

Report No.: HR/2019/9000308-01
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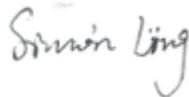
TEST REPORT

Application No.: HR/2019/90003
Applicant: Unimax communications
Address of Applicant: 18201 McDurmott St.West Suite E,Irvine,CA 92614.
Manufacturer: Unimax communications
Address of Manufacturer: 18201 McDurmott St.West Suite E,Irvine,CA 92614.
Factory: Unimax communications
Address of Factory: 18201 McDurmott St.West Suite E,Irvine,CA 92614.
EUT Description: Smartphone
Model No.: U693CL
Trade Mark: UMX
FCC ID: P46-U693CL
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2019-11-5
Date of Test: 2019-11-6 to 2019-11-20
Date of Issue: 2021/8/14

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Simon Ling

Wireless Laboratory Manager



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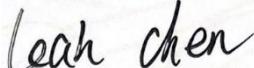
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Wireless Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-11-20		Original
02		2021/6/7	Leah Chen	1. Modify data conversion error of antenna height 2. Update equipment list
03		2021/8/14	Leah Chen	1. Update Support Units, Test facility and Test Location

This report supersedes our previous report HR/2019/9000308, issued on 2019-11-20, which is hereby deemed null and void.

Authorized for issue by:	
Prepared By	 (Leah Chen) /Engineer
Checked By	 (Daniel Wang) /Reviewer

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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower

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4 General Information

4.1 Details of E.U.T.

Power supply:	Adapter model: TPA-5950100UU Input: 100-240V~50/60Hz, 0.2A Out Power: 5V / 1A
EUT Description::	Smartphone
Model No.:	U693CL
Trade Mark:	UMX
Hardware Version:	Q5009-V1.0
Software Version:	TBD
Antenna Gain:	CDMA/EVDO BC0: -1.4dBi CDMA/EVDO BC1: -0.2dBi CDMA/EVDO BC10: -1.4dBi WCDMA Band II: -0.2dBi WCDMA Band IV: -0.03dBi WCDMA Band V: -1.4dBi LTE Band 2: -0.2dBi; LTE Band 4: -0.07dBi LTE Band 5: -1.4dBi LTE Band 12: -2.8dBi LTE Band 25: -0.2dBi LTE Band 26: -1.4dBi LTE Band 41: 1.1dBi LTE Band 66: -0.07dBi LTE Band 71: -2.8dBi Bluetooth/2.4G WiFi: 0.8dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Router	NETGEAR	R6020	No.XA1401
Computer	Lenovo	L480	No.XA1402
Mouse	A4TECH	OP-520NU USB	No.XA1403

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)



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	$\pm 4.8\text{dB}$ (1GHz to 6GHz)
	$\pm 4.5\text{dB}$ (6GHz to 18GHz)
	$\pm 5.02\text{dB}$ (Above 18GHz)

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4.4 Test Location

All tests were performed at:

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Post code:	710086
Test engineer:	Ben Huang, Leah Chen

No tests were sub-contracted.

4.5 Test Facility

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

- **A2LA (Certificate No. 4854.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

- **FCC –Designation Number: CN1271.**

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2019-07-16	2020-07-15
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2018-12-16	2019-12-15
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2019-06-27	2020-06-26

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RE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2019-06-27	2020-06-26
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2018-12-10	2019-12-09
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2018-12-10	2019-12-09
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2018-12-10	2019-12-09
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2018-12-10	2019-12-09
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2018-12-16	2019-12-15
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2019-06-27	2020-06-26

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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature:	18.9 °C	Humidity:	55.1 % RH	Atmospheric Pressure:	1000 mbar
Pretest these modes to find the worst case:	i: CDMA BC0 Rx+WiFi +BT +Adapter+Camera Front+Earphone				
	j: CDMA BC1 Rx +WiFi +BT +Adapter+MP4+Earphone				
	k: CDMA BC10 Rx +WiFi +BT + Adapter+ Camera rear +Earphone				
	l: WCDMA Band 2 Link +WiFi +BT +Adapter + Camera rear +Earphone				
	m: WCDMA Band 4 Link +WiFi +BT +Adapter+ MP4+Earphone				
	n: WCDMA Band 5 Link +WiFi +BT +Adapter+ Camera Front +Earphone				
	o: LTE Band 2 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone				
	p: LTE Band 4 Rx +WiFi +BT+GPS Rx+Adapter+FM +Earphone				
	q: LTE Band 5 Rx +WiFi +BT+GPS Rx+Adapter+FM +Earphone				
	r: LTE Band 12 Rx +WiFi +BT+GPS Rx+Adapter+FM +Earphone				
	s: LTE Band 25 Rx +WiFi +BT+GPS Rx+Adapter+FM +Earphone				
	t: LTE Band 26 Rx +WiFi +BT+GPS Rx+Adapter+FM +Earphone				
	u: LTE Band 41 Rx +WiFi +BT+GPS Rx+Adapter+FM +Earphone				
	v: LTE Band 66 Rx +WiFi +BT+GPS Rx+Adapter+FM +Earphone				
	z: LTE Band 71 Rx +WiFi +BT+GPS Rx+PC Date Link +Earphone				



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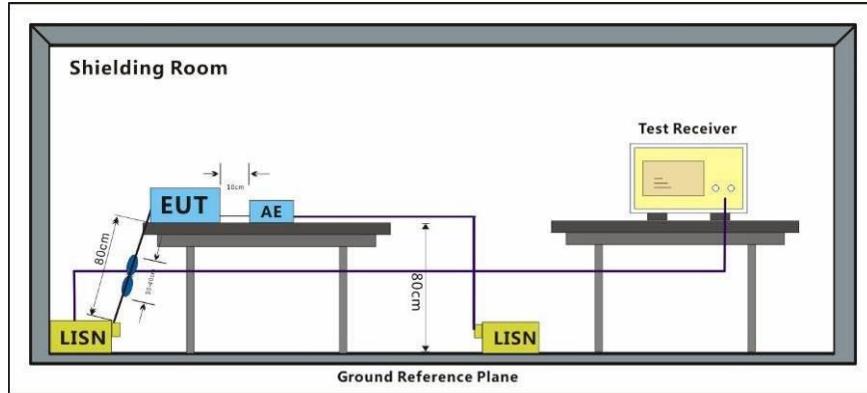
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The worst case for final test:
o: LTE Band 2 Rx +WiFi +BT R+GPS Rx+Adapter+FM+Earphone

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

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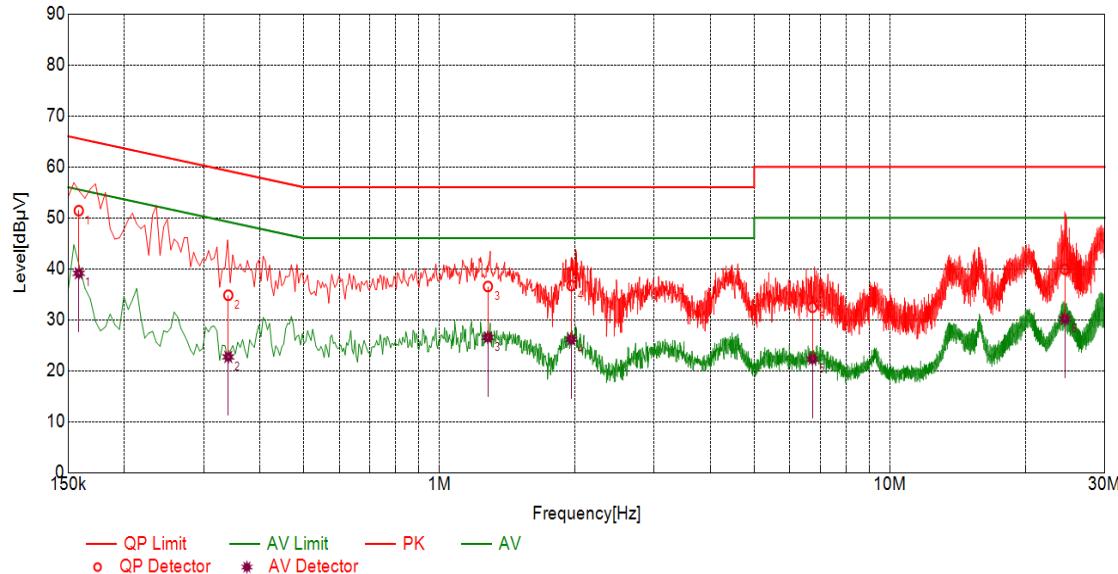


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Mode:o; Line:Live Line



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type
1	0.1584	10.10	51.41	65.55	14.14	39.12	55.55	16.43	L
2	0.3401	10.10	34.81	59.20	24.39	22.71	49.20	26.49	L
3	1.2818	10.10	36.53	56.00	19.47	26.52	46.00	19.48	L
4	1.9642	10.10	36.71	56.00	19.29	26.15	46.00	19.85	L
5	6.7336	10.10	32.47	60.00	27.53	22.30	50.00	27.70	L
6	24.4770	10.11	39.90	60.00	20.10	30.16	50.00	19.84	L

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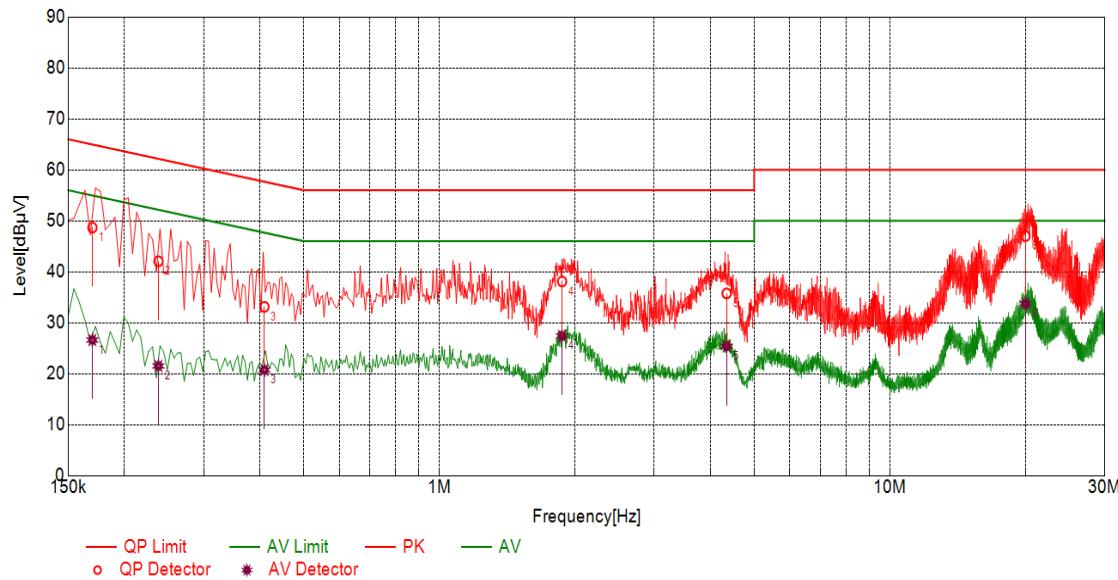
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Mode:o; Line:Neutral Line



Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type
1	0.1698	10.10	48.68	64.97	16.29	26.60	54.97	28.37	N
2	0.2380	10.10	42.07	62.17	20.10	21.52	52.17	30.65	N
3	0.4091	10.10	33.13	57.67	24.54	20.73	47.67	26.94	N
4	1.8727	10.10	38.10	56.00	17.90	27.41	46.00	18.59	N
5	4.3415	10.10	35.76	56.00	20.24	25.37	46.00	20.63	N
6	19.9999	10.11	47.00	60.00	13.00	33.74	50.00	16.26	N

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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m

Limit:

30MHz -88MHz 40.0(dB μ V/m) quasi-peak

88MHz-216MHz 43.5(dB μ V/m) quasi-peak

216MHz-960MHz 46.0(dB μ V/m) quasi-peak

960MHz-1000MHz 54.0(dB μ V/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 66.5 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case: i: CDMA BC0 Rx+WiFi +BT +Adapter+Camera Front+Earphone

j: CDMA BC1 Rx +WiFi +BT +Adapter+MP4+Earphone

k: CDMA BC10 Rx +WiFi +BT + Adapter+ Camera rear +Earphone

l: WCDMA Band 2 Link +WiFi +BT +Adapter + Camera rear +Earphone

m: WCDMA Band 4 Link +WiFi +BT +Adapter+ MP4+Earphone

n: WCDMA Band 5 Link +WiFi +BT +Adapter+ Camera Front +Earphone

o: LTE Band 2 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone

p: LTE Band 4 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone

q: LTE Band 5 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone

r: LTE Band 12 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone

s: LTE Band 25 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone

t: LTE Band 26 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone

u: LTE Band 41 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone

v: LTE Band 66 Rx +WiFi +BT+GPS Rx+Adapter+ EUT+Earphone

z: LTE Band 71 Rx +WiFi +BT+GPS Rx+PC Date Link +Earphone

The worst case for final test: o: LTE Band 2 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone

z: LTE Band 71 Rx +WiFi +BT+GPS Rx+PC Date Link +Earphone



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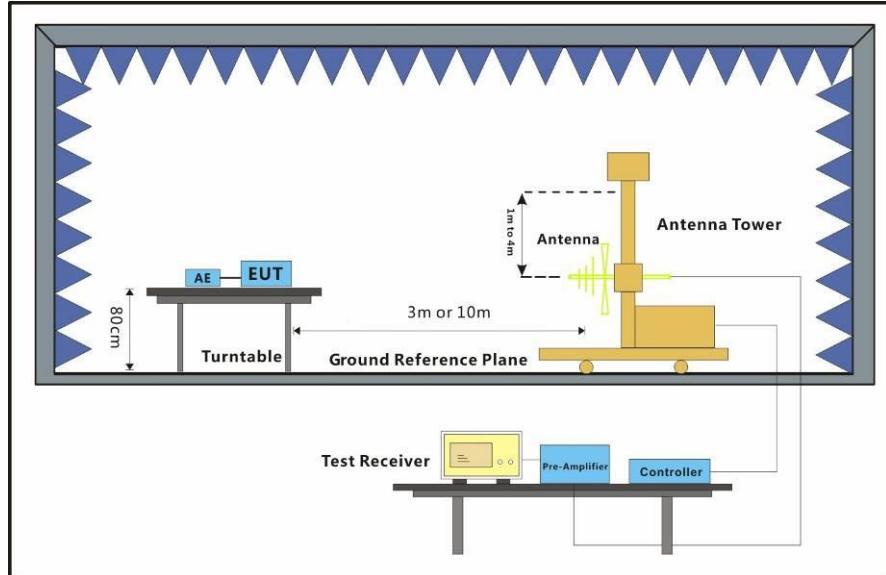
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6.2.2 Test Setup Diagram



6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

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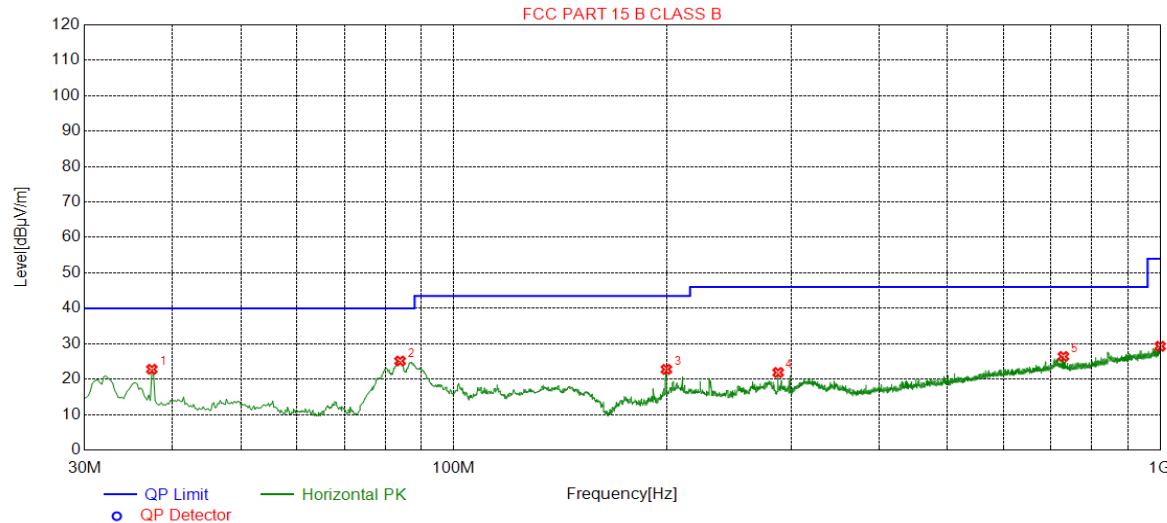


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Mode:o; Polarization:Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.3735	22.79	-29.19	40.00	17.21	249	263	Horizontal
2	83.9428	25.12	-35.20	40.00	14.88	177	252	Horizontal
3	199.978	22.76	-31.18	43.50	20.74	159	63	Horizontal
4	287.877	21.89	-28.72	46.00	24.11	195	105	Horizontal
5	729.509	26.41	-18.81	46.00	19.59	219	185	Horizontal
6	1000.00	29.28	-14.79	54.00	24.72	126	21	Horizontal

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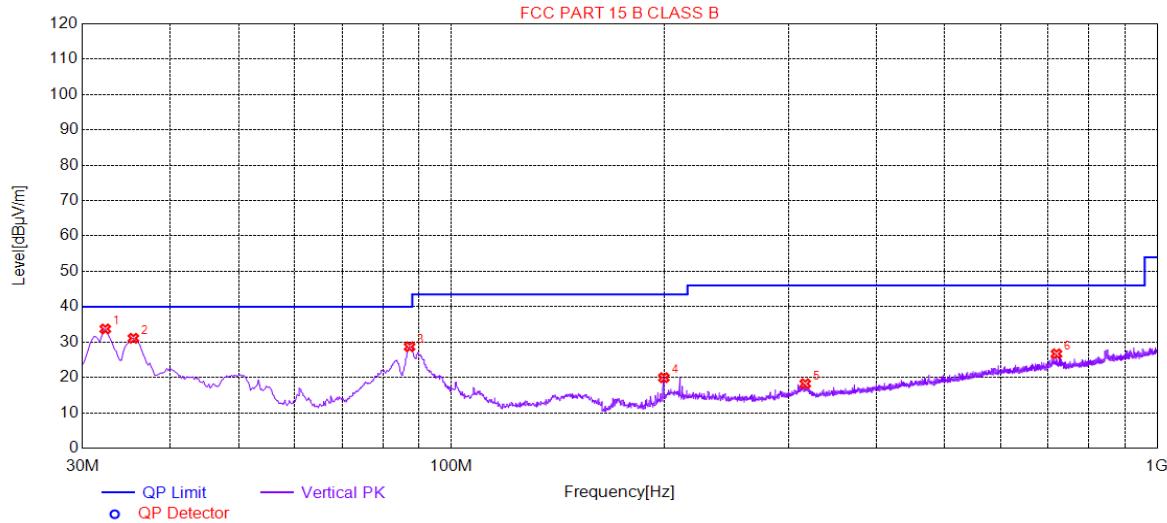


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Mode:o; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.3285	33.71	-30.02	40.00	6.29	242	346	Vertical
2	35.4331	31.08	-29.82	40.00	8.92	262	314	Vertical
3	87.2414	28.68	-34.39	40.00	11.32	266	59	Vertical
4	199.978	19.94	-31.18	43.50	23.56	259	169	Vertical
5	317.177	18.23	-27.78	46.00	27.77	238	161	Vertical
6	720.002	26.69	-19.04	46.00	19.31	290	178	Vertical

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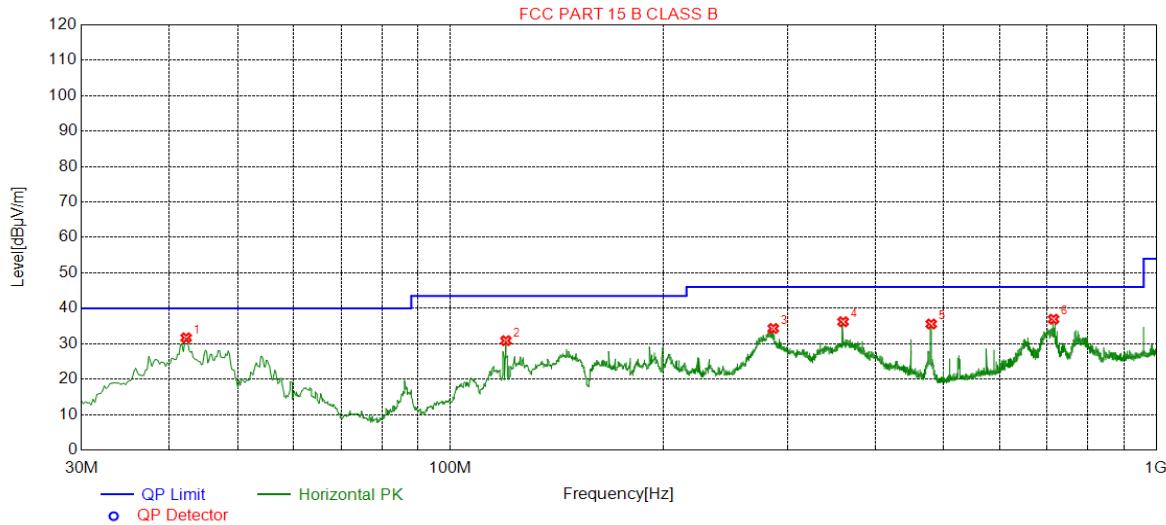


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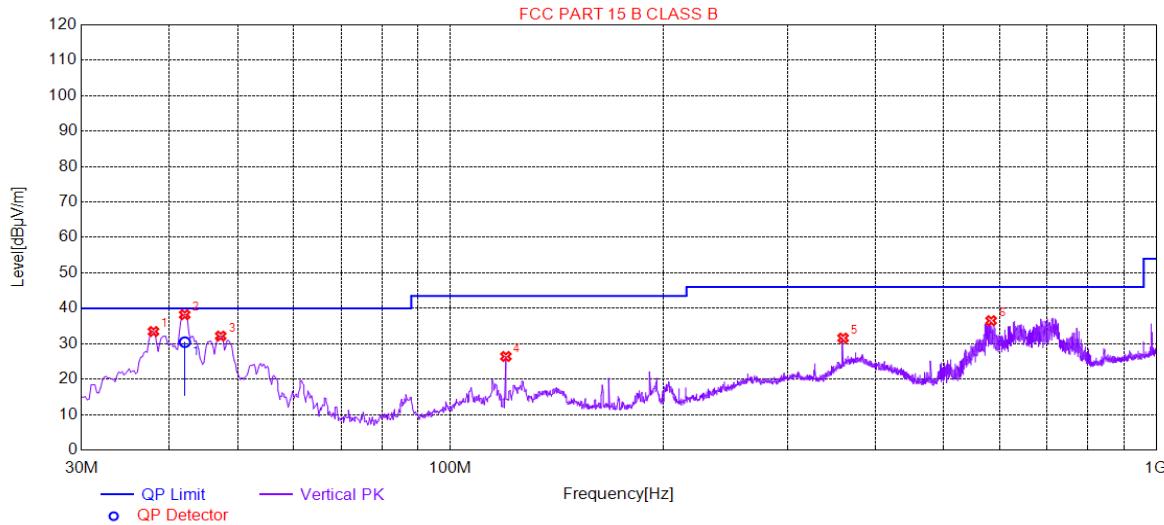
Suspected List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.2244	31.68	-29.27	40.00	8.32	189	144	Horizontal
2	119.840	30.87	-33.54	43.50	12.63	161	298	Horizontal
3	286.713	34.31	-28.76	46.00	11.69	147	346	Horizontal
4	360.060	36.20	-26.60	46.00	9.80	106	0	Horizontal
5	479.976	35.57	-23.82	46.00	10.43	219	304	Horizontal
6	715.345	36.93	-19.15	46.00	9.07	143	323	Horizontal

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Mode:z; Polarization:Vertical

**Suspected List**

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.9556	33.44	-29.00	40.00	6.56	253	103	Vertical
2	42.0304	38.19	-29.19	40.00	1.81	267	343	Vertical
3	47.2695	32.18	-30.40	40.00	7.82	243	346	Vertical
4	119.840	26.41	-33.54	43.50	17.09	181	262	Vertical
5	360.060	31.60	-26.60	46.00	14.40	228	316	Vertical
6	583.592	36.51	-21.09	46.00	9.49	189	138	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.0444	-29.19	30.45	40.00	9.55	104	342.3	Vertical

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6.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Frequency Range: Above 1GHz

Measurement Distance: 3m

Limit:

Above 1GHz 74(dB μ V/m) peak, 54(dB μ V/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 56.4 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case: i: CDMA BC0 Rx+WiFi +BT +Adapter+Camera Front+Earphone

j: CDMA BC1 Rx +WiFi +BT +Adapter+MP4+Earphone

k: CDMA BC10 Rx +WiFi +BT + Adapter+ Camera rear +Earphone

l: WCDMA Band 2 Link +WiFi +BT +Adapter + Camera rear +Earphone

m: WCDMA Band 4 Link +WiFi +BT +Adapter+ MP4+Earphone

n: WCDMA Band 5 Link +WiFi +BT +Adapter+ Camera Front +Earphone

o: LTE Band 2 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone

p: LTE Band 4 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone

q: LTE Band 5 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone

r: LTE Band 12 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone

s: LTE Band 25 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone

t: LTE Band 26 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone

u: LTE Band 41 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone

v: LTE Band 66 Rx +WiFi +BT+GPS Rx+Adapter+ EUT+Earphone

z: LTE Band 71 Rx +WiFi +BT+GPS Rx+PC Date Link +Earphone

The worst case for final test: o: LTE Band 2 Rx +WiFi +BT+GPS Rx+Adapter+FM+Earphone

z: LTE Band 71 Rx +WiFi +BT+GPS Rx+PC Date Link +Earphone



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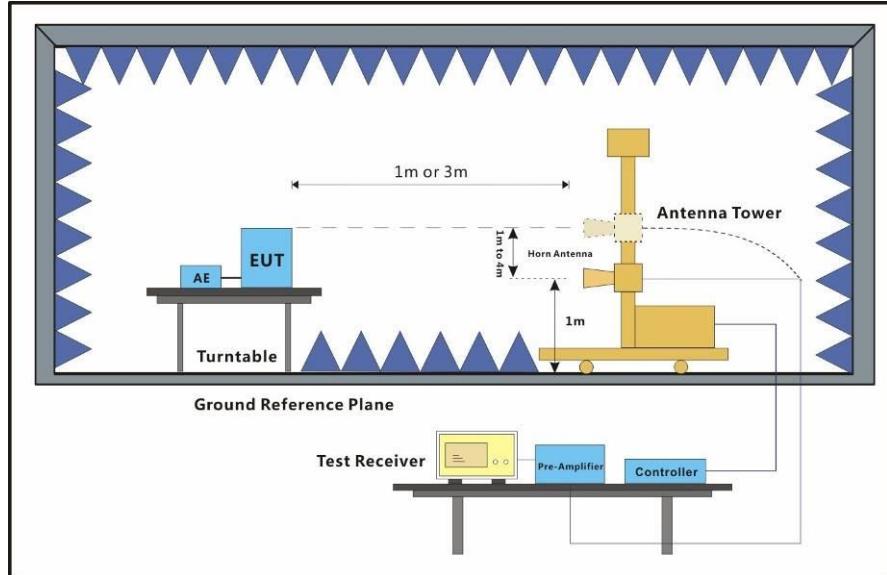
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6.3.2 Test Setup Diagram



6.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

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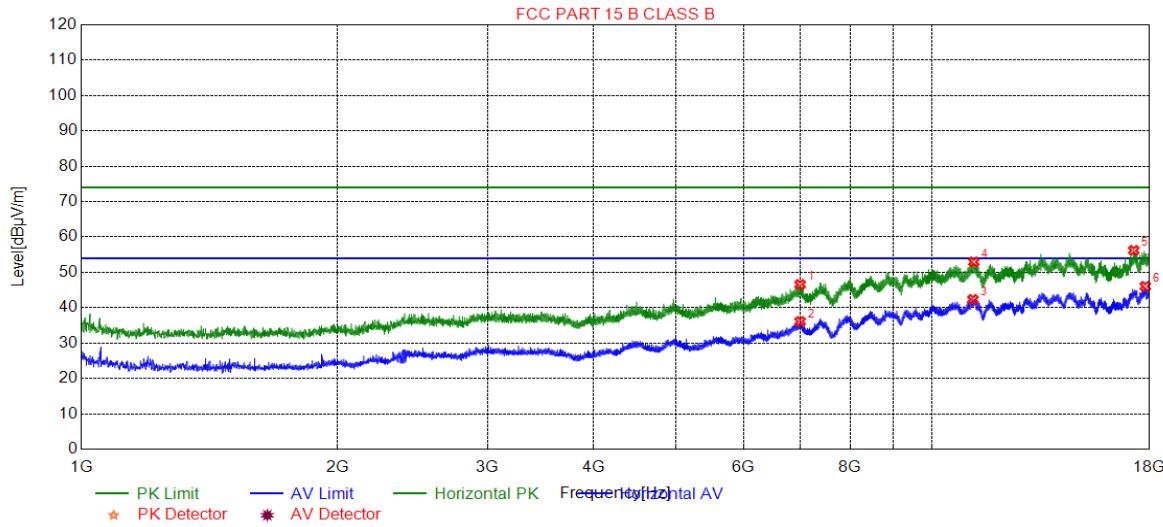
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Mode:o; Polarization:Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6991.09	46.57	-12.53	74.00	27.43	191	220	Horizontal
2	6991.09	36.09	-12.53	54.00	17.91	225	220	Horizontal
3	11160.5	42.33	-3.94	54.00	11.67	247	18	Horizontal
4	11186.9	52.95	-3.99	74.00	21.05	245	220	Horizontal
5	17243.4	56.21	-1.94	74.00	17.79	227	270	Horizontal
6	17788.3	46.04	-1.63	54.00	7.96	197	270	Horizontal

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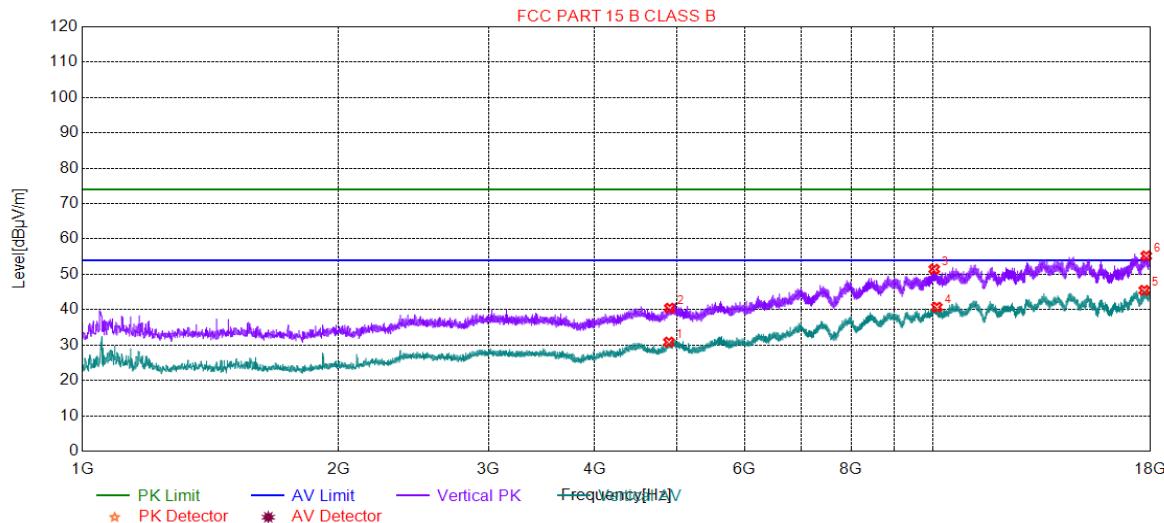
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Suspected List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4889.79	30.85	-19.45	54.00	23.15	200	0	Vertical
2	4899.99	40.45	-19.31	74.00	33.55	262	241	Vertical
3	10024.0	51.45	-5.90	74.00	22.55	223	191	Vertical
4	10094.6	40.71	-5.71	54.00	13.29	226	0	Vertical
5	17693.9	45.49	-0.83	54.00	8.51	203	241	Vertical
6	17789.1	55.21	-1.64	74.00	18.79	212	40	Vertical

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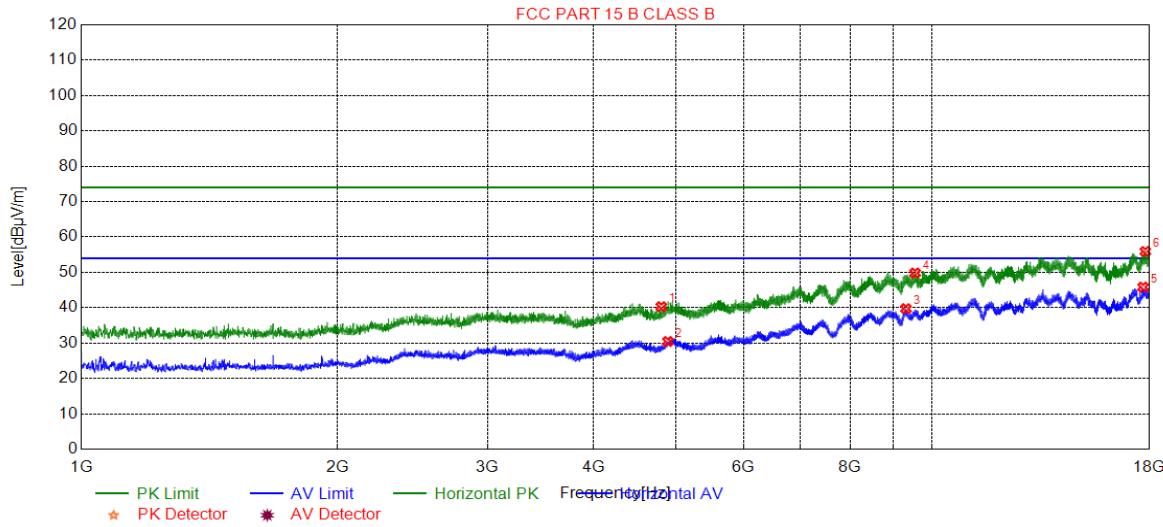
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Mode:z; Polarization:Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4802.24	40.31	-20.63	74.00	33.69	200	119	Horizontal
2	4888.94	30.46	-19.46	54.00	23.54	262	360	Horizontal
3	9308.31	39.74	-7.07	54.00	14.26	223	269	Horizontal
4	9542.92	49.82	-7.19	74.00	24.18	226	68	Horizontal
5	17685.4	45.84	-0.90	54.00	8.16	203	18	Horizontal
6	17790.8	55.91	-1.65	74.00	18.09	212	169	Horizontal

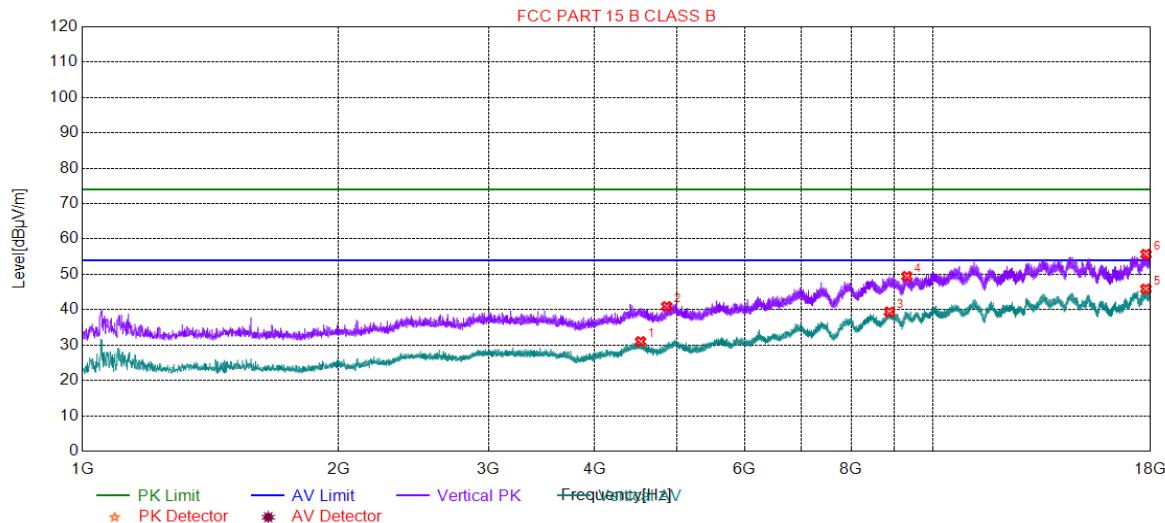
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Mode:o; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4528.52	31.01	-20.37	54.00	22.99	259	241	Vertical
2	4860.04	40.92	-19.85	74.00	33.08	169	0	Vertical
3	8879.04	39.37	-7.91	54.00	14.63	221	140	Vertical
4	9310.01	49.42	-7.08	74.00	24.58	274	241	Vertical
5	17769.6	45.86	-1.45	54.00	8.14	157	291	Vertical
6	17776.4	55.69	-1.51	74.00	18.31	244	291	Vertical

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7 Photographs

7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup

Refer to Setup Photos for HR/2019/90003

7.2 Radiated Emissions (30MHz-1GHz) Test Setup

Refer to Setup Photos for HR/2019/90003

7.3 Radiated Emissions (above 1GHz) Test Setup

Refer to Setup Photos for HR/2019/90003

7.4 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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