

FCC EMC Test Report

Applicant: TECNO MOBILE LIMITED

Address of Applicant: FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: KG5q

Trade Mark: TECNO

FCC ID: 2ADYY-KG5Q

Applicable Standards: FCC CFR Title 47 Part 15B

Date of Sample Receipt: 08 Apr., 2022

Date of Test: 09 Apr., to 09 May, 2022

Date of report Issued: 10 May, 2022

Test Result: PASS

Tested by:

Mike Ou
Test Engineer

Date:10 May, 2022**Reviewed by:**

Winnier Zhang
Project Engineer

Date:10 May, 2022**Approved by:**

Winnier Zhang
Manager

Date:10 May, 2022

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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2 Version

Version No.	Date	Description
00	10 May, 2022	Original

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4 General Information

4.1 Client Information

Applicant:	TECNO MOBILE LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT
Manufacturer:	TECNO MOBILE LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R. China

4.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	KG5q
Power Supply:	Rechargeable Li-ion Polymer Battery DC3.85V, 4900mAh
AC Adapter:	Model: U100TSA Input: AC100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 2.0A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Remark:	The EUT has three kinds of memory: 128+4V memory, 64+4T memory and 64+3U memory. The EUT is the same except for the memory difference.

4.3 Test Mode

Operating Mode	Detail Description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+Recording mode	Keep the EUT in Charging+Recording mode
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode
GPS mode	Keep the EUT in GPS receiver mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.4 Description of Support Units

Manufacturer	Description	Model	S/N	FCC ID/DoC
Lenovo	Laptop	ThinkPad T14 Gen 1	SL10Z47277	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC

4.5 Description of Cable Used

Cable Type	Description	Length	From	To
Detached USB Cable	Shielding	1.0m	EUT	PC/Adapter
Detached headset cable	Unshielded	1.0m	EUT	Headset

4.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.11 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.62 dB
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB

Note: All the measurement uncertainty value were shown with a coverage $k=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

4.7 Additions to, Deviations, or Exclusions from the Method

No

4.8 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations: ● FCC - Designation No.: CN1211 JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551. ● ISED – CAB identifier.: CN0021 The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. ● CNAS - Registration No.: CNAS L15527 JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527. ● A2LA - Registration No.: 4346.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf
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4.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd. Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: http://jyt.lets.com

4.10 Test Instruments List

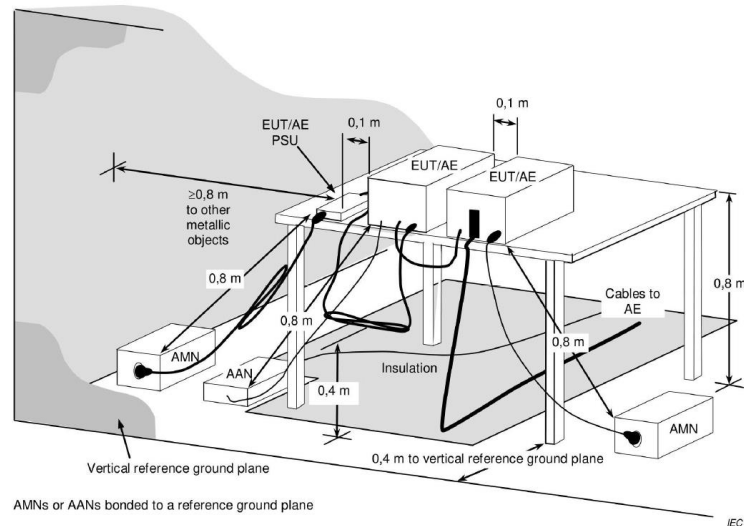
Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	02-17-2022	02-16-2023
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	06-20-2021	06-19-2022
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	02-17-2022	02-16-2023
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXG001-7	02-17-2022	02-16-2023
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	02-17-2022	02-16-2023
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	02-17-2022	02-16-2023
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	02-17-2022	02-16-2023
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	02-17-2022	02-16-2023
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	02-17-2022	02-16-2023
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	02-17-2022	02-16-2023
Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYT3M-1G-BB-5M	WXG001-6	02-17-2022	02-16-2023
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	02-17-2022	02-16-2023
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI 3	WXJ003	02-17-2022	02-16-2023
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	02-17-2022	02-16-2023
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	06-18-2021	06-17-2022
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	02-17-2022	02-16-2023
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	Version: 6.110919b		

5 Measurement Setup and Procedure

5.1 Test Setup

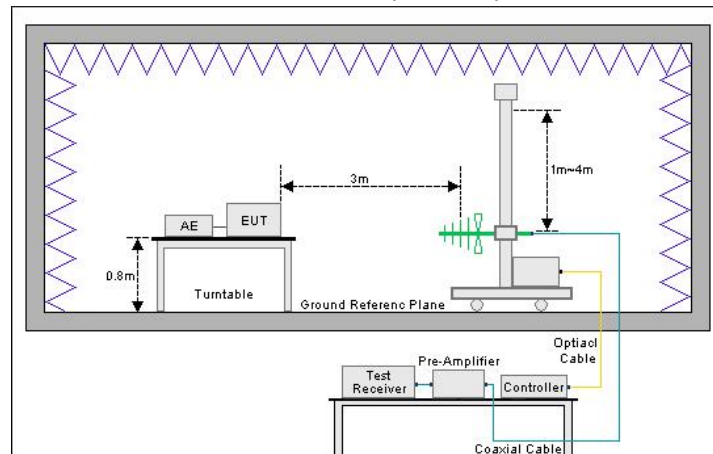
1) Conducted emission measurement:



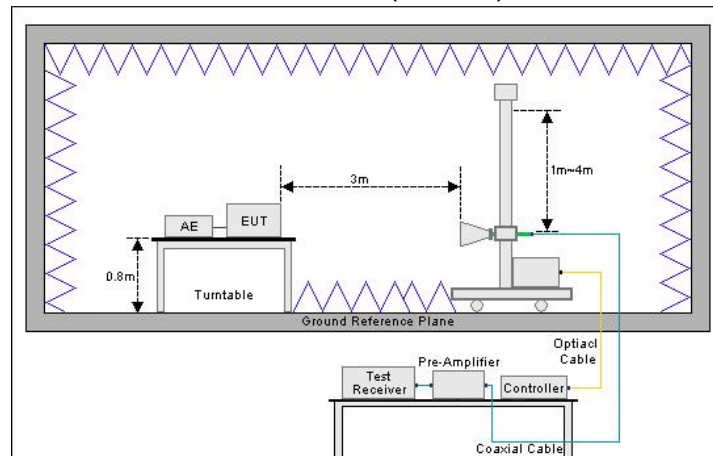
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

2) Radiated emission measurement:

Below 1GHz (3m SAC)



Above 1GHz (3m SAC)



5.2 Test Procedure

Test method	Test step
Conducted emission	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement.
Radiated emission	For below 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. For above 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

6 Test Results

6.1 Summary

6.1.1 Clause and data summary

Test items	Standard clause	Test data	Result
Conducted Emission	Part 15.107	See Section 6.2	Pass
Radiated Emission	Part 15.109	See Section 6.3	Pass
Remark: 1. The EUT is a Class B digital device. 2. Pass: The EUT complies with the essential requirements in the standard.			
Test Method:	ANSI C63.4:2014		

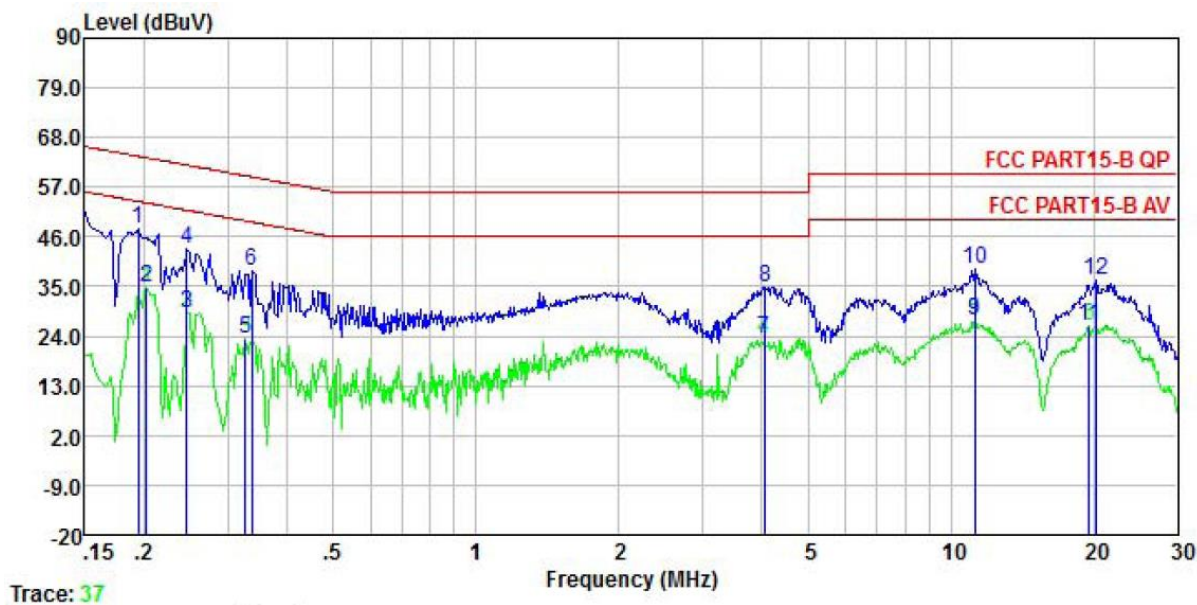
6.1.2 Test Limit

Test items	Limit																																																					
Conducted Emission	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Class A Limit (dBμV)</th><th colspan="2">Class B Limit (dBμV)</th></tr><tr><th>Quasi-Peak</th><th>Average</th><th>Quasi-Peak</th><th>Average</th></tr><tr><td>0.15 – 0.5</td><td>79</td><td>66</td><td>66 to 56 ^{Note 1}</td><td>56 to 46 ^{Note 1}</td></tr><tr><td>0.5 – 5</td><td>73</td><td>60</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>73</td><td>60</td><td>60</td><td>50</td></tr><tr><td colspan="5">Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency.</td></tr><tr><td colspan="5">Note 2: The more stringent limit applies at transition frequencies.</td></tr></table>	Frequency (MHz)	Class A Limit (dBμV)		Class B Limit (dBμV)		Quasi-Peak	Average	Quasi-Peak	Average	0.15 – 0.5	79	66	66 to 56 ^{Note 1}	56 to 46 ^{Note 1}	0.5 – 5	73	60	56	46	5 – 30	73	60	60	50	Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency.					Note 2: The more stringent limit applies at transition frequencies.																							
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	88 – 216	53.5	43.5	43.5	33.5																																																	
	216 – 960	56.0	46.0	46.0	36.0																																																	
	960 – 1000	60.0	50.0	54.0	44.0																																																	
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Note: The measurement bandwidth shall be 1 MHz or greater.																																																						

6.2 Conducted Emission

For 64+3U memory:

Product name:	Mobile Phone	Product model:	KG5q
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		

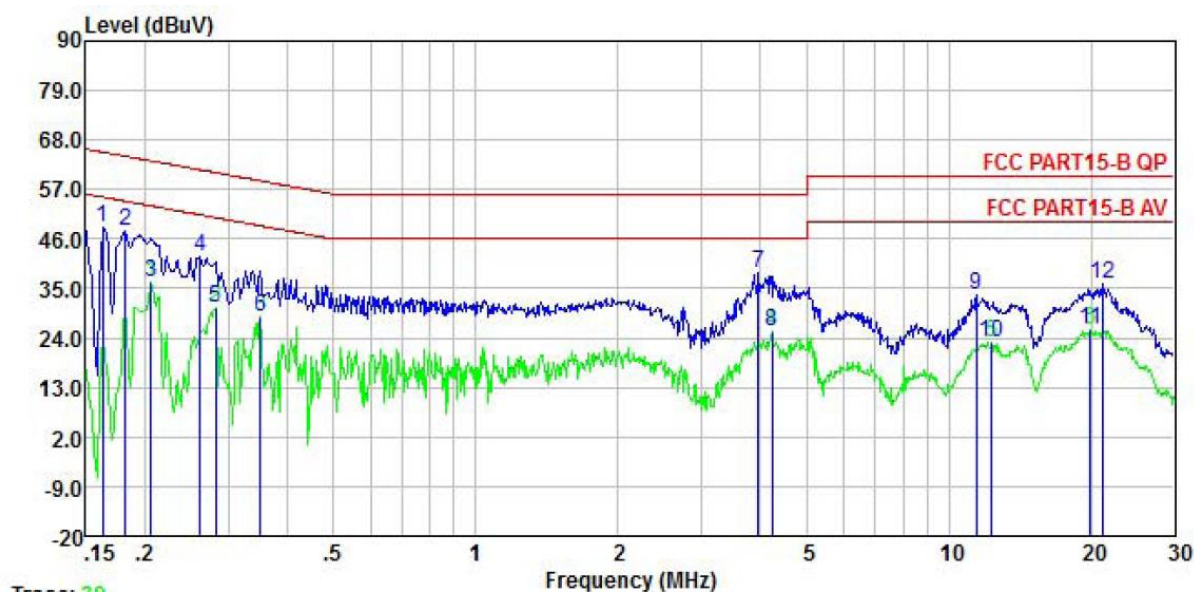


	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.194	47.84	0.04	0.03	47.91	63.84	-15.93	QP
2	0.202	34.53	0.04	0.04	34.61	53.54	-18.93	Average
3	0.246	29.18	0.04	0.01	29.23	51.91	-22.68	Average
4	0.246	43.18	0.04	0.01	43.23	61.91	-18.68	QP
5	0.327	23.48	0.04	0.02	23.54	49.53	-25.99	Average
6	0.337	38.37	0.04	0.02	38.43	59.27	-20.84	QP
7	4.049	23.16	0.11	0.08	23.35	46.00	-22.65	Average
8	4.070	34.80	0.11	0.08	34.99	56.00	-21.01	QP
9	11.257	27.00	0.23	0.11	27.34	50.00	-22.66	Average
10	11.257	38.54	0.23	0.11	38.88	60.00	-21.12	QP
11	19.532	25.92	0.32	0.15	26.39	50.00	-23.61	Average
12	20.162	35.73	0.32	0.19	36.24	60.00	-23.76	QP

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	Mobile Phone	Product model:	KG5q
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



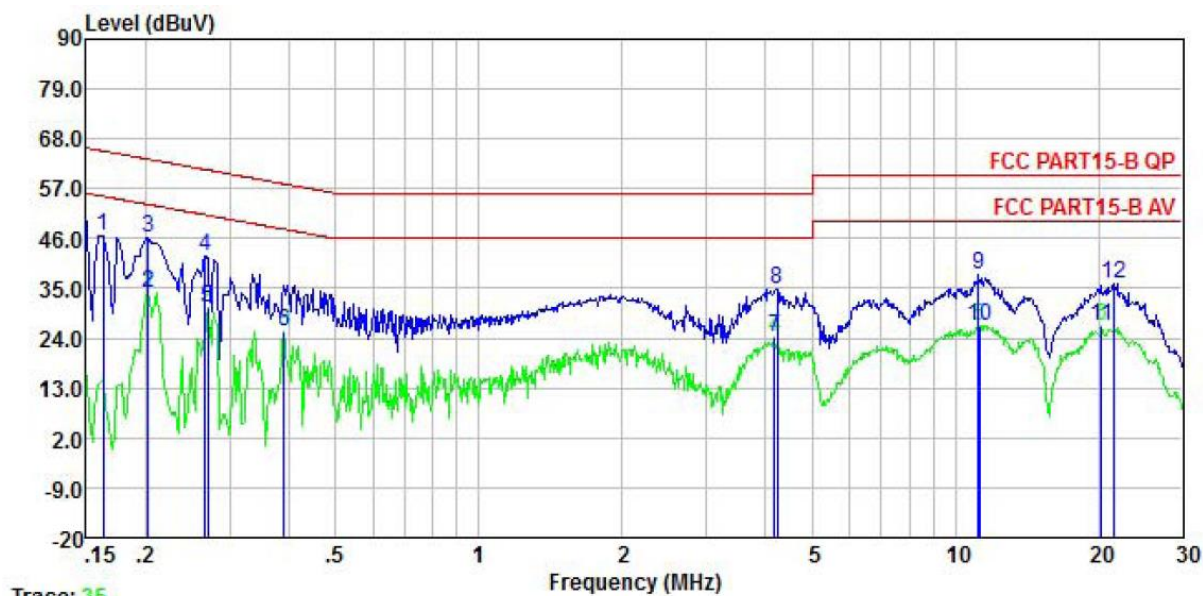
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.162	48.64	0.05	0.01	48.70	65.34	-16.64	QP
2	0.182	47.84	0.04	0.01	47.89	64.42	-16.53	QP
3	0.206	36.27	0.04	0.04	36.35	53.36	-17.01	Average
4	0.262	41.89	0.04	0.01	41.94	61.38	-19.44	QP
5	0.282	30.86	0.04	0.02	30.92	50.76	-19.84	Average
6	0.350	28.65	0.04	0.02	28.71	48.96	-20.25	Average
7	3.964	38.31	0.09	0.08	38.48	56.00	-17.52	QP
8	4.224	25.38	0.09	0.08	25.55	46.00	-20.45	Average
9	11.438	33.16	0.21	0.11	33.48	60.00	-26.52	QP
10	12.318	22.83	0.22	0.10	23.15	50.00	-26.85	Average
11	19.950	25.28	0.30	0.19	25.77	50.00	-24.23	Average
12	21.147	35.38	0.31	0.17	35.86	60.00	-24.14	QP

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

For 64+4T memory:

Product name:	Mobile Phone	Product model:	KG5q
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		

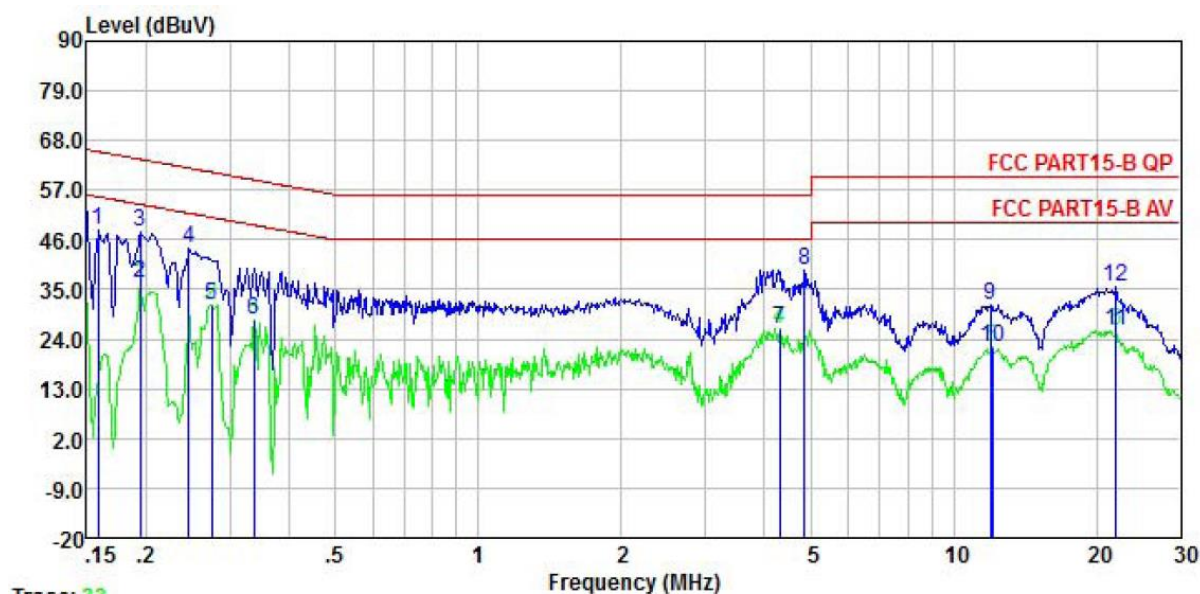


	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.162	46.64	0.04	0.01	46.69	65.34	-18.65	QP
2	0.202	34.04	0.04	0.04	34.12	53.54	-19.42	Average
3	0.202	46.20	0.04	0.04	46.28	63.54	-17.26	QP
4	0.266	42.11	0.04	0.02	42.17	61.25	-19.08	QP
5	0.270	30.53	0.04	0.02	30.59	51.12	-20.53	Average
6	0.389	25.53	0.04	0.04	25.61	48.08	-22.47	Average
7	4.180	24.14	0.11	0.08	24.33	46.00	-21.67	Average
8	4.224	34.57	0.11	0.08	34.76	56.00	-21.24	QP
9	11.198	37.65	0.23	0.11	37.99	60.00	-22.01	QP
10	11.257	26.42	0.23	0.11	26.76	50.00	-23.24	Average
11	20.270	26.22	0.32	0.19	26.73	50.00	-23.27	Average
12	21.486	35.68	0.33	0.17	36.18	60.00	-23.82	QP

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	Mobile Phone	Product model:	KG5q
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



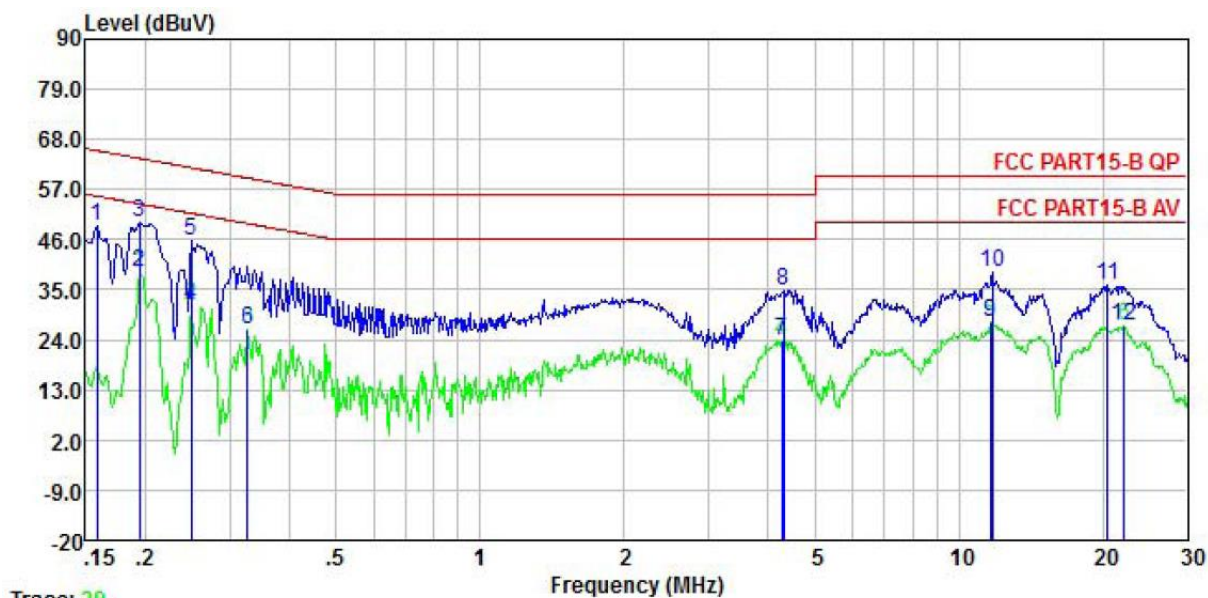
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.158	48.04	0.05	0.01	48.10	65.56	-17.46	QP
2	0.194	36.37	0.04	0.03	36.44	53.84	-17.40	Average
3	0.194	47.55	0.04	0.03	47.62	63.84	-16.22	QP
4	0.246	43.95	0.04	0.01	44.00	61.91	-17.91	QP
5	0.274	31.59	0.04	0.02	31.65	50.98	-19.33	Average
6	0.337	28.13	0.04	0.02	28.19	49.27	-21.08	Average
7	4.315	26.08	0.09	0.08	26.25	46.00	-19.75	Average
8	4.848	39.18	0.10	0.09	39.37	56.00	-16.63	QP
9	11.933	31.42	0.22	0.10	31.74	60.00	-28.26	QP
10	12.060	21.76	0.22	0.10	22.08	50.00	-27.92	Average
11	21.946	25.46	0.32	0.16	25.94	50.00	-24.06	Average
12	21.946	34.96	0.32	0.16	35.44	60.00	-24.56	QP

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

For 128+4V memory:

Product name:	Mobile Phone	Product model:	KG5q
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		

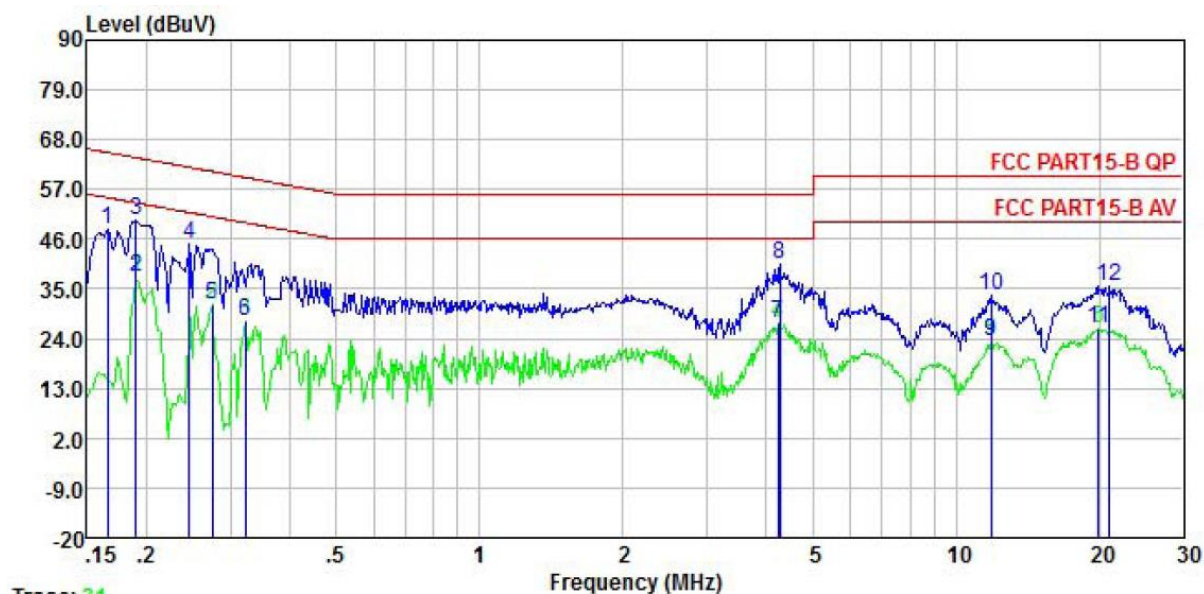


	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.158	48.97	0.04	0.01	49.02	65.56	-16.54	QP
2	0.194	38.85	0.04	0.03	38.92	53.84	-14.92	Average
3	0.194	49.76	0.04	0.03	49.83	63.84	-14.01	QP
4	0.249	31.56	0.04	0.01	31.61	51.78	-20.17	Average
5	0.249	45.54	0.04	0.01	45.59	61.78	-16.19	QP
6	0.327	26.29	0.04	0.02	26.35	49.53	-23.18	Average
7	4.269	23.80	0.11	0.08	23.99	46.00	-22.01	Average
8	4.315	34.80	0.11	0.08	34.99	56.00	-21.01	QP
9	11.621	27.60	0.23	0.11	27.94	50.00	-22.06	Average
10	11.745	38.39	0.23	0.10	38.72	60.00	-21.28	QP
11	20.486	35.50	0.32	0.18	36.00	60.00	-24.00	QP
12	22.180	26.59	0.34	0.16	27.09	50.00	-22.91	Average

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	Mobile Phone	Product model:	KG5q
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.166	48.01	0.05	0.01	48.07	65.16	-17.09	QP
2	0.190	37.65	0.04	0.03	37.72	54.02	-16.30	Average
3	0.190	50.06	0.04	0.03	50.13	64.02	-13.89	QP
4	0.246	45.10	0.04	0.01	45.15	61.91	-16.76	QP
5	0.274	31.46	0.04	0.02	31.52	50.98	-19.46	Average
6	0.322	27.68	0.04	0.03	27.75	49.66	-21.91	Average
7	4.224	27.20	0.09	0.08	27.37	46.00	-18.63	Average
8	4.269	40.16	0.09	0.08	40.33	56.00	-15.67	QP
9	11.870	23.23	0.22	0.10	23.55	50.00	-26.45	Average
10	11.870	33.10	0.22	0.10	33.42	60.00	-26.58	QP
11	19.950	25.72	0.30	0.19	26.21	50.00	-23.79	Average
12	21.035	35.18	0.31	0.17	35.66	60.00	-24.34	QP

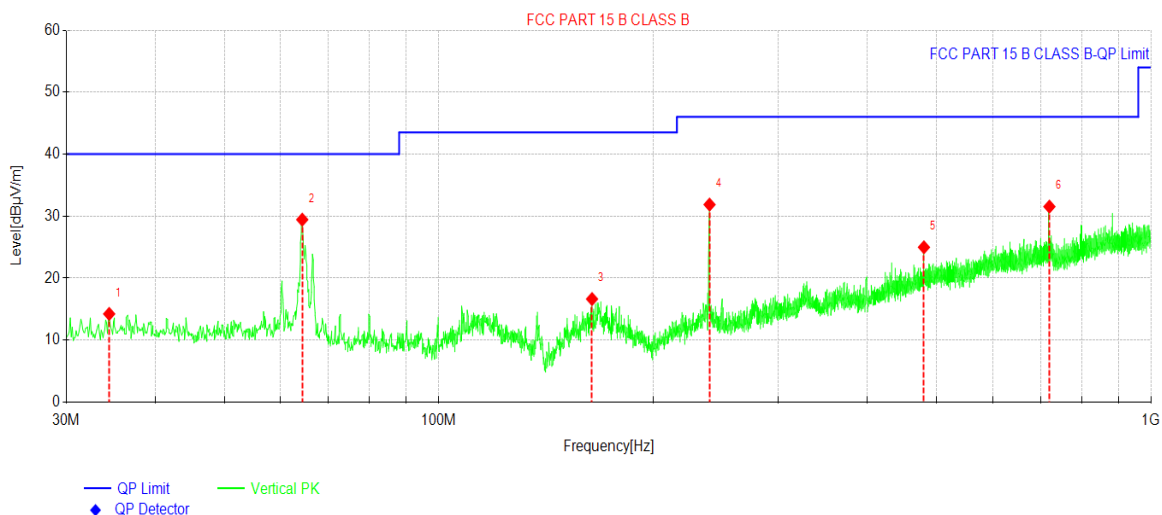
Remark:

1. Level = Read level + LISN Factor + Cable Loss.

6.3 Radiated Emission

For 64+3U memory:

Product Name:	Mobile Phone	Product Model:	KG5q
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



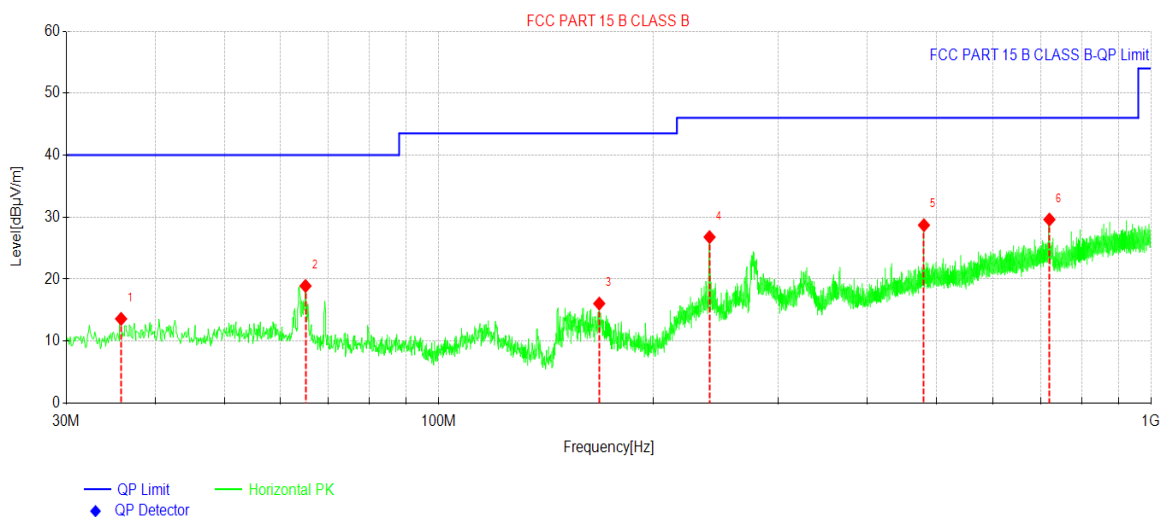
Suspected Data List

NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	34.46	29.36	14.23	-15.13	40.00	25.77	PK	Vertical
2	64.34	44.99	29.44	-15.55	40.00	10.56	PK	Vertical
3	164.16	33.89	16.63	-17.26	43.50	26.87	PK	Vertical
4	240.02	46.09	31.87	-14.22	46.00	14.13	PK	Vertical
5	480.02	32.59	24.98	-7.61	46.00	21.02	PK	Vertical
6	720.12	35.62	31.54	-4.08	46.00	14.46	PK	Vertical

Remark:

1. Level = Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	KG5q
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



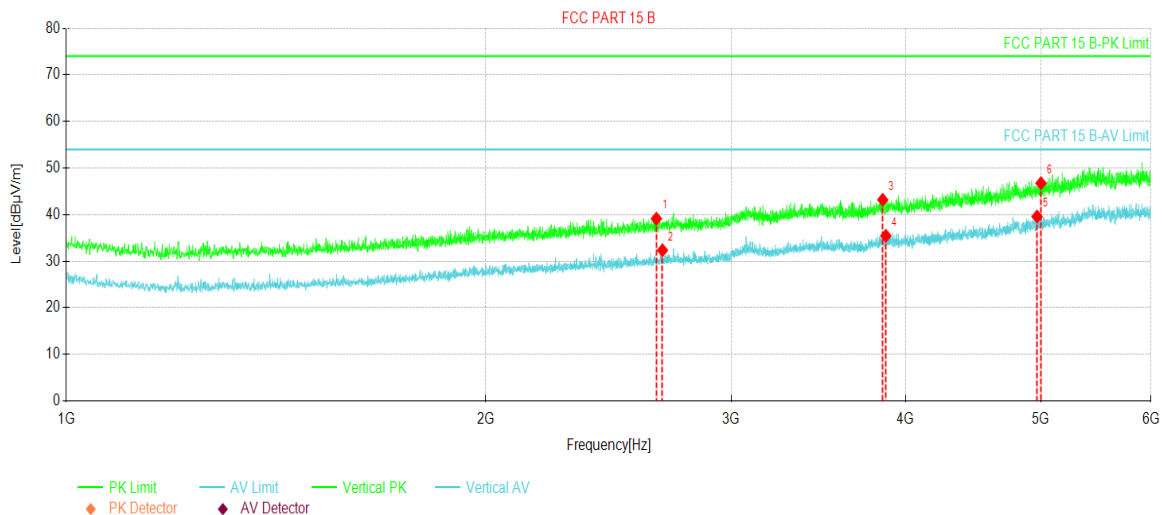
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	35.82	28.51	13.59	-14.92	40.00	26.41	PK	Horizontal
2	65.02	34.54	18.90	-15.64	40.00	21.10	PK	Horizontal
3	168.04	33.14	16.06	-17.08	43.50	27.44	PK	Horizontal
4	240.02	41.01	26.79	-14.22	46.00	19.21	PK	Horizontal
5	480.02	36.32	28.71	-7.61	46.00	17.29	PK	Horizontal
6	720.12	33.70	29.62	-4.08	46.00	16.38	PK	Horizontal

Remark:

1. Level = Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	KG5q
Test By:	Mike	Test mode:	PC mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

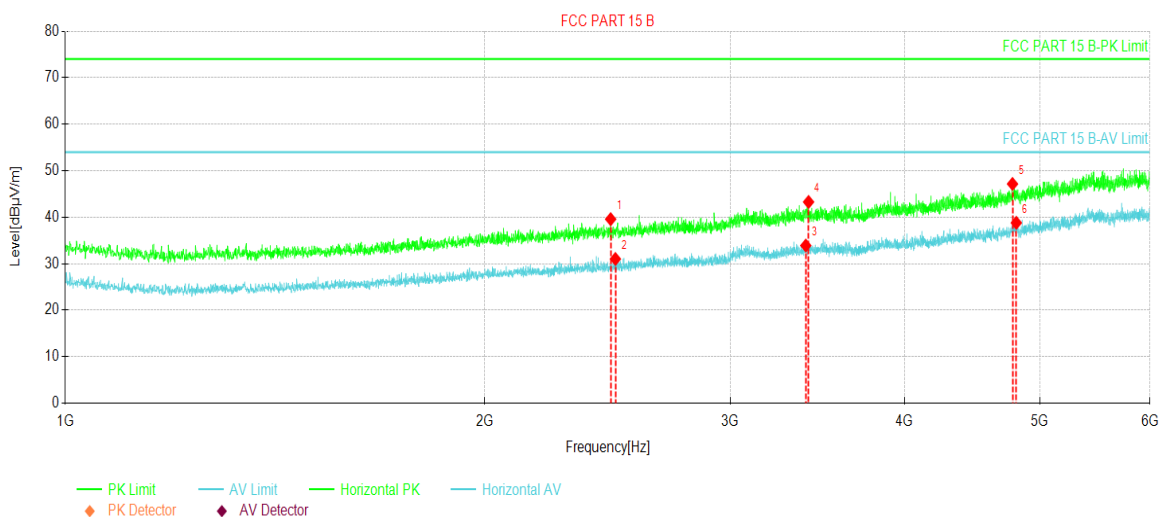


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2650.62	56.94	39.11	-17.83	74.00	34.89	PK	Vertical
2	2677.50	50.03	32.33	-17.70	54.00	21.67	AV	Vertical
3	3852.50	56.87	43.18	-13.69	74.00	30.82	PK	Vertical
4	3871.87	49.05	35.44	-13.61	54.00	18.56	AV	Vertical
5	4970.62	47.96	39.57	-8.39	54.00	14.43	AV	Vertical
6	5003.12	54.93	46.73	-8.20	74.00	27.27	PK	Vertical

Remark:

1. Level = Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	KG5q
Test By:	Mike	Test mode:	PC mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



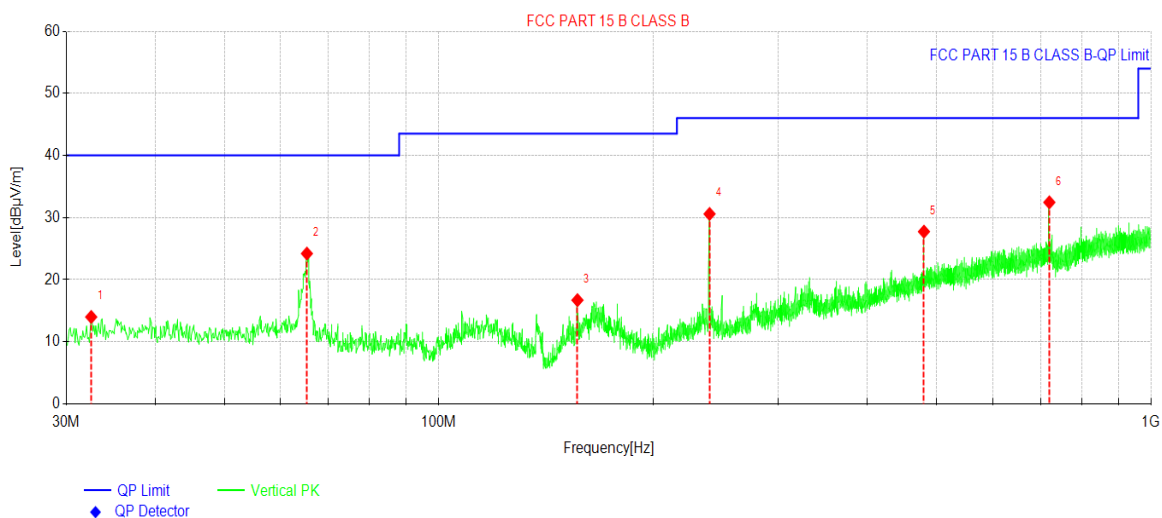
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2461.87	58.25	39.57	-18.68	74.00	34.43	PK	Horizontal
2	2481.25	49.65	31.01	-18.64	54.00	22.99	AV	Horizontal
3	3398.12	49.20	33.89	-15.31	54.00	20.11	AV	Horizontal
4	3413.75	58.51	43.27	-15.24	74.00	30.73	PK	Horizontal
5	4781.25	56.45	47.14	-9.31	74.00	26.86	PK	Horizontal
6	4811.25	47.96	38.78	-9.18	54.00	15.22	AV	Horizontal

Remark:

1. Level = Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

For 64+4T memory:

Product Name:	Mobile Phone	Product Model:	KG5q
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



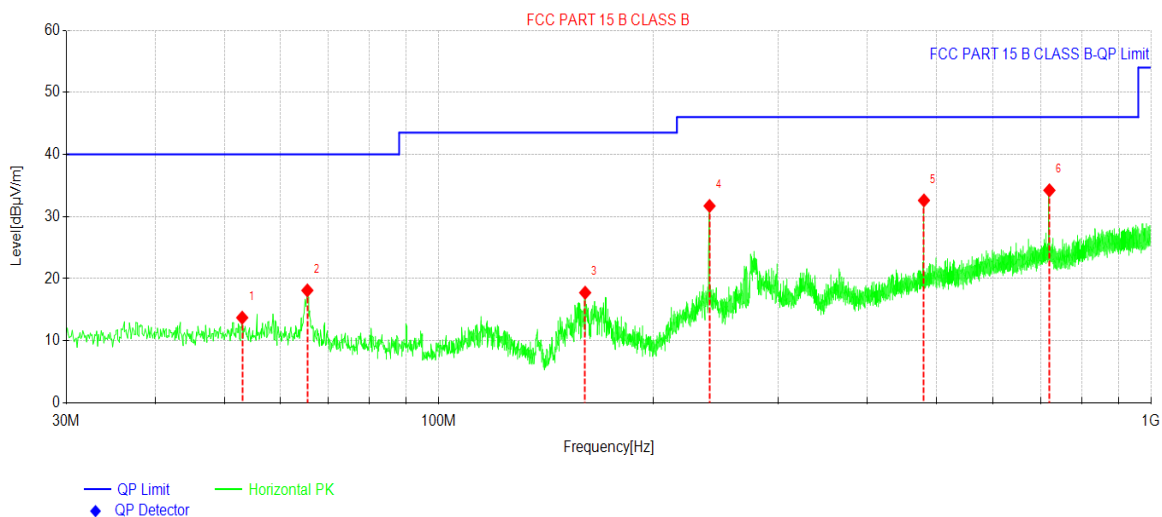
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	32.52	29.57	13.99	-15.58	40.00	26.01	PK	Vertical
2	65.31	39.91	24.20	-15.71	40.00	15.80	PK	Vertical
3	156.59	34.15	16.70	-17.45	43.50	26.80	PK	Vertical
4	240.02	44.80	30.58	-14.22	46.00	15.42	PK	Vertical
5	480.02	35.35	27.74	-7.61	46.00	18.26	PK	Vertical
6	720.12	36.53	32.45	-4.08	46.00	13.55	PK	Vertical

Remark:

1. Level = Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	KG5q
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

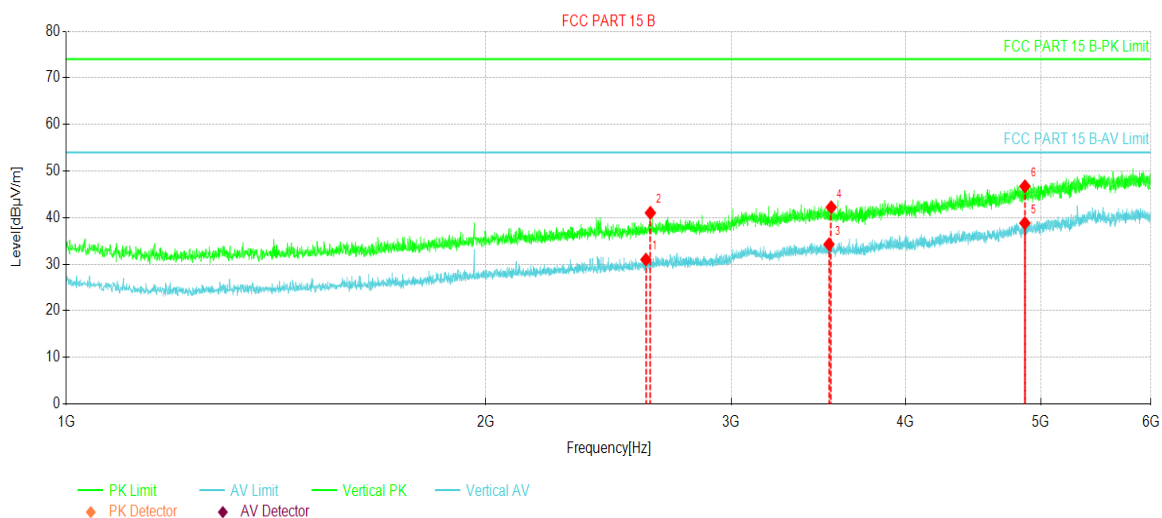


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	52.99	28.37	13.72	-14.65	40.00	26.28	PK	Horizontal
2	65.40	33.85	18.11	-15.74	40.00	21.89	PK	Horizontal
3	160.57	35.21	17.74	-17.47	43.50	25.76	PK	Horizontal
4	240.02	45.93	31.71	-14.22	46.00	14.29	PK	Horizontal
5	480.02	40.21	32.60	-7.61	46.00	13.40	PK	Horizontal
6	720.12	38.31	34.23	-4.08	46.00	11.77	PK	Horizontal

Remark:

1. Level = Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	KG5q
Test By:	Mike	Test mode:	PC mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

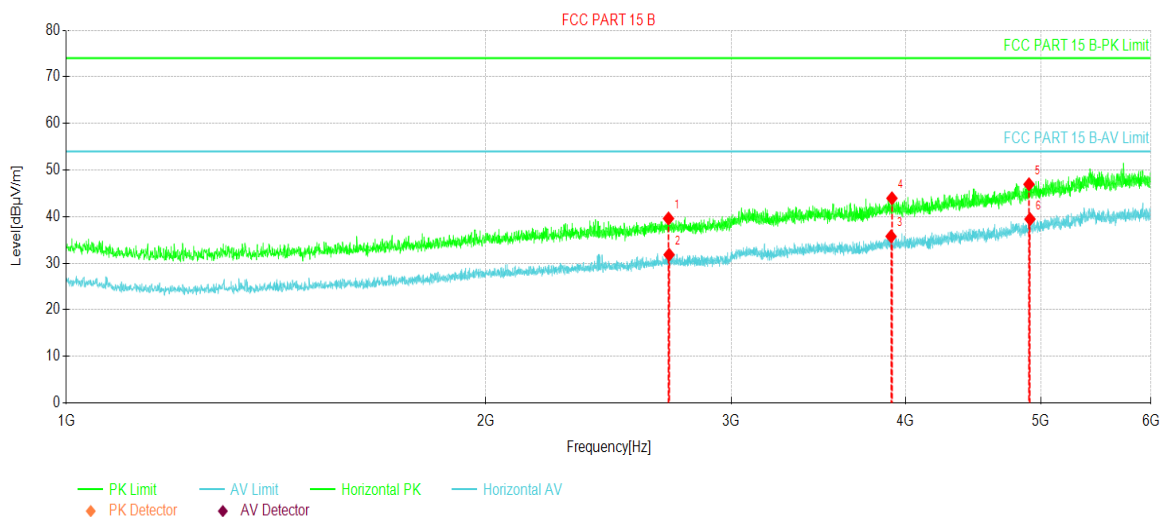


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2605.00	49.02	30.98	-18.04	54.00	23.02	AV	Vertical
2	2624.37	58.95	41.00	-17.95	74.00	33.00	PK	Vertical
3	3525.00	49.12	34.26	-14.86	54.00	19.74	AV	Vertical
4	3538.12	57.08	42.21	-14.87	74.00	31.79	PK	Vertical
5	4871.87	47.74	38.81	-8.93	54.00	15.19	AV	Vertical
6	4872.50	55.64	46.71	-8.93	74.00	27.29	PK	Vertical

Remark:

1. Level = Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	KG5q
Test By:	Mike	Test mode:	PC mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



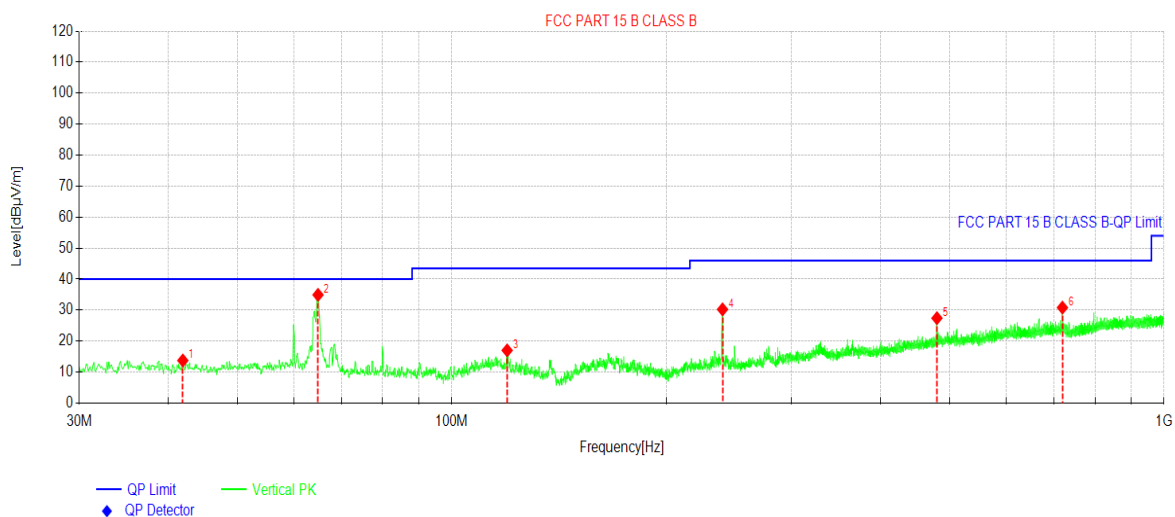
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2704.37	57.18	39.58	-17.60	74.00	34.42	PK	Horizontal
2	2706.87	49.41	31.81	-17.60	54.00	22.19	AV	Horizontal
3	3905.62	49.23	35.74	-13.49	54.00	18.26	AV	Horizontal
4	3911.25	57.39	43.92	-13.47	74.00	30.08	PK	Horizontal
5	4905.00	55.72	46.93	-8.79	74.00	27.07	PK	Horizontal
6	4913.12	48.19	39.45	-8.74	54.00	14.55	AV	Horizontal

Remark:

1. Level = Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

For 128+4V memory:

Product Name:	Mobile Phone	Product Model:	KG5q
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



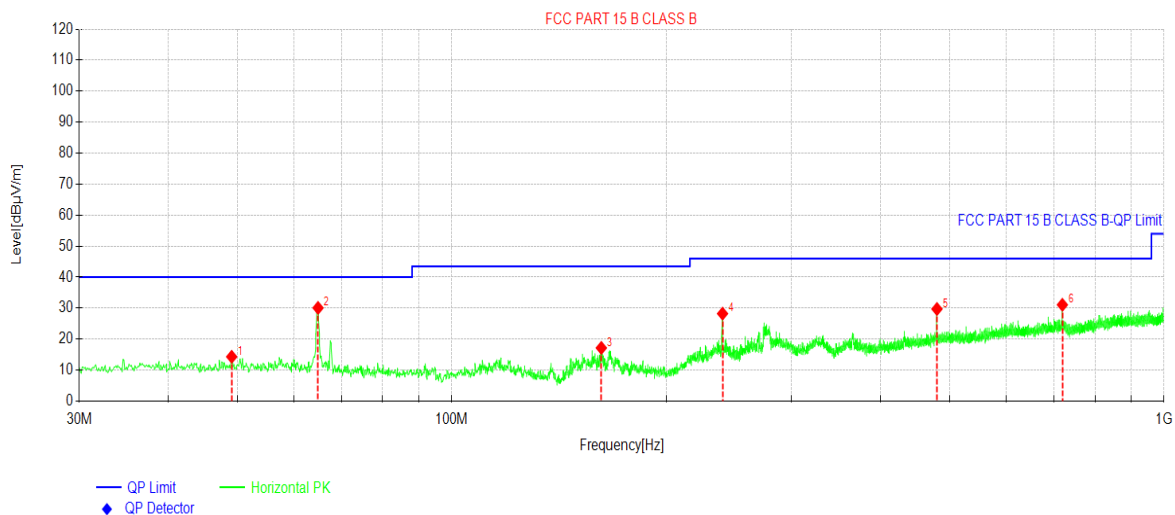
Suspected Data List

NO.	Freq. [MHz]	Reading[dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	41.93	28.43	13.75	-14.68	40.00	26.25	PK	Vertical
2	64.92	50.55	34.93	-15.62	40.00	5.07	PK	Vertical
3	119.63	33.00	17.02	-15.98	43.50	26.48	PK	Vertical
4	240.02	44.47	30.25	-14.22	46.00	15.75	PK	Vertical
5	480.02	35.02	27.41	-7.61	46.00	18.59	PK	Vertical
6	720.12	34.90	30.82	-4.08	46.00	15.18	PK	Vertical

Remark:

1. Level = Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	KG5q
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

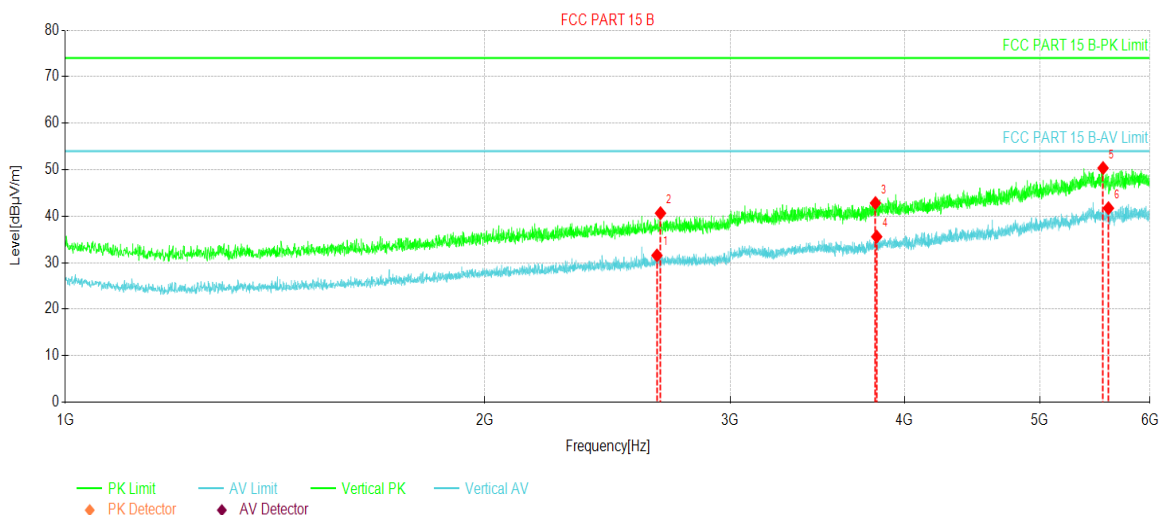


Suspected Data List								
NO.	Freq. [MHz]	Reading[dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	49.11	29.08	14.31	-14.77	40.00	25.69	PK	Horizontal
2	64.92	45.69	30.07	-15.62	40.00	9.93	PK	Horizontal
3	162.22	34.53	17.16	-17.37	43.50	26.34	PK	Horizontal
4	240.02	42.45	28.23	-14.22	46.00	17.77	PK	Horizontal
5	480.02	37.32	29.71	-7.61	46.00	16.29	PK	Horizontal
6	720.03	35.16	31.08	-4.08	46.00	14.92	PK	Horizontal

Remark:

1. Level = Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	KG5q
Test By:	Mike	Test mode:	PC mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

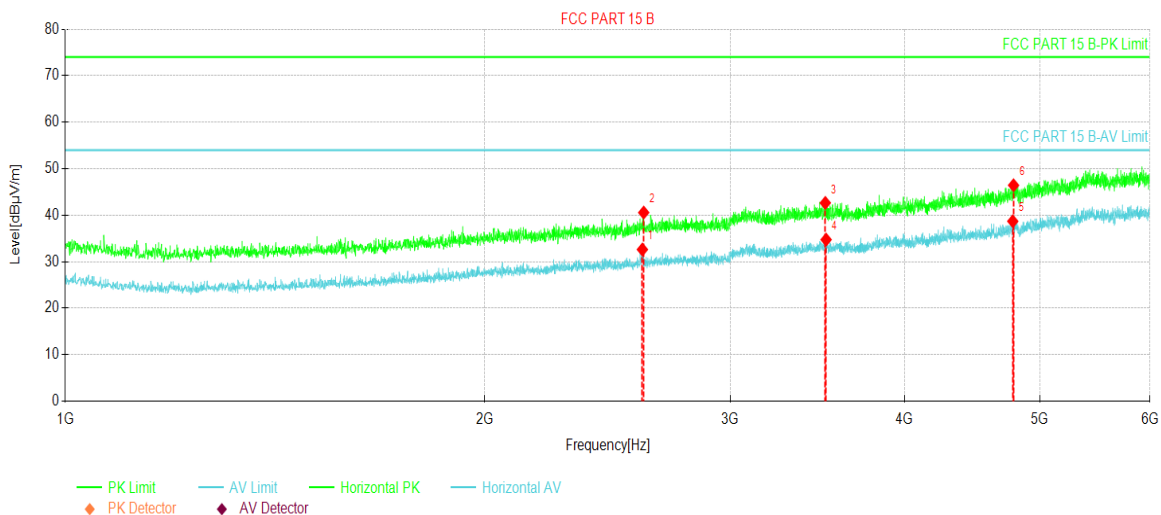


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2657.50	49.35	31.55	-17.80	54.00	22.45	AV	Vertical
2	2673.12	58.36	40.64	-17.72	74.00	33.36	PK	Vertical
3	3812.50	56.65	42.82	-13.83	74.00	31.18	PK	Vertical
4	3820.62	49.38	35.58	-13.80	54.00	18.42	AV	Vertical
5	5552.50	56.41	50.34	-6.07	74.00	23.66	PK	Vertical
6	5601.87	47.76	41.71	-6.05	54.00	12.29	AV	Vertical

Remark:

1. Level = Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Mobile Phone	Product Model:	KG5q
Test By:	Mike	Test mode:	PC mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2594.37	50.70	32.61	-18.09	54.00	21.39	AV	Horizontal
2	2600.00	58.61	40.55	-18.06	74.00	33.45	PK	Horizontal
3	3509.37	57.48	42.63	-14.85	74.00	31.37	PK	Horizontal
4	3514.37	49.58	34.73	-14.85	54.00	19.27	AV	Horizontal
5	4783.12	47.98	38.68	-9.30	54.00	15.32	AV	Horizontal
6	4789.37	55.70	46.43	-9.27	74.00	27.57	PK	Horizontal

Remark:

1. Level = Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

-----End of report-----