



TESTING LABORATORY
CERTIFICATE #4820.01



FCC PART 15.247

TEST REPORT

For

Kyocera Corporation

2-1-1 Kagahara, Tsuzuki-ku, Yokohama-shi, Kanagawa, Japan, 224-8502

FCC ID: JOYCB64

Report Type: Original Report	Product Name: GSM/WCDMA/LTE Mobile Telephone
Report Number: RDG190709011-00B	
Report Date:	2019-07-29
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:	GSM/WCDMA/LTE Mobile Telephone
EUT Model:	CB64
Operation Frequency:	2412-2462 MHz(802.11b/g/n ht20) 2402-2480 MHz(BLE)
Modulation Type:	802.11b/g/n: DSSS,OFDM BLE: GFSK
Hardware Version:	CB64
Software Version:	msm8937_64-userdebug 9
Adapter Information	Model: KYCAV1
	Input: AC 100-240V 50/60 0.3A
	Output: DC 5.0V 1.2A
External Dimension:	156mm(L)*76mm(W)*9mm(H)
Rated Input Voltage:	DC 3.85V from battery or DC 5V from adapter
Serial Number:	190709011
IMEI Number:	356283100010182
EUT Received Date:	2019-07-11

Objective

This report is prepared on behalf of **Kyocera Corporation** in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communications Commission's rules

The tests were performed in order to determine the EUT compliance with radiation spurious emission of FCC Rules Part 15, Subpart C section 15.247 and 15.209 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

Measurement Uncertainty

Parameter	Measurement Uncertainty
Unwanted Emissions, radiated	30M~200MHz: 4.55 dB, 200M~1GHz: 5.92 dB, 1G~6GHz: 4.98 dB, 6G~18GHz: 5.89 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

FINAL

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.205, §15.209, §15.247(d)	Radiation Spurious Emissions	Compliance

FINAL

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in Engineering Mode, which was provided by the manufacturer.

For 2.4GHz band, total 11 channels are provided:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

For 802.11b, 802.11g, and 802.11n ht20 modes were test with channel 1,6,11.

The worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.

For Bluetooth LE mode, 40 channels are provided for testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404
...
...
..	...	38	2478
19	2440	39	2480

EUT was tested with channel 0, 19 and 39.

EUT Exercise Software

The software “QRCT.exe” was used for testing, which was provided by manufacturer. The maximum power was configured as below table, that provided by the manufacturer:

Mode	Channel	Frequency (MHz)	Data rate	Power level Setting
802.11b	Low	2412	1 Mbps	15
	Middle	2437	1 Mbps	14
	High	2462	1 Mbps	14
802.11g	Low	2412	6 Mbps	10
	Middle	2437	6 Mbps	10
	High	2462	6 Mbps	10
802.11n ht20	Low	2412	MCS0	10
	Middle	2437	MCS0	10
	High	2462	MCS0	10

Bluetooth LE mode was configured by the system default setting

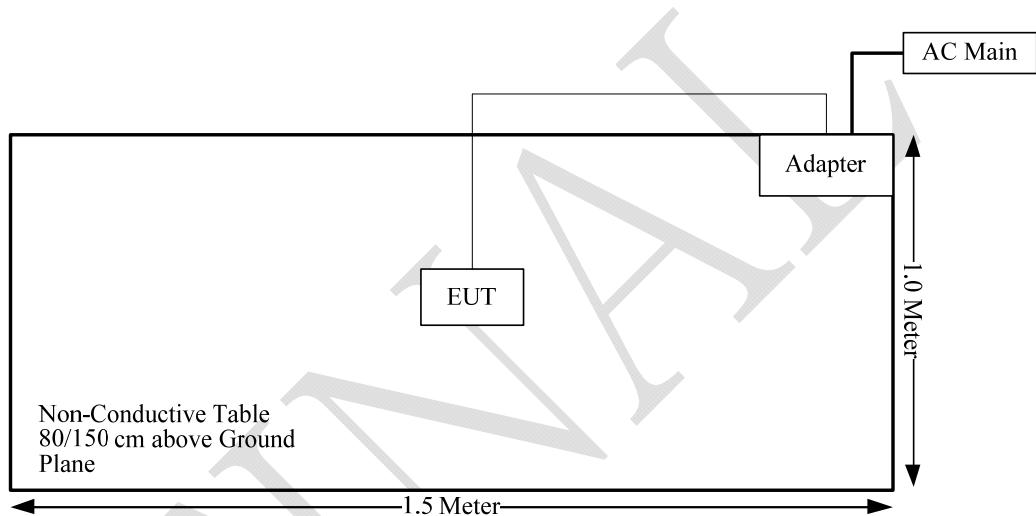
Equipment Modifications

No modification was made to the EUT.

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From	To
USB	Yes	No	1.2	Adapter	EUT

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
FCC §15.205, §15.209, §15.247(d);	Spurious Emissions	Compliance

FINAL

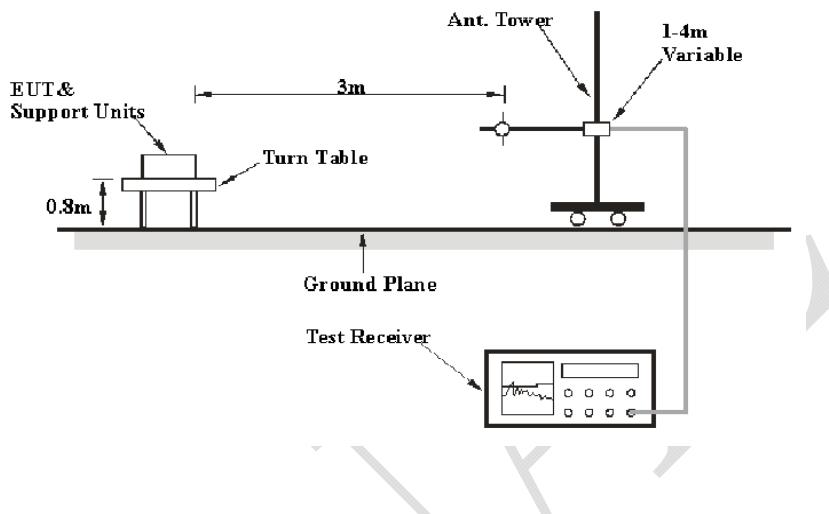
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

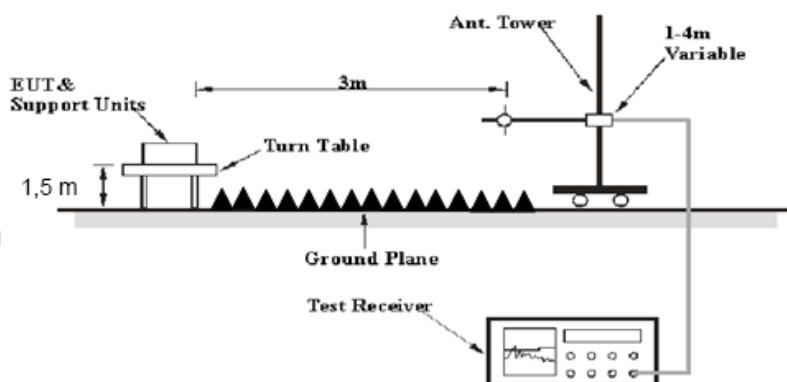
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission below 1GHz tests were performed in the 3 meters chamber A, above 1GHz tests were performed in the 3 meters chamber B, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

30MHz-1000MHz:

Measurement	RBW	Video B/W	IF B/W
QP	120 kHz	300 kHz	120kHz

1GHz- 25GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
AV	>98%	1MHz	10 Hz
	<98%	1MHz	1/T

Note: T is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated emissions below 1GHz					
R&S	EMI Test Receiver	ESR3	102453	2019-06-26	2020-06-26
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Sunol Sciences	Antenna	JB3	A060611-1	2017-11-10	2020-11-10
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2019-05-06	2020-05-06
HP	Amplifier	8447D	2727A05902	2018-09-05	2019-09-05
Radiated emissions above 1GHz					
Agilent	Spectrum Analyzer	E4440A	SG43360054	2019-01-04	2020-01-04
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
MITEQ	Amplifier	AFS42-00101800-25-S-42	2001271	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-2.4J2.4J-50	C-0700-02	2019-06-27	2020-06-27
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2016-11-18	2019-11-18
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2019-06-27	2020-06-27
E-Microwave	Band-stop Filters	OBSF-2400-2483.5-S	OE01601525	2019-06-16	2020-06-16
Micro-tronics	High Pass Filter	HPM50111	S/N-G217	2019-06-16	2020-06-16
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

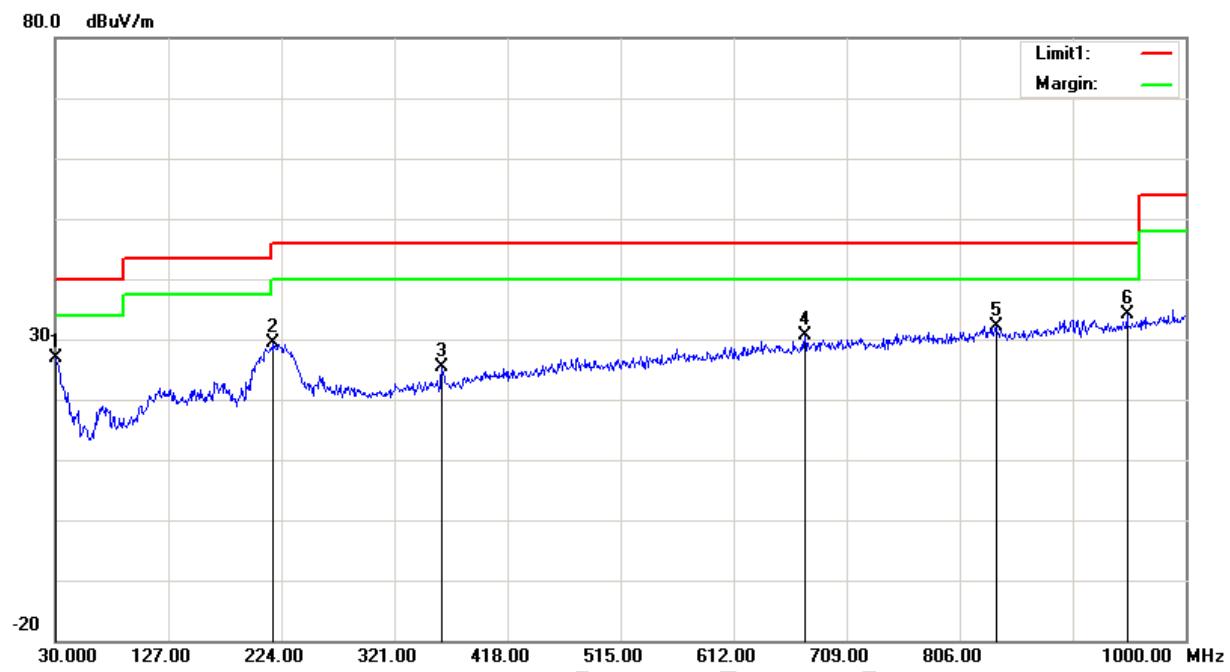
Test Data

Environmental Conditions

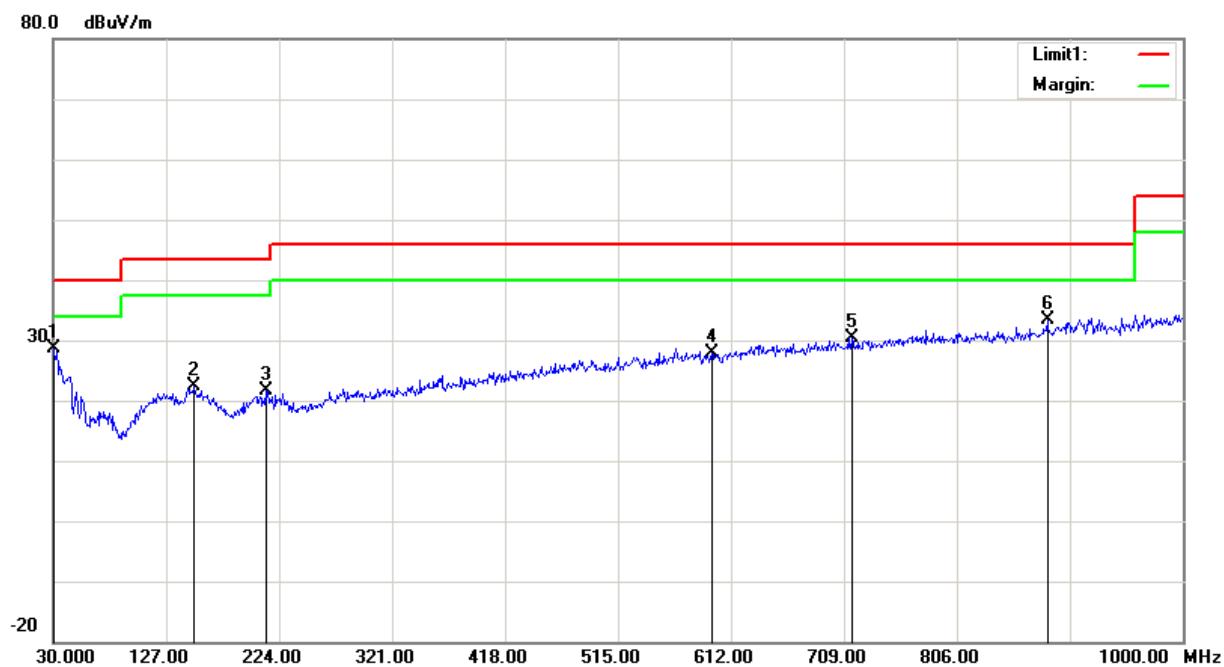
Test Items:	Radiated emissions below 1GHz	Radiated emissions above 1GHz
Temperature:	27.2°C	27.6°C
Relative Humidity:	50%	52%
ATM Pressure:	100.1kPa	100.2kPa
Test by:	Tyler Pan	Lucy Lu
Test Date:	2019-07-24	2019-07-25

Test Result: Compliance, please Refer to the following data

Test Mode: Transmitting

1) 30MHz-1GHz(802.11b mode High channel was the worst)**Horizontal:**

Frequency (MHz)	Reading (dB _u V)	Detector	Corrected (dB/m)	Result (dB _u V/m)	Limit (dB _u V/m)	Margin (dB)
30.0000	25.24	peak	1.72	26.96	40.00	13.04
217.2100	36.41	peak	-7.14	29.27	46.00	16.73
361.7400	28.13	peak	-2.80	25.33	46.00	20.67
673.1100	28.06	peak	2.45	30.51	46.00	15.49
837.0400	27.15	peak	5.05	32.20	46.00	13.80
949.5600	33.26	peak	0.85	34.11	46.00	11.89

Vertical:

Frequency (MHz)	Reading (dB μ V)	Detector	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
30.0000	26.87	peak	1.72	28.59	40.00	11.41
151.2500	28.42	peak	-5.98	22.44	43.50	21.06
212.3600	28.95	peak	-7.36	21.59	43.50	21.91
595.5100	26.90	peak	0.88	27.78	46.00	18.22
715.7900	27.10	peak	3.25	30.35	46.00	15.65
883.6000	33.78	peak	-0.30	33.48	46.00	12.52

2) 1-25GHz:
802.11b Mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2412 MHz									
2412.00	70.13	PK	H	28.12	1.81	0.00	100.06	N/A	N/A
2412.00	64.36	AV	H	28.12	1.81	0.00	94.29	N/A	N/A
2412.00	74.56	PK	V	28.12	1.81	0.00	104.49	N/A	N/A
2412.00	68.52	AV	V	28.12	1.81	0.00	98.45	N/A	N/A
2390.00	29.13	PK	V	28.08	1.80	0.00	59.01	74.00	14.99
2390.00	14.71	AV	V	28.08	1.80	0.00	44.59	54.00	9.41
4824.00	47.52	PK	V	32.95	3.19	37.20	46.46	74.00	27.54
4824.00	33.45	AV	V	32.95	3.19	37.20	32.39	54.00	21.61
7236.00	46.32	PK	V	35.81	4.77	37.27	49.63	74.00	24.37
7236.00	36.52	AV	V	35.81	4.77	37.27	39.83	54.00	14.17
Middle Channel: 2437 MHz									
2437.00	69.41	PK	H	28.17	1.82	0.00	99.40	N/A	N/A
2437.00	63.25	AV	H	28.17	1.82	0.00	93.24	N/A	N/A
2437.00	73.14	PK	V	28.17	1.82	0.00	103.13	N/A	N/A
2437.00	67.03	AV	V	28.17	1.82	0.00	97.02	N/A	N/A
4874.00	46.85	PK	V	33.05	3.26	37.21	45.95	74.00	28.05
4874.00	33.25	AV	V	33.05	3.26	37.21	32.35	54.00	21.65
7311.00	45.96	PK	V	36.01	4.64	37.36	49.25	74.00	24.75
7311.00	36.06	AV	V	36.01	4.64	37.36	39.35	54.00	14.65
High Channel: 2462 MHz									
2462.00	68.45	PK	H	28.22	1.83	0.00	98.50	N/A	N/A
2462.00	62.36	AV	H	28.22	1.83	0.00	92.41	N/A	N/A
2462.00	72.21	PK	V	28.22	1.83	0.00	102.26	N/A	N/A
2462.00	67.02	AV	V	28.22	1.83	0.00	97.07	N/A	N/A
2483.50	28.07	PK	V	28.27	1.84	0.00	58.18	74.00	15.82
2483.50	14.70	AV	V	28.27	1.84	0.00	44.81	54.00	9.19
4924.00	47.93	PK	V	33.15	3.27	37.22	47.13	74.00	26.87
4924.00	33.25	AV	V	33.15	3.27	37.22	32.45	54.00	21.55
7386.00	46.34	PK	V	36.20	4.51	37.46	49.59	74.00	24.41
7386.00	36.76	AV	V	36.20	4.51	37.46	40.01	54.00	13.99

802.11g Mode:

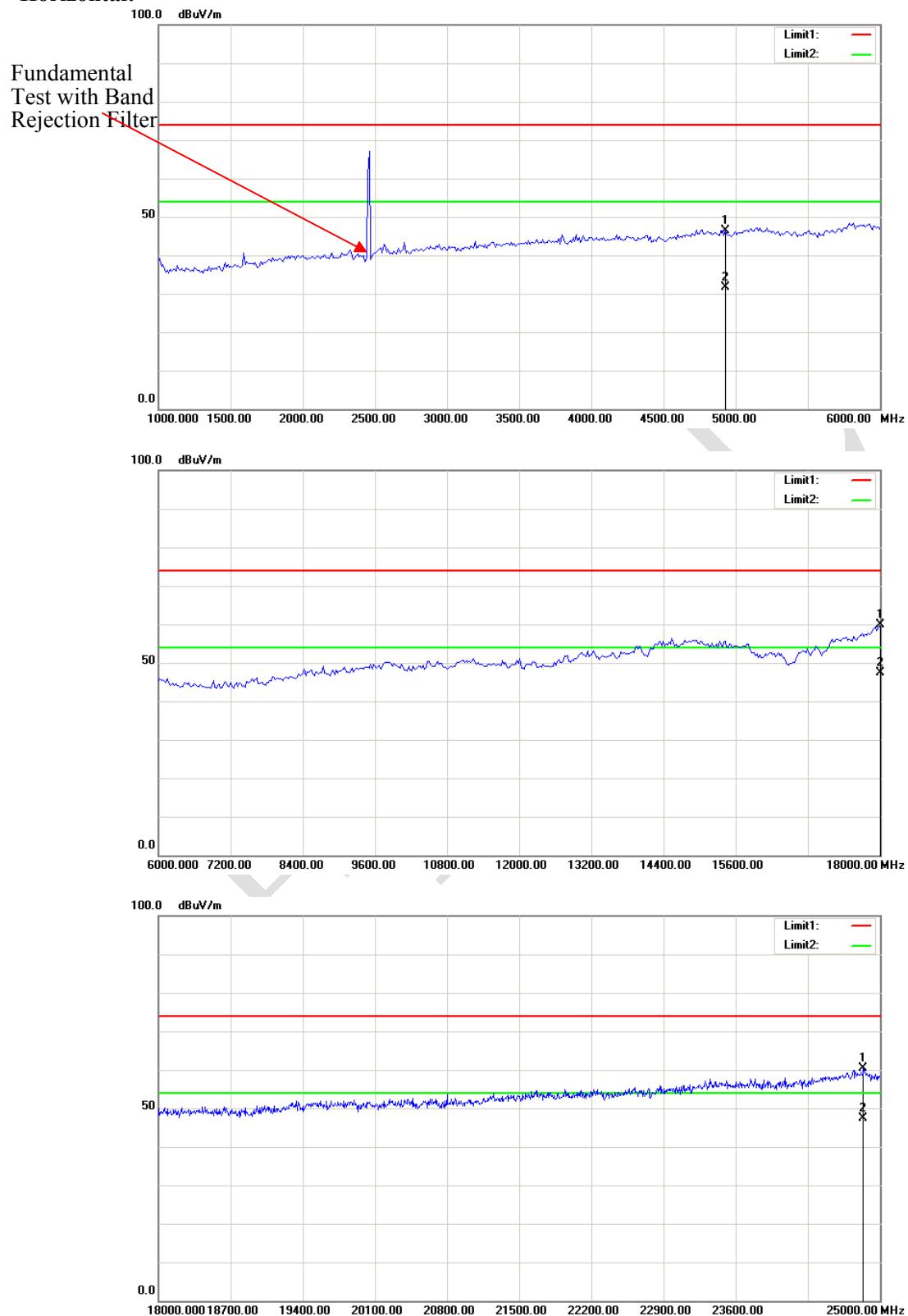
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2412 MHz									
2412.00	67.44	PK	H	28.12	1.81	0.00	97.37	N/A	N/A
2412.00	57.39	AV	H	28.12	1.81	0.00	87.32	N/A	N/A
2412.00	71.63	PK	V	28.12	1.81	0.00	101.56	N/A	N/A
2412.00	61.59	AV	V	28.12	1.81	0.00	91.52	N/A	N/A
2390.00	30.65	PK	V	28.08	1.80	0.00	60.53	74.00	13.47
2390.00	15.64	AV	V	28.08	1.80	0.00	45.52	54.00	8.48
4824.00	46.25	PK	V	32.95	3.19	37.20	45.19	74.00	28.81
4824.00	32.87	AV	V	32.95	3.19	37.20	31.81	54.00	22.19
7236.00	45.98	PK	V	35.81	4.77	37.27	49.29	74.00	24.71
7236.00	31.06	AV	V	35.81	4.77	37.27	34.37	54.00	19.63
Middle Channel: 2437 MHz									
2437.00	67.36	PK	H	28.17	1.82	0.00	97.35	N/A	N/A
2437.00	57.06	AV	H	28.17	1.82	0.00	87.05	N/A	N/A
2437.00	71.58	PK	V	28.17	1.82	0.00	101.57	N/A	N/A
2437.00	61.29	AV	V	28.17	1.82	0.00	91.28	N/A	N/A
4874.00	45.88	PK	V	33.05	3.26	37.21	44.98	74.00	29.02
4874.00	33.65	AV	V	33.05	3.26	37.21	32.75	54.00	21.25
7311.00	45.57	PK	V	36.01	4.64	37.36	48.86	74.00	25.14
7311.00	30.95	AV	V	36.01	4.64	37.36	34.24	54.00	19.76
High Channel: 2462 MHz									
2462.00	67.52	PK	H	28.22	1.83	0.00	97.57	N/A	N/A
2462.00	57.15	AV	H	28.22	1.83	0.00	87.20	N/A	N/A
2462.00	71.88	PK	V	28.22	1.83	0.00	101.93	N/A	N/A
2462.00	61.13	AV	V	28.22	1.83	0.00	91.18	N/A	N/A
2483.50	34.59	PK	V	28.27	1.84	0.00	64.70	74.00	9.30
2483.50	17.19	AV	V	28.27	1.84	0.00	47.30	54.00	6.70
4924.00	46.89	PK	V	33.15	3.27	37.22	46.09	74.00	27.91
4924.00	34.25	AV	V	33.15	3.27	37.22	33.45	54.00	20.55
7386.00	46.02	PK	V	36.20	4.51	37.46	49.27	74.00	24.73
7386.00	32.49	AV	V	36.20	4.51	37.46	35.74	54.00	18.26

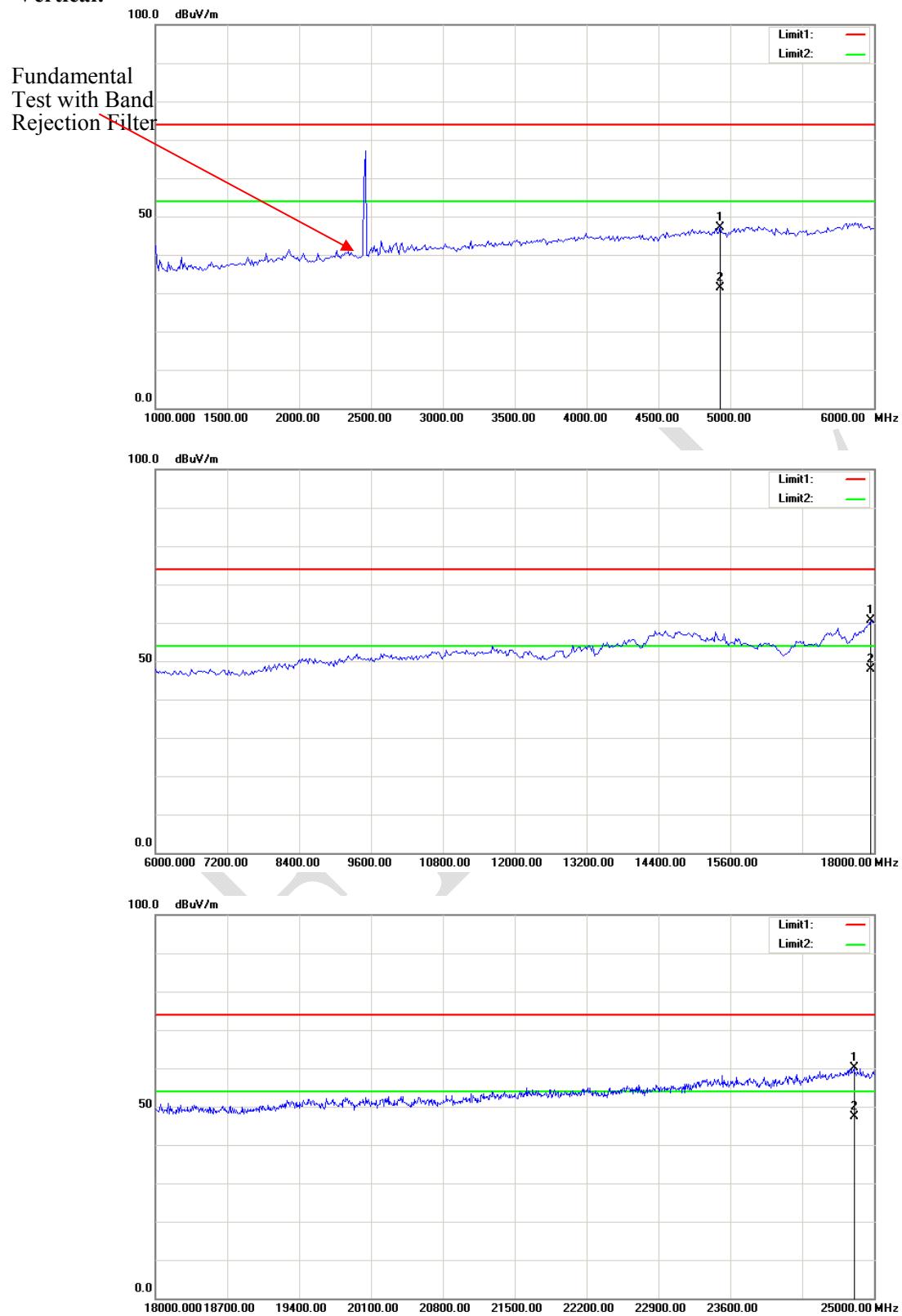
802.11n ht20 Mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2412 MHz									
2412.00	67.26	PK	H	28.12	1.81	0.00	97.19	N/A	N/A
2412.00	57.25	AV	H	28.12	1.81	0.00	87.18	N/A	N/A
2412.00	71.58	PK	V	28.12	1.81	0.00	101.51	N/A	N/A
2412.00	61.03	AV	V	28.12	1.81	0.00	90.96	N/A	N/A
2390.00	31.15	PK	V	28.08	1.80	0.00	61.03	74.00	12.97
2390.00	15.32	AV	V	28.08	1.80	0.00	45.20	54.00	8.80
4824.00	46.52	PK	V	32.95	3.19	37.20	45.46	74.00	28.54
4824.00	33.58	AV	V	32.95	3.19	37.20	32.52	54.00	21.48
7236.00	46.01	PK	V	35.81	4.77	37.27	49.32	74.00	24.68
7236.00	31.55	AV	V	35.81	4.77	37.27	34.86	54.00	19.14
Middle Channel: 2437 MHz									
2437.00	67.03	PK	H	28.17	1.82	0.00	97.02	N/A	N/A
2437.00	56.58	AV	H	28.17	1.82	0.00	86.57	N/A	N/A
2437.00	71.23	PK	V	28.17	1.82	0.00	101.22	N/A	N/A
2437.00	61.02	AV	V	28.17	1.82	0.00	91.01	N/A	N/A
4874.00	46.58	PK	V	33.05	3.26	37.21	45.68	74.00	28.32
4874.00	33.74	AV	V	33.05	3.26	37.21	32.84	54.00	21.16
7311.00	46.52	PK	V	36.01	4.64	37.36	49.81	74.00	24.19
7311.00	31.66	AV	V	36.01	4.64	37.36	34.95	54.00	19.05
High Channel: 2462 MHz									
2462.00	67.39	PK	H	28.22	1.83	0.00	97.44	N/A	N/A
2462.00	56.32	AV	H	28.22	1.83	0.00	86.37	N/A	N/A
2462.00	71.33	PK	V	28.22	1.83	0.00	101.38	N/A	N/A
2462.00	60.99	AV	V	28.22	1.83	0.00	91.04	N/A	N/A
2483.50	32.65	PK	V	28.27	1.84	0.00	62.76	74.00	11.24
2483.50	17.52	AV	V	28.27	1.84	0.00	47.63	54.00	6.37
4924.00	46.36	PK	V	33.15	3.27	37.22	45.56	74.00	28.44
4924.00	33.70	AV	V	33.15	3.27	37.22	32.90	54.00	21.10
7386.00	45.89	PK	V	36.20	4.51	37.46	49.14	74.00	24.86
7386.00	31.75	AV	V	36.20	4.51	37.46	35.00	54.00	19.00

BLE Mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2402 MHz									
2402.00	59.72	PK	H	28.10	1.80	0.00	89.62	N/A	N/A
2402.00	58.57	AV	H	28.10	1.80	0.00	88.47	N/A	N/A
2402.00	60.99	PK	V	28.10	1.80	0.00	90.89	N/A	N/A
2402.00	59.68	AV	V	28.10	1.80	0.00	89.58	N/A	N/A
2390.00	26.92	PK	V	28.08	1.80	0.00	56.80	74.00	17.20
2390.00	14.29	AV	V	28.08	1.80	0.00	44.17	54.00	9.83
4804.00	47.15	PK	V	32.91	3.17	37.20	46.03	74.00	27.97
4804.00	35.67	AV	V	32.91	3.17	37.20	34.55	54.00	19.45
7206.00	45.13	PK	V	35.74	4.82	37.23	48.46	74.00	25.54
7206.00	32.51	AV	V	35.74	4.82	37.23	35.84	54.00	18.16
Middle Channel: 2440 MHz									
2440.00	59.12	PK	H	28.18	1.82	0.00	89.12	N/A	N/A
2440.00	58.63	AV	H	28.18	1.82	0.00	88.63	N/A	N/A
2440.00	61.20	PK	V	28.18	1.82	0.00	91.20	N/A	N/A
2440.00	60.57	AV	V	28.18	1.82	0.00	90.57	N/A	N/A
4880.00	47.25	PK	V	33.06	3.27	37.21	46.37	74.00	27.63
4880.00	35.66	AV	V	33.06	3.27	37.21	34.78	54.00	19.22
7320.00	45.95	PK	V	36.03	4.62	37.37	49.23	74.00	24.77
7320.00	32.89	AV	V	36.03	4.62	37.37	36.17	54.00	17.83
High Channel: 2480 MHz									
2480.00	60.15	PK	H	28.26	1.84	0.00	90.25	N/A	N/A
2480.00	59.12	AV	H	28.26	1.84	0.00	89.22	N/A	N/A
2480.00	61.57	PK	V	28.26	1.84	0.00	91.67	N/A	N/A
2480.00	61.00	AV	V	28.26	1.84	0.00	91.10	N/A	N/A
2483.50	27.33	PK	V	28.27	1.84	0.00	57.44	74.00	16.56
2483.50	14.96	AV	V	28.27	1.84	0.00	45.07	54.00	8.93
4960.00	47.25	PK	V	33.22	3.23	37.25	46.45	74.00	27.55
4960.00	35.84	AV	V	33.22	3.23	37.25	35.04	54.00	18.96
7440.00	46.50	PK	V	36.34	4.41	37.52	49.73	74.00	24.27
7440.00	33.87	AV	V	36.34	4.41	37.52	37.10	54.00	16.90

Test plots(802.11b High channel was the worst)**Horizontal:**

Vertical:

Simultaneous Transmitting(802.11b mode High Channel+PCS 1900 Middle channel was the worst):

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Remark	Polar (H/V)	Factor (dB/m)					
361.74	36.57	QP	H	14.63	2.40	25.85	27.75	46.00	18.25
768.17	36.99	QP	H	21.06	3.78	26.75	35.08	46.00	10.92
222.06	38.74	QP	V	10.80	1.88	25.50	25.92	46.00	20.08
446.13	39.64	QP	V	16.62	2.70	26.63	32.33	46.00	13.67
4924.00	48.72	PK	V	33.15	3.27	37.22	47.92	74.00	26.08
4924.00	35.41	AV	V	33.15	3.27	37.22	34.61	54.00	19.39
7386.00	47.23	PK	V	36.20	4.51	37.46	50.48	74.00	23.52
7386.00	37.25	AV	V	36.20	4.51	37.46	40.50	54.00	13.50
3760	57.26	PK	V	31.87	2.52	37.01	54.64	82.20	27.56
3760	55.96	PK	H	31.87	2.52	37.01	53.34	82.20	28.86

Note: 3760 MHz is the harmonics of PCS 1900 Middle channel, it is limited by -13dBm(=82.2 dB μ V/m)

***** END OF REPORT *****