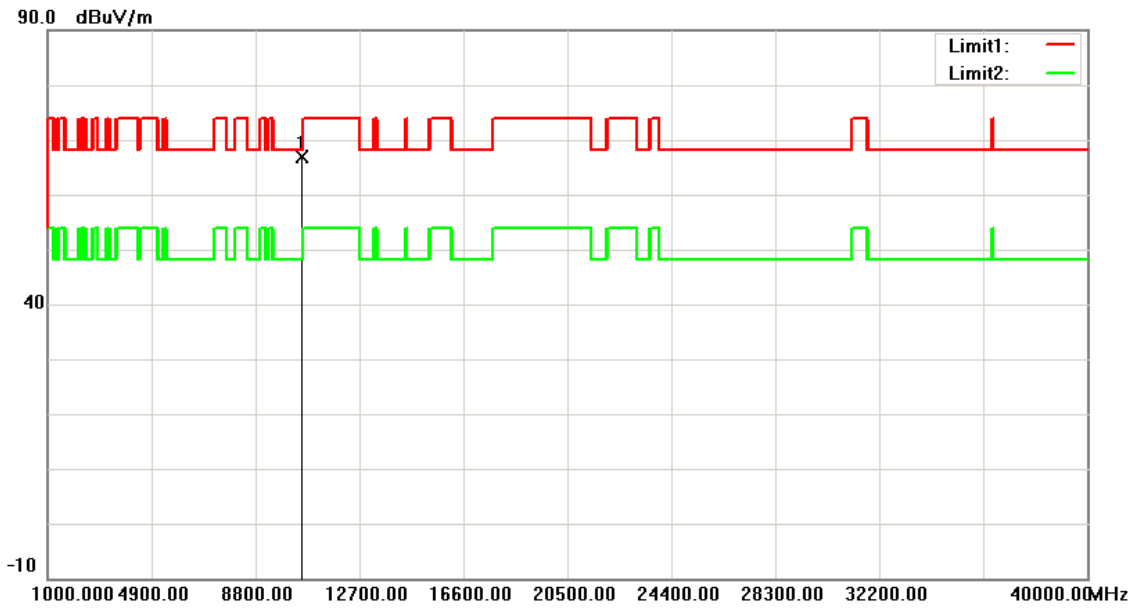
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	62.38	5.33	67.71	68.20	-0.49	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5280MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/07/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



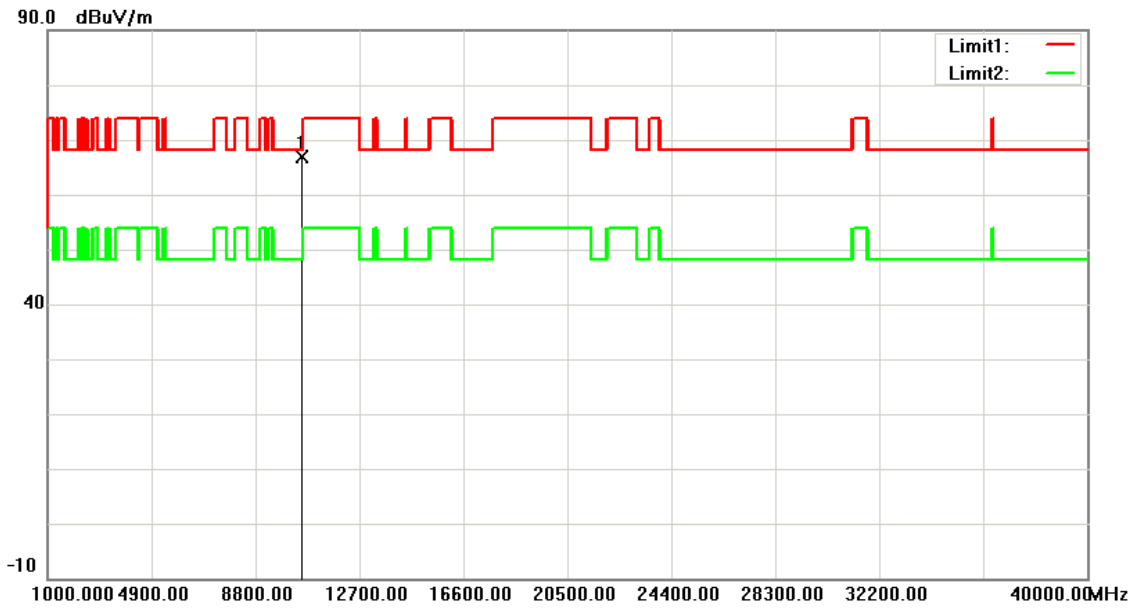
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	61.55	5.37	66.92	68.20	-1.28	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5280MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/07/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



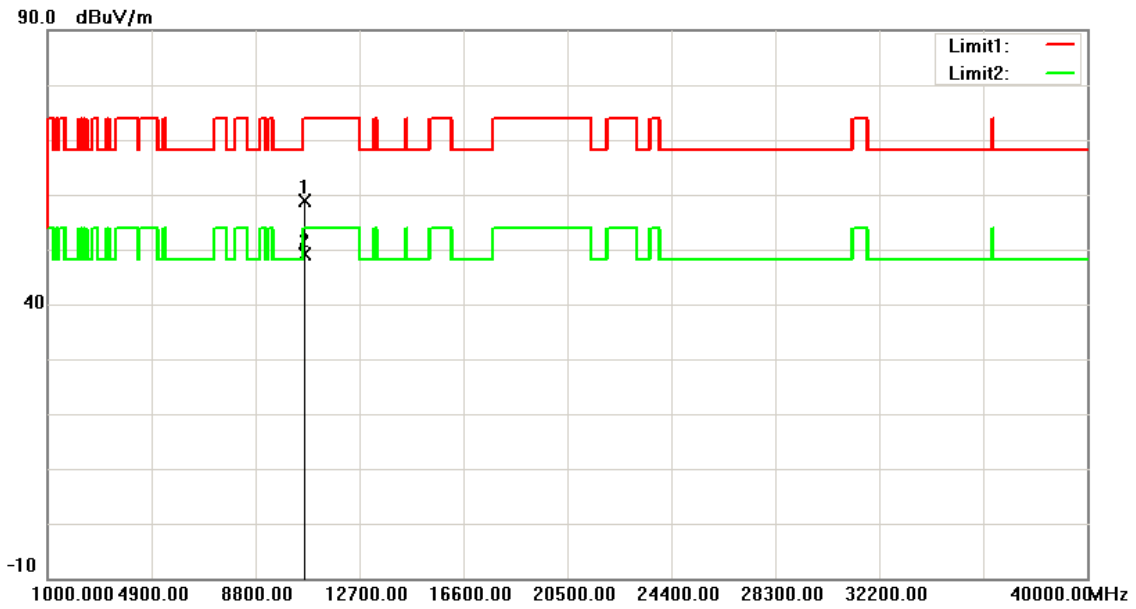
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	61.46	5.37	66.83	68.20	-1.37	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5320MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/07/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



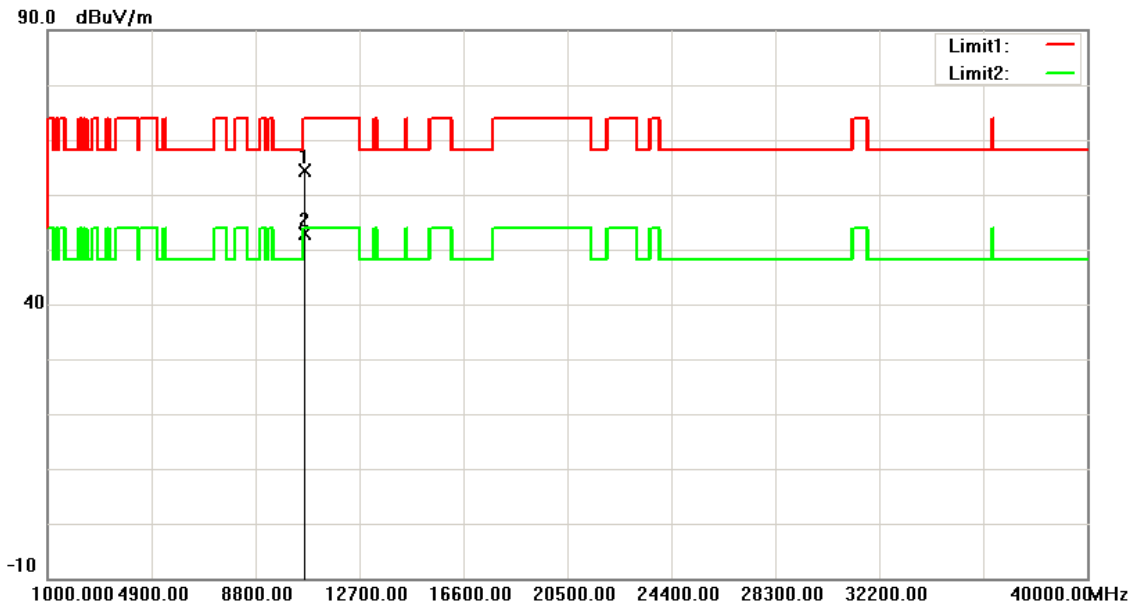
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	53.50	5.45	58.95	74.00	-15.05	peak
2	10640.000	43.67	5.45	49.12	54.00	-4.88	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5320MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/07/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



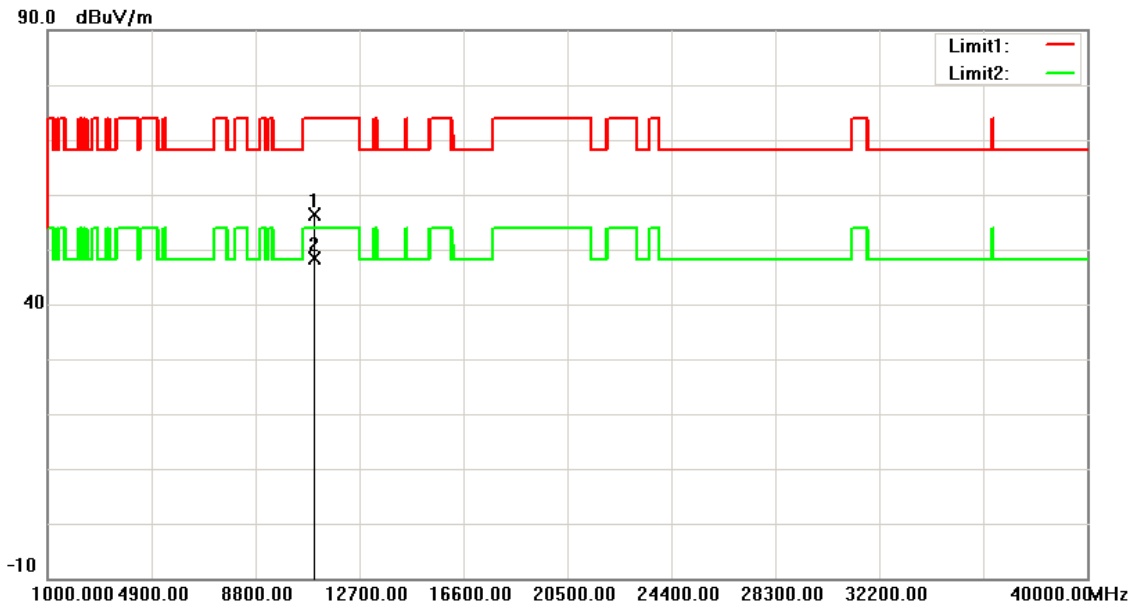
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	58.95	5.45	64.40	74.00	-9.60	peak
2	10640.000	47.48	5.45	52.93	54.00	-1.07	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5500MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/08/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



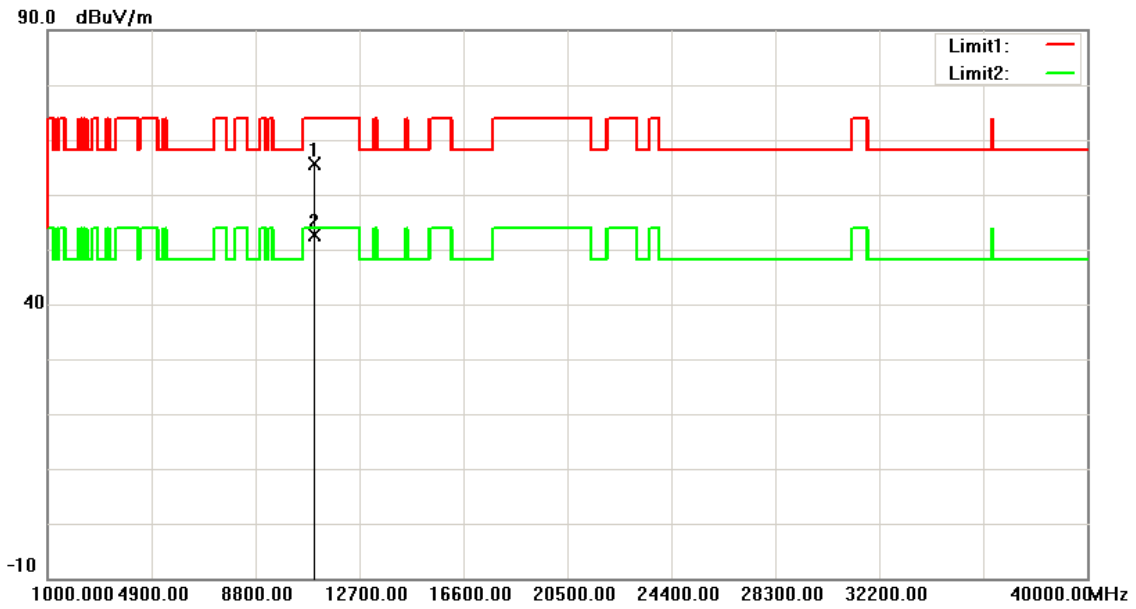
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	50.49	5.78	56.27	74.00	-17.73	peak
2	11000.000	42.72	5.78	48.50	54.00	-5.50	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5500MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/08/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



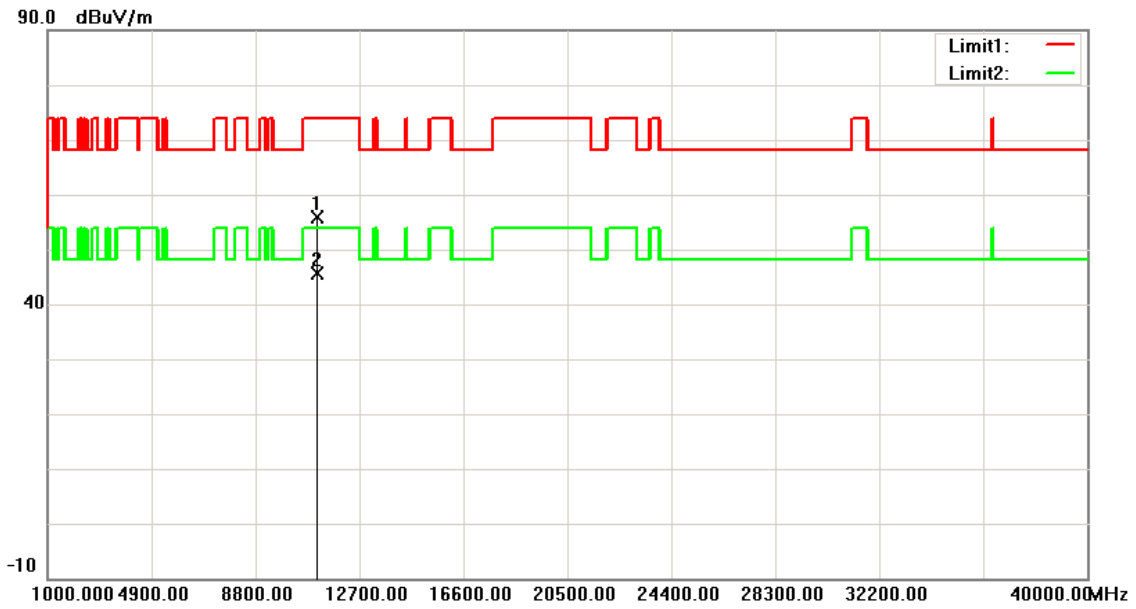
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	59.97	5.78	65.75	74.00	-8.25	peak
2	11000.000	46.88	5.78	52.66	54.00	-1.34	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5560MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/08/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



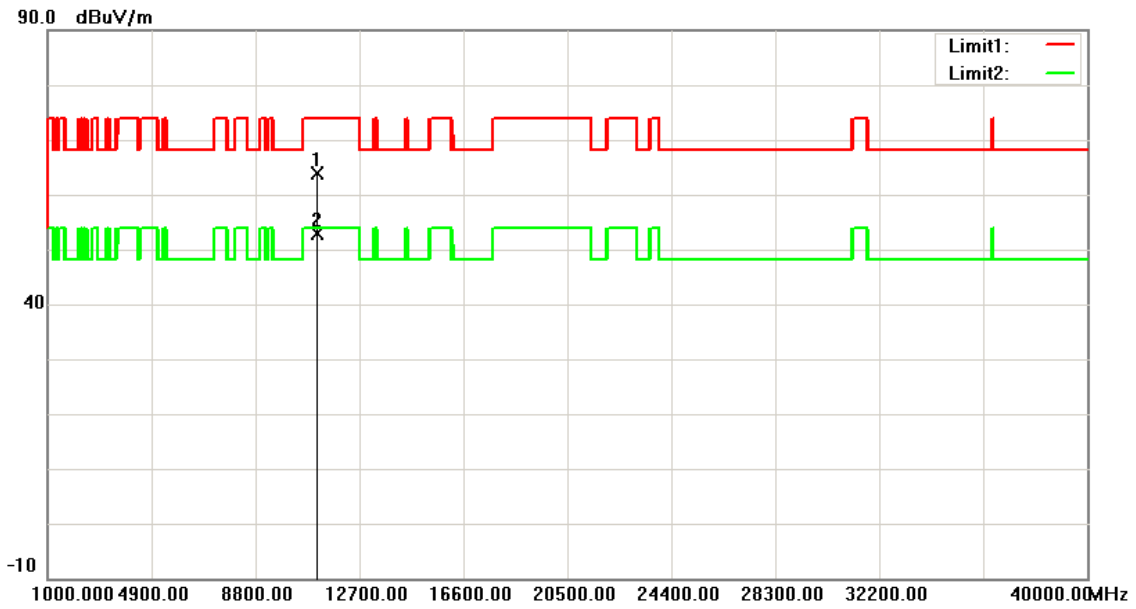
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	50.00	5.87	55.87	74.00	-18.13	peak
2	11120.000	39.70	5.87	45.57	54.00	-8.43	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5560MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/08/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



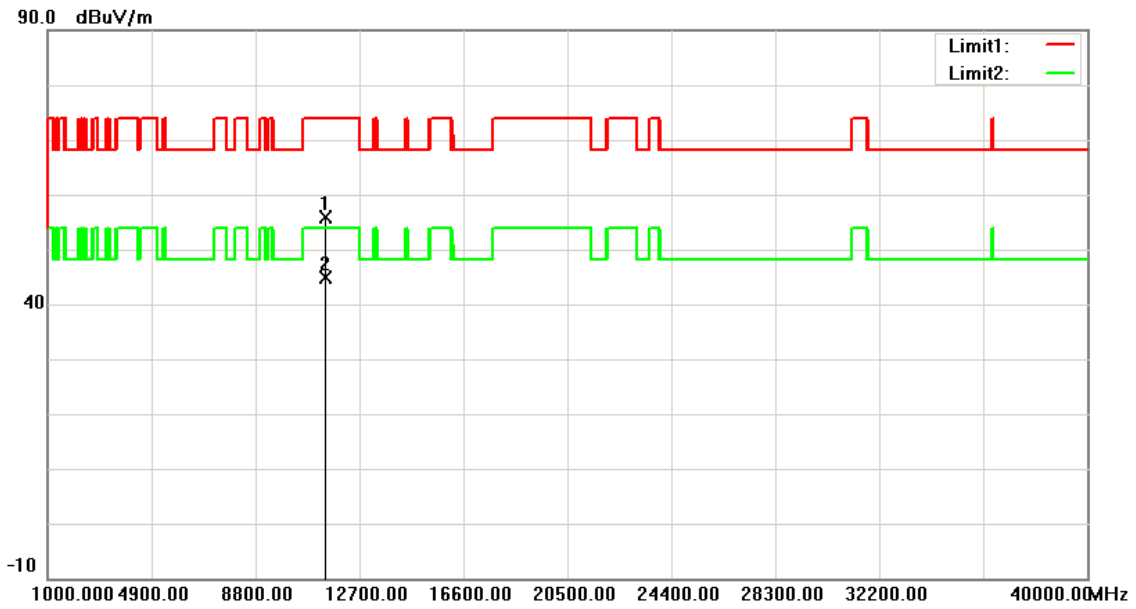
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	58.02	5.87	63.89	74.00	-10.11	peak
2	11120.000	46.89	5.87	52.76	54.00	-1.24	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5700MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/08/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



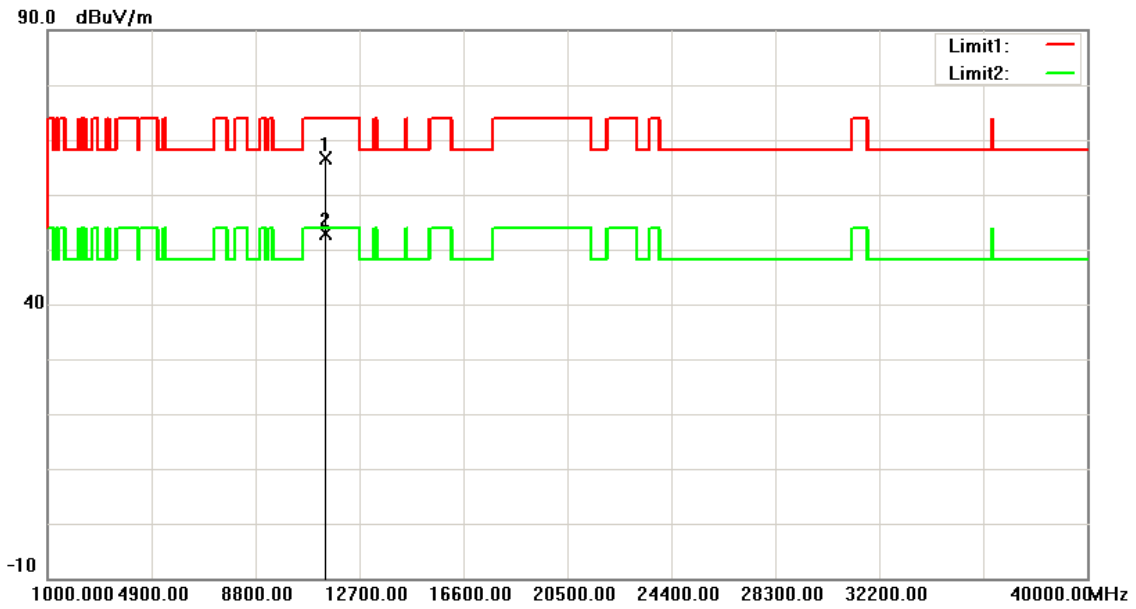
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	49.69	6.07	55.76	74.00	-18.24	peak
2	11400.000	38.72	6.07	44.79	54.00	-9.21	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5700MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	12/08/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



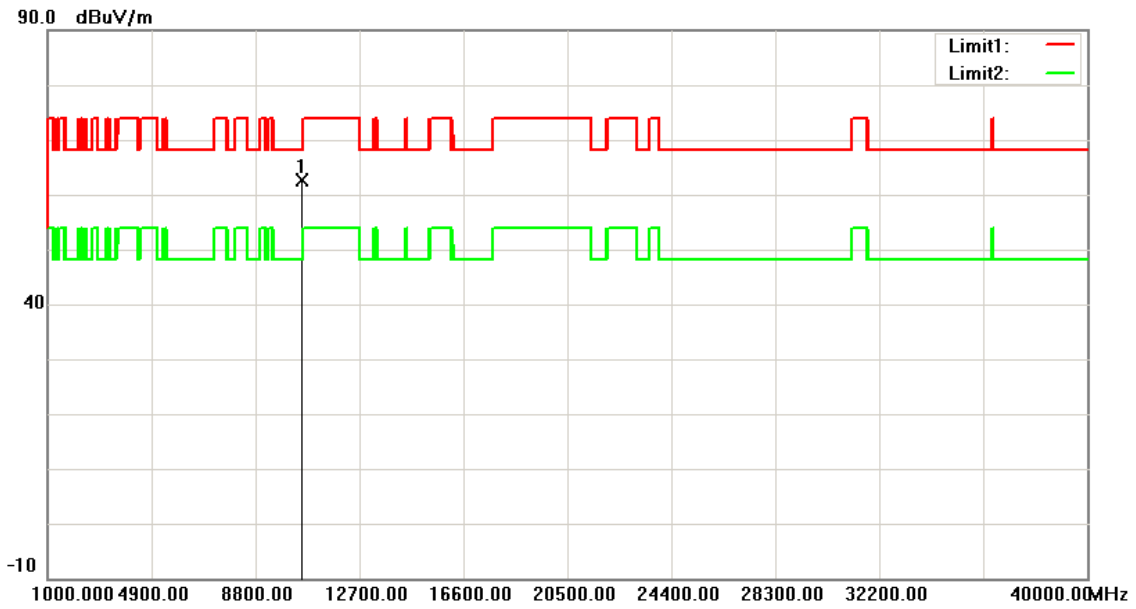
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	60.67	6.07	66.74	74.00	-7.26	peak
2	11400.000	46.75	6.07	52.82	54.00	-1.18	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5260MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/07/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



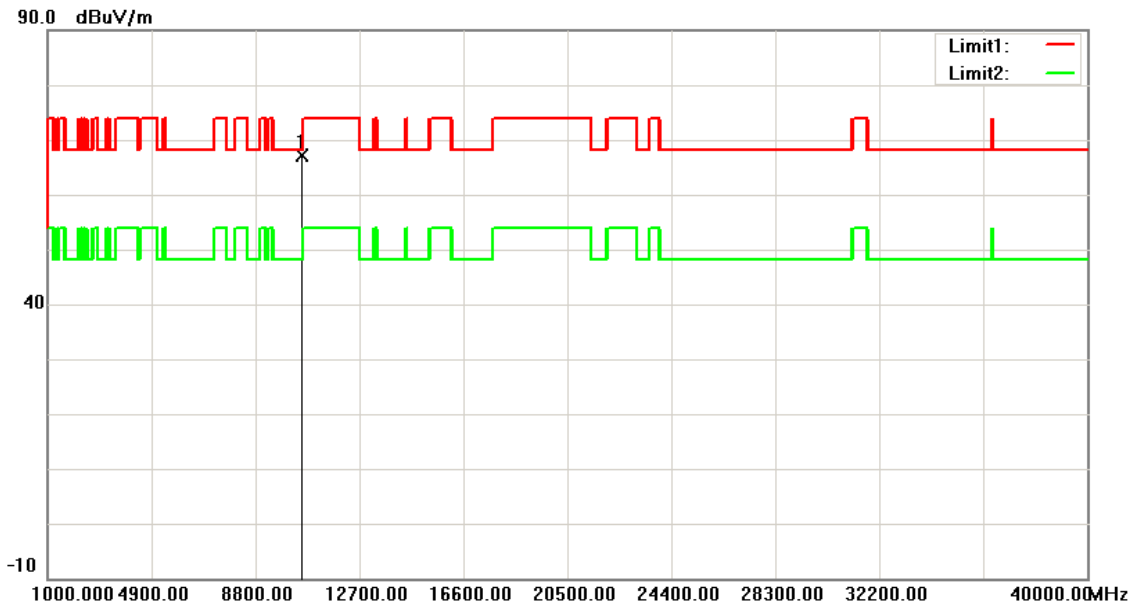
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	57.35	5.33	62.68	68.20	-5.52	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5260MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/07/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



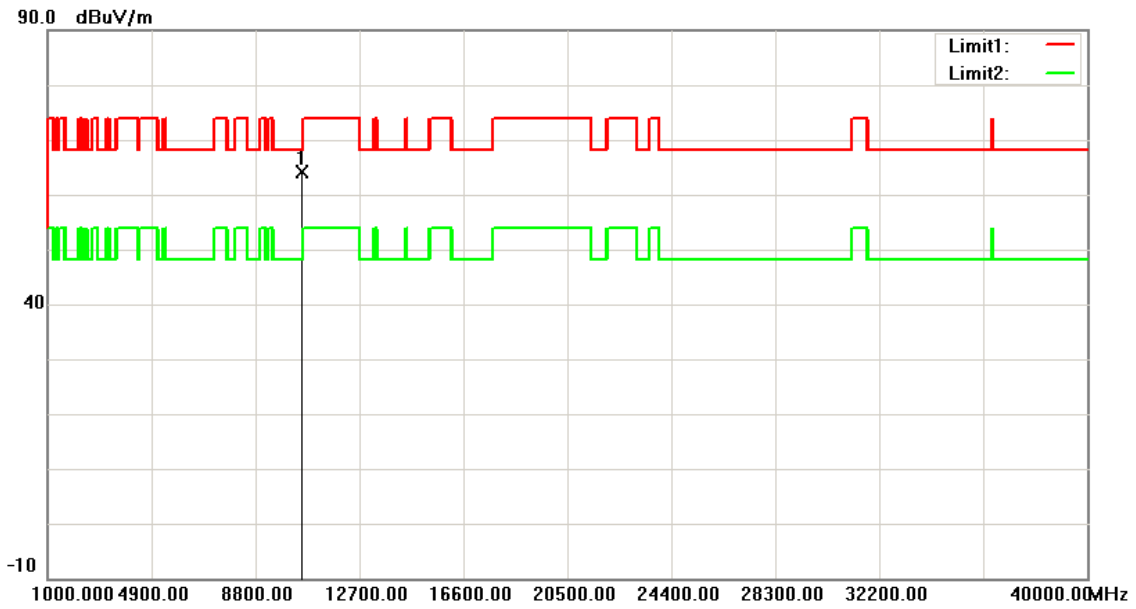
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	61.76	5.33	67.09	68.20	-1.11	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5280MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/07/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



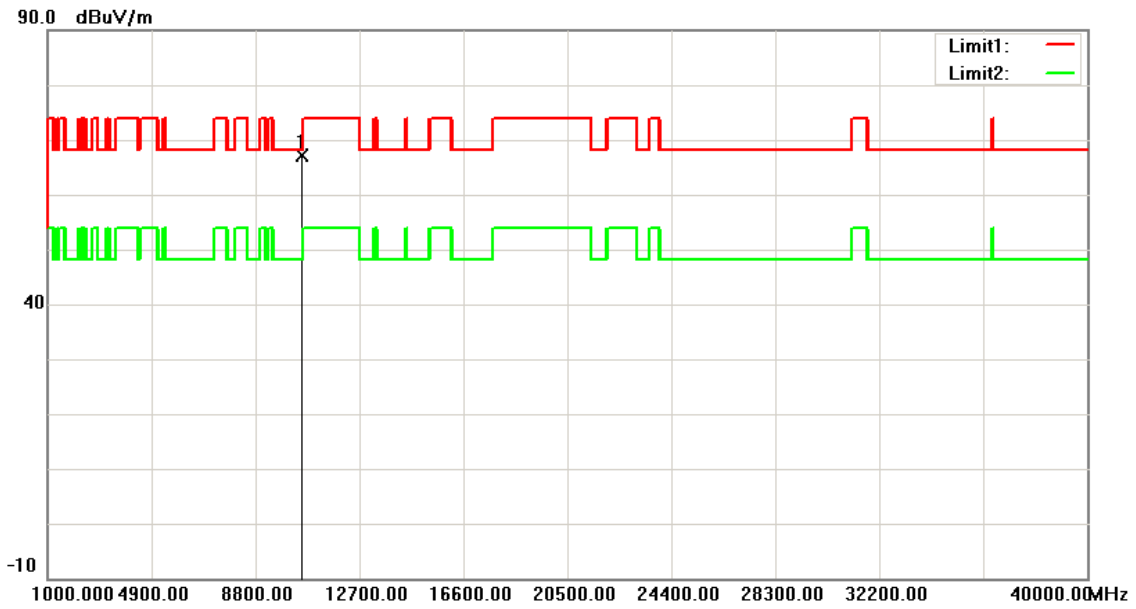
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	58.85	5.37	64.22	68.20	-3.98	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5280MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/07/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



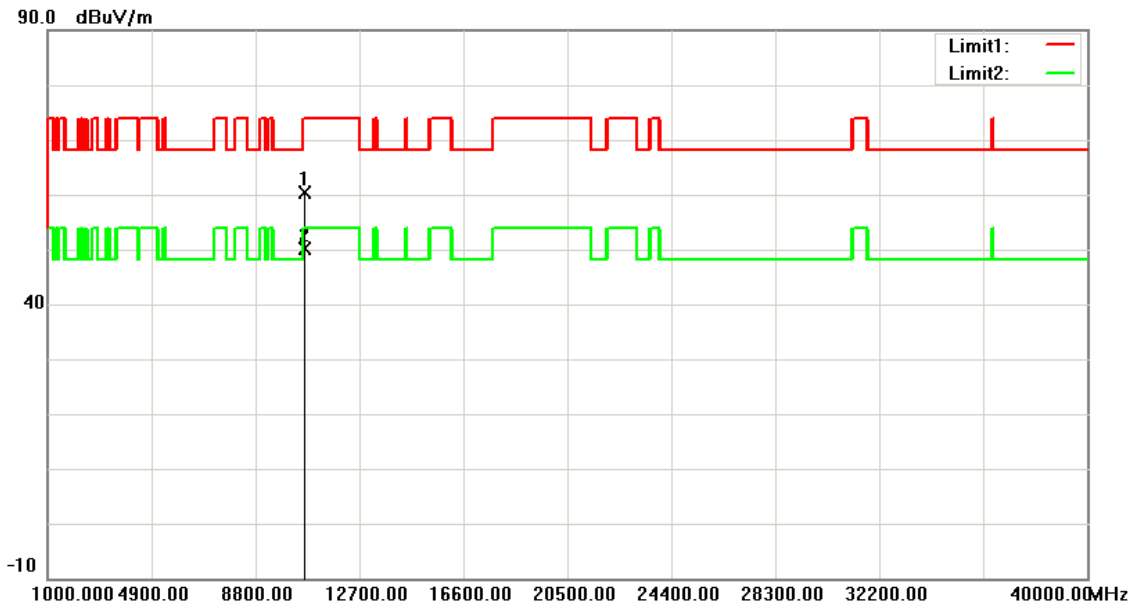
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	61.82	5.37	67.19	68.20	-1.01	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5320MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/07/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



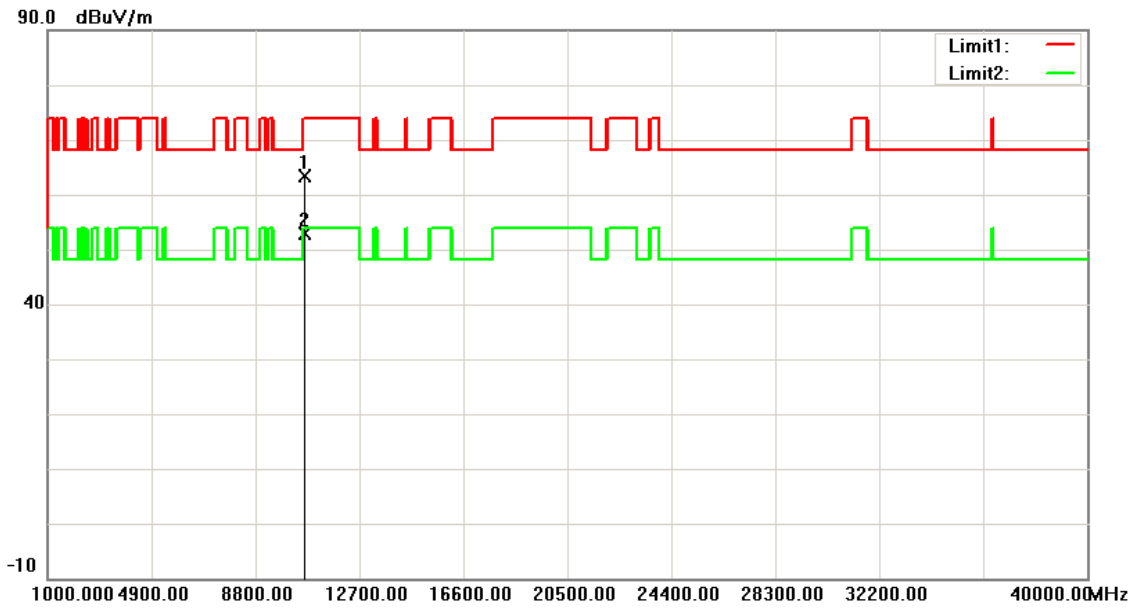
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	54.83	5.45	60.28	74.00	-13.72	peak
2	10640.000	44.57	5.45	50.02	54.00	-3.98	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5320MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/07/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



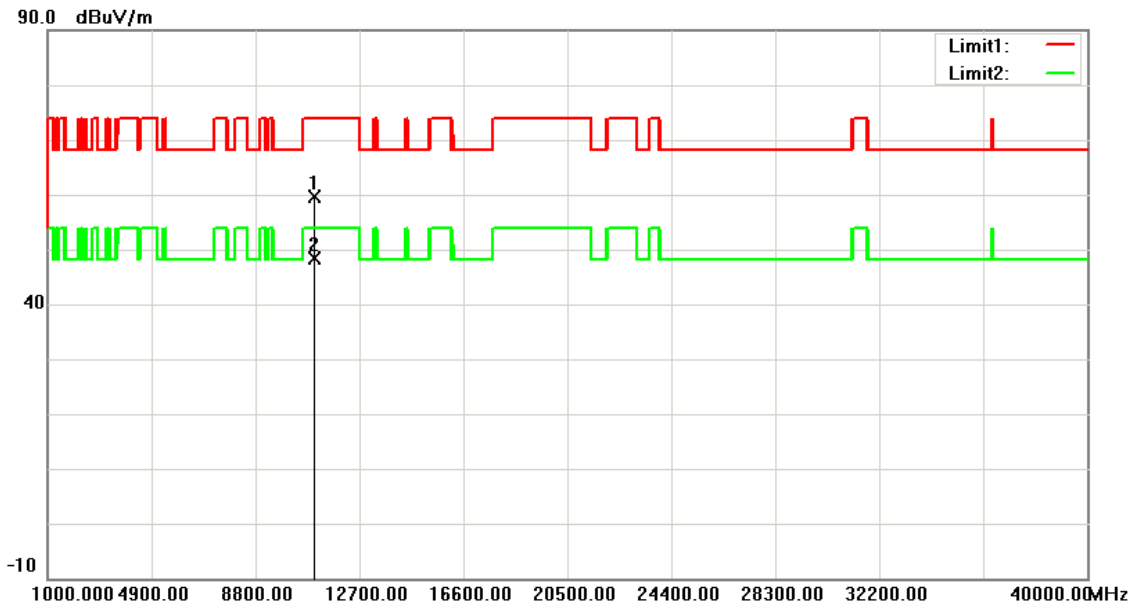
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	57.99	5.45	63.44	74.00	-10.56	peak
2	10640.000	47.50	5.45	52.95	54.00	-1.05	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5500MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/08/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



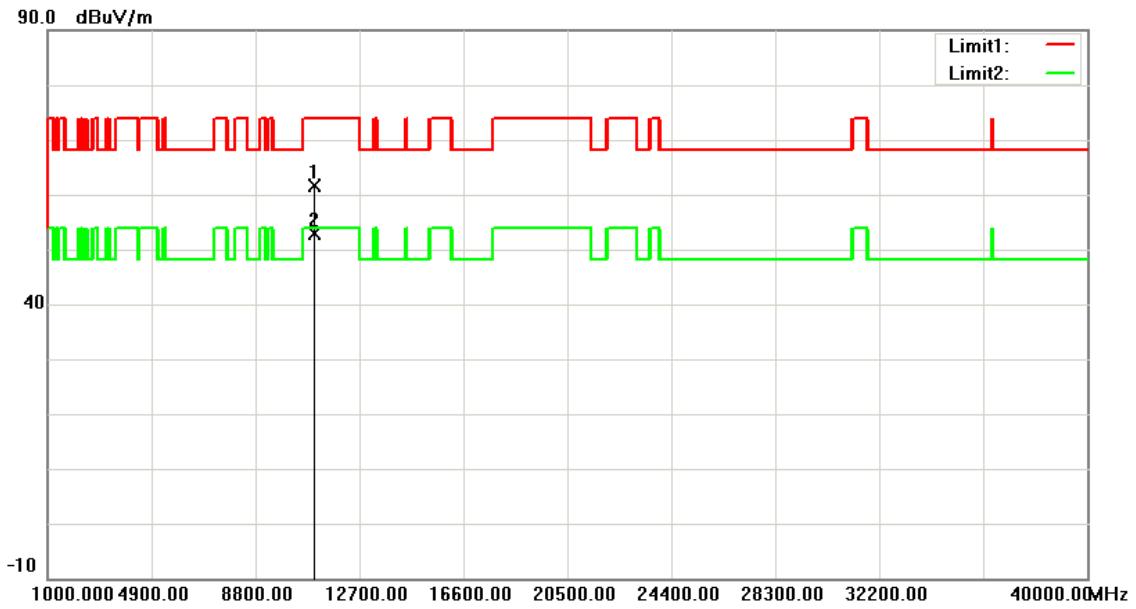
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	53.89	5.78	59.67	74.00	-14.33	peak
2	11000.000	42.67	5.78	48.45	54.00	-5.55	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5500MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/08/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



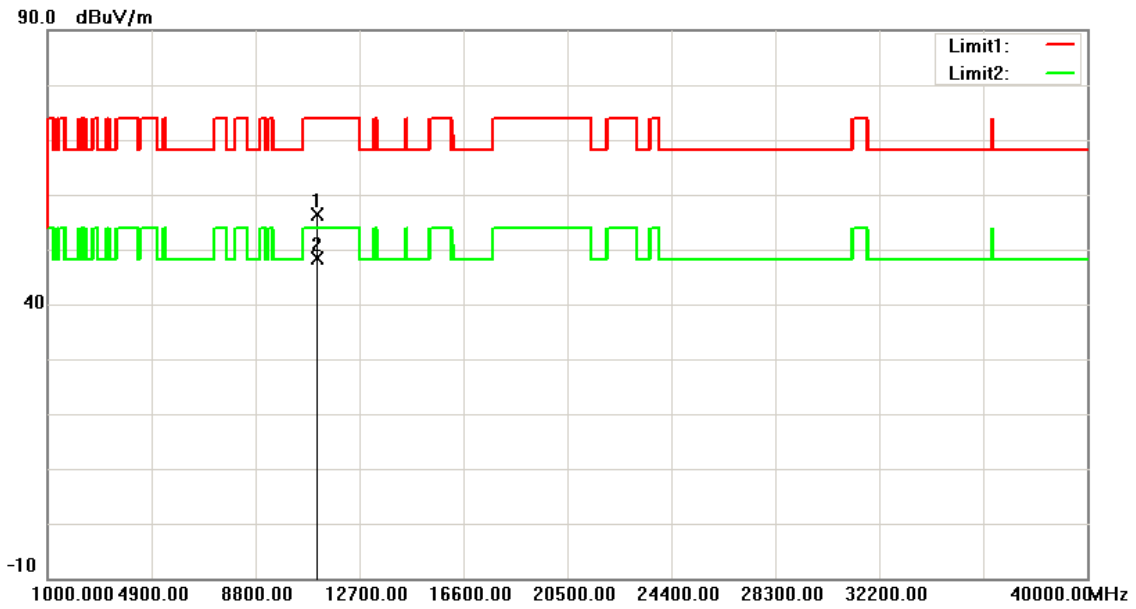
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	55.95	5.78	61.73	74.00	-12.27	peak
2	11000.000	47.16	5.78	52.94	54.00	-1.06	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5560MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/08/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



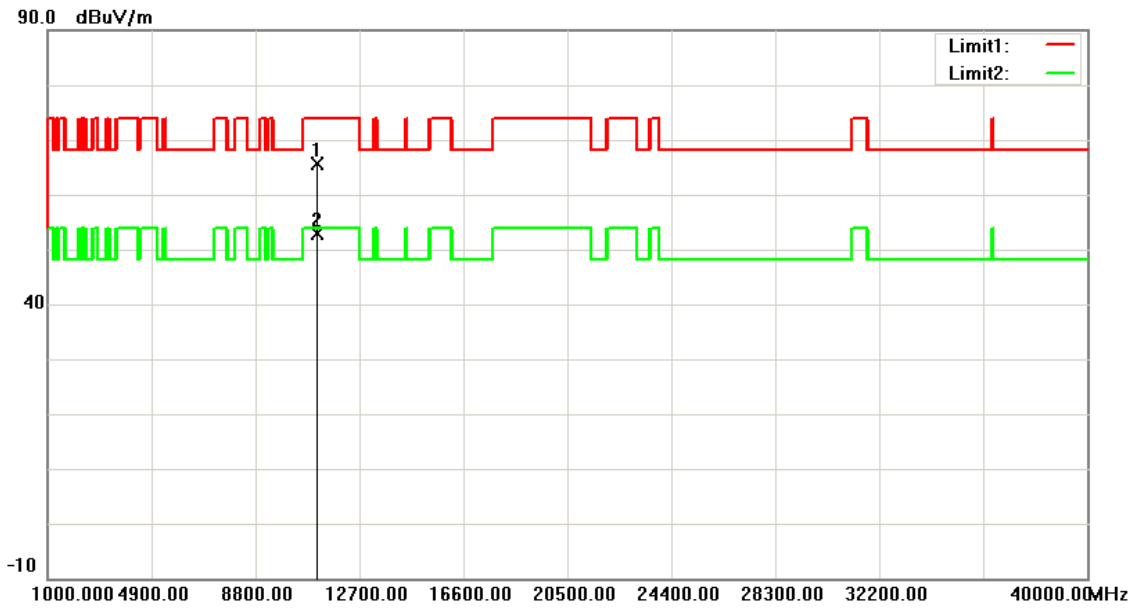
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	50.55	5.87	56.42	74.00	-17.58	peak
2	11120.000	42.43	5.87	48.30	54.00	-5.70	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5560MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/08/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



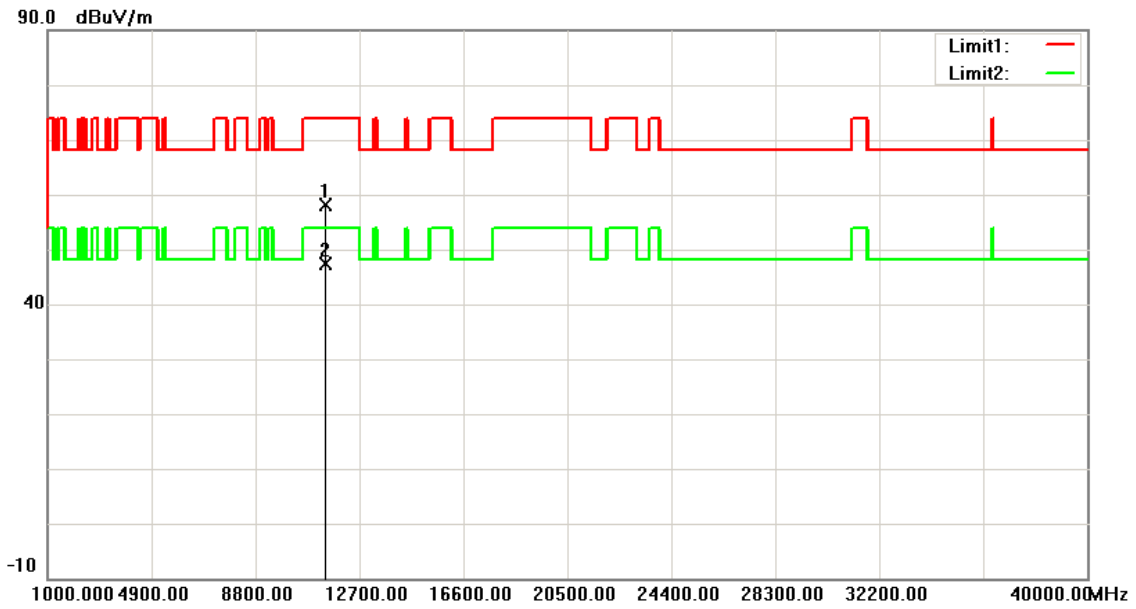
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	59.64	5.87	65.51	74.00	-8.49	peak
2	11120.000	46.89	5.87	52.76	54.00	-1.24	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5700MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/08/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



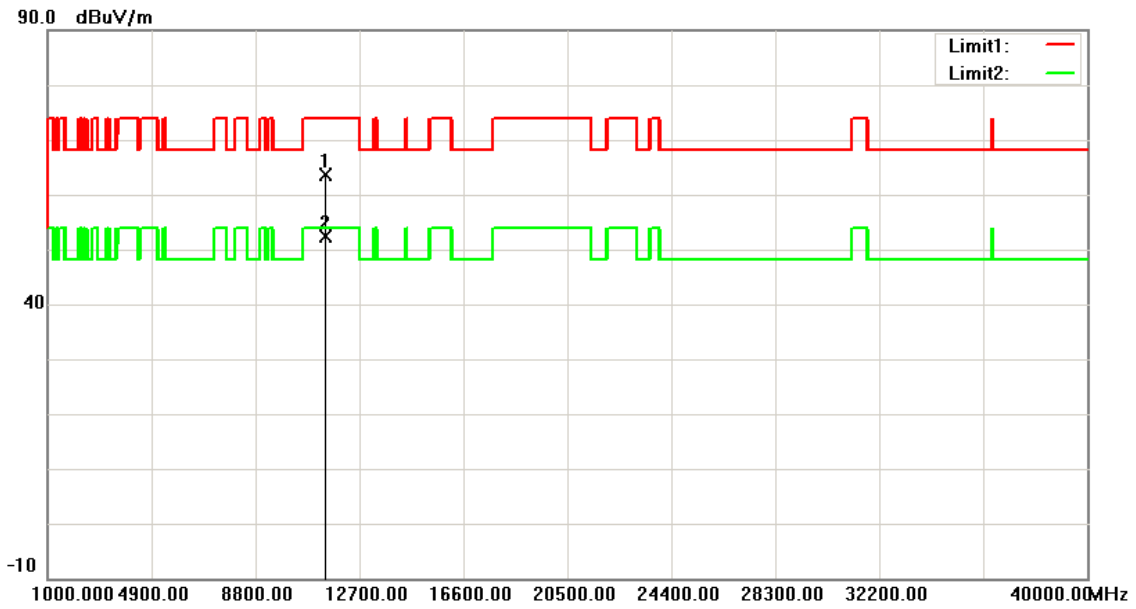
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	51.96	6.07	58.03	74.00	-15.97	peak
2	11400.000	41.30	6.07	47.37	54.00	-6.63	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5700MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	12/08/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



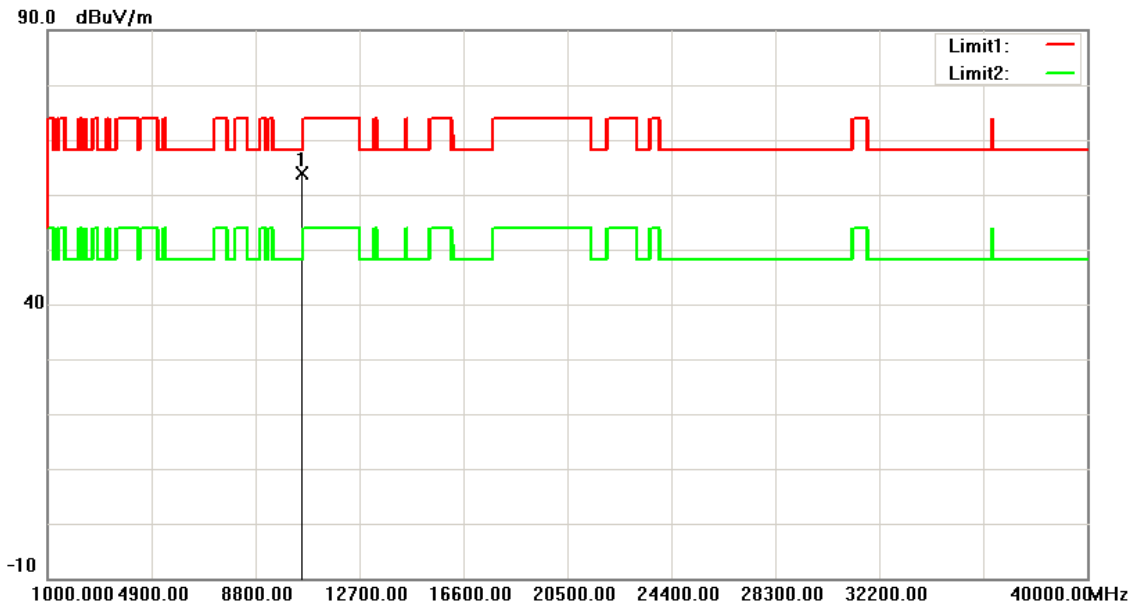
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	57.59	6.07	63.66	74.00	-10.34	peak
2	11400.000	46.41	6.07	52.48	54.00	-1.52	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5270MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/07/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



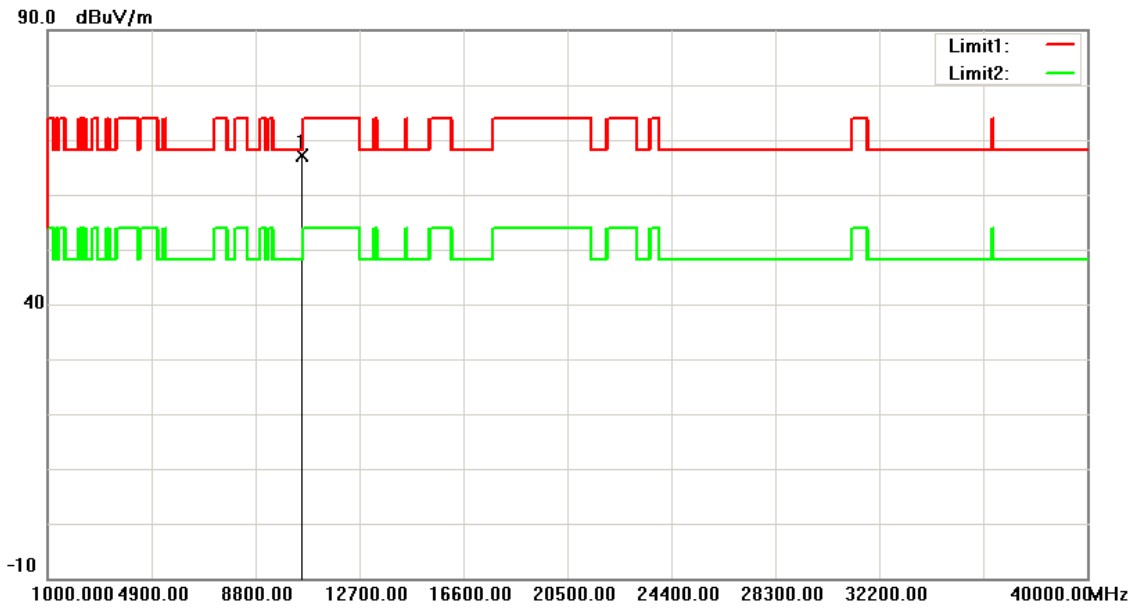
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	58.47	5.35	63.82	68.20	-4.38	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5270MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/07/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



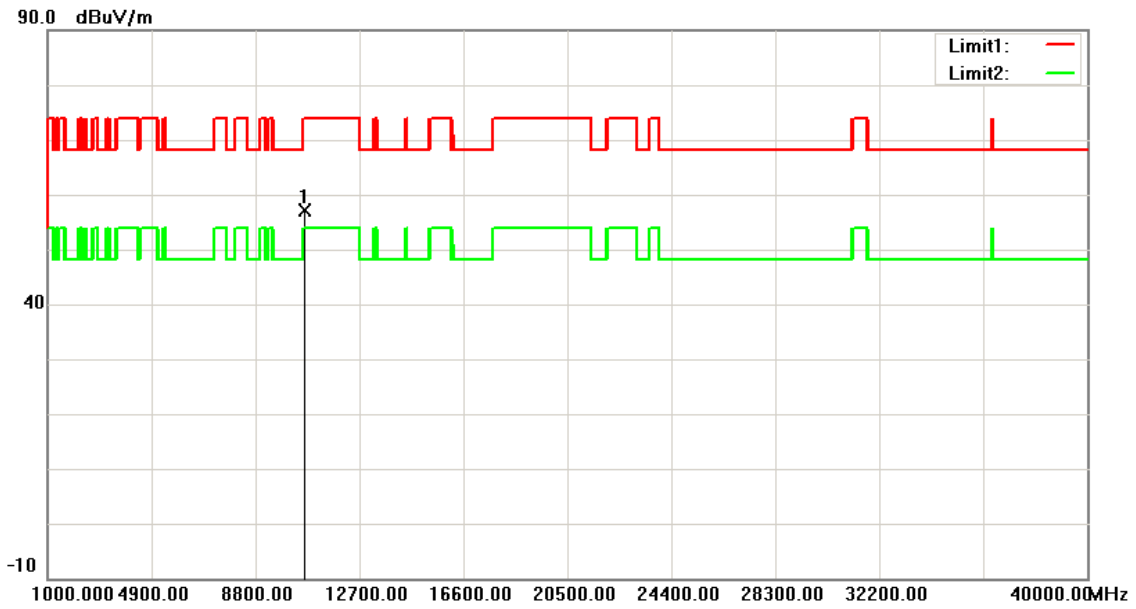
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	61.85	5.35	67.20	68.20	-1.00	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5310MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/07/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



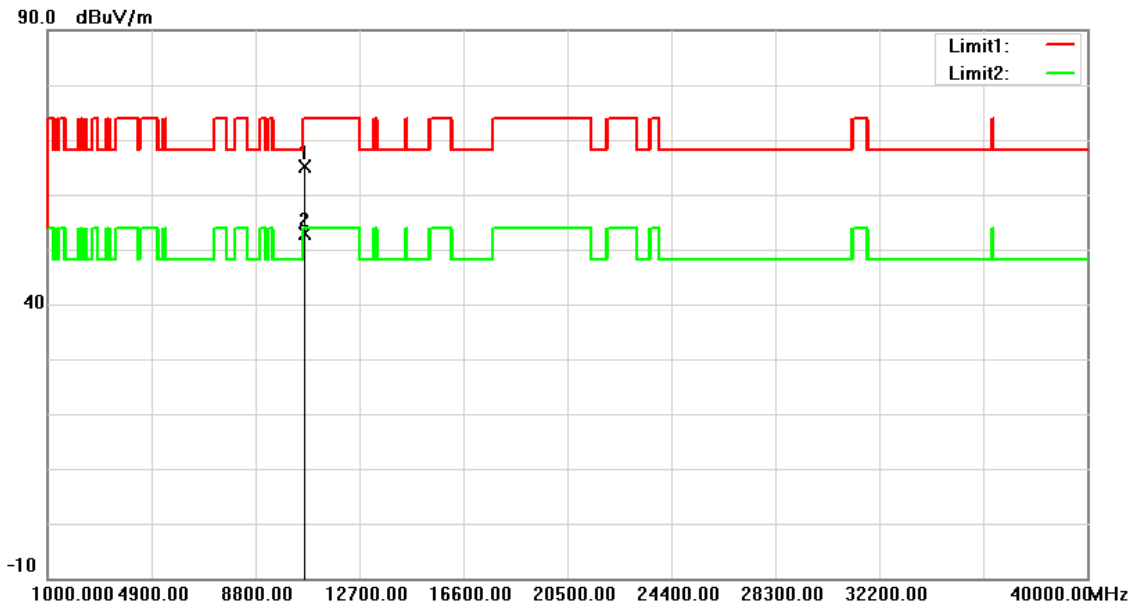
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	51.64	5.42	57.06	74.00	-16.94	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5310MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/07/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



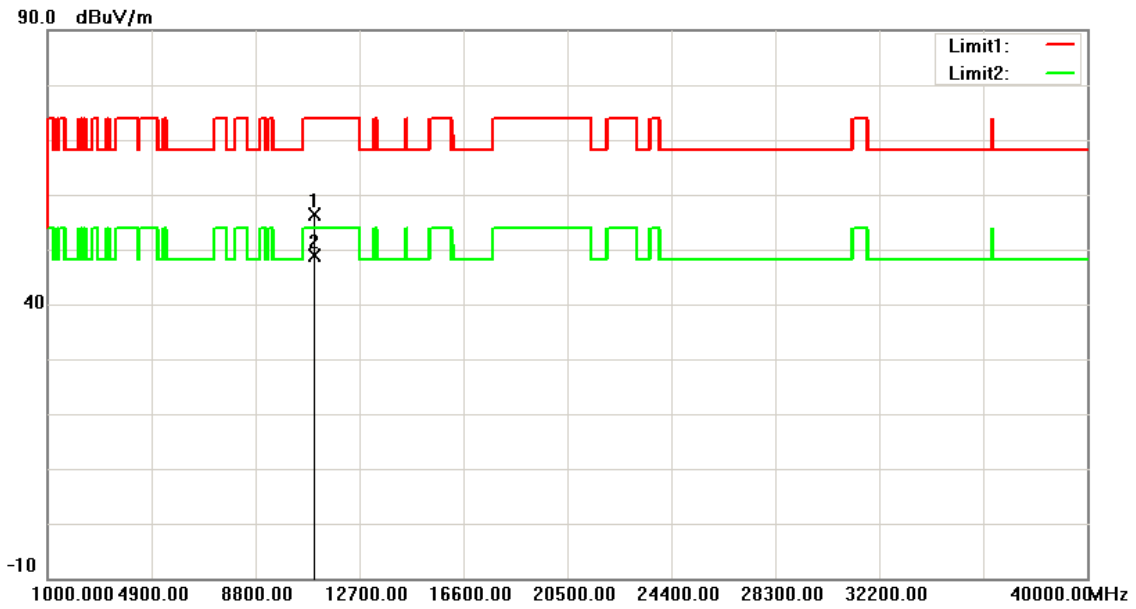
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	59.81	5.42	65.23	74.00	-8.77	peak
2	10620.000	47.50	5.42	52.92	54.00	-1.08	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5510MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/08/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



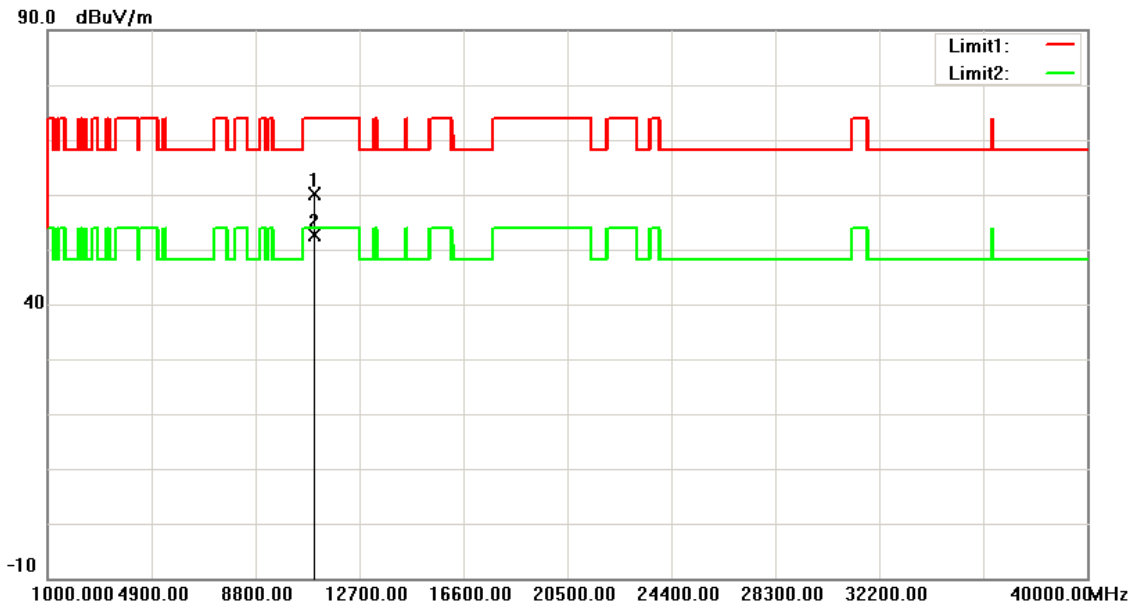
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	50.55	5.80	56.35	74.00	-17.65	peak
2	11020.000	43.04	5.80	48.84	54.00	-5.16	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5510MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/08/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



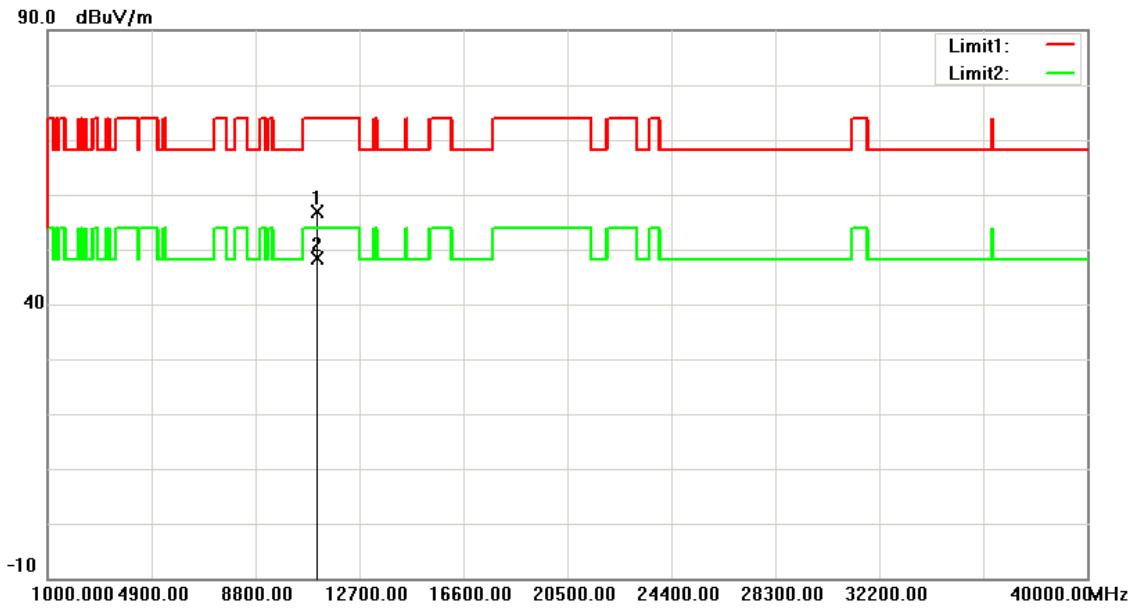
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	54.36	5.80	60.16	74.00	-13.84	peak
2	11020.000	46.72	5.80	52.52	54.00	-1.48	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5550MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/08/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



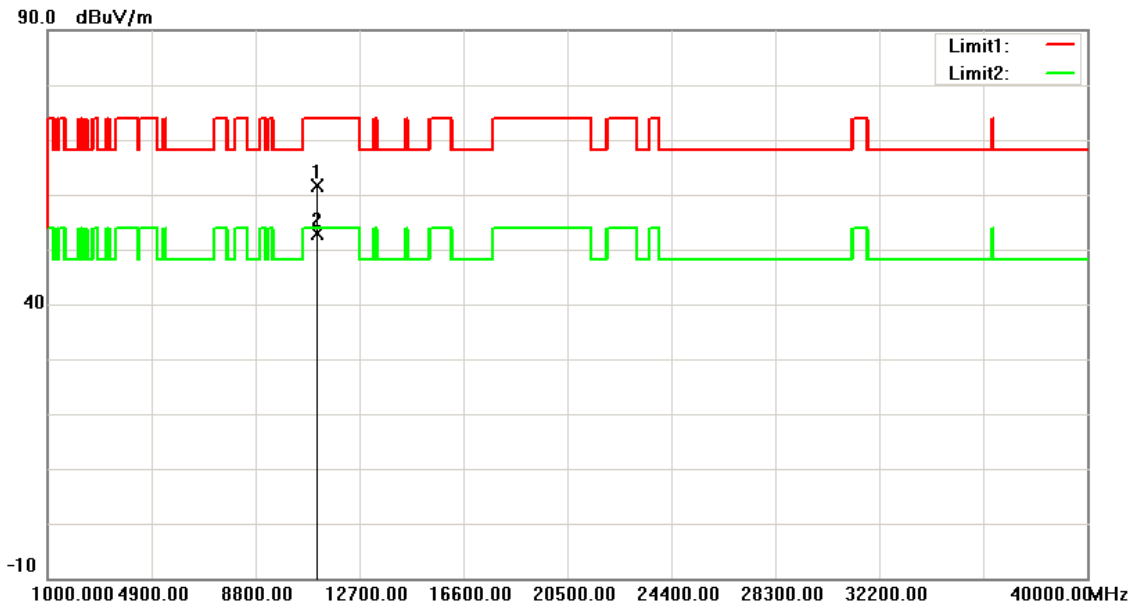
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11100.000	51.10	5.85	56.95	74.00	-17.05	peak
2	11100.000	42.63	5.85	48.48	54.00	-5.52	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5550MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/08/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



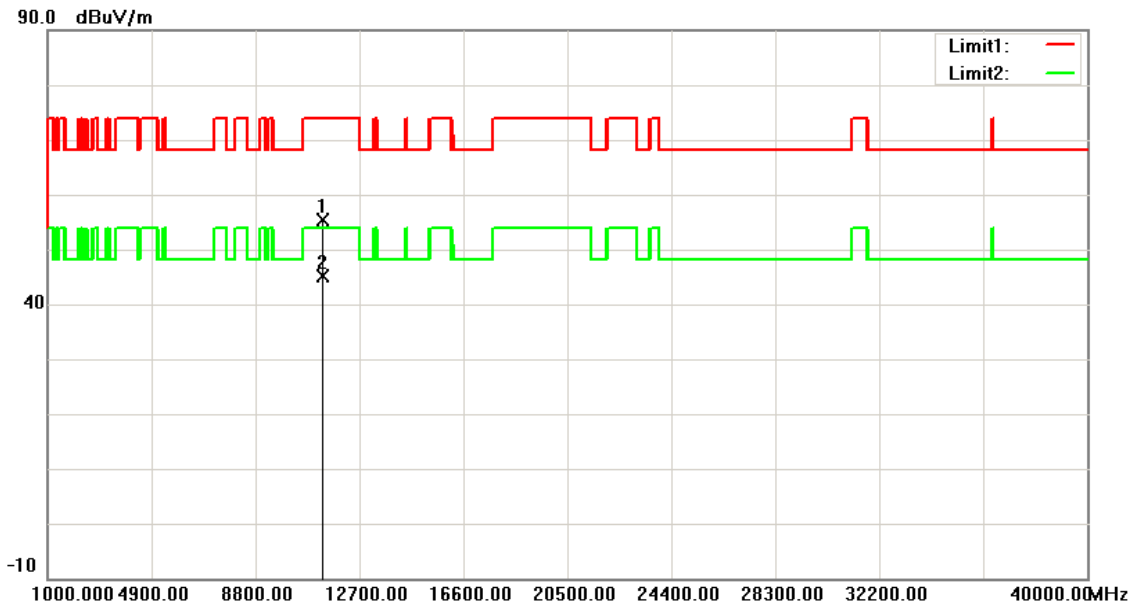
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11100.000	55.76	5.85	61.61	74.00	-12.39	peak
2	11100.000	47.15	5.85	53.00	54.00	-1.00	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5670MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/08/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



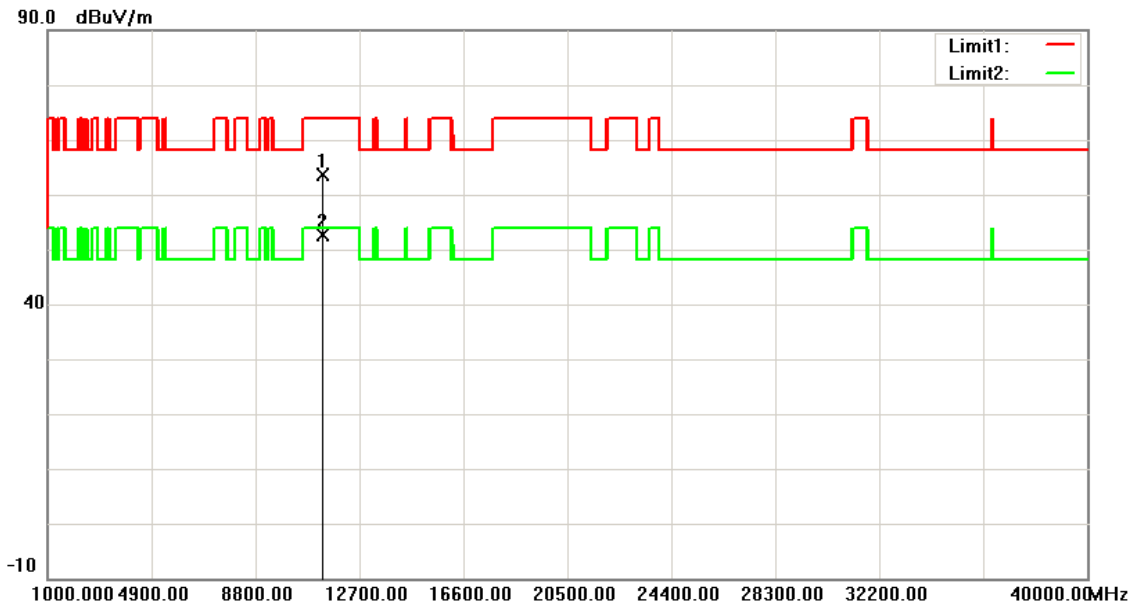
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	49.37	6.03	55.40	74.00	-18.60	peak
2	11340.000	39.02	6.03	45.05	54.00	-8.95	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5670MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	12/08/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



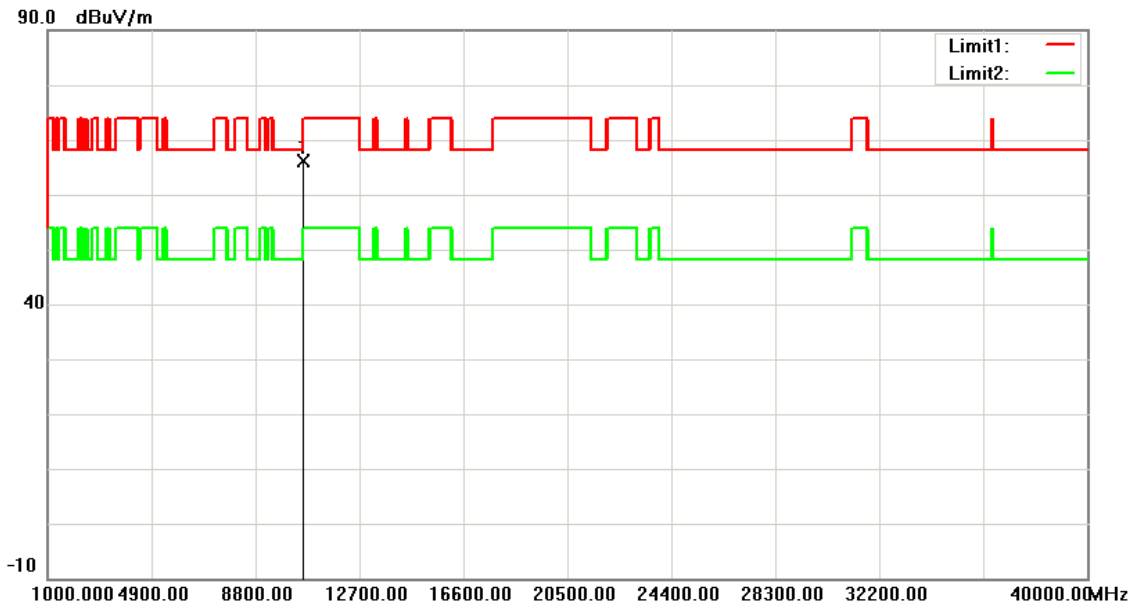
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	57.61	6.03	63.64	74.00	-10.36	peak
2	11340.000	46.56	6.03	52.59	54.00	-1.41	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5290MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 5	Date:	12/08/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



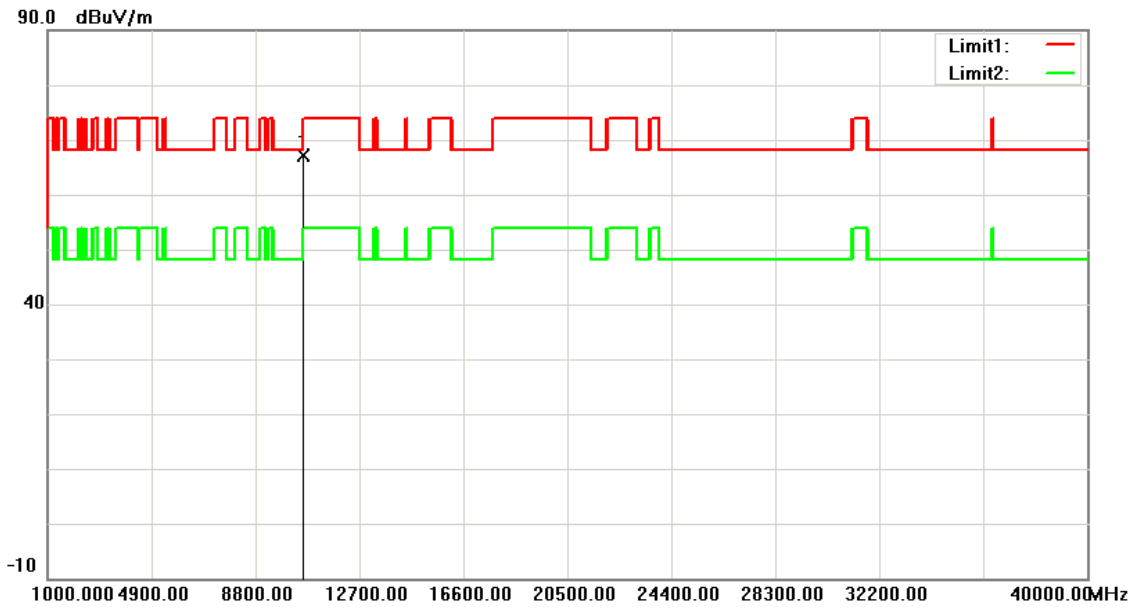
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	60.75	5.39	66.14	68.20	-2.06	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5290MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 5	Date:	12/08/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



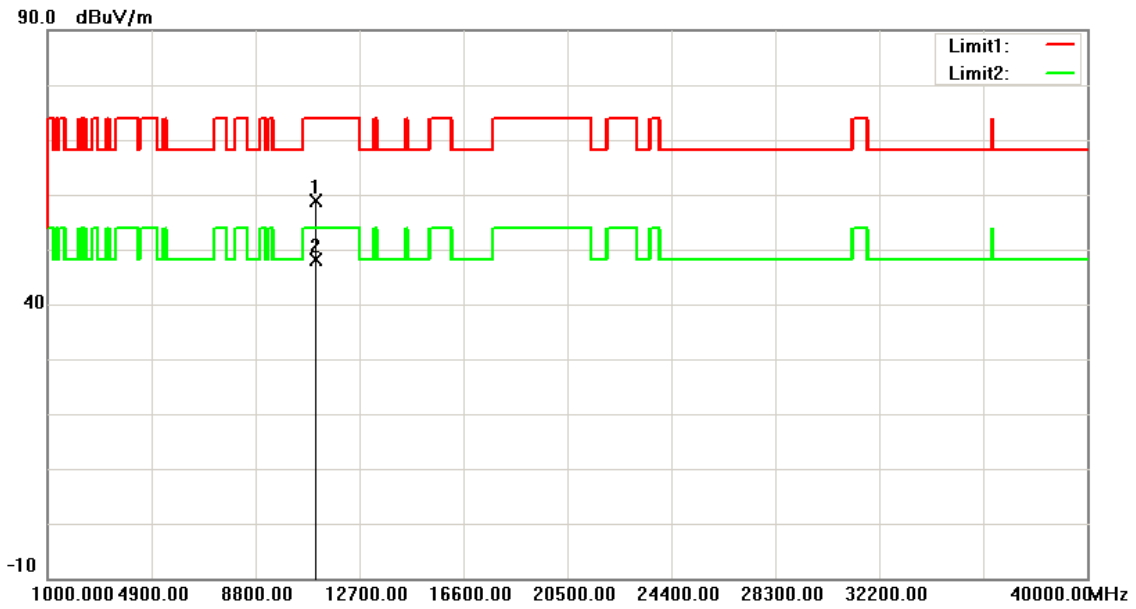
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	61.70	5.39	67.09	68.20	-1.11	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5530MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 5	Date:	12/08/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



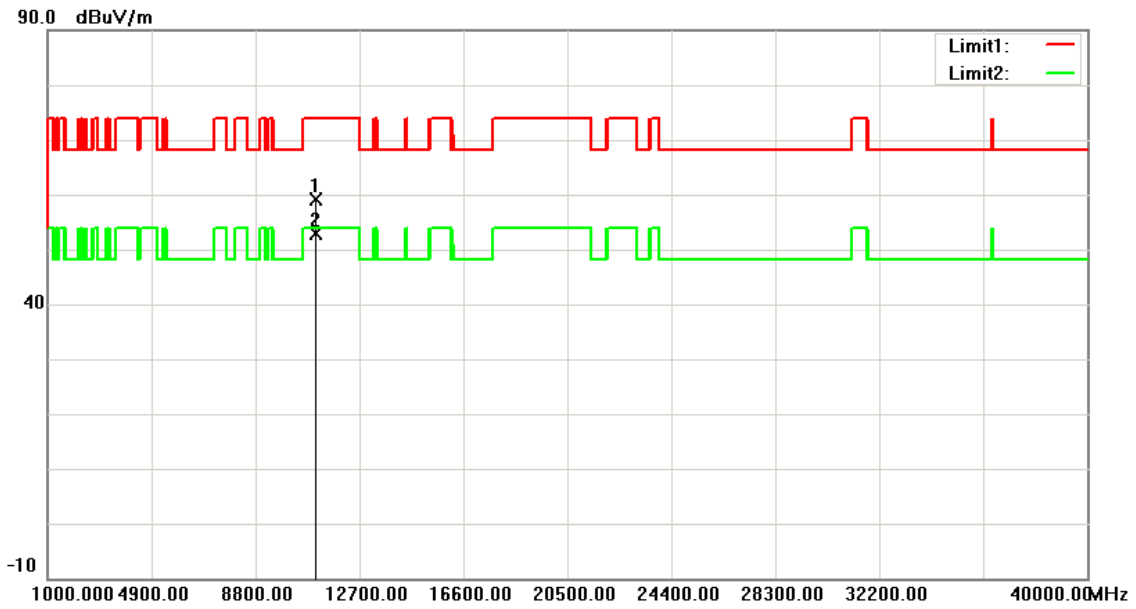
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	53.05	5.82	58.87	74.00	-15.13	peak
2	11060.000	42.27	5.82	48.09	54.00	-5.91	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 110V/60Hz
Frequency:	5530MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 5	Date:	12/08/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	53.31	5.82	59.13	74.00	-14.87	peak
2	11060.000	47.15	5.82	52.97	54.00	-1.03	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.