EMC TEST REPORT

Report No.: FCC2012-8032

Product: IP Phone

Model No.: GXP1160, GXP1165

Brand Name: Grandstream

Applicant: Grandstream Networks, INC

FCC ID: YZZGXP116X

Issued by: ShenZhen Electronic Product Quality Testing Center

Lab Location: Electronic Testing Building, Shahe Road, Xili, Nanshan District,

Shenzhen, 518055, P. R. China



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Test Report

	rest Report
Product:	IP Phone
Model No.	GXP1160, GXP1165
Applicant	Grandstream Networks, INC
Applicant Address	5F, Bldg #1, No.2 Kefa Rd., Science & Technology Park, Shenzhen, China
Manufacturer:	Grandstream Networks, INC
Manufacturer Address:	5F, Bldg #1, No.2 Kefa Rd., Science & Technology Park, Shenzhen, China
Test Standards:	<pre>FCC PART 15 《RADIO FREQUENCY DEVICES》</pre>
Test Result	PASS
Tested by	
	Zhu Q: Sept. 24, 2012 Signature, Date
Reviewed by	
	Shuangeven Zhang Sep. 24, 2012
	Signature, Date
Approved by	Smar (i Scp. 24, 2012

Signature, Date

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1 General Information

1.1 Description of EUT

Product: IP Phone

Model No.: GXP1160, GXP1165

Brand Name: Grandstream

Serial No.: 20EYZCPC7040E41B

GXP1165: DC 5V 800mA, DC 48V(POE)

Rating: GXP1160: DC 5V 800mA

PC, LAN(Support POE in model GXP1165)

I/O Ports: Headset, Handset

Accessories: Adaptor:

1#

Model:SCF0500080A1BA,SCF0500080E1BA,SCF0500080I1BA

Input: AC 100-240V, 50/60Hz, 0.15A

Output: DC 5.0V 0.8A

2#

Model:UE05L5-050080SPAU, UE05L5-050080SPAV

Input: AC 100-240V, 50/60Hz, 0.2A

Output: DC 5.0V 0.8A

Note:

- 1. Model GXP1160, GXP1165 IP Phone are general usage for information technology equipment. The model GXP1165 has POE (Power Over Ethernet) function. The models are identical except for POE function and ethernet transformer.
- 2. Adaptor 1# has three models, SCF0500080A1BA, SCF0500080E1BA and SCF0500080I1BA. The models are identical except for plug. Unless otherwise specified, all tests are performed on SCF0500080E1BA to represent other models. Adaptor 2# has two models, UE05L5-050080SPAU and UE05L5-050080SPAV. The models are identical except for plug. Unless otherwise specified, all tests are performed on UE05L5-050080SPAV to represent other models.

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2 Test Facilities and Configuration

2.1 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C - Humidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

2.2 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

- Uncertainty of Conducted Emission, Uc = ±1.8dB
- Uncertainty of Radiated Emission, Uc = ±5.0dB

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2.3 Measurement Equipments Used

Description Manufacturer		Model No.	Calibration Date	Serial No.
Test Receiver	ROHDE&SCHWARZ	ESCS30	Jun.10, 2012	A0304260
LISN	ROHDE&SCHWARZ	ESH2-Z5	Jun.10, 2012	A0304221
Shield Room	Nanbo Tech	RF-2 10.5×5×3.2 (m)	Jan 17, 2012	A0301188
Ultra-Broadband Ant.	SCHWARZBECK	VULB 09160	Jun.10, 2012	A0805560
Horn Antenna	ROHDE&SCHWARZ	HF906	Jun.10, 2012	1
Test Receiver	ROHDE&SCHWARZ	ESU8	Jun.10, 2012	A0805559
Semi-Anechoic Chamber	Albatross	SAC-10MAC19. 6*11.8*8.55m	Jun.10, 2012	A0802520

NOTE: Equipments above have been calibrated and are in the period of validation.

3 Summary of Test Results

The EUT has been tested according to the following specifications:

EMISSION							
Standard	Test Type	Result					
FCC PART 15, Class B	Conducted Disturbance at Mains Terminals	PASS					
recrari 13, class b	Radiated disturbance	PASS					

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4 Emission Test

4.1 EUT Setup and Operation

No.	Power supply	Test Mode
Mode 1	DC 5V(Adaptor 1#)	IP Call
Mode 2	DC 48V (POE)	IP Call
Mode 3	DC 5V(Adaptor 2#)	IP Call

The EUT of GXP1165 IP Phone was operating at mode 1, mode 2 and mode 3 during all the tests according to the requirement of the standard.

The EUT of GXP1160 IP Phone was operating at mode 1 and mode 3 during all the tests according to the requirement of the standard.

The EUT and cables, and operation modes were configured to produce the maximum level of emissions for each test.

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4.2 Conducted Disturbance at Mains Terminals

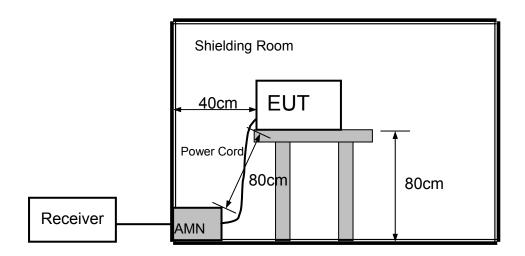
4.2.1 Limits

Frequency range	Limits (dBμV), Class B ITE					
(MHz)	Quasi-peak	Average				
0.15 - 0.50	66~56	56~46				
0.50 – 5	56	46				
5-30	60	50				

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.
- 3. If the quasi-peak value is lower than Average Limits, it is no necessary to conduct the average measurement.

4.2.2 Test Setup



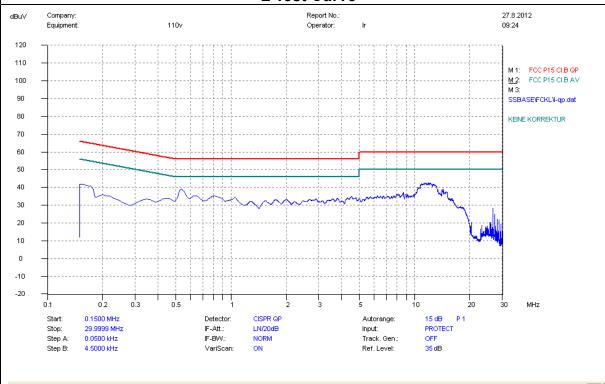
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4.2.3 Test Result

1, Conducted Disturbance at Mains Terminals

Conducted Disturbance at Mains Terminals											
	GXP1165 Mode 1 L Test Data										
		QP				AV					
Freque ncy (MHz)	Limits (dB _µ V)	Measure ment Value (dΒμV)	Margin (dB)	Freque ncy (MHz)	Limits (dBμV)	Measure ment Value (dB _µ V)	Margin (dB)				
0.5370	56	39.10	16.90	0.5370	46	Note(2)	1				
0.5550	56	37.56	18.44	0.5550	46	Note(2)	/				
10.7250	60	41.00	19.00	10.7250	50	Note(2)	/				
11.3415	60	42.60	17.40	11.3415	50	Note(2)	1				
12.6420	60	42.00	18.00	12.6420	50	Note(2)	1				
12.9795	60	40.95	19.05	12.9795	50	Note(2)	1				

L Test Curve



NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. If the emission levels measured with QP detector are lower than AV limits, there is unnecessary to measure with AV detector.

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Conducted Disturbance at Mains Terminals										
	GXP1165 Mode 1 N Test Data									
		QP				AV				
Freque ncy (MHz)	Limits (dBμV)	Measurem ent Value (dBμV)	Margin (dB)	Frequ ency (MHz)	Limits (dB _µ V)	Measure ment Value (dΒμV)	Margin (dB)			
0.5370	56	45.6	10.4	0.5370	46	Note(2)	1			
0.6270	56	41.3	14.7	0.6270	46	Note(2)	1			
0.7755	56	40.1	15.9	0.7755	46	Note(2)	1			
3.6555	56	40.2	15.8	3.6555	46	Note(2)	1			
3.8535	56	40.4	15.6	3.8535	46	Note(2)	1			
4.35750	56	40.2	15.8	4.3575	46	Note(2)	1			
			N Toot	21157.6						

N Test Curve Company: Report No. 27.8.2012 09:24 dBu∀ Equipment: 110v 120 110 M 1: FCC P15 CLB QP M 2: FCC P15 CI.B AV 100 M_3: SSBASE\FCKL\n-qp.dat 90 80 KEINE KORREKTUR 70 60 50 40 30 20 0 -10 15 dB PROTECT OFF 0.1500 MHz Stop: Step A: 29.9999 MHz IF-Att.: LN/20dB Input: 0.0500 kHz IF-BW: NORM Track, Gen.: 4.5000 kHz VariScan: 35 dB

NOTE:

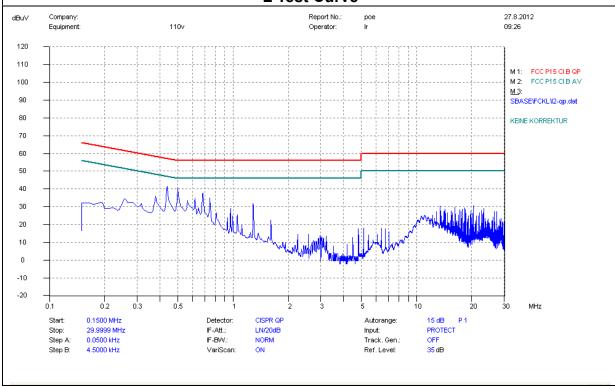
- 1. The lower limit shall apply at the transition frequencies.
- 2. If the emission levels measured with QP detector are lower than AV limits, there is unnecessary to measure with AV detector.

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GXP1165 Mode 2 L Test Data									
		QP				AV			
Freque ncy (MHz)	Limits (dBμV)	Measure ment Value (dΒμV)	Margin (dB)	Freque ncy (MHz)	Limits (dBμV)	Measure ment Value (dBμV)	Margin (dB)		
0.4335	57.2	40.17	17.03	0.4335	47.2	Note(2)	1		
0.5010	56	41.00	15.00	0.5010	46	Note(2)	1		
0.5100	56	33.48	22.52	0.5100	46	Note(2)	1		
0.6810	56	37.48	18.52	0.6810	46	Note(2)	1		
0.6855	56	37.78	18.22	0.6855	46	Note(2)	1		
0.6900	56	32.77	23.23	0.6900	46	Note(2)	1		
			I Tost (Curva					

Conducted Disturbance at Mains Terminals

L Test Curve



NOTE:

- The lower limit shall apply at the transition frequencies. 1
- If the emission levels measured with QP detector are lower than AV limits, there is 2 unnecessary to measure with AV detector.

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Conducted Disturbance at Mains Terminals										
GXP1165 Mode 2 N Test Data										
		QP				AV				
Freque ncy (MHz)	Limits (dBμV)	Measurem ent Value (dBμV)	Margin (dB)	Frequ ency (MHz)	Limits (dB _µ V)	Measure ment Value (dBμV)	Margin (dB)			
0.6450	56	45.70	10.30	0.6450	46	Note(2)	/			
0.9645	56	45.90	10.10	0.9645	46	Note(2)	1			
0.9950	56	45.59	10.41	0.9950	46	Note(2)	1			
1.2840	56	45.69	10.31	1.2840	46	Note(2)	1			
1.2885	56	45.80	10.20	1.2885	46	Note(2)	1			
4.8606	56	30.00	26.00	4.8606	46	Note(2)	1			
			N Test (Curve						

27.8.2012 Company: Report No.: dBu∀ 110v 09:36 120 M 1: FCC P15 CI.B QP M 2: FCC P15 CI.B AV 100 <u>M 3</u>: 90 SBASE\FCKL\n2-qp.dat 80 KEINE KORREKTUR 70 60 50 40 30 20 10 0 -10 -20 0.2 MHz 0.1500 MHz CISPR QP 15 dB Start: Detector: Autorange: IF-Att.: IF-BW: PROTECT OFF 35 dB Stop: Input: 0.0500 kHz NORM ON Track. Gen.: Step A: 4.5000 kHz Step B: VariScan: Ref. Level:

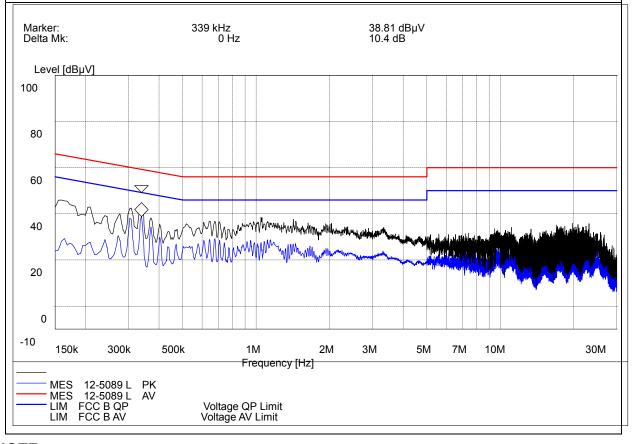
NOTE:

- 1 The lower limit shall apply at the transition frequencies.
- 2. If the emission levels measured with QP detector are lower than AV limits, there is unnecessary to measure with AV detector.

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	Conducted Disturbance at Mains Terminals									
	GXP1165 Mode 3 L Test Data									
		QP				AV				
Freque ncy (MHz)	Limits (dBμV)	Measure ment Value (dΒμV)	Margin (dB)	Freque ncy (MHz)	Limit s (dBµ V)	Measure ment Value (dΒμV)	Margin (dB)			
0.3030	60.2	40.70	19.50	0.3030	50.2	37.70	12.50			
0.3390	59.2	48.90	10.30	0.3390	49.2	38.90	10.30			
0.6765	56	35.40	20.60	0.6765	46	29.50	16.50			
1.0346	56	31.26	24.74	1.0346	46	20.56	25.44			
1.1568	56	30.46	25.54	1.1568	46	19.86	26.14			
2.0460	56	30.56	25.44	2.0460	46	20.42	25.58			

L Test Curve



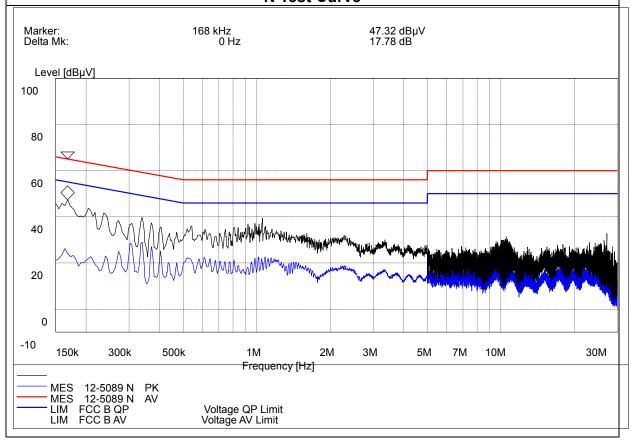
NOTE:

- 1 The lower limit shall apply at the transition frequencies.
- 2 If the emission levels measured with QP detector are lower than AV limits, there is unnecessary to measure with AV detector.

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Conducted Disturbance at Mains Terminals										
	GXP1165 Mode 3 N Test Data									
		QP				AV				
Freque ncy (MHz)	Limits (dBμV)	Measurem ent Value (dBμV)	Margin (dB)	Frequ ency (MHz)	Limits (dBμV)	Measure ment Value (dΒμV)	Margi n (dB)			
0.1680	65.1	41.30	23.80	0.1680	55.1	23.90	31.20			
0.3390	60	37.30	22.70	0.3390	50	29.50	20.50			
0.8044	56	30.20	25.80	0.8044	46	28.80	17.20			
0.9036	56	30.50	25.50	0.9036	46	29.60	26.40			
1.0545	56	30.80	25.20	1.0545	46	20.60	25.40			
1.0695	56	29.80	26.20	1.0695	46	20.40	25.60			

N Test Curve



NOTE:

- 1 The lower limit shall apply at the transition frequencies.
- 2 If the emission levels measured with QP detector are lower than AV limits, there is unnecessary to measure with AV detector.

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		Conducted [GXP1		1 L Test I			
	(QP				AV	
Freque ncy (MHz)	Limits (dBμV)	Measure ment Value (dΒμV)	Margin (dB)	Freque ncy (MHz)	Limits (dB _µ V)	Measure ment Value (dBμV)	Margir (dB)
0.5100	56	44.60	11.40	0.5100	46	Note(2)	1
0.5190	56	45.33	10.67	0.5190	46	Note(2)	/
0.5550	56	43.37	16.63	0.5550	46	Note(2)	/
5.4970	60	40.20	19.80	5.4970	50	Note(2)	1
5.5880	60	40.10	19.90	5.5880	50	Note(2)	/
5.5990	60	40.00	20.00	5.5990	50	Note(2)	/
			L Test	Curve			
dBuV Company: Equipmen		FCC		eport No.: perator: ZK		20.9.2012 14:07	
90						M 2: FCC M 3:	: P15 CI.B QP : P15 CI.B AV CKL'IL-qp.dat REKTUR
70 —							
30							
0							
-20	0.2 0.3					20 30 MHz	

NOTE:

0.1500 MHz

0.1000 kHz 4.5000 kHz

29.9999 MHz

Start:

Stop:

Step A: Step B:

1 The lower limit shall apply at the transition frequencies.

Detector:

IF-Att.:

IF-BW: VariScan:

2 If the emission levels measured with QP detector are lower than AV limits, there is unnecessary to measure with AV detector.

Autorange:

Input: Track. Gen.:

Ref. Level:

15 dB P 1

PROTECT OFF 35 dB

CISPR QP

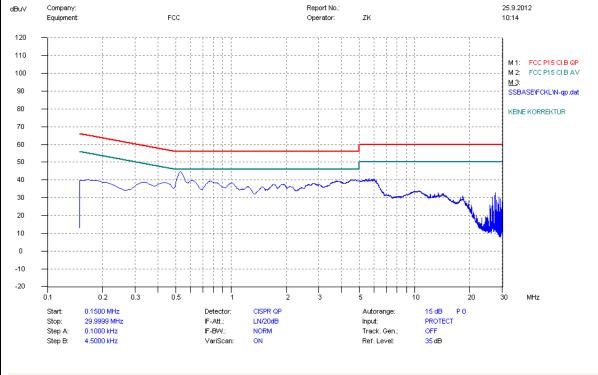
LN/20dB

NORM ON

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	(Conducted D	isturbanc	e at Main	s Termina	ıls	
		GXP1	160 Mode	1 N Test	Data		
		QP	AV				
Freque ncy (MHz)	Limits (dBμV)	Measurem ent Value (dBμV)	Margin (dB)	argin ency (dBμV) Value		Measure ment Value (dΒμV)	Margin (dB)
0.5190	56	43.46	42.54	0.5190	46	Note(2)	/
0.5325	56	44.75	11.25	0.5325	46	Note(2)	/
0.5505	56	42.17	13.83	0.5505	46	Note(2)	1
5.3970	60	40.30	19.70	5.3970	50	Note(2)	1
5.4870	60	40.00	20.00	5.4870	50	Note(2)	1
5.4960	60	40.00	20.00	5.4960	50	Note(2)	1
			N Test (Curve			

Report No.:



NOTE:

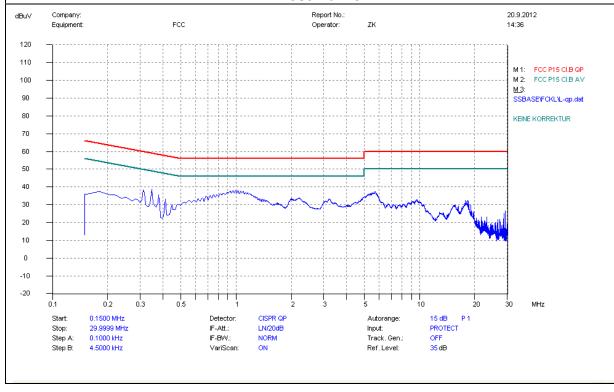
- The lower limit shall apply at the transition frequencies.
- If the emission levels measured with QP detector are lower than AV limits, there is 2 unnecessary to measure with AV detector.

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	GXP1160 Mode 3 L Test Data												
		QP		AV									
Freque ncy (MHz)	Limits (dBμV)	Measure ment Value (dΒμV)	Margin (dB)	Freque ncy (MHz)	Limits (dBμV)	Measure ment Value (dBμV)	Margin (dB)						
0.7170	56	35.09	10.91	0.7170	46	Note(2)	1						
0.7215	56	35.40	10.60	0.7215	46	Note(2)	1						
0.7485	56	35.44	10.56	0.7485	46	Note(2)	1						
0.9915	56	37.99	18.01	0.9915	46	Note(2)	1						
5.7030	60	37.24	22.76	5.7030	50	Note(2)	1						
5.7075	60	37.37	22.63	5.7075	50	Note(2)	1						

Conducted Disturbance at Mains Terminals

L Test Curve



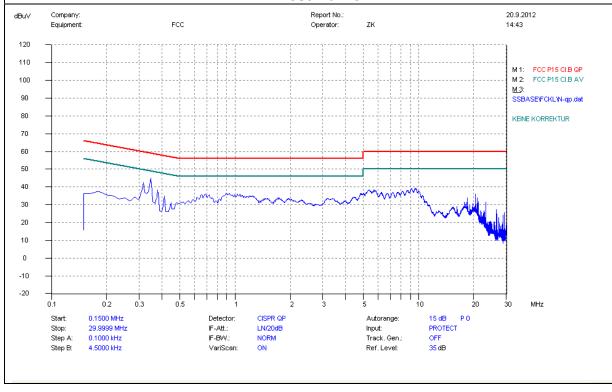
NOTE:

- 1 The lower limit shall apply at the transition frequencies.
- 2 If the emission levels measured with QP detector are lower than AV limits, there is unnecessary to measure with AV detector.

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		Conducted D	isturbanc	e at Main	s Termina	ıls	
		GXP1	160 Mode	3 N Test	Data		
		QP		AV			
Freque ncy (MHz)	Limits (dBμV)	Measurem ent Value (dBμV)	Margin (dB)	Frequ ency (MHz)	ency (dBuV) Value		Margin (dB)
0.3165	59.8	42.50	17.30	0.3165	49.8	Note(2)	1
0.3480	59	44.90	14.10	0.3480	49	Note(2)	1
4.8525	56	36.30	19.70	4.8525	46	Note(2)	1
5.1945	60	37.00	23.00	5.1945	50	Note(2)	1
5.3340	60	38.30	21.70	5.3340	50	Note(2)	1
5.5140	60	37.10	22.90	5.5140	50	Note(2)	1
			N Test (Curve			

n lest curve



NOTE:

- The lower limit shall apply at the transition frequencies.
- If the emission levels measured with QP detector are lower than AV limits, there is unnecessary to measure with AV detector.

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4.3 Radiated Disturbance Measurement

4.3.1 Limits of Radiated Disturbance

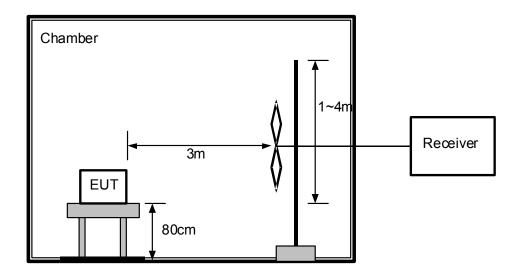
The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values.

Frequency of Emission (MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)
30 - 88	100	40
88 -216	150	43.5
216 - 960	200	46
Above 960	500	54

NOTE:

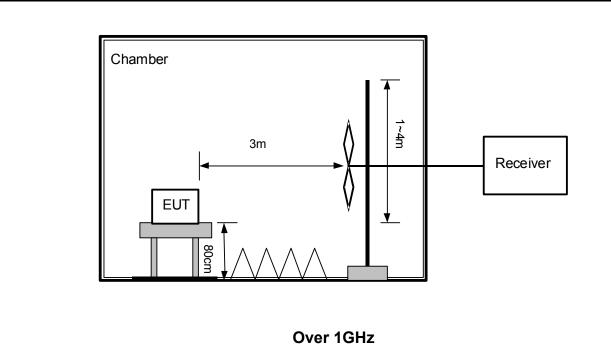
- 1. Field Strength ($dB\mu V/m$)=20log Field Strength ($\mu V/m$).
- 2. In the emission tables above, the tighter limit applies at the band edges.

4.3.2Test Setup



Below 1GHz

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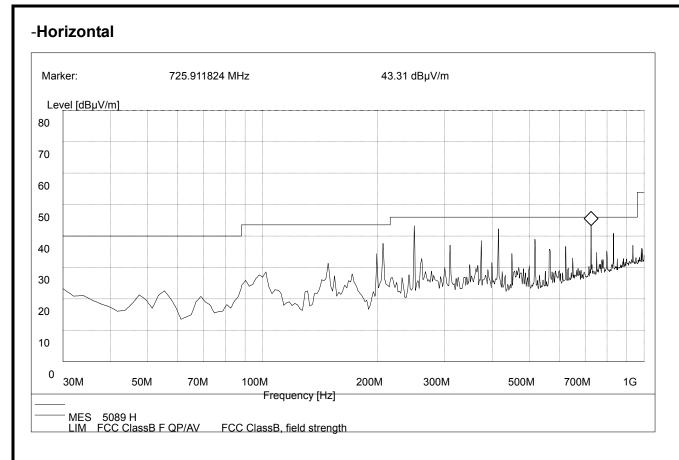
4.3.3 Test Result

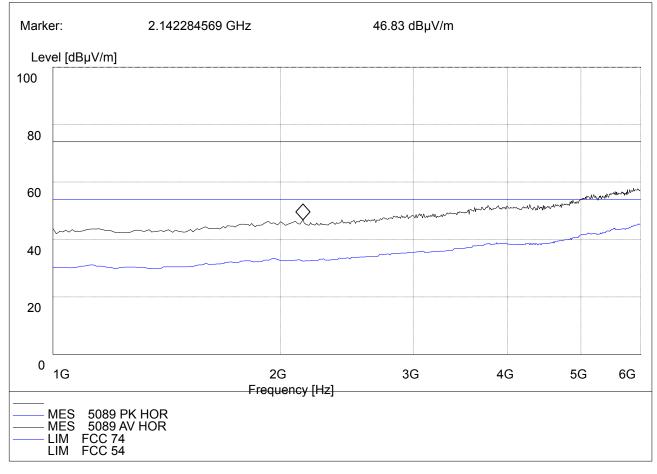
1. Radiated Emission Test data GXP1165 Mode 1

No.	Frequency (MHz)	Antenna Polarization	Antenna Height (cm)	Table Angle (Degree)	QP Limits (dBμV/m)	Emission Level (dBµV/m)
1	250.01	Н	150	0	46	43.85
2	414.73	Н	150	0	46	43.72
3	725.75	Н	150	0	46	42.95
4	47.81	V	100	0	40	36.24
5	98.51	V	100	0	43.5	31.26
6	622.09	V	100	0	46	42.39

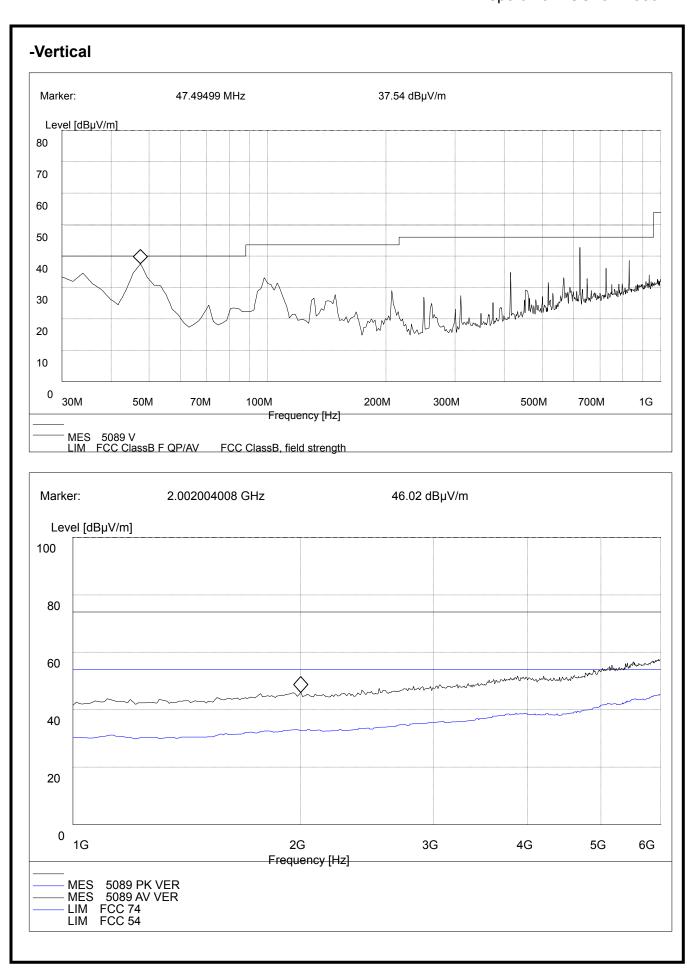
No.	Frequency (MHz)	/ Antenna		Limit (dB		Emissi Level (
	(1411 12)	1 Old 12dtion	(cm)	(Degree)	PK	AV	PK	AV
1	1000-6000	Н	100-400	0-360	74	54	<60	<45
2	1000-6000	V	100-400	0-360	74	54	<60	<45

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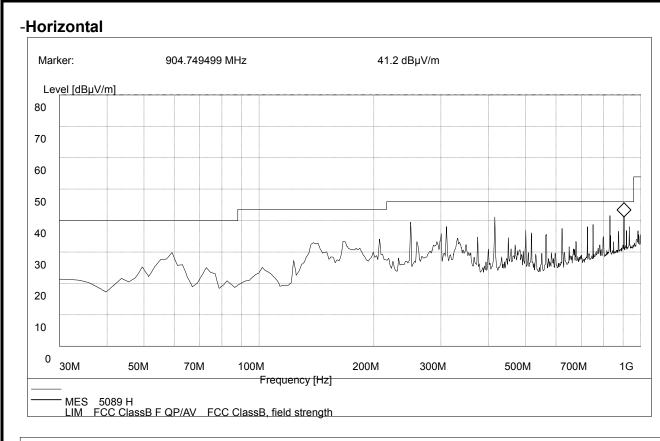
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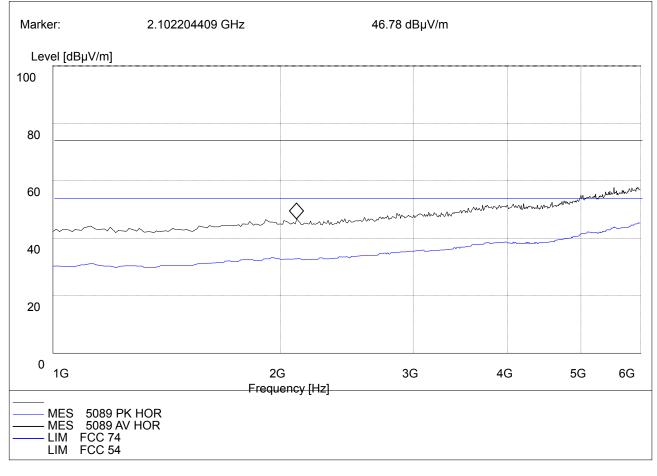
GXP1165 Mode 2

No.	Frequency (MHz)	Antenna Polarization	Antenna Height (cm)	Table Angle (Degree)	QP Limits (dBμV/m)	Emission Level (dB _µ V/m)
1	247.15	Н	150	0	46	38.11
2	412.54	Н	150	0	46	39.89
3	904.54	Н	150	0	46	38.65
4	33.84	V	100	0	40	33.27
5	47.74	V	100	0	40	34.78
6	166.67	V	100	0	43.5	36.05

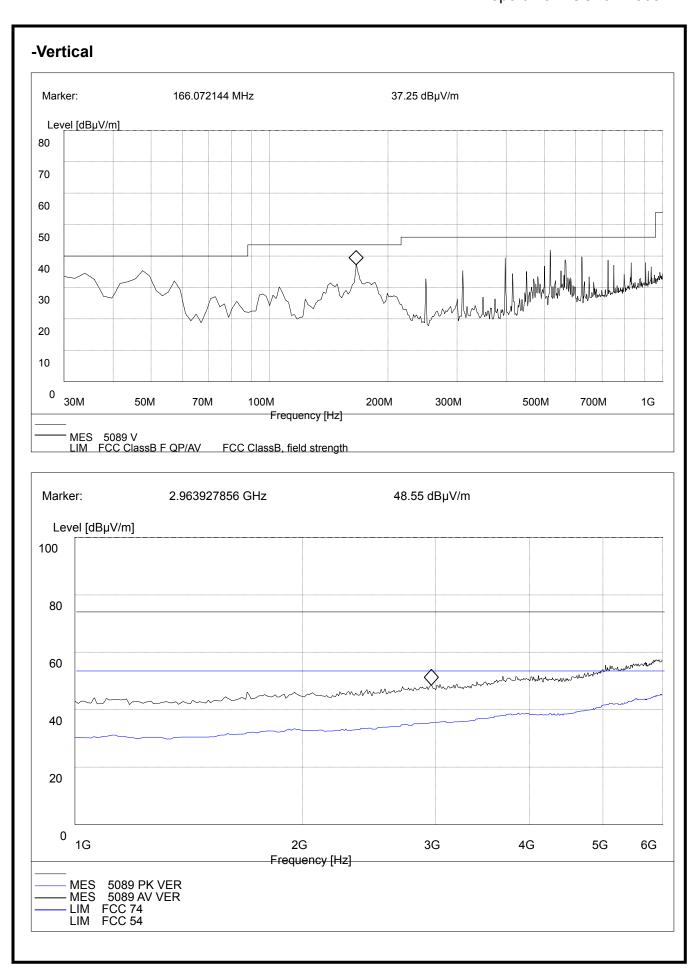
No.	Frequency (MHz)	Antenna Polarization	Antenna Height	Table Angle		Limit Value (dB _µ V)		Emission Level (dBμV)	
	(111112)	· olarization	(cm)	(Degree)	PK	AV	PK	AV	
1	1000-6000	Н	100-400	0-360	74	54	<60	<45	
2	1000-6000	V	100-400	0-360	74	54	<60	<45	

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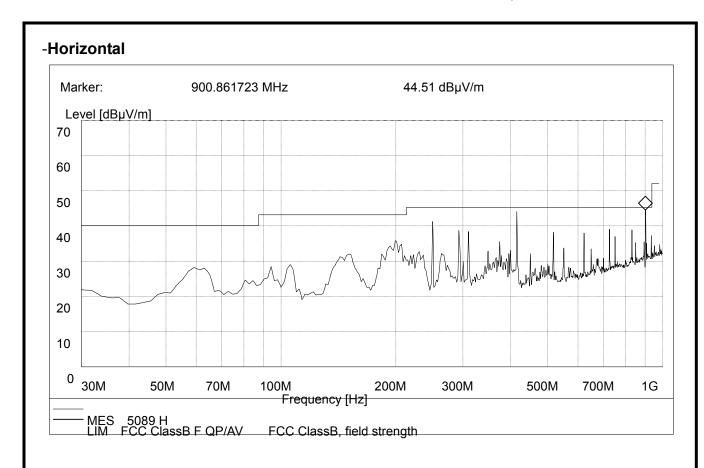
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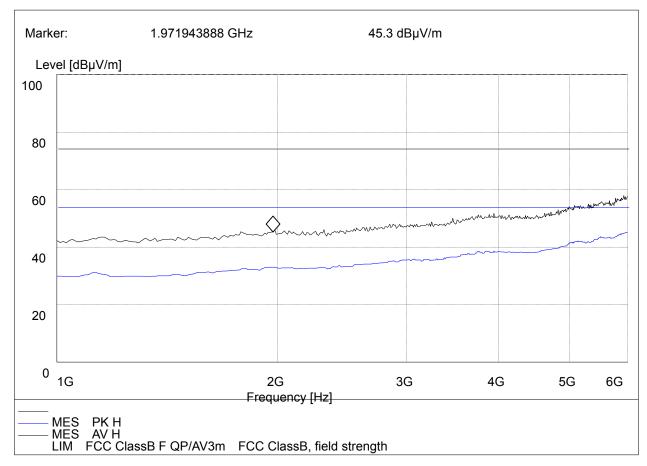
GXP1165 Mode 3

No.	Frequency (MHz)	Antenna Polarization	Antenna Height (cm)	Table Angle (Degree)	QP Limits (dB _μ V/m)	Emission Level (dBµV/m)
1	249.99	Н	150	0	46	39.87
2	407.34	Н	150	0	46	41.26
3	900.02	Н	150	0	46	43.26
4	34.65	V	100	0	40	36.00
5	51.84	V	100	0	40	36.54
6	119.70	V	100	0	43.5	36.64

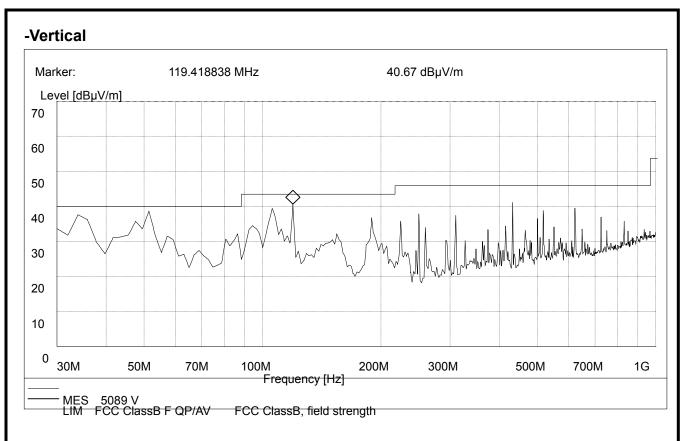
No.	Frequency (MHz)	Antenna Polarization	Antenna Height (cm)	Table Angle (Degree)	Limit Value (dΒμV)		Emission Level (dB _µ V)	
	(1411 12)				PK	AV	PK	AV
1	1000-6000	Н	100-400	0-360	74	54	<60	<45
2	1000-6000	V	100-400	0-360	74	54	<60	<45

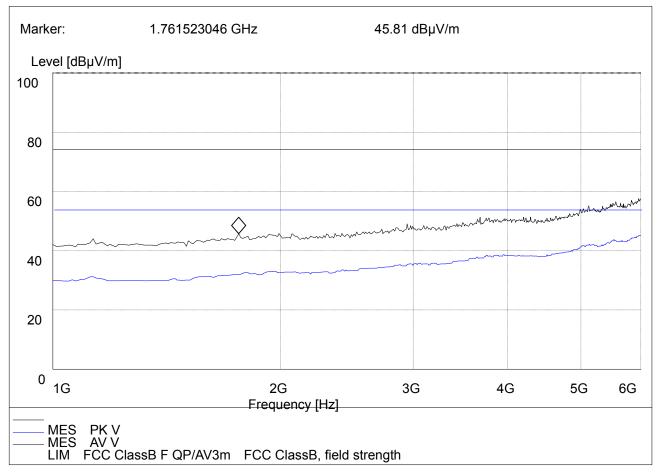
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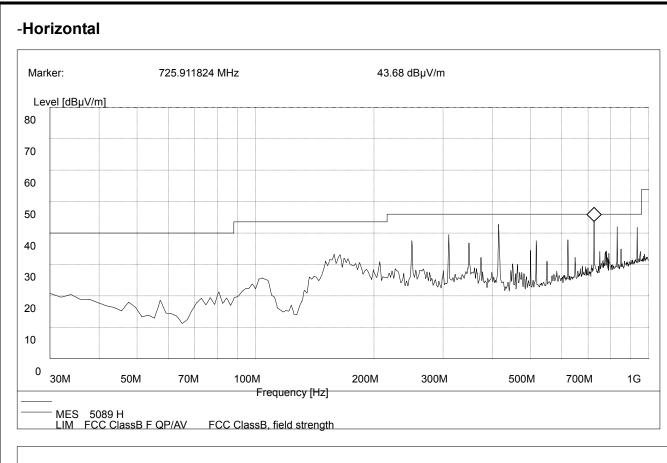
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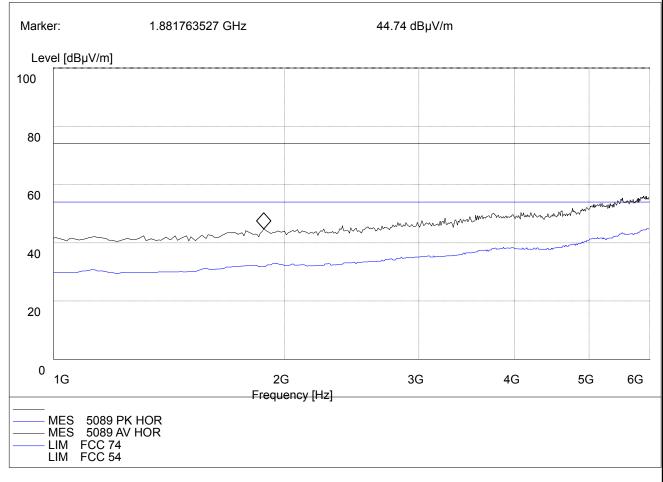
GXP1160 Mode 1

No.	Frequency (MHz)	Antenna Polarization	Antenna Height (cm)	Table Angle (Degree)	QP Limits (dBμV/m)	Emission Level (dB _µ V/m)
1	306.98	Н	150	0	46	39.73
2	414.71	Н	150	0	46	43.52
3	725.75	Н	150	0	46	42.44
4	36.13	V	100	0	40	37.82
5	47.82	V	100	0	40	36.81
6	155.55	V	100	0	43.5	34.54

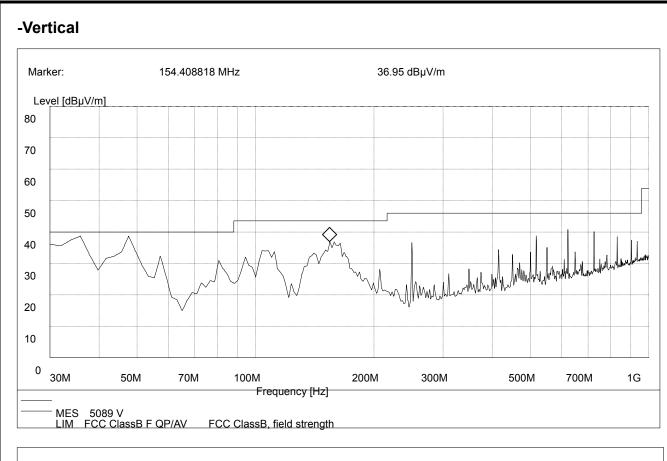
No.	Frequency (MHz)	Antenna Polarization	Antenna Height (cm)	Table Angle (Degree)	Limit Value (dB _µ V)		Emission Level (dB _µ V)	
					PK	AV	PK	AV
1	1000-6000	Н	100-400	0-360	74	54	<60	<45
2	1000-6000	V	100-400	0-360	74	54	<60	<45

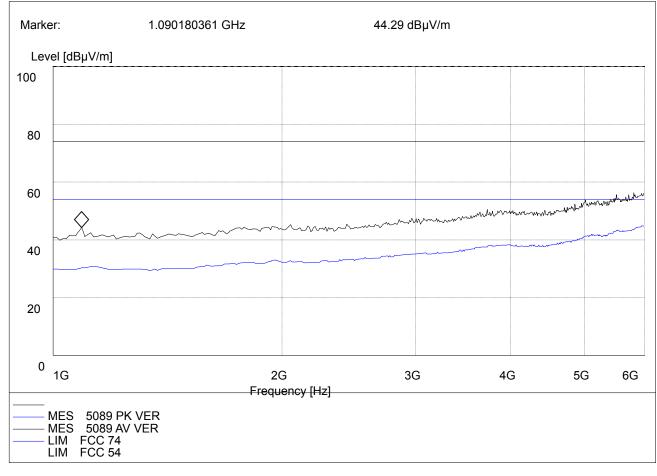
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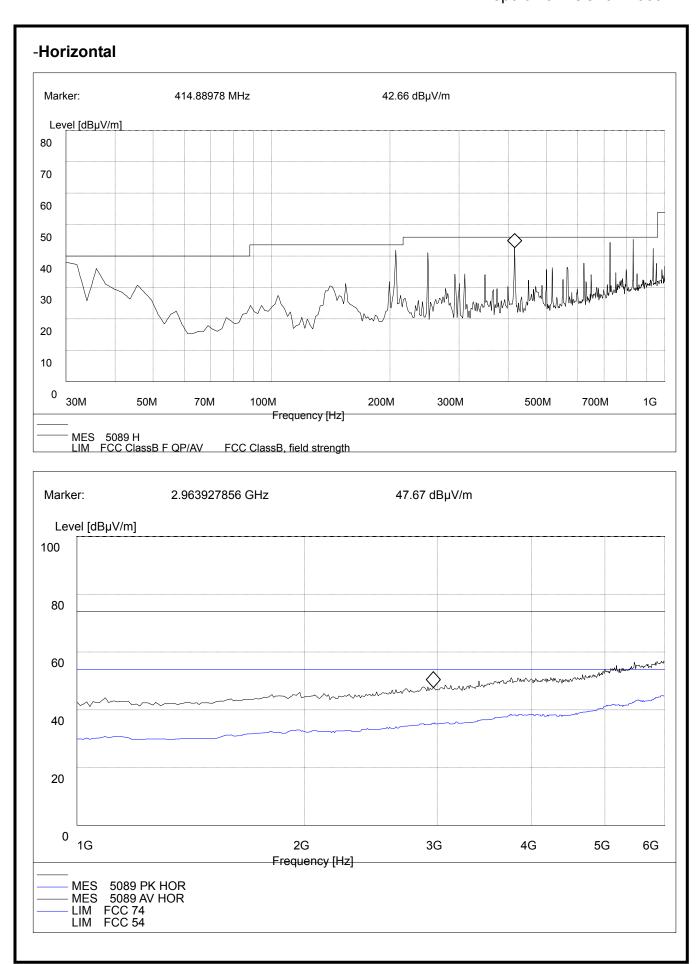
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GXP1160 Mode 3

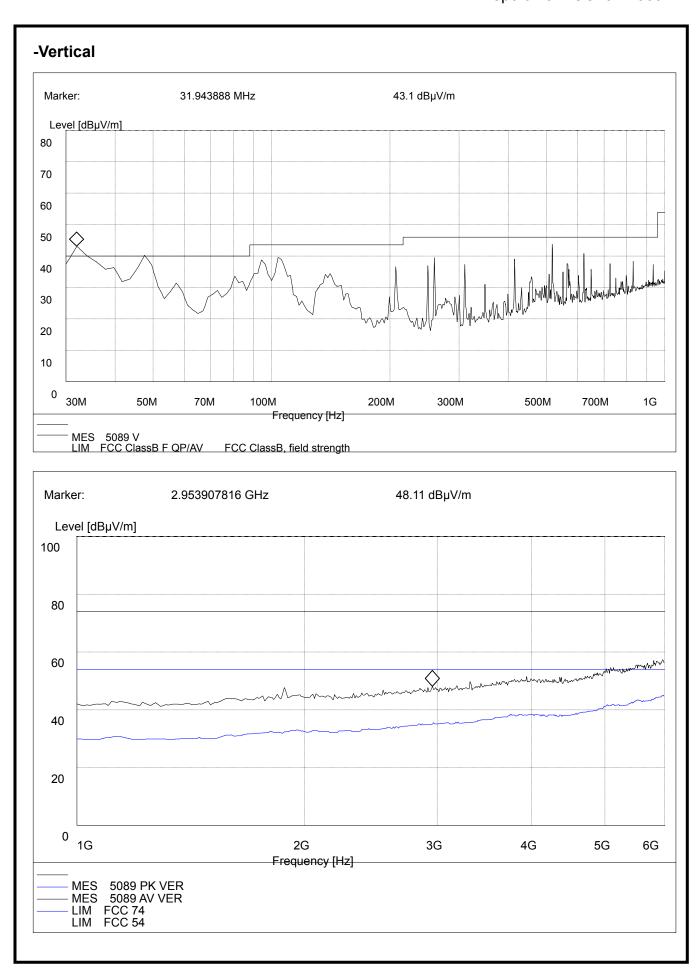
No.	Frequency (MHz)	Antenna Polarization	Antenna Height (cm)	Table Angle (Degree)	QP Limits (dBμV/m)	Emission Level (dB _µ V/m)
1	34.49	Н	150	0	40	30.59
2	249.99	Н	150	0	46	42.14
3	414.71	Н	150	0	46	39.27
4	34.73	V	100	0	40	38.17
5	47.82	V	100	0	40	38.63
6	518.39	V	100	0	46	44.75

No.	Frequency (MHz)	Antenna Polarization	Antenna Height	Table Angle	Limit Value (dBμV)		Emission Level (dBμV)	
	(111112)	1 Old 12dtion	(cm)	(Degree)	PK	AV	PK	AV
1	1000-6000	Н	100-400	0-360	74	54	<60	<45
2	1000-6000	Н	100-400	0-360	74	54	<60	<45

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