



FCC RADIO TEST REPORT

Applicant : Green Packet Berhad, Taiwan
Address : 6F, No. 21, Lane 583, Rueiguang Rd. Neihu District, Taipei City 11492, Taiwan
Equipment : Bluetooth Low Energy TPMS
Model No. : PT-240, KT-240
Trade Name : Roadmio / Greenpacket
FCC ID. : W9VPT240

I HEREBY CERTIFY THAT :

The sample was received on Mar. 01, 2018 and the testing was carried out on Mar. 10, 2018 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Assistant Manager

Tested by:

Spree Yei / Engineer

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





Contents

- 1. **Summary of Test Procedure and Test Results**.....5
 - 1.1 Applicable Standards 5
- 2. **Test Configuration of Equipment under Test**..... 6
 - 2.1 Feature of Equipment under Test..... 6
 - 2.2 Carrier Frequency of Channels 6
 - 2.3 Test Mode and Test Software 7
 - 2.4 Description of Test System..... 7
 - 2.5 General Information of Test..... 8
- 3. **Test Equipment and Ancillaries Used for Tests**9
- 4. **Antenna Requirements**..... 10
 - 4.1 Standard Applicable 10
 - 4.2 Antenna Construction and Directional Gain..... 10
- 5. **Test of AC Power Line Conducted Emission** 11
- 6. **Test of Spurious Emission (Radiated)** 12
 - 6.1 Test Limit 12
 - 6.2 Test Procedures 12
 - 6.3 Typical Test Setup 13
 - 6.4 Test Result and Data (9kHz ~ 30MHz)..... 14
 - 6.5 Test Result and Data (30MHz ~ 1GHz)..... 14
 - 6.6 Test Result and Data (1GHz ~ 25GHz)..... 16
 - 6.7 Restricted Bands of Operation 22
 - 6.8 Test Photographs (30MHz ~ 1GHz) 23
 - 6.9 Test Photographs (1GHz ~ 25GHz) 24
- 7. **Test of Spurious Emission (Conducted)**..... 25
 - 7.1 Test Limit 25
 - 7.2 Test Procedure 25
 - 7.3 Test Setup Layout 25
 - 7.4 Test Result and Data 25
- 8. **6dB Bandwidth Measurement Data** 28
 - 8.1 Test Limit 28
 - 8.2 Test Procedures 28
 - 8.3 Test Setup Layout 28
 - 8.4 Test Result and Data 28
- 9. **Maximum Peak and Average Output Power**..... 30
 - 9.1 Test Limit 30
 - 9.2 Test Procedures 30
 - 9.3 Test Setup Layout 30
 - 9.4 Test Result and Data 30
- 10. **Power Spectral Density** 31
 - 10.1 Test Limit 31
 - 10.2 Test Procedures 31
 - 10.3 Test Setup Layout 31
 - 10.4 Test Result and Data 31



11. Radio Frequency Exposure 33

11.1 Applicable Standards 33

11.2 EUT Specification 33

11.1 Test Results 34

11.2 Calculation 34

11.3 Maximum Permissible Exposure 34



1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.4:2014

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart C §15.247

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. AC Power Line Conducted Emission	Pass
15.209 15.205	. Radiated Spurious Emission	Pass
15.247(d)	. Conducted Spurious Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	. Maximum Peak Output Power	Pass
15.247(e)	. Power Spectral Density	Pass

This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report.



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Frequency Range	2402-2480 MHz
Type of Modulation	GFSK (Bluetooth low energy)
Channel of Bandwidth	2MHz
Channel numbers	40 channels
Type of Antenna	Iron Wire Antenna
Antenna Gain	-0.42 dBi
Rating Input	DC 3V from battery

Note: Model number difference of this application is for marketing purpose, the circuit design and layout are the same.

2.2 Carrier Frequency of Channels

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
*00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	*19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	*39	2480
12	2426	26	2454	--	--
13	2428	27	2456	--	--

Note: Channels remarked * are selected to perform test.



2.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4
- b. The complete test system included EUT for RF test.
- c. An executive program, "QBlue Evaluation Tool _v1.06" under WIN 8 was executed to transmit and receive data via Bluetooth.
- d. The test mode of RF test as follow:
Mode 1: GFSK (1Mbps, CH 00: 2402MHz, CH 19: 2440MHz, CH 39: 2480MHz)

2.4 Description of Test System

The EUT was tested alone. No support devices are needed for testing.



2.5 General Information of Test

Test Site	CerpPASS Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881 Address: No.68-1, Shihbachongsi, Shihding Township, New Taipei City 223, Taiwan, R.O.C. Tel: +886-2-2663-8582	
	FCC	TW1079, TW1061, TW1439
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication Test C-4663 for Conducted emission test R-4218, R-4399 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 25,000MHz	
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.	



3. Test Equipment and Ancillaries Used for Tests

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI3	100821	2017/09/08	2018/09/07
Bilog Antenna	Schwarzbeck	VULB9168	369	2017/03/15	2018/03/14
Active Loop Antenna	EMCO	6507	40855	2017/05/15	2018/05/14
Horn Antenna	EMCO	3115	31589	2017/03/16	2018/03/15
Horn Antenna	EMCO	3116	31970	2017/03/29	2018/03/28
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200207	2017/03/17	2018/03/16
Preamplifier	EM	EM330	60658	2017/09/08	2018/09/07
Preamplifier	EMC INSTRUMENTS	EMC051845SE	980333	2017/09/20	2018/09/19
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2017/11/10	2018/11/09
MXG MW Analog Signal Generator	KEYSIGHT	N5183A	MY50142931	2017/03/17	2018/03/16
Spectrum Analyzer	R&S	FSP40	100219	2017/07/01	2018/06/30
Attenuator	KEYSIGHT	8491B	MY39250705	2017/09/04	2018/09/03
Rotary Attenuator	Agilent	8495B	MY42146680	2017/03/13	2018/03/12
Temp & Humi chamber	T-MACHINE	TMJ-9712	T-12-040111	2017/09/04	2018/09/03
Series Power Meter	Anritsu	ML2495A	1224005	2018/03/01	2019/02/28
Power Sensor	Anritsu	MA2411B	1207295	2018/03/01	2019/02/28
Cable	EMC INSTRUMENTS	EMC104-SM-S M-500	160318W	2018/02/09	2019/02/08
Cable	EMC INSTRUMENTS	EMC104-SM-S M-3000	160317W	2018/02/09	2019/02/08
Software	Farad	Ez-EMC	ver.ct3a1	N/A	N/A
Software	AUDIX	E3	V8.2014-8-6	N/A	N/A
Software	Keysight	N7607B Signal Studio	V3.0.0.0	N/A	N/A
Software	Keysight	Inservice MonitorUtility	N/A	N/A	N/A



4. Antenna Requirements

4.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.2 Antenna Construction and Directional Gain

Antenna Type	Antenna Gain
Wire Antenna	-0.42 dBi



5. Test of AC Power Line Conducted Emission

Not required test for DC power source.



6. Test of Spurious Emission (Radiated)

6.1 Test Limit

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

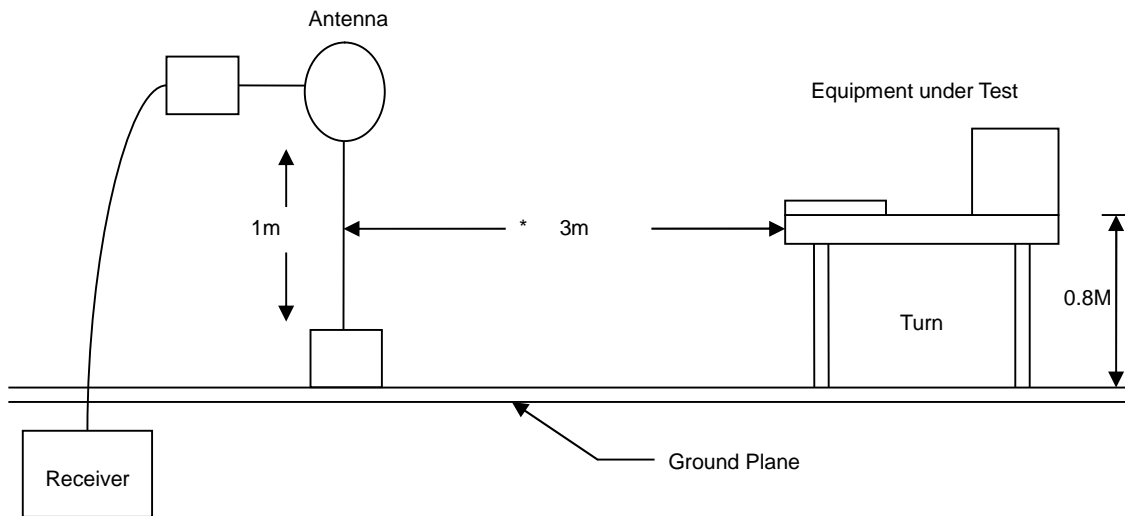
6.2 Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

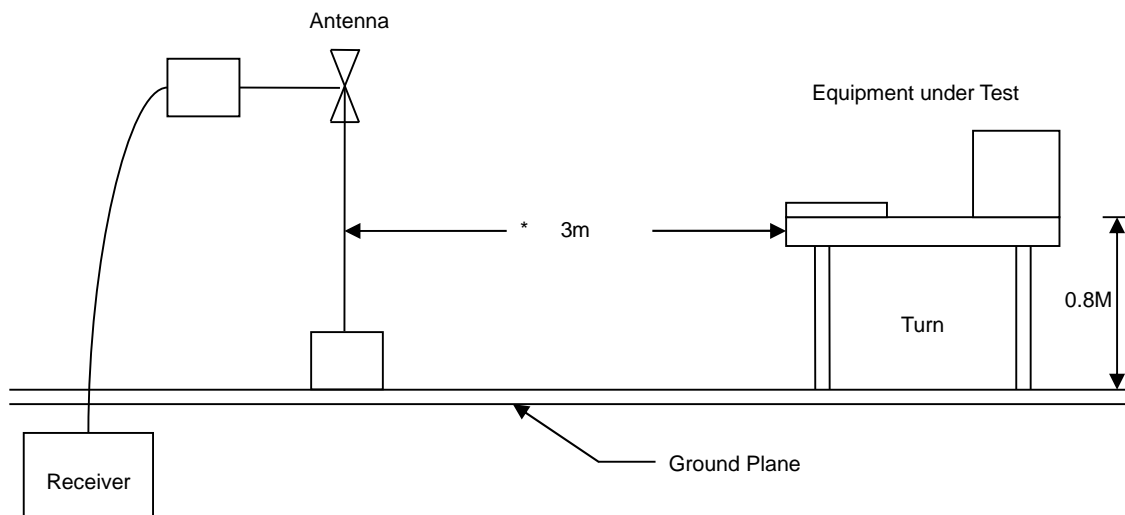


6.3 Typical Test Setup

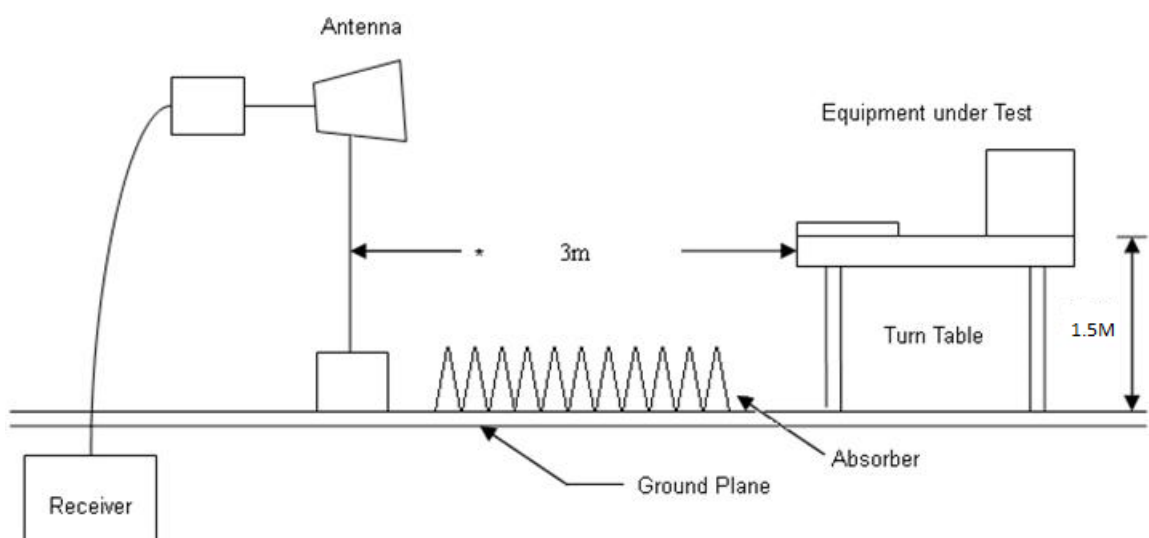
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



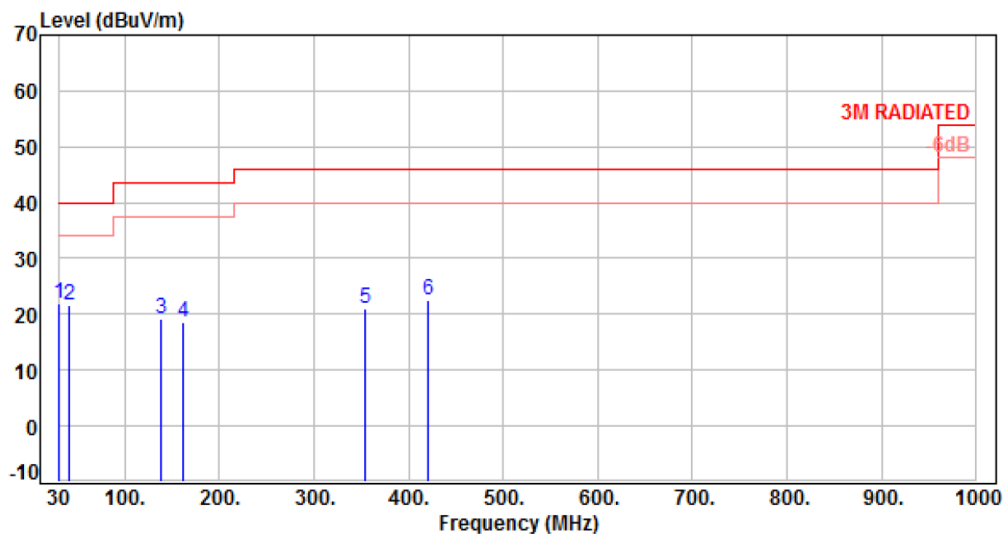


6.4 Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

6.5 Test Result and Data (30MHz ~ 1GHz)

Power	: DC 12V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1	Temperature	: 21 °C
Test Date	: Mar. 07, 2018	Humidity	: 60 %

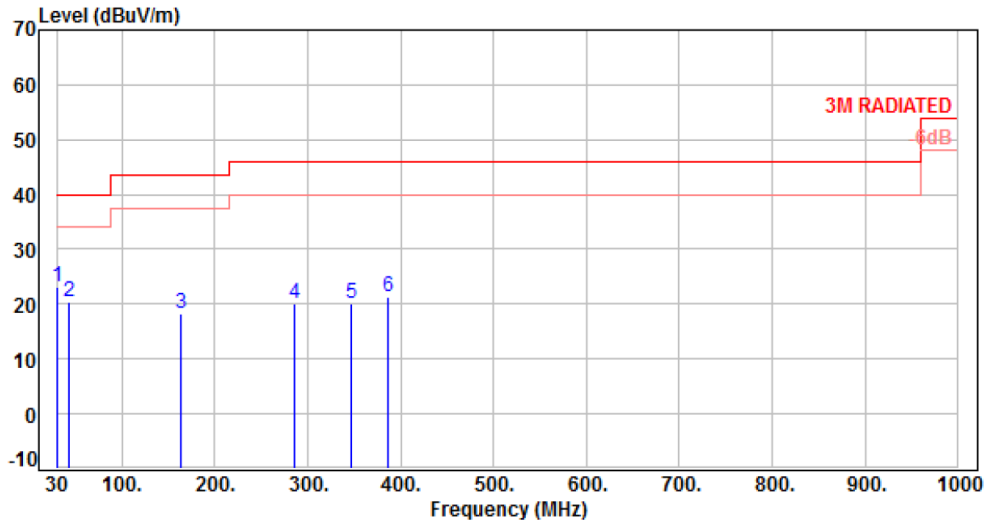


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-10.92	32.94	22.02	40.00	-17.98	Peak	400	0	P
2	40.67	-10.30	32.04	21.74	40.00	-18.26	Peak	400	0	P
3	137.67	-10.59	29.72	19.13	43.50	-24.37	Peak	400	0	P
4	160.95	-9.86	28.54	18.68	43.50	-24.82	Peak	400	0	P
5	353.98	-7.37	28.47	21.10	46.00	-24.90	Peak	400	0	P
6	419.94	-5.50	27.97	22.47	46.00	-23.53	Peak	400	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 12V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1	Temperature	: 21 °C
Test Date	: Mar. 07, 2018	Humidity	: 60 %



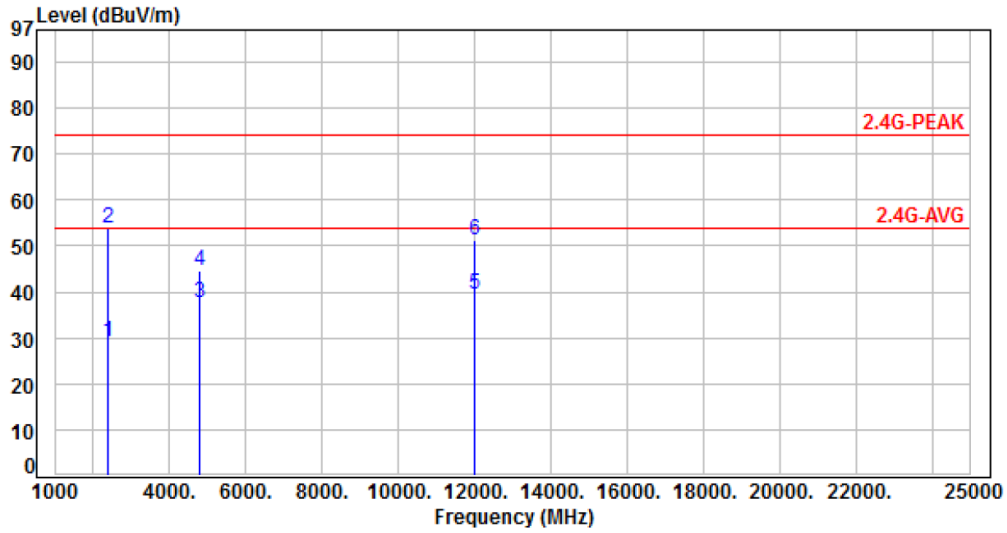
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-10.92	33.99	23.07	40.00	-16.93	Peak	100	0	P
2	42.61	-10.12	30.67	20.55	40.00	-19.45	Peak	100	0	P
3	163.86	-9.93	28.19	18.26	43.50	-25.24	Peak	100	0	P
4	286.08	-9.24	29.40	20.16	46.00	-25.84	Peak	100	0	P
5	347.19	-7.56	27.55	19.99	46.00	-26.01	Peak	100	0	P
6	385.99	-6.40	27.88	21.48	46.00	-24.52	Peak	100	0	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



6.6 Test Result and Data (1GHz ~ 25GHz)

Power	: DC 12V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH00	Temperature	: 21 °C
Test Date	: Mar. 01, 2018	Humidity	: 60 %

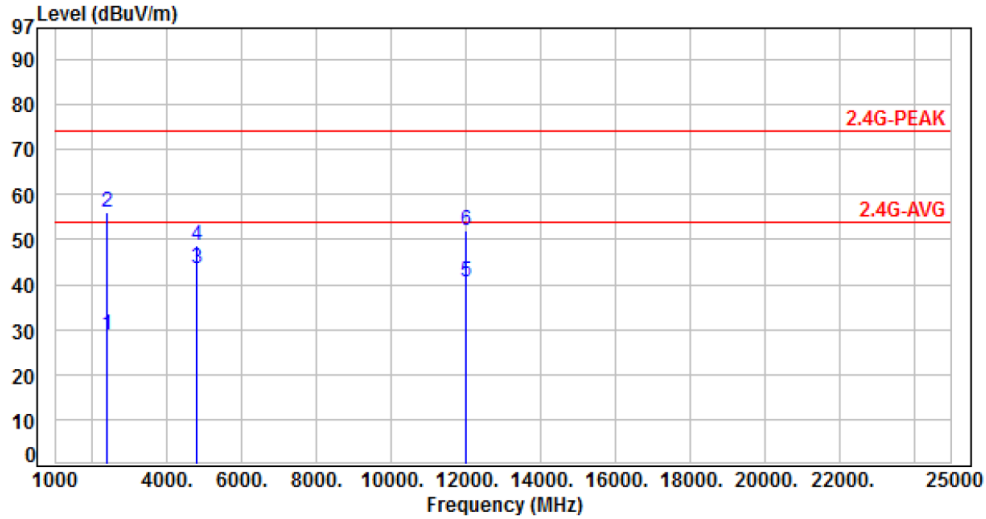


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	43.50	29.05	54.00	-24.95	Average	126	237	P
2	2390.00	-14.45	68.30	53.85	74.00	-20.15	Peak	126	237	P
3	4804.00	-6.66	44.20	37.54	54.00	-16.46	Average	294	240	P
4	4804.00	-6.66	51.20	44.54	74.00	-29.46	Peak	294	240	P
5	12010.00	4.94	34.50	39.44	54.00	-14.56	Average	155	174	P
6	12010.00	4.94	46.30	51.24	74.00	-22.76	Peak	155	174	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 12V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH00	Temperature	: 21 °C
Test Date	: Mar. 01, 2018	Humidity	: 60 %

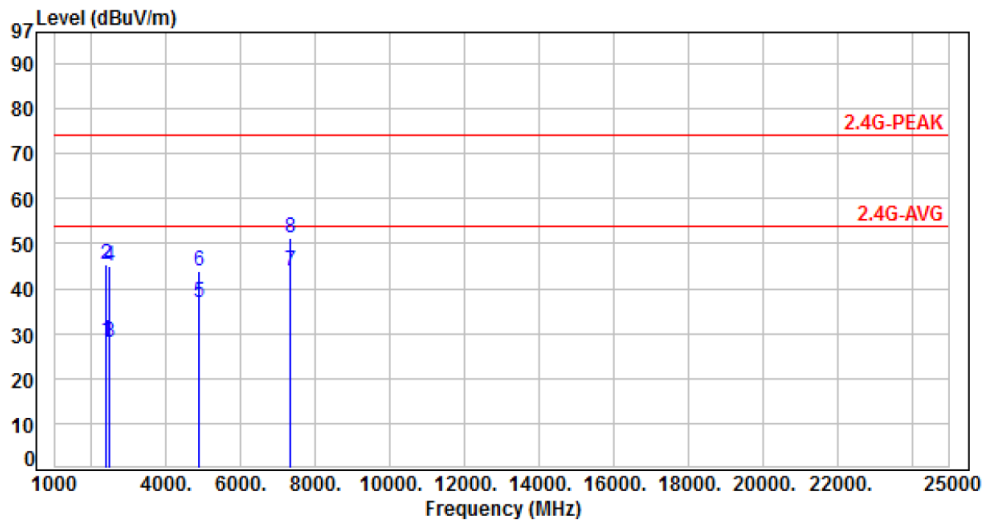


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	43.20	28.75	54.00	-25.25	Average	180	300	P
2	2390.00	-14.45	70.40	55.95	74.00	-18.05	Peak	180	300	P
3	4804.00	-6.66	50.20	43.54	54.00	-10.46	Average	100	160	P
4	4804.00	-6.66	55.50	48.84	74.00	-25.16	Peak	100	160	P
5	12010.00	4.94	35.60	40.54	54.00	-13.46	Average	100	55	P
6	12010.00	4.94	47.10	52.04	74.00	-21.96	Peak	100	55	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 12V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH19	Temperature	: 21 °C
Test Date	: Mar. 01, 2018	Humidity	: 60 %

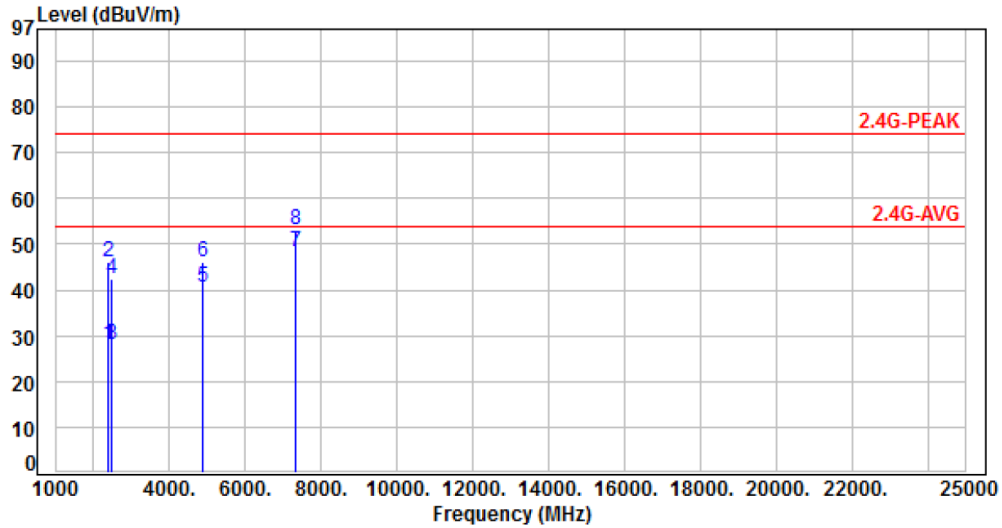


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	42.67	28.22	54.00	-25.78	Average	100	250	P
2	2390.00	-14.45	59.90	45.45	74.00	-28.55	Peak	100	250	P
3	2483.50	-14.10	42.12	28.02	54.00	-25.98	Average	100	250	P
4	2483.50	-14.10	59.10	45.00	74.00	-29.00	Peak	100	250	P
5	4880.00	-6.40	43.20	36.80	54.00	-17.20	Average	102	130	P
6	4880.00	-6.40	50.20	43.80	74.00	-30.20	Peak	102	130	P
7	7320.00	-1.88	45.91	44.03	54.00	-9.97	Average	254	144	P
8	7320.00	-1.88	53.10	51.22	74.00	-22.78	Peak	254	144	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 12V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH19	Temperature	: 21 °C
Test Date	: Mar. 01, 2018	Humidity	: 60 %

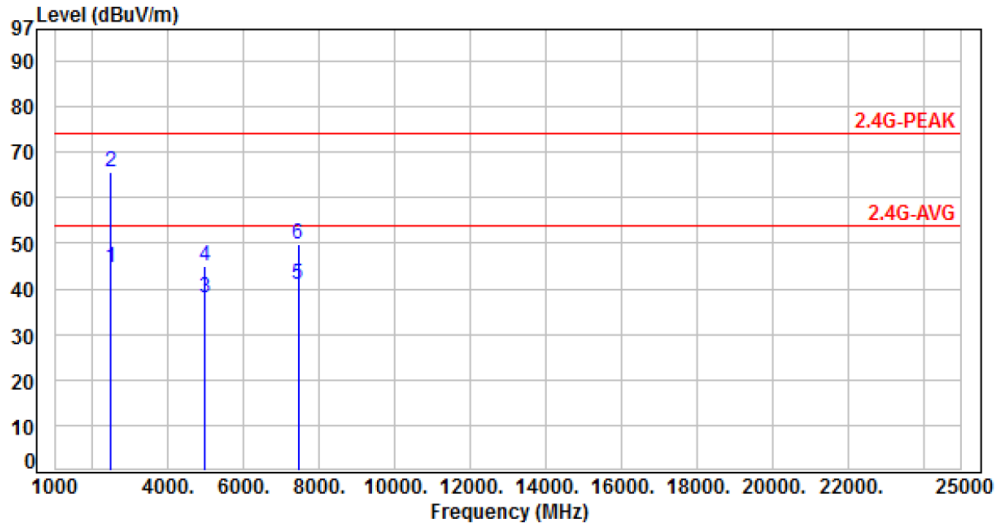


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.45	42.40	27.95	54.00	-26.05	Average	376	82	P
2	2390.00	-14.45	60.50	46.05	74.00	-27.95	Peak	376	82	P
3	2483.50	-14.10	42.00	27.90	54.00	-26.10	Average	376	82	P
4	2483.50	-14.10	56.50	42.40	74.00	-31.60	Peak	376	82	P
5	4880.00	-6.40	46.80	40.40	54.00	-13.60	Average	100	126	P
6	4880.00	-6.40	52.60	46.20	74.00	-27.80	Peak	100	126	P
7	7320.00	-1.88	50.20	48.32	54.00	-5.68	Average	331	285	P
8	7320.00	-1.88	55.10	53.22	74.00	-20.78	Peak	331	285	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 12V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH39	Temperature	: 21 °C
Test Date	: Mar. 01, 2018	Humidity	: 60 %

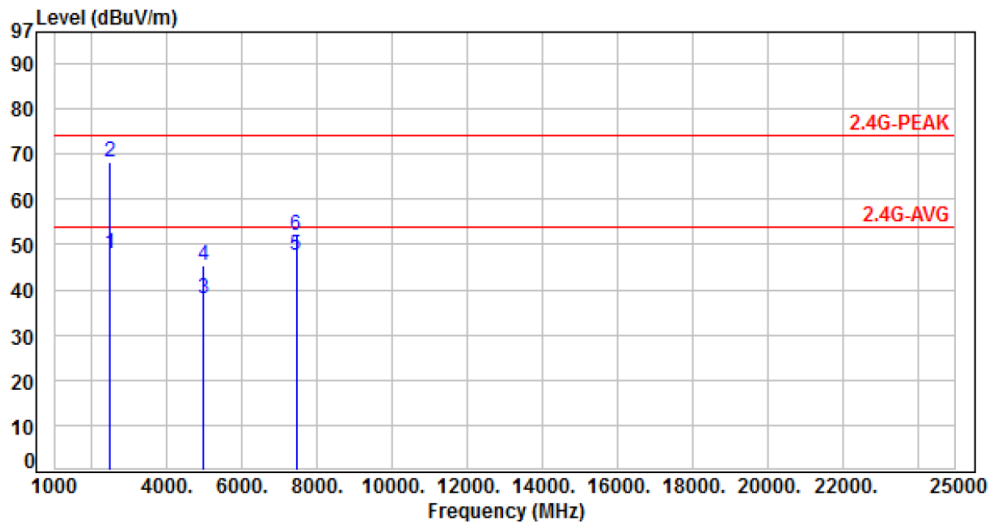


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-14.10	58.80	44.70	54.00	-9.30	Average	100	248	P
2	2483.50	-14.10	79.80	65.70	74.00	-8.30	Peak	100	248	P
3	4960.00	-6.13	44.30	38.17	54.00	-15.83	Average	300	291	P
4	4960.00	-6.13	51.20	45.07	74.00	-28.93	Peak	300	291	P
5	7440.00	-1.51	42.50	40.99	54.00	-13.01	Average	134	149	P
6	7440.00	-1.51	51.20	49.69	74.00	-24.31	Peak	134	149	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 12V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH39	Temperature	: 21 °C
Test Date	: Mar. 01, 2018	Humidity	: 60 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-14.10	61.90	47.80	54.00	-6.20	Average	393	288	P
2	2483.50	-14.10	82.30	68.20	74.00	-5.80	Peak	393	288	P
3	4960.00	-6.13	44.30	38.17	54.00	-15.83	Average	100	130	P
4	4960.00	-6.13	51.60	45.47	74.00	-28.53	Peak	100	130	P
5	7440.00	-1.51	49.10	47.59	54.00	-6.41	Average	310	295	P
6	7440.00	-1.51	53.50	51.99	74.00	-22.01	Peak	310	295	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



6.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



7. Test of Spurious Emission (Conducted)

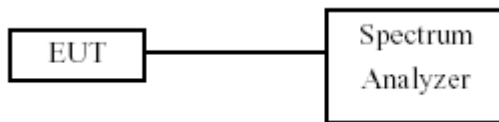
7.1 Test Limit

Below -20dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20dB relative to the maximum measured in-band peak PSD level.
- d. The band edges was measured and recorded.

7.3 Test Setup Layout



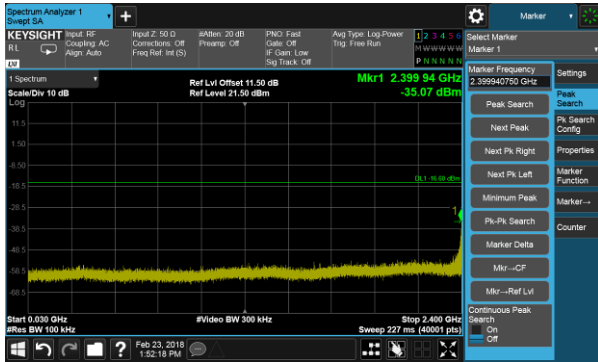
7.4 Test Result and Data

Test Result	: PASS	Temperature	: 23°C
Test Date	: Mar. 10, 2018	Humidity	: 61%

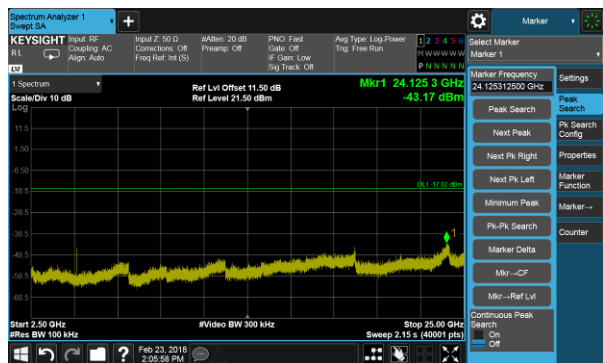
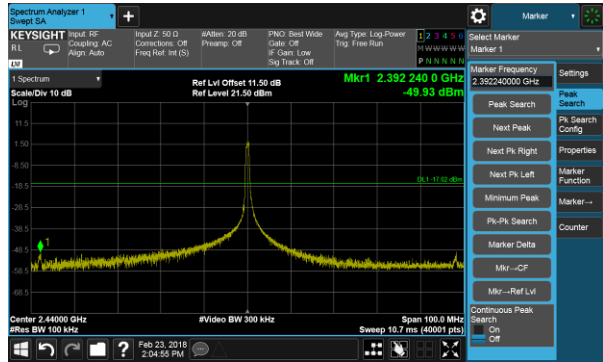
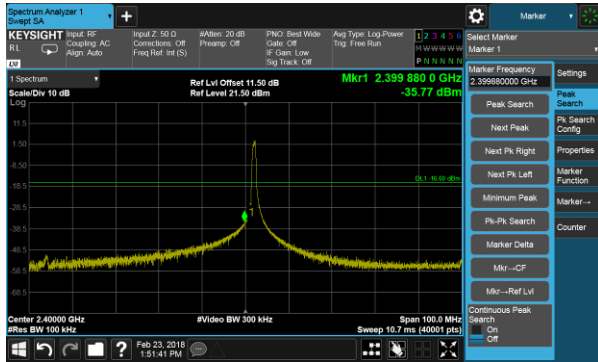
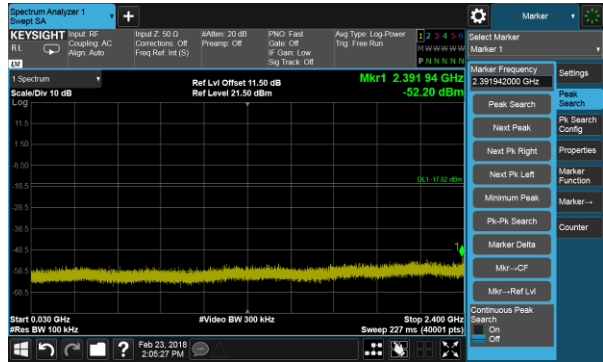
Note: Test plots refer to the following pages.



Modulation Type: GFSK
CH00

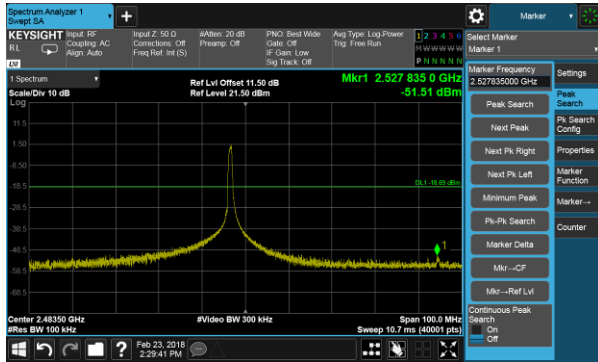
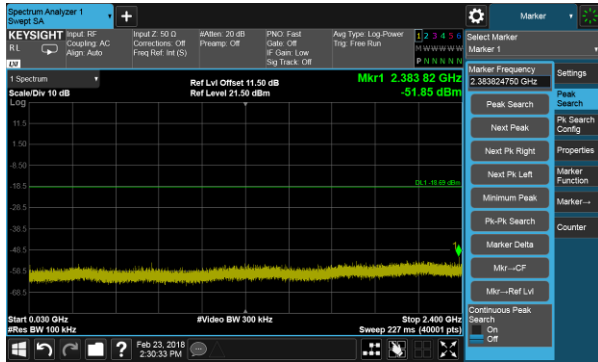


Modulation Type: GFSK
CH19





Modulation Type: GFSK
CH39

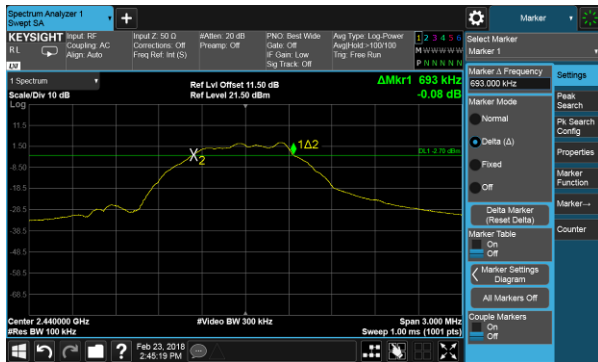




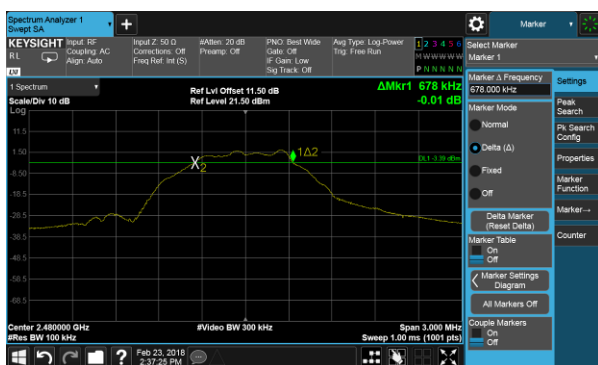
Modulation Type: GFSK
CH00



CH19



CH39





10. Power Spectral Density

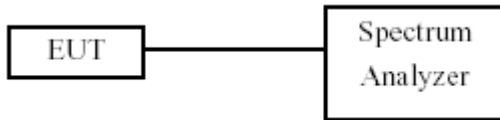
10.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

10.2 Test Procedures

- a. The transmitter output was connected to spectrum analyzer.
- b. The spectrum analyzer’s resolution bandwidth were set at 3KHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=auto couple.
- c. The power spectral density was measured and recorded.

10.3 Test Setup Layout



10.4 Test Result and Data

Test Result : PASS

Temperature : 23°C

Test Date : Mar. 10, 2018

Humidity : 61%

Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)	Limit
GFSK	0	2402	-10.54	8.00
	19	2440	-10.99	8.00
	39	2480	-11.83	8.00



Modulation Type: GFSK
CH00



CH19



CH39

