# 2) Sequence of testing 30 MHz to 1 GHz

#### Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

#### Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 3 meter.
- --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

#### Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm$  45°) and antenna movement between 1 and 4 meter.
- --- The final measurement will be done with QP detector with an EMI receiver.
- --- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

# 3) Sequence of testing 1 GHz to 18 GHz

#### Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

#### Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 2.5 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

#### Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm$  45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

# 4) Sequence of testing above 18 GHz

## Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 1 meter.
- --- The EUT was set into operation.

#### Premeasurement:

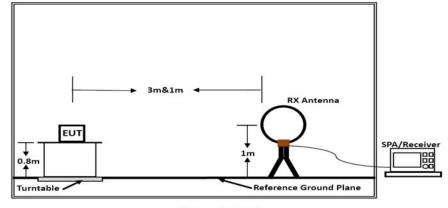
--- The antenna is moved spherical over the EUT in different polarizations of the antenna.

#### Final measurement:

- --- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

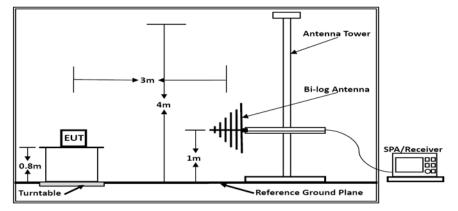
### 5.4.4. Test Setup Layout

For radiated emissions below 30MHz

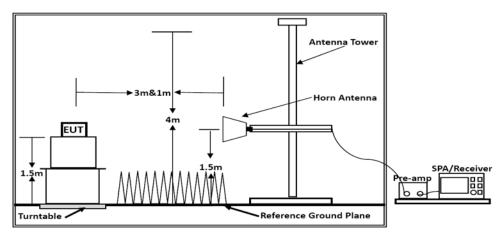


Below 30MHz

For radiated emissions above 30MHz



Below 1GHz



Above 1GHz

Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distanc [3m] / test distance [1.5m]) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

# 5.4.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

# 5.4.6. Results of Radiated Emissions (9 kHz~30MHz)

Temperature	25°C	Humidity	60%
Test Engineer	Dick	Configurations	802.11b/g/n/BLE

Freq.	Level	Over Limit	Over Limit	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

#### Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

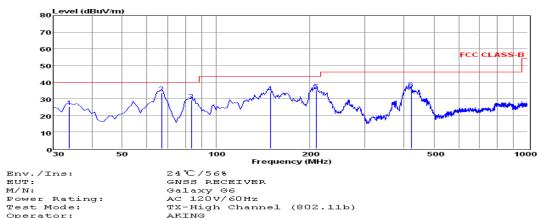
Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

6.5.7. Results of Radiated Emissions (30MHz~1GHz)

# 5.4.7. Results of Radiated Emissions (30MHz~1GHz)

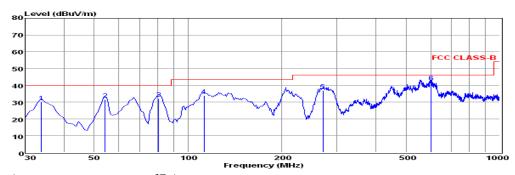
Temperature	25°C	Humidity	60%
Test Engineer	Aking	Configurations	802.11b (High Channel)



EUT: M/N: Power Rating: Test Mode: Operator:	GNSS RECEIVER Galaxy G6 AC 120V/60Hz TX-High Channel (802.11k AKING
Memo: pol:	VERTICAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dВ	
1	33.88	12.54	0.37	12.31	25.22	40.00	-14.78	QP
2	66.86	23.27	0.52	9.94	33.73	40.00	-6.27	QP
3	83.35	18.77	0.54	9.73	29.04	40.00	-10.96	QP
4	149.31	24.84	0.86	8.26	33.96	43.50	-9.54	QP
5	209.45	23.31	0.86	10.87	35.04	43.50	-8.46	QP
6	422.85	19.03	1.33	15.48	35.84	46.00	-10.16	QP

Note: 1. All readings are Quasi-peak values. 2. Measured= Reading + Antenna Factor + Cable Loss 3. The emission that ate 20db blow the offficial limit are not reported



Env./Ins: EUT: M/N: Power Rati: Test Mode: Operator: Memo: pol: Rating:

24°C/56% GNSS RECEIVER GNSS RECEIVED Galaxy G6 AC 120V/60Hz TX-High Channel (802.11b)

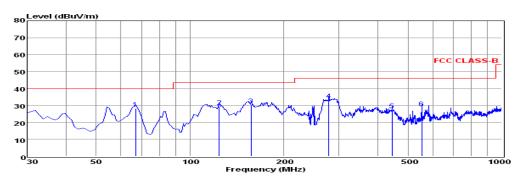
AKING

HORIZONTAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dВ	
1	33.88	17.37	0.37	12.31	30.05	40.00	-9.95	QP
2	54.25	18.02	0.46	13.05	31.53	40.00	-8.47	QP
3	80.44	22.75	0.65	8.70	32.10	40.00	-7.90	QP
4	112.45	21.55	0.65	11.82	34.02	43.50	-9.48	QP
5	270.56	23.56	0.99	12.38	36.93	46.00	-9.07	QP
6	603.27	21.96	1.55	18.46	41.97	46.00	-4.03	QP

Note: 1. All readings are Quasi-peak values. 2. Measured= Reading + Antenna Factor + Cable Loss 3. The emission that ate 20db blow the offficial limit are not reported

Temperature	25°C	Humidity	60%
Test Engineer	Aking	Configurations	BLE (Low Channel)



Env./Ins: EUT: M/N:

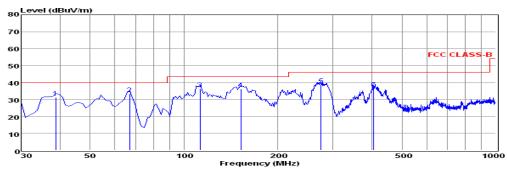
24°C/56° GNSS RECEIVER Galaxy G6 AC 120V/60Hz BLE ARING

Power Rating: Test Mode: Operator: Memo:

pol: HORIZONTAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dВ	
1	66.86	17.74	0.52	9.94	28.20	40.00	-11.80	QP
2	124.09	18.96	0.71	9.85	29.52	43.50	-13.98	QP
3	157.07	21.09	0.83	8.55	30.47	43.50	-13.03	QP
4	278.32	19.82	1.01	12.62	33.45	46.00	-12.55	QP
5	445.16	10.38	1.42	15.57	27.37	46.00	-18.63	QP
6	552.83	9.58	1.46	17.57	28.61	46.00	-17.39	QP

Note: 1. All readings are Quasi-peak values. 2. Measured= Reading + Antenna Factor + Cable Loss 3. The emission that ate 20db blow the offficial limit are not reported



Env./Ins: EUT: M/N: Power Rating: Test Mode: Operator: Memo:

pol:

24°C/56% GNSS RECEIVER Galaxy G6 AC 120V/60Hz BLE AKING

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dВ	
1	38.73	17.73	0.38	13.25	31.36	40.00	-8.64	QP
2	66.86	22.73	0.52	9.94	33.19	40.00	-6.81	QP
3	112.45	23.90	0.65	11.82	36.37	43.50	-7.13	QP
4	152.22	27.13	0.73	8.35	36.21	43.50	-7.29	QP
5	275.41	25.13	1.00	12.53	38.66	46.00	-7.34	QP
6	406.36	20.07	1.17	15.19	36.43	46.00	-9.57	QP

VERTICAL

Note: 1. All readings are Quasi-peak values. 2. Measured= Reading + Antenna Factor + Cable Loss 3. The emission that ate 20db blow the offficial limit are not reported

# \*\*\*Note:

Pre-scan all modes and recorded the worst case results in this report (802.11b (High Channel) and BLE (High Channel)).

Emission level  $(dBuV/m) = 20 \log Emission level (uV/m)$ .

 $Corrected\ Reading: Antenna\ Factor + Cable\ Loss + Read\ Level - Preamp\ Factor = Level.$ 

# **5.4.8.** Results for Radiated Emissions (Above 1GHz)

Note: Only recorded the worst test result.

BLE 4.0

# Channel 1

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.17	43.52	33.06	35.04	3.94	45.48	74	-28.52	Peak	Horizontal
4804.20	39.97	33.06	35.04	3.94	41.93	54	-12.07	Average	Horizontal
4804.17	50.46	33.06	35.04	3.94	52.42	74	-21.58	Peak	Vertical
4804.20	41.30	33.06	35.04	3.94	43.26	54	-10.74	Average	Vertical

# Channel 20

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4880.24	45.26	33.16	35.15	3.96	47.23	74	-26.77	Peak	Horizontal
4880.26	38.87	33.16	35.15	3.96	40.84	54	-13.16	Average	Horizontal
4880.24	49.04	33.16	35.15	3.96	51.01	74	-22.99	Peak	Vertical
4880.26	39.38	33.16	35.15	3.96	41.35	54	-12.65	Average	Vertical

# Channel 40

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.33	42.62	33.26	35.14	3.98	44.72	74	-29.28	Peak	Horizontal
4960.36	35.71	33.26	35.14	3.98	37.81	54	-16.19	Average	Horizontal
4960.33	49.07	33.26	35.14	3.98	51.17	74	-22.83	Peak	Vertical
4960.36	40.53	33.26	35.14	3.98	42.63	54	-11.37	Average	Vertical

### 802.11b

# Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.17	55.36	33.06	35.04	3.94	57.32	74	-16.68	Peak	Horizontal
4824.19	38.42	33.06	35.04	3.94	40.38	54	-13.62	Average	Horizontal
4824.17	50.95	33.06	35.04	3.94	52.91	74	-21.09	Peak	Vertical
4824.19	40.23	33.06	35.04	3.94	42.19	54	-11.81	Average	Vertical

# Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.31	51.26	33.16	35.15	3.96	53.23	74	-20.77	Peak	Horizontal
4874.33	38.68	33.16	35.15	3.96	40.65	54	-13.35	Average	Horizontal
4874.31	49.30	33.16	35.15	3.96	51.27	74	-22.73	Peak	Vertical
4874.33	40.29	33.16	35.15	3.96	42.26	54	-11.74	Average	Vertical

# Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.34	51.23	33.26	35.14	3.98	53.33	74	-20.67	Peak	Horizontal
4924.37	36.32	33.26	35.14	3.98	38.42	54	-15.58	Average	Horizontal
4924.34	50.00	33.26	35.14	3.98	52.10	74	-21.90	Peak	Vertical
4924.37	40.36	33.26	35.14	3.98	42.46	54	-11.54	Average	Vertical

802.11g

# Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.23	55.36	33.06	35.04	3.94	57.32	74	-16.68	Peak	Horizontal
4824.25	42.62	33.06	35.04	3.94	44.58	54	-9.42	Average	Horizontal
4824.23	55.32	33.06	35.04	3.94	57.28	74	-16.72	Peak	Vertical
4824.25	46.52	33.06	35.04	3.94	48.48	54	-5.52	Average	Vertical

# Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.36	51.26	33.16	35.15	3.96	53.23	74	-20.77	Peak	Horizontal
4874.39	42.36	33.16	35.15	3.96	44.33	54	-9.67	Average	Horizontal
4874.36	50.39	33.16	35.15	3.96	52.36	74	-21.64	Peak	Vertical
4874.39	43.23	33.16	35.15	3.96	45.20	54	-8.80	Average	Vertical

# Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.41	53.22	33.26	35.14	3.98	55.32	74	-18.68	Peak	Horizontal
4924.44	43.65	33.26	35.14	3.98	45.75	54	-8.25	Average	Horizontal
4924.41	50.33	33.26	35.14	3.98	52.43	74	-21.57	Peak	Vertical
4924.44	44.63	33.26	35.14	3.98	46.73	54	-7.27	Average	Vertical

### 802.11n HT20

# Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.18	55.36	33.06	35.04	3.94	57.32	74	-16.68	Peak	Horizontal
4824.20	42.09	33.06	35.04	3.94	44.05	54	-9.95	Average	Horizontal
4824.18	50.81	33.06	35.04	3.94	52.77	74	-21.23	Peak	Vertical
4824.20	40.22	33.06	35.04	3.94	42.18	54	-11.82	Average	Vertical

### Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.33	51.26	33.16	35.15	3.96	53.23	74	-20.77	Peak	Horizontal
4874.36	42.36	33.16	35.15	3.96	44.33	54	-9.67	Average	Horizontal
4874.33	46.78	33.16	35.15	3.96	48.75	74	-25.25	Peak	Vertical
4874.36	43.23	33.16	35.15	3.96	45.20	54	-8.80	Average	Vertical

### Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.43	53.22	33.26	35.14	3.98	55.32	74	-18.68	Peak	Horizontal
4924.45	43.65	33.26	35.14	3.98	45.75	54	-8.25	Average	Horizontal
4924.43	50.33	33.26	35.14	3.98	52.43	74	-21.57	Peak	Vertical
4924.45	44.63	33.26	35.14	3.98	46.73	54	-7.27	Average	Vertical

### Notes:

- 1. Measuring frequencies from 9k~10th harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.
- 2. Radiated emissions measured in frequency range from 30MHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
- 3. The radiated emissions from 18GHz to 25GHz are at least 20dB below the official limit and no need to report.

# **5.4.9.** Results of Band Edges Test (Radiated)

Note: Only recorded the worst test result.

BLE 4.0

Tx-2402

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2374.61	48.66	32.89	35.16	3.51	49.90	74	-24.10	Peak	Horizontal
2374.63	31.68	32.90	35.16	3.51	32.93	54	-21.07	Average	Horizontal
2390.00	45.09	32.92	35.16	3.54	46.39	74	-27.61	Peak	Horizontal
2389.97	36.74	32.92	35.16	3.54	38.04	54	-15.96	Average	Horizontal
2400.00	44.70	32.92	35.16	3.54	46.00	74	-28.00	Peak	Horizontal
2399.99	37.37	32.92	35.16	3.54	38.67	54	-15.33	Average	Horizontal
2374.61	43.19	32.89	35.16	3.51	44.43	74	-29.57	Peak	Vertical
2374.63	33.24	32.90	35.16	3.51	34.49	54	-19.51	Average	Vertical
2390.00	45.52	32.92	35.16	3.54	46.82	74	-27.18	Peak	Vertical
2389.97	34.70	32.92	35.16	3.54	36.00	54	-18.00	Average	Vertical
2400.00	44.91	32.92	35.16	3.54	46.21	74	-27.79	Peak	Vertical
2399.99	35.71	32.92	35.16	3.54	37.01	54	-16.99	Average	Vertical

Tx-2480

	1X-2480	1							
Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	48.62	33.06	35.18	3.60	50.10	74	-23.90	Peak	Horizontal
2483.51	36.60	33.08	35.18	3.60	38.10	54	-15.90	Average	Horizontal
2487.57	41.96	33.08	35.18	3.62	43.48	74	-30.52	Peak	Horizontal
2487.60	30.59	33.08	35.18	3.62	32.11	54	-21.89	Average	Horizontal
2483.50	44.68	33.06	35.18	3.60	46.16	74	-27.84	Peak	Vertical
2483.51	35.80	33.08	35.18	3.60	37.30	54	-16.70	Average	Vertical
2487.57	42.91	33.08	35.18	3.62	44.43	74	-29.57	Peak	Vertical
2487.60	33.99	33.08	35.18	3.62	35.51	54	-18.49	Average	Vertical

# 802.11b

# Tx-2412

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
2371.86	48.66	32.89	35.16	3.51	49.90	74	-24.10	Peak	Horizontal
2371.89	37.29	32.90	35.16	3.51	38.54	54	-15.46	Average	Horizontal
2390.00	46.64	32.92	35.16	3.54	47.94	74	-26.06	Peak	Horizontal
2389.97	36.06	32.92	35.16	3.54	37.36	54	-16.64	Average	Horizontal
2400.00	47.27	32.92	35.16	3.54	48.57	74	-25.43	Peak	Horizontal
2399.98	35.83	32.92	35.16	3.54	37.13	54	-16.87	Average	Horizontal
2371.86	42.26	32.89	35.16	3.51	43.50	74	-30.50	Peak	Vertical
2371.89	33.84	32.90	35.16	3.51	35.09	54	-18.91	Average	Vertical
2390.00	44.97	32.92	35.16	3.54	46.27	74	-27.73	Peak	Vertical
2389.97	34.50	32.92	35.16	3.54	35.80	54	-18.20	Average	Vertical
2400.00	45.36	32.92	35.16	3.54	46.66	74	-27.34	Peak	Vertical
2399.98	35.32	32.92	35.16	3.54	36.62	54	-17.38	Average	Vertical

# Tx-2462

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
2483.50	48.62	33.06	35.18	3.60	50.10	74	-23.90	Peak	Horizontal
2483.51	36.92	33.08	35.18	3.60	38.42	54	-15.58	Average	Horizontal
2489.15	42.82	33.08	35.18	3.62	44.34	74	-29.66	Peak	Horizontal
2489.17	32.29	33.08	35.18	3.62	33.81	54	-20.19	Average	Horizontal
2483.50	44.05	33.06	35.18	3.60	45.53	74	-28.47	Peak	Vertical
2483.53	36.92	33.08	35.18	3.60	38.42	54	-15.58	Average	Vertical
2489.15	44.31	33.08	35.18	3.62	45.83	74	-28.17	Peak	Vertical
2489.17	32.89	33.08	35.18	3.62	34.41	54	-19.59	Average	Vertical

802.11g

Tx-2412

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
2375.54	48.66	32.89	35.16	3.51	49.90	74	-24.10	Peak	Horizontal
2375.57	36.02	32.90	35.16	3.51	37.27	54	-16.73	Average	Horizontal
2390.00	50.46	32.92	35.16	3.54	51.76	74	-22.24	Peak	Horizontal
2389.97	40.38	32.92	35.16	3.54	41.68	54	-12.32	Average	Horizontal
2400.00	49.56	32.92	35.16	3.54	50.86	74	-23.14	Peak	Horizontal
2399.97	41.27	32.92	35.16	3.54	42.57	54	-11.43	Average	Horizontal
2375.54	42.69	32.89	35.16	3.51	43.93	74	-30.07	Peak	Vertical
2375.57	33.87	32.90	35.16	3.51	35.12	54	-18.88	Average	Vertical
2390.00	44.38	32.92	35.16	3.54	45.68	74	-28.32	Peak	Vertical
2389.97	34.93	32.92	35.16	3.54	36.23	54	-17.77	Average	Vertical
2400.00	44.60	32.92	35.16	3.54	45.90	74	-28.10	Peak	Vertical
2399.97	35.91	32.92	35.16	3.54	37.21	54	-16.79	Average	Vertical

Tx-2462

	1.4-2402								
Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
2483.50	48.62	33.06	35.18	3.60	50.10	74	-23.90	Peak	Horizontal
2483.51	35.50	33.08	35.18	3.60	37.00	54	-17.00	Average	Horizontal
2488.13	44.90	33.08	35.18	3.62	46.42	74	-27.58	Peak	Horizontal
2488.15	32.50	33.08	35.18	3.62	34.02	54	-19.98	Average	Horizontal
2483.50	45.34	33.06	35.18	3.60	46.82	74	-27.18	Peak	Vertical
2483.51	34.67	33.08	35.18	3.60	36.17	54	-17.83	Average	Vertical
2488.13	42.92	33.08	35.18	3.62	44.44	74	-29.56	Peak	Vertical
2488.15	31.50	33.08	35.18	3.62	33.02	54	-20.98	Average	Vertical

# 802.11n (HT20)

Tx-2412

	17-2-1								
Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
2373.26	48.66	32.89	35.16	3.51	49.90	74	-24.10	Peak	Horizontal
2373.29	33.28	32.90	35.16	3.51	34.53	54	-19.47	Average	Horizontal
2390.00	46.42	32.92	35.16	3.54	47.72	74	-26.28	Peak	Horizontal
2389.97	36.04	32.92	35.16	3.54	37.34	54	-16.66	Average	Horizontal
2400.00	45.66	32.92	35.16	3.54	46.96	74	-27.04	Peak	Horizontal
2399.97	35.21	32.92	35.16	3.54	36.51	54	-17.49	Average	Horizontal
2373.26	43.79	32.89	35.16	3.51	45.03	74	-28.97	Peak	Vertical
2373.29	33.40	32.90	35.16	3.51	34.65	54	-19.35	Average	Vertical
2390.00	45.46	32.92	35.16	3.54	46.76	74	-27.24	Peak	Vertical
2389.97	34.18	32.92	35.16	3.54	35.48	54	-18.52	Average	Vertical
2400.00	45.92	32.92	35.16	3.54	47.22	74	-26.78	Peak	Vertical
2399.97	34.37	32.92	35.16	3.54	35.67	54	-18.33	Average	Vertical

Tx-2462

	1 X-2402								
Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
2483.50	48.62	33.06	35.18	3.60	50.10	74	-23.90	Peak	Horizontal
2483.51	35.06	33.08	35.18	3.60	36.56	54	-17.44	Average	Horizontal
2487.44	43.30	33.08	35.18	3.62	44.82	74	-29.18	Peak	Horizontal
2487.46	34.02	33.08	35.18	3.62	35.54	54	-18.46	Average	Horizontal
2483.50	45.12	33.06	35.18	3.60	46.60	74	-27.40	Peak	Vertical
2483.53	36.39	33.08	35.18	3.60	37.89	54	-16.11	Average	Vertical
2487.44	44.37	33.08	35.18	3.62	45.89	74	-28.11	Peak	Vertical
2487.46	32.82	33.08	35.18	3.62	34.34	54	-19.66	Average	Vertical

# 5.5. Conducted Spurious Emissions and Band Edges Test

### 5.5.1. Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in§15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see§15.205(c)).

### 5.5.2. Instruments Setting

The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Detector	Peak
Attenuation	Auto
RB / VB (Emission in restricted band)	100KHz/300KHz
RB / VB (Emission in non-restricted band)	100KHz/300KHz

#### 5.5.3. Test Procedures

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz

The spectrum from 9 kHz to 26.5GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

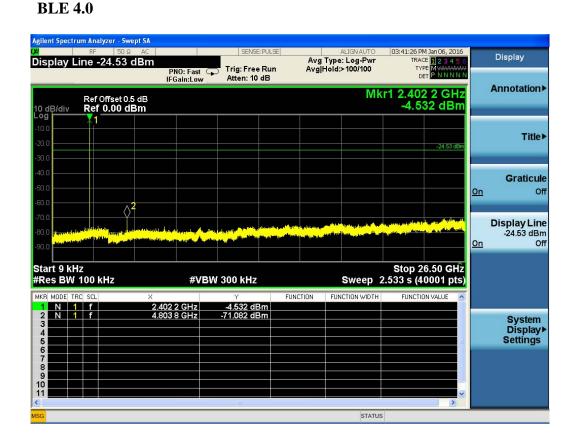
#### 5.5.4. Test Setup Layout

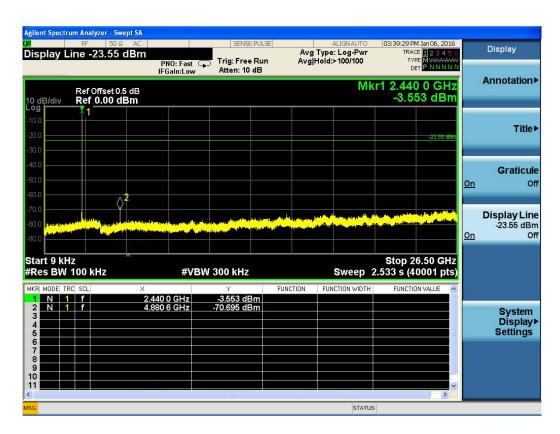
This test setup layout is the same as that shown in section 5.3.4.

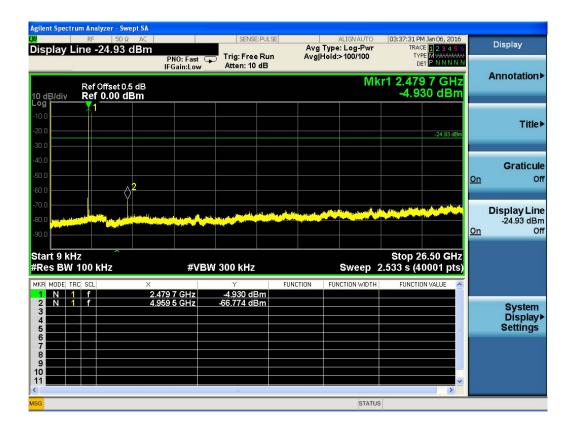
# 5.5.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

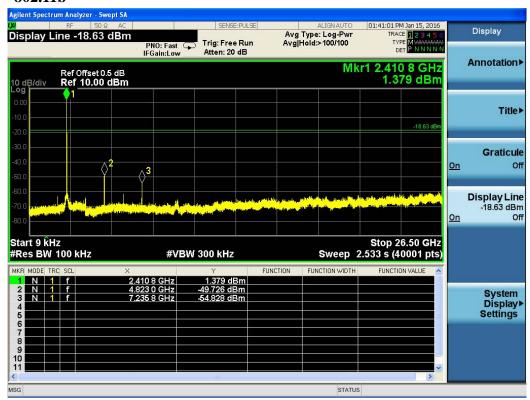
# **5.5.6.** Test Results of Conducted Spurious Emissions

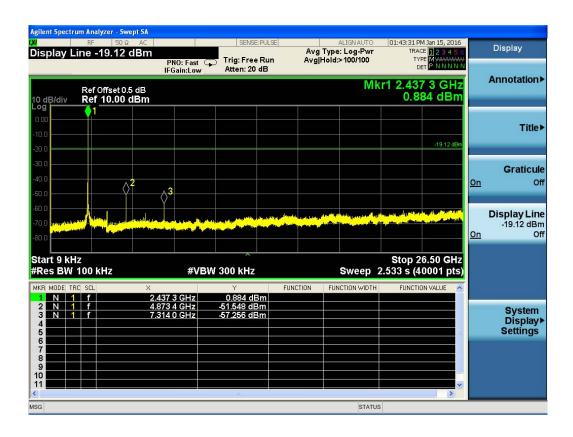


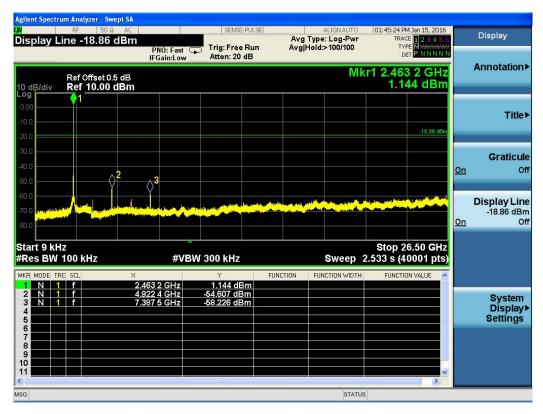




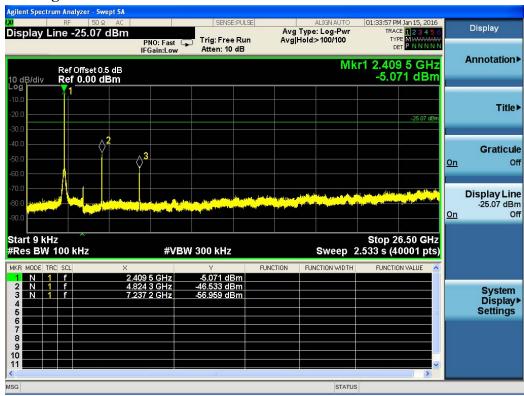
### 802.11b

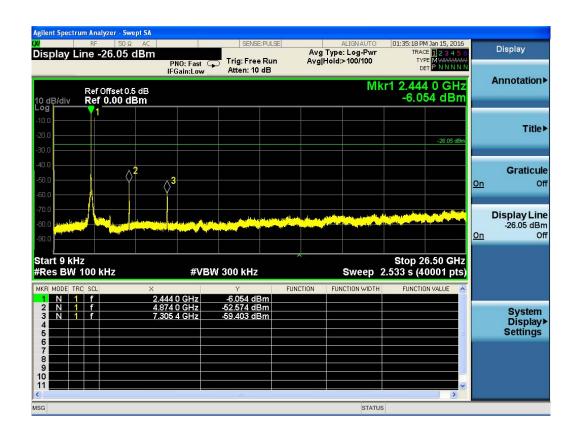


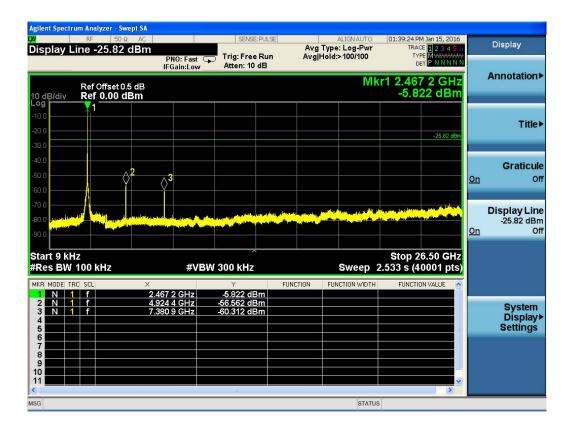




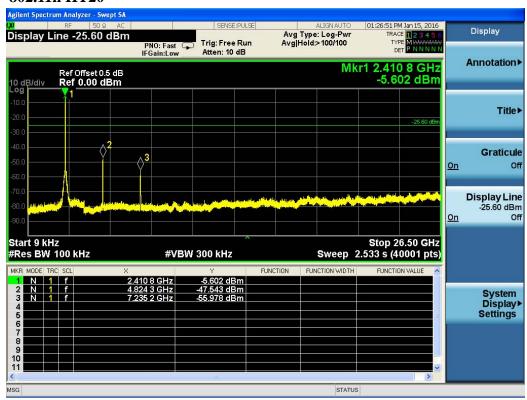
## 802.11g

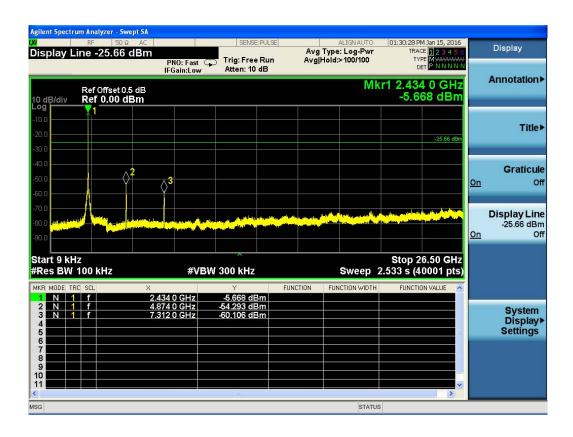


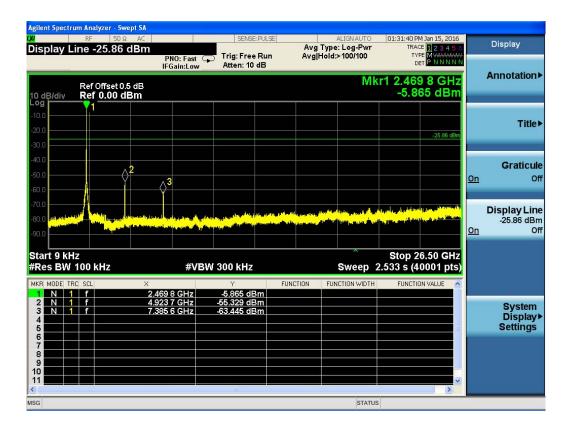




### 802.11n HT20

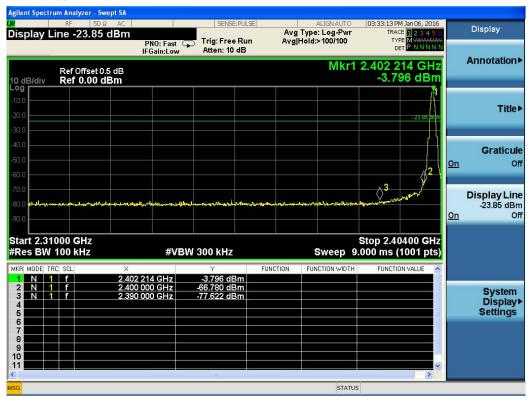


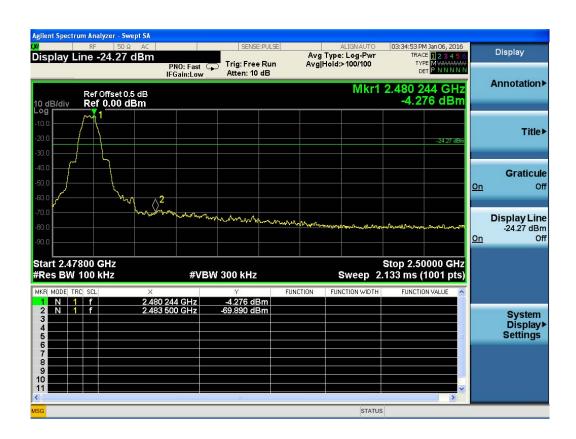




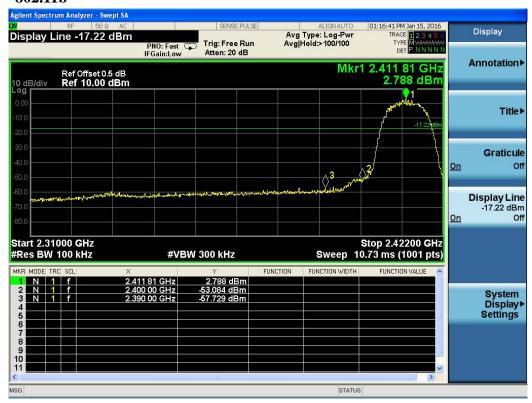
# 5.5.7. Test Results of Band Edges Test

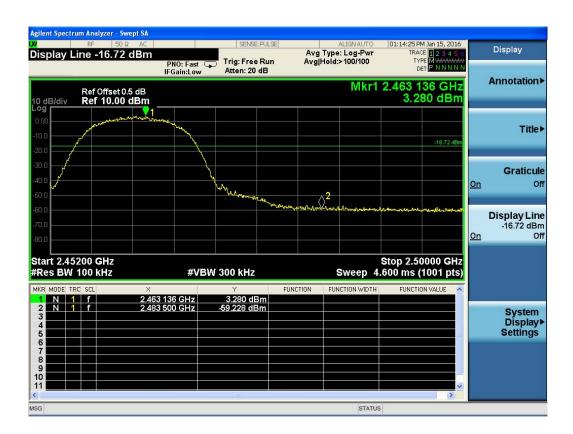
#### **BLE 4.0**





### 802.11b





# 802.11g





#### 802.11n HT20





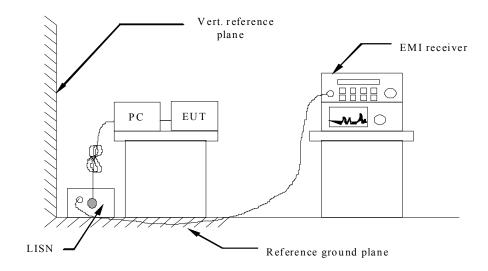
### 5.6. Power line conducted emissions

# 5.6.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range	Limits	(dBμV)
(MHz)	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

# 5.6.2 Block Diagram of Test Setup

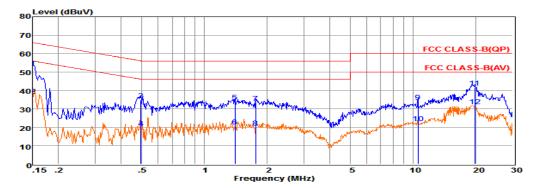


# 5.6.3 Test Results

PASS.

The test data please refer to following page.

# Test Result for Line Power Input AC 120V/60Hz BLE

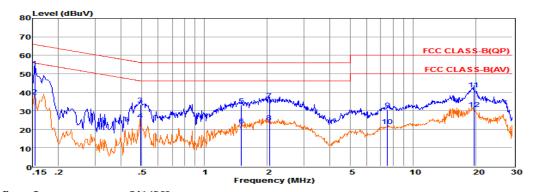


Env. Ins: EUT: M/N: M/N: Power Rating: Test Mode: Operator: Memo: Pol: 24\*/56% GNSS RECEIVER Galaxy G6 AC 120V/60Hz TX-High Channel (BLE) Aking

NEUTRAL

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.15000	32.52	9.70	0.02	10.00	52.24	66.00	-13.76	QP
2	0.15010	17.33	9.70	0.02	10.00	37.05	55.99	-18.94	Average
3	0.49673	15.20	9.62	0.04	10.00	34.86	56.05	-21.19	QP
4	0.49683	-0.04	9.62	0.04	10.00	19.62	46.05	-26.43	Average
5	1.40322	14.27	9.63	0.05	10.00	33.95	56.00	-22.05	QP
6	1.40422	0.77	9.63	0.05	10.00	20.45	46.00	-25.55	Average
7	1.76226	13.71	9.63	0.05	10.00	33.39	56.00	-22.61	QP
8	1.76326	0.32	9.63	0.05	10.00	20.00	46.00	-26.00	Average
91	10.56376	14.18	9.72	0.08	10.00	33.98	60.00	-26.02	QP
101	LO.56476	2.63	9.72	0.08	10.00	22.43	50.00	-27.57	Average
111	L9.73967	21.52	9.88	0.12	10.00	41.52	60.00	-18.48	QP
121	19.74067	11.49	9.88	0.12	10.00	31.49	50.00	-18.51	Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten\_Fac.
2. The emission levels that are 20dB below the official limit are not reported.



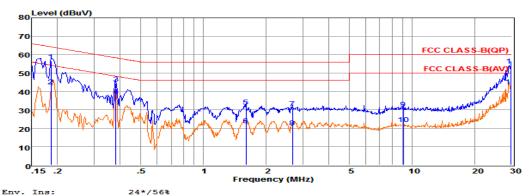
Env. Ins: EUT: M/N: Power Rating: Test Mode: Operator: 24\*/56% GNSS RECEIVER Galaxy G6 AC 120V/60Hz TX-High Channel (BLE) Aking

Memo: LINE Pol:

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
2 3 4 5 6 7 8	0.15403 0.15413 0.49411 0.49421 1.50328 1.50428 2.04409 2.04509	33.68 18.04 13.61 5.26 13.35 2.20 15.91 4.12	9.58 9.58 9.62 9.62 9.64 9.64 9.64	0.02 0.02 0.04 0.04 0.05 0.05 0.05	10.00 10.00 10.00 10.00 10.00 10.00 10.00	53.28 37.64 33.27 24.92 33.04 21.89 35.60 23.81	65.78 55.77 56.10 46.10 56.00 46.00 56.00	-12.50 -18.13 -22.83 -21.18 -22.96 -24.11 -20.40 -22.19	QP Average QP Average QP Average QP Average
10 111	7.52580 7.52680 19.53160 19.53260	10.95 1.89 21.88 11.10	9.68 9.68 9.76 9.76	0.07 0.07 0.12 0.12	10.00 10.00 10.00 10.00	30.70 21.64 41.76 30.98	60.00 50.00 60.00 50.00	-29.30 -28.36 -18.24 -19.02	QP Average QP Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten\_Fac.
2. The emission levels that are 20dB below the official limit are not reported.

#### WIFI



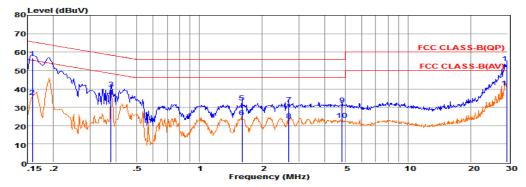
EUT: M/N: Power Rating: Test Mode:

24\*/56% GNSS RECEIVER Galaxy G6 AC 120V/60Hz TX-High Channel (802.11b) AKING

Operator: Memo: Pol: NEUTRAL

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBu∇	dB	
1	0.18639	36.77	9.62	0.02	10.00	56.41	64.20	-7.79	QP
2	0.18649	23.12	9.62	0.02	10.00	42.76	54.19	-11.43	Average
3	0.38113	24.66	9.61	0.04	10.00	44.31	58.25	-13.94	QP
4	0.38123	17.95	9.61	0.04	10.00	37.60	48.25	-10.65	Average
5	1.60196	12.10	9.63	0.05	10.00	31.78	56.00	-24.22	QP
6	1.60296	2.09	9.63	0.05	10.00	21.77	46.00	-24.23	Average
7	2.66410	11.14	9.64	0.05	10.00	30.83	56.00	-25.17	QP
8	2.66510	0.78	9.64	0.05	10.00	20.47	46.00	-25.53	Average
9	9.05917	10.83	9.71	0.08	10.00	30.62	60.00	-29.38	QP
10	9.06017	2.49	9.71	0.08	10.00	22.28	50.00	-27.72	Average
112	29.84147	34.09	9.86	0.14	10.00	54.09	60.00	-5.91	QP
122	29.84247	22.71	9.86	0.14	10.00	42.71	50.00	-7.29	Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten\_Fac.
2. The emission levels that are 20dB below the official limit are not reported.



Env. Ins: EUT: M/N: Power Rating: Test Mode: Operator: 24\*/56% GNSS RECEIVER Galaxy G6 AC 120V/60Hz TX-High Channel (802.11b) AKING

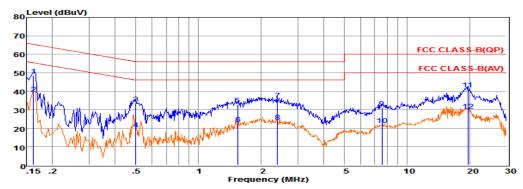
Memo: Pol: LINE

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.15816	37.16	9.58	0.02	10.00	56.76	65.56	-8.80	QP
2	0.15826	16.10	9.58	0.02	10.00	35.70	55.55	-19.85	Average
3	0.37711	20.62	9.62	0.04	10.00	40.28	58.34	-18.06	QP
4	0.37721	15.92	9.62	0.04	10.00	35.58	48.34	-12.76	Average
5	1.60196	13.04	9.64	0.05	10.00	32.73	56.00	-23.27	QP
6	1.60296	4.98	9.64	0.05	10.00	24.67	46.00	-21.33	Average
7	2.67825	12.06	9.64	0.05	10.00	31.75	56.00	-24.25	QP
8	2.67925	3.30	9.64	0.05	10.00	22.99	46.00	-23.01	Average
9	4.82243	11.70	9.65	0.06	10.00	31.41	56.00	-24.59	QP
10	4.82343	3.60	9.65	0.06	10.00	23.31	46.00	-22.69	Average
112	29.84147	34.42	9.71	0.14	10.00	54.27	60.00	-5.73	QP
122	29.84247	20.87	9.71	0.14	10.00	40.72	50.00	-9.28	Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten\_Fac.
2. The emission levels that are 20dB below the official limit are not reported.

# Test Result for Line Power Input AC 240V/60Hz

### BLE



Env. Ins: EUT: M/N: Power Rating: Test Mode:

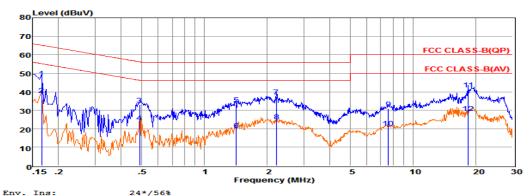
24\*/56% GNSS RECEIVER Galaxy G6 AC 240V/60Hz TX-High Channel (BLE)

Aking

Operator: Memo: Pol:

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.16241	29.00	9.59	0.02	10.00	48.61	65.34	-16.73	QP
2	0.16251	18.92	9.59	0.02	10.00	38.53	55.33	-16.80	Average
3	0.50203	13.80	9.62	0.04	10.00	33.46	56.00	-22.54	QP
4	0.50213	-0.40	9.62	0.04	10.00	19.26	46.00	-26.74	Average
5	1.54363	13.07	9.64	0.05	10.00	32.76	56.00	-23.24	QP
6	1.54463	2.70	9.64	0.05	10.00	22.39	46.00	-23.61	Average
7	2.39624	15.63	9.64	0.05	10.00	35.32	56.00	-20.68	QP
8	2.39724	3.69	9.64	0.05	10.00	23.38	46.00	-22.62	Average
9	7.56578	11.22	9.68	0.07	10.00	30.97	60.00	-29.03	QP
10	7.56678	2.09	9.68	0.07	10.00	21.84	50.00	-28.16	Average
111	19.53160	21.05	9.76	0.12	10.00	40.93	60.00	-19.07	QP
121	19.53260	9.71	9.76	0.12	10.00	29.59	50.00	-20.41	Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten\_Fac.
2. The emission levels that are 20dB below the official limit are not reported.



EUT: M/N: Power Rating: Test Mode:

24\*/56% GNSS RECEIVER Galaxy G6 AC 240V/60Hz TX-High Channel (BLE)

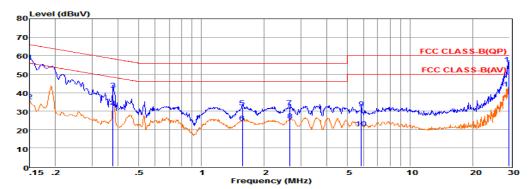
Aking

Operator: Memo: Pol: NEUTRAL

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.16589	27.94	9.66	0.02	10.00	47.62	65.16	-17.54	QP
2	0.16599	18.54	9.66	0.02	10.00	38.22	55.16	-16.94	Average
3	0.48890	13.50	9.62	0.04	10.00	33.16	56.19	-23.03	QP
4	0.48900	3.78	9.62	0.04	10.00	23.44	46.18	-22.74	Average
5	1.41817	13.60	9.63	0.05	10.00	33.28	56.00	-22.72	QP
6	1.41917	-0.21	9.63	0.05	10.00	19.47	46.00	-26.53	Average
7	2.21317	17.94	9.63	0.05	10.00	37.62	56.00	-18.38	QP
8	2.21417	4.43	9.63	0.05	10.00	24.11	46.00	-21.89	Average
9	7.60597	11.12	9.70	0.07	10.00	30.89	60.00	-29.11	QP
10	7.60697	0.81	9.70	0.07	10.00	20.58	50.00	-29.42	Average
111	L8.32844	21.48	9.82	0.11	10.00	41.41	60.00	-18.59	QP
121	L8.32944	8.53	9.82	0.11	10.00	28.46	50.00	-21.54	Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten\_Fac.
2. The emission levels that are 20dB below the official limit are not reported.

### WIFI

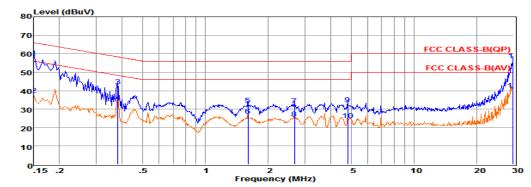


Env. Ins: EUT: M/N: Power Rating: 24\*/56% GNSS RECEIVER Galaxy G6 AC 240V/60Hz TX-High Channel (802.11b) AKING

Test Mode: Operator: Memo: Pol: LINE

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.15000	37.23	9.57	0.02	10.00	56.82	66.00	-9.18	QP
2	0.15010	15.86	9.57	0.02	10.00	35.45	55.99	-20.54	Average
3	0.37711	22.11	9.62	0.04	10.00	41.77	58.34	-16.57	QP
4	0.37721	12.11	9.62	0.04	10.00	31.77	48.34	-16.57	Average
5	1.56837	12.35	9.64	0.05	10.00	32.04	56.00	-23.96	QP
6	1.56937	4.00	9.64	0.05	10.00	23.69	46.00	-22.31	Average
7	2.65002	12.32	9.64	0.05	10.00	32.01	56.00	-23.99	QP
8	2.65102	5.31	9.64	0.05	10.00	25.00	46.00	-21.00	Average
9	5.83584	11.77	9.66	0.06	10.00	31.49	60.00	-28.51	QP
10	5.83684	1.09	9.66	0.06	10.00	20.81	50.00	-29.19	Average
112	29.84147	35.66	9.71	0.14	10.00	55.51	60.00	-4.49	QP
122	29.84247	22.49	9.71	0.14	10.00	42.34	50.00	-7.66	Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten\_Fac.
2. The emission levels that are 20dB below the official limit are not reported.



Env. Ins: EUT: M/N: Power Rating: 24\*/56% GNSS RECEIVER Galaxy G6 AC 240V/60Hz TX-High Channel (802.11b)

AKING

Test Mode: Operator: Memo: Pol:

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
2	0.15000 0.15010 0.38113 0.38123	38.38 18.00 22.92 14.27	9.70 9.70 9.61 9.61	0.02 0.02 0.04 0.04	10.00 10.00 10.00	58.10 37.72 42.57 33.92	66.00 55.99 58.25 48.25	-7.90 -18.27 -15.68 -14.33	QP Average QP Average
5 6 7 8	1.60196 1.60296 2.66410 2.66510 4.79695	12.66 6.83 12.58 5.31	9.63 9.63 9.64 9.64	0.05 0.05 0.05 0.05	10.00 10.00 10.00 10.00	32.34 26.51 32.27 25.00 32.84	56.00 46.00 56.00 46.00	-23.66 -19.49 -23.73 -21.00 -23.16	QP Average QP Average OP
10 112		4.42 36.44 20.36	9.66 9.86 9.86	0.06 0.14 0.14	10.00 10.00 10.00	24.14 56.44 40.36	46.00 60.00 50.00	-21.86 -3.56 -9.64	Average QP Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten\_Fac.
2. The emission levels that are 20dB below the official limit are not reported.

# 5.7. Antenna Requirements

# 5.7.1. Standard Applicable

According to antenna requirement of §15.203.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

And according to §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

#### 5.7.2 Antenna Connected Construction

### 5.7.2.1. Standard Applicable

According to § 15.203 & RSS-Gen, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### 5.7.2.2. Antenna Connector Construction

The WLAN and Bluetooth modular share difference antenna, WLAN use internal antenna and maximum gain is 2.0dBi, Bluetooth use internal antenna and maximum gain is 3.0dBi. Please see EUT photo for details.

### 5.7.2.3. Results: Compliance.

#### Measurement

The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module.

Conducted power refers ANSI C63.10:2013 Output power test procedure for DTS devices.

Radiated power refers to ANSI C63.10:2013 Radiated emissions tests.

**Measurement parameters** 

<u>.                                      </u>	
Measurement	parameter
Detector:	Peak
Sweep Time:	Auto
Resolution bandwidth:	1MHz
Video bandwidth:	3MHz
Trace-Mode:	Max hold

### Limits

FCC	IC
Antenna	Gain
6 dB	i

Note: The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module. For WLAN devices, the DSSS mode is used; as Lower Energy Bluetooth use frequency range same as Classics Bluetooth, please refer to Classics Bluetooth test report for antenna results information.

T <sub>nom</sub>	V <sub>nom</sub>	Lowest Channel 2412 MHz	Middle Channel 2437 MHz	Highest Channel 2462 MHz	
Conducted power [dBm] Measured with DSSS modulation Radiated power [dBm] Measured with DSSS modulation		10.09	10.22	10.17	
		10.23	11.97	10.78	
Gain [dBi] Calculated		0.14	1.75	0.61	
М	easurement unce	ertainty	± 1.6 dB (cond.) / ± 3.8 dB (rad.)		

Result: -/-

# **6. LIST OF MEASURING EQUIPMENTS**

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal Date	Due Date
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	June 18,2015	June 17,2016
Signal analyzer	Agilent	E4448A(External mixers to 40GHz)	US44300469	9kHz~40GHz	July 16,2015	July 15,2016
LISN	MESS Tec	NNB-2/16Z	99079	9KHz-30MHz	June 18,2015	June 17,2016
LISN (Support Unit)	EMCO	3819/2NM	9703-1839	9KHz-30MHz	June 18,2015	June 17,2016
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9KHz-30MHz	June 18,2015	June 17,2016
ISN	SCHAFFNER	ISN ST08	21653	9KHz-30MHz	June 18,2015	June 17,2016
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03СН03-НҮ	30M-1GHz 3m	June 18,2015	June 17,2016
Amplifier	SCHAFFNER	COA9231A	18667	9kHz-2GHzz	June 18,2015	June 17,2016
Amplifier	Agilent	8449B	3008A02120	1GHz-26.5GHz	July 16,2015	July 15,2016
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5GHz-40GHz	July 16,2015	July 15,2016
Spectrum Analyzer	Agilent	E4407B	MY41440292	9k-26.5GHz	July 16,2015	July 15,2016
MAX Signal Analyzer	Agilent	N9020A	MY50510140	20Hz~26.5GHz	Oct. 27, 2015	Oct. 26, 2016
Loop Antenna	R&S	HFH2-Z2	860004/001	9k-30MHz	June 18,2015	June 17,2016
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	30MHz-1GHz	June 10,2015	June 09,2016
Horn Antenna	EMCO	3115	6741	1GHz-18GHz	June 10,2015	June 09,2016
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz-40GHz	June 10,2015	June 09,2016
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz-1GHz	June 18,2015	June 17,2016
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz-40GHz	June 18,2015	June 17,2016
Spectrum Meter	R&S	FSP 30	100023	9kHz-30GHz	July 16,2015	July 15,2016
Power Meter	R&S	NRVS	100444	DC-40GHz	June 18,2015	June 17,2016
Power Sensor	R&S	NRV-Z51	100458	DC-30GHz	June 18,2015	June 17,2016
Power Sensor	R&S	NRV-Z32	10057	30MHz-6GHz	June 18,2015	June 17,2016
RF CABLE-1m	ЈҮЕ Вао	RG142	CB034-1m	20MHz-7GHz	June 18,2015	June 17,2016
RF CABLE-2m	JYE Bao	RG142	CB035-2m	20MHz-1GHz	June 18,2015	June 17,2016

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