



FCC RADIO TEST REPORT

Applicant : iWEECARE Co., Ltd.
Address : 2F., No.121, Sec. 2, Linong St., Beitou Dist., Taipei
City 112, Taiwan
Equipment : Temp Pal - Smart Thermometer Patch
Model No. : STP-MB01-1
Trade Name : iWEECARE
FCC ID : 2AK3R-STP-MB01-1

I HEREBY CERTIFY THAT :

The sample was received on Apr. 12, 2019 and the testing was completed on Jul. 17, 2019 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory





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History of this test report

Report No.	Issue Date	Description
TEFQ1703002	May 03, 2017	Original
TEFQ1710003	Oct. 03, 2017	1. Revised Applicant's address
TEFQ1903264	Jul. 19, 2019	1.Revised pattern of antenna. 2.Change the casing.



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	N/A
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

*The principle of judgment is made according to the laboratory's reporting control and measurement uncertainty standard procedures.

*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(TEFD1903264).



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Frequency Range	BLE: 2400-2483.5MHz
Modulation Type	BLE: GFSK
Modulation Technology	DTS
Data Rate	BLE: GFSK: 1Mbps
Antenna Type	PCB Antenna
Antenna Gain	2400-2483.5MHz: 1.1dBi

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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 C63.10.
- b. The complete test system included Notebook and EUT for RF test.
- c. An executive program, use hardware button to launch under win7 was executed to transmit and receive data via Bluetooth.
- d. The following test modes were performed for the test:
Test Mode 1. GFSK (1Mbps)



2.4 Description of Test System

Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
USB Cable	N/A	N/A	0.2m / NS	N/A
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
USB Cable	N/A	N/A	0.2m / NS	N/A



2.5 General Information of Test

Test Site	Cerpass 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	
	FCC	TW1439, TW1079
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication test C-4663 for Conducted emission test R-4218 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.	

Test Item	Test Site	Tested Date	Environmental Conditions	Tested By
Radiated Emissions(Below 1GHz)	3M02-NK	2019/05/08	23°C / 53%	Leon Huang
Radiated Emissions(Above 1GHz)	3M02-NK	2019/07/17	23°C / 56%	Nick Guan
RF Conduction	CON01-NK	2019/05/09	20°C / 40%	Spree Yeh

2.6 Measurement Uncertainty

Measurement Item	Uncertainty
Radiated Spurious Emission(9KHz~30MHz)	±3.405dB
Radiated Spurious Emission(30MHz~1GHz)	±5.326dB
Radiated Spurious Emission(1GHz~25GHz)	±5.918dB
Conducted Spurious Emission	±2.156dB
6dB Bandwidth	±4.401%
20dB Bandwidth	±4.40%
Occupied Bandwidth	±4.41%
Peak Output Power(Conducted Power Meter)	±1.31dB
Dwell Time	±0.11%
Power Spectral Density	±2.146dB
Duty Cycle	±0.17%



3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	275	2018/09/17	2019/09/16
Active Loop Antenna	EMCO	6507	40855	2018/05/22	2019/05/21
Horn Antenna	EMCO	3115	31589	2019/04/01	2020/03/31
Horn Antenna	EMCO	3116	31974	2018/09/07	2019/09/06
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2018/06/11	2019/06/10
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2019/03/28	2020/03/27
Preamplifier	EM Electronics corp.	EM330	60660	2019/03/11	2020/03/10
Preamplifier	EMC INSTRUMENTS	EMC051845SE	980333	2018/09/18	2019/09/17
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2019/04/07	2020/04/06
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1316	2018/09/12	2019/09/11
Cable-0.5m(1G-40G)	Rapidtek	40GHZ 50CM	38MS-38MS50314	2019/04/09	2020/04/08
Cable-3m(1G-40G)	Rapidtek	40GHZ 300CM	38MS-38MS300314	2019/04/09	2020/04/08
Cable-8m(1G-40G)	Rapidtek	40GHZ 800CM	38MS-38MS800314	2019/04/10	2020/04/09
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

Test Item	AC Power Line Conducted Emission				
Test Site	CON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESCI	100821	2018/9/12	2019/09/11
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-740	2018/6/13	2019/06/12
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101933	2018/9/4	2019/09/03
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



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	PCB Antenna
Antenna Gain	1.1 dBi



5. Test of AC Power Line Conducted Emission

5.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.4-2014. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

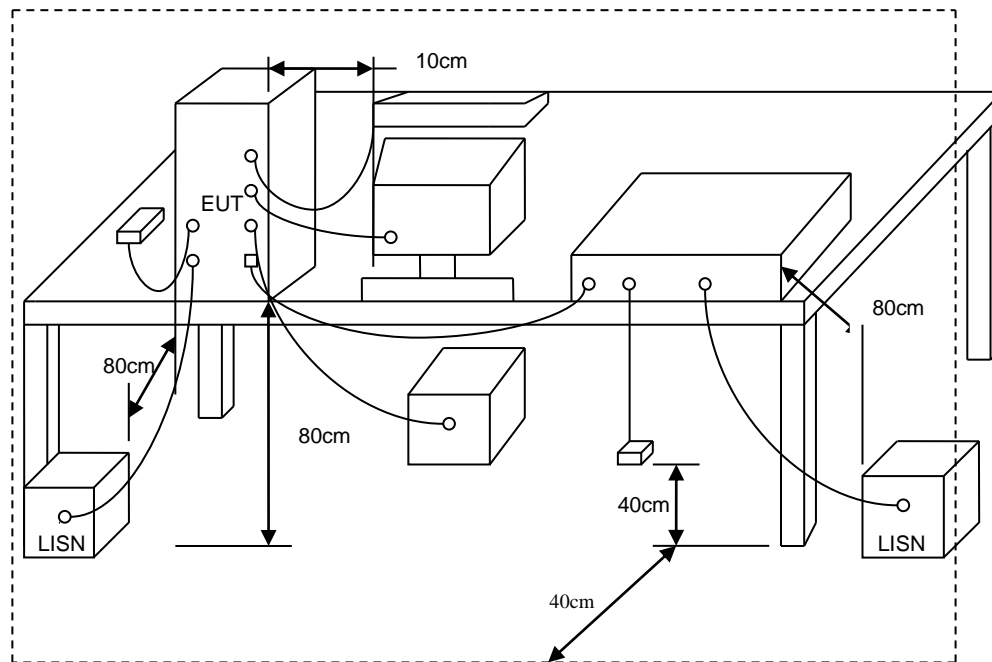
*Decreases with the logarithm of the frequency.

5.2 Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



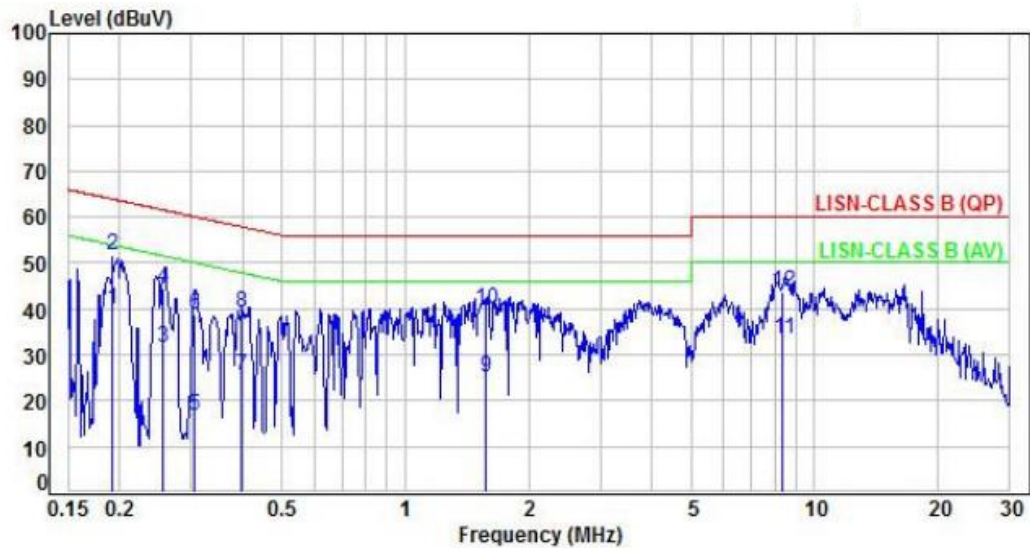
5.3 Typical Test Setup





5.4 Test Result and Data

Power	:	DC from system	Pol/Phase	:	LINE
Test Mode	:	Charge Mode		:	

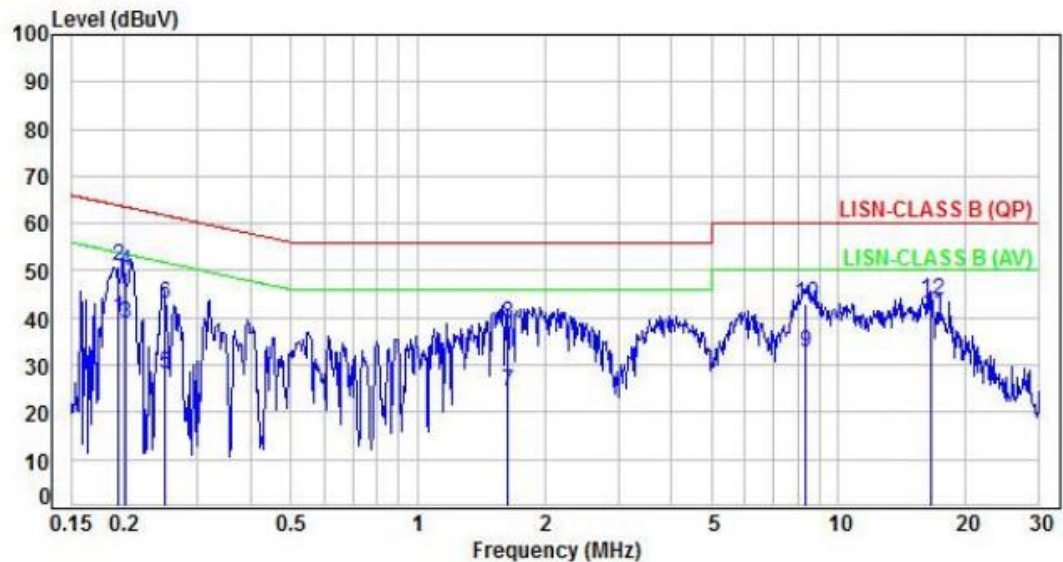


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.19	9.92	30.02	39.94	53.96	-14.02	Average	P
2	0.19	9.92	41.74	51.66	63.96	-12.30	QP	P
3	0.25	9.92	21.50	31.42	51.60	-20.18	Average	P
4	0.25	9.92	34.54	44.46	61.60	-17.14	QP	P
5	0.30	9.93	6.96	16.89	50.13	-33.24	Average	P
6	0.30	9.93	28.67	38.60	60.13	-21.53	QP	P
7	0.40	9.94	15.68	25.62	47.87	-22.25	Average	P
8	0.40	9.94	29.25	39.19	57.87	-18.68	QP	P
9	1.58	9.99	15.14	25.13	46.00	-20.87	Average	P
10	1.58	9.99	30.00	39.99	56.00	-16.01	QP	P
11	8.38	10.23	23.06	33.29	50.00	-16.71	Average	P
12	8.38	10.23	33.62	43.85	60.00	-16.15	QP	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	: DC from system	Pol/Phase	: NEUTRAL
Test Mode	: Charge Mode		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.19	9.95	29.80	39.75	53.83	-14.08	Average	P
2	0.19	9.95	40.83	50.78	63.83	-13.05	QP	P
3	0.20	9.95	28.86	38.81	53.50	-14.69	Average	P
4	0.20	9.95	39.97	49.92	63.50	-13.58	QP	P
5	0.25	9.95	18.33	28.28	51.75	-23.47	Average	P
6	0.25	9.95	32.89	42.84	61.75	-18.91	QP	P
7	1.63	10.00	14.23	24.23	46.00	-21.77	Average	P
8	1.63	10.00	28.73	38.73	56.00	-17.27	QP	P
9	8.32	10.25	22.45	32.70	50.00	-17.30	Average	P
10	8.32	10.25	32.81	43.06	60.00	-16.94	QP	P
11	16.65	10.54	30.02	40.56	50.00	-9.44	Average	P
12	16.65	10.54	33.13	43.67	60.00	-16.33	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



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

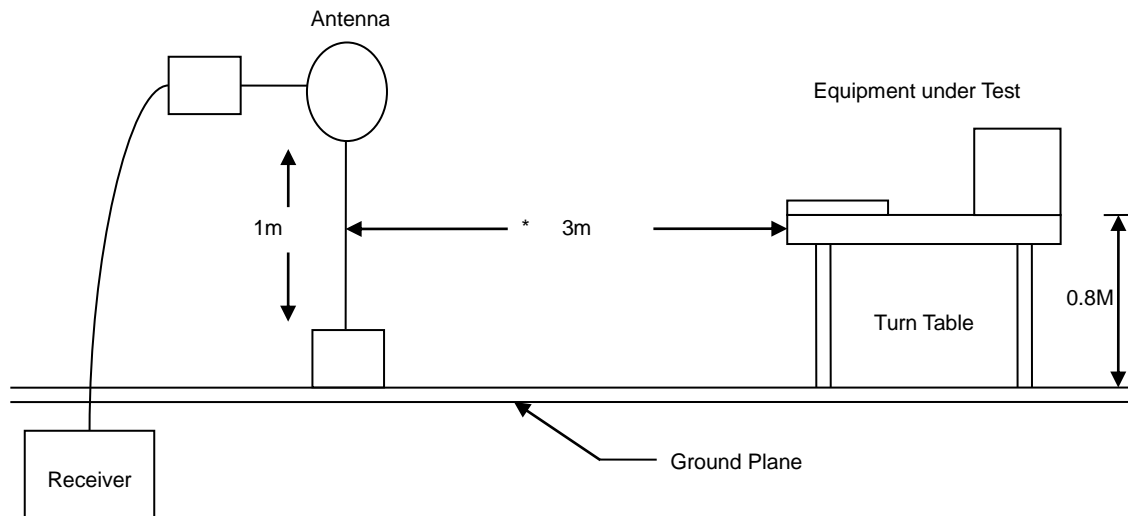
6.2 Test Procedures

- 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 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.

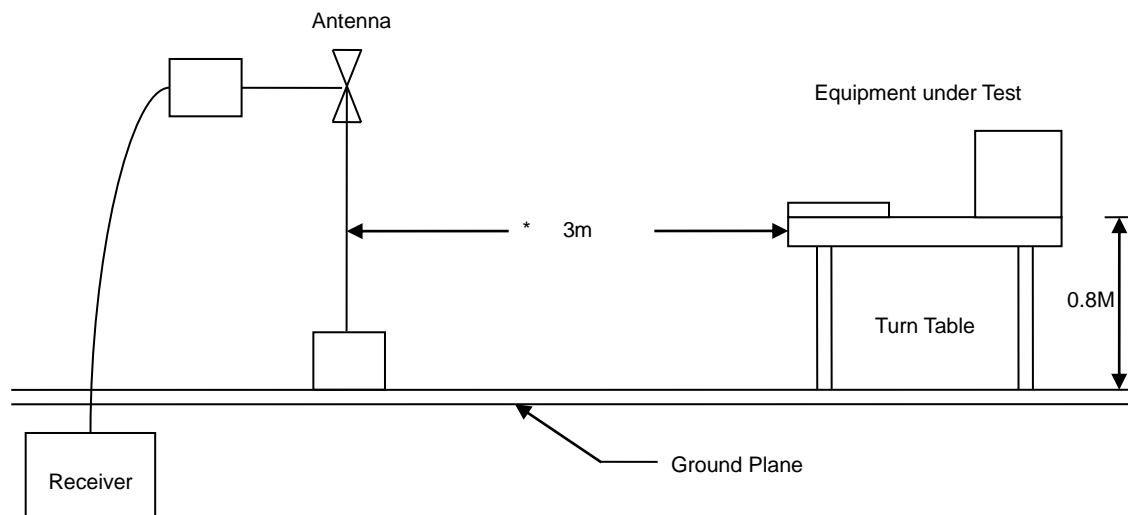


6.3 Typical Test Setup

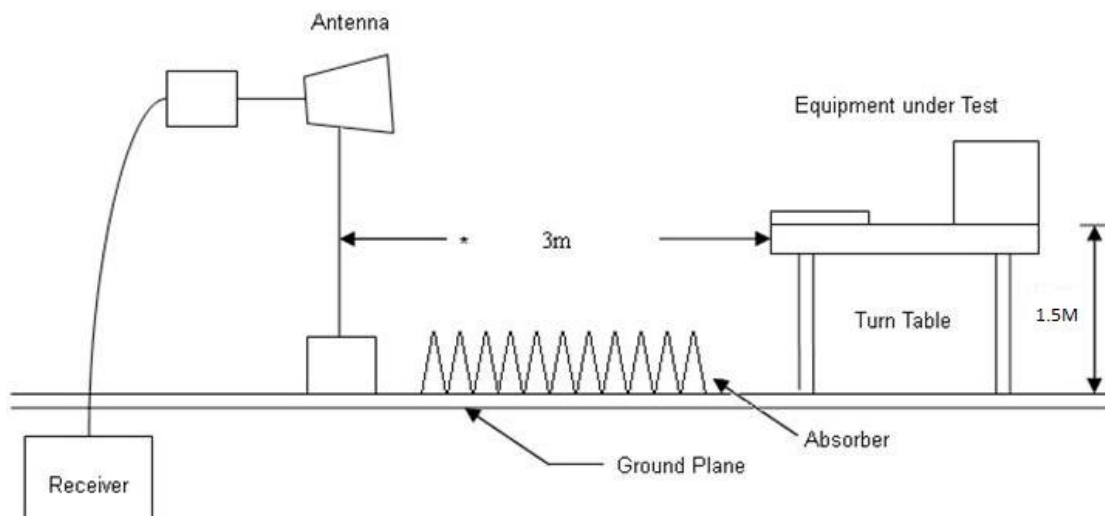
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



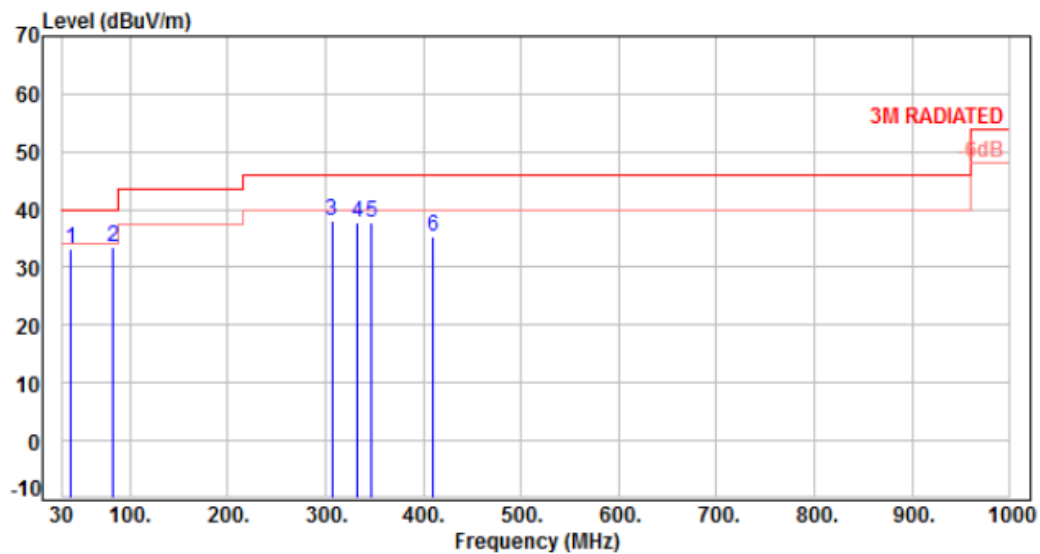


6.4 Test Result and Data (9kHz ~ 30MHz)

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

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

Power	:	DC from Battery	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	39.70	-9.71	42.80	33.09	40.00	-6.91	QP	100	240	P
2	83.35	-14.51	48.01	33.50	40.00	-6.50	Peak	400	0	P
3	306.45	-8.52	46.63	38.11	46.00	-7.89	Peak	400	0	P
4	332.64	-7.64	45.47	37.83	46.00	-8.17	Peak	400	0	P
5	347.19	-7.35	45.17	37.82	46.00	-8.18	Peak	400	0	P
6	410.24	-5.81	41.20	35.39	46.00	-10.61	Peak	400	0	P

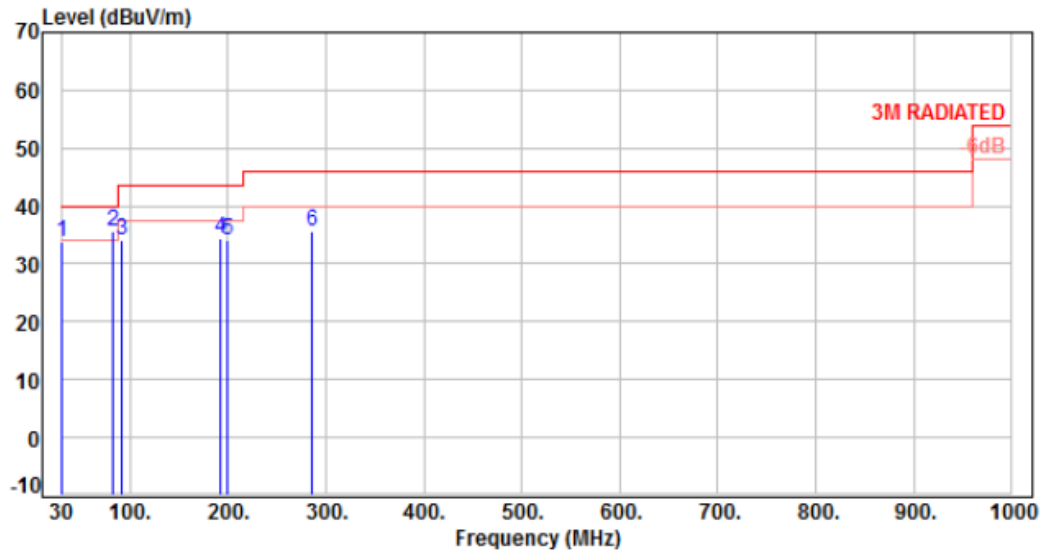
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC from Battery	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-10.51	44.26	33.75	40.00	-6.25	Peak	100	0	P
2	83.35	-14.51	50.17	35.66	40.00	-4.34	Peak	100	0	P
3	92.08	-15.58	49.65	34.07	43.50	-9.43	Peak	100	0	P
4	191.99	-12.06	46.48	34.42	43.50	-9.08	Peak	100	0	P
5	199.75	-12.14	46.16	34.02	43.50	-9.48	Peak	100	0	P
6	286.08	-9.00	44.69	35.69	46.00	-10.31	Peak	100	0	P

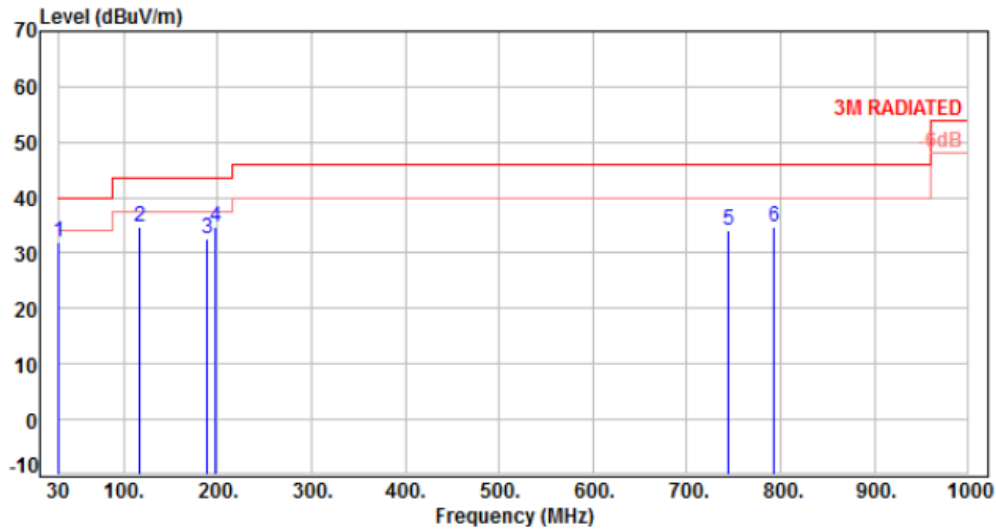
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC from system	Pol/Phase	:	VERTICAL
Test Mode	:	Charge Mode		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-10.51	42.59	32.08	40.00	-7.92	Peak	400	0	P
2	117.30	-12.06	46.73	34.67	43.50	-8.83	Peak	400	0	P
3	189.08	-11.88	44.33	32.45	43.50	-11.05	Peak	400	0	P
4	196.84	-12.16	46.80	34.64	43.50	-8.86	Peak	400	0	P
5	744.89	0.59	33.46	34.05	46.00	-11.95	Peak	400	0	P
6	792.42	1.25	33.36	34.61	46.00	-11.39	Peak	400	0	P

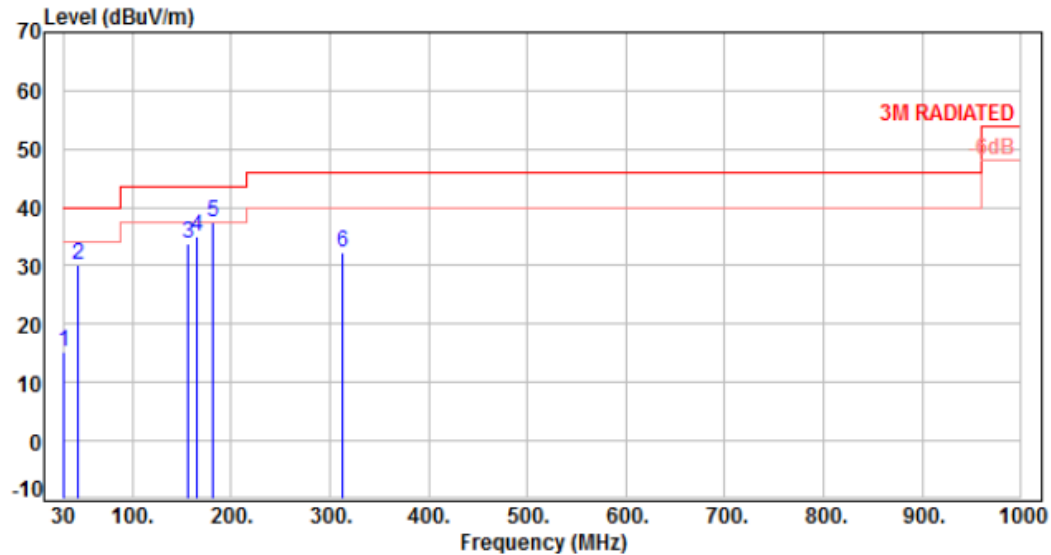
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC from system	Pol/Phase	: HORIZONTAL
Test Mode	: Charge Mode		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-10.51	25.80	15.29	40.00	-24.71	QP	100	220	P
2	44.55	-9.44	39.51	30.07	40.00	-9.93	Peak	100	0	P
3	157.07	-9.45	43.17	33.72	43.50	-9.78	Peak	100	0	P
4	165.80	-9.39	44.31	34.92	43.50	-8.58	Peak	100	0	P
5	182.29	-11.23	48.82	37.59	43.50	-5.91	Peak	100	0	P
6	312.27	-8.38	40.54	32.16	46.00	-13.84	Peak	100	0	P

Note: Level=Reading+Factor

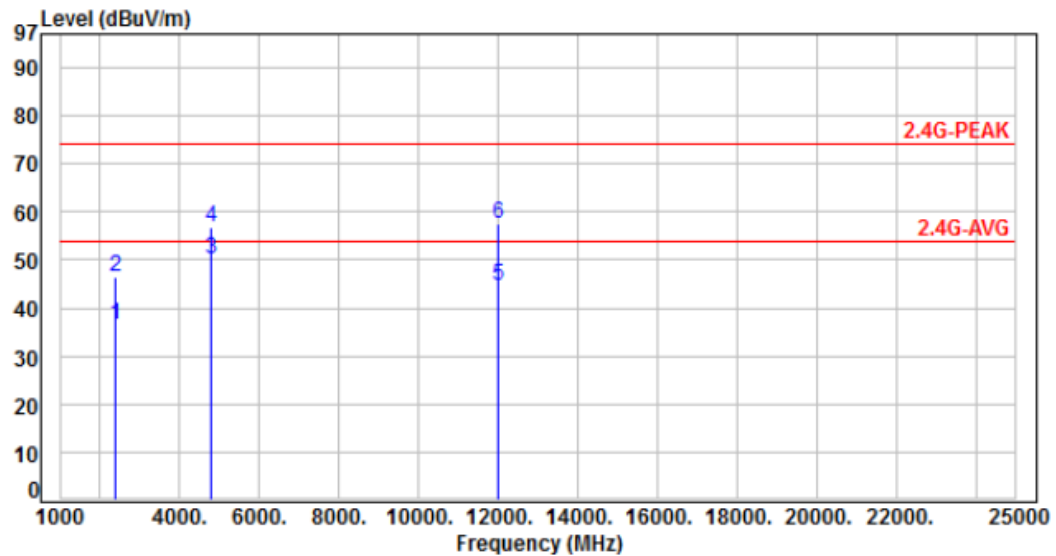
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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

Power	:	DC from Battery	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH00		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.61	51.14	36.53	54.00	-17.47	Average	100	190	P
2	2390.00	-14.61	61.08	46.47	74.00	-27.53	Peak	100	190	P
3	4804.00	-6.91	57.08	50.17	54.00	-3.83	Average	178	170	P
4	4804.00	-6.91	63.81	56.90	74.00	-17.10	Peak	178	170	P
5	12010.00	4.64	39.99	44.63	54.00	-9.37	Average	100	145	P
6	12010.00	4.64	52.91	57.55	74.00	-16.45	Peak	100	145	P

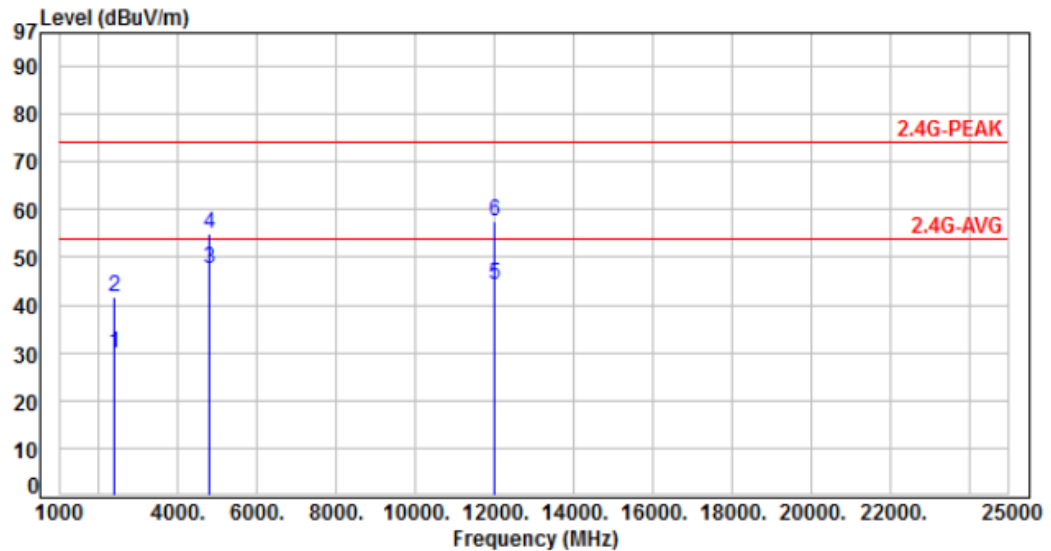
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC from Battery	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH00		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.61	44.50	29.89	54.00	-24.11	Average	100	360	P
2	2390.00	-14.61	56.19	41.58	74.00	-32.42	Peak	100	360	P
3	4804.00	-6.91	54.60	47.69	54.00	-6.31	Average	143	248	P
4	4804.00	-6.91	61.90	54.99	74.00	-19.01	Peak	143	248	P
5	12010.00	4.64	39.77	44.41	54.00	-9.59	Average	100	215	P
6	12010.00	4.64	53.03	57.67	74.00	-16.33	Peak	100	215	P

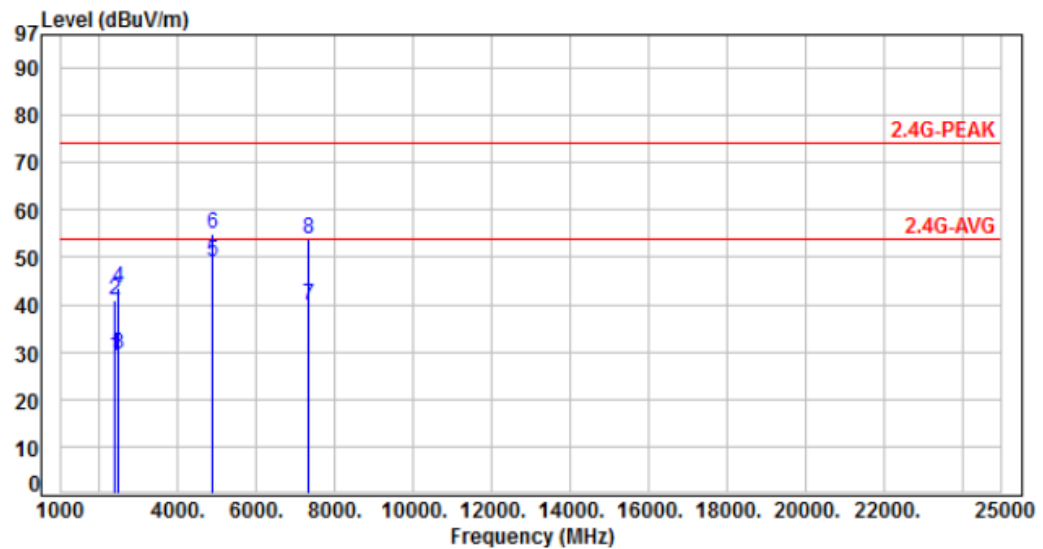
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC from Battery	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH19		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.61	43.88	29.27	54.00	-24.73	Average	100	180	P
2	2390.00	-14.61	55.44	40.83	74.00	-33.17	Peak	100	180	P
3	2483.50	-14.22	43.89	29.67	54.00	-24.33	Average	100	110	P
4	2483.50	-14.22	57.73	43.51	74.00	-30.49	Peak	100	110	P
5	4880.00	-6.61	55.75	49.14	54.00	-4.86	Average	162	171	P
6	4880.00	-6.61	61.73	55.12	74.00	-18.88	Peak	162	171	P
7	7320.00	-1.27	41.14	39.87	54.00	-14.13	Average	100	75	P
8	7320.00	-1.27	55.09	53.82	74.00	-20.18	Peak	100	75	P

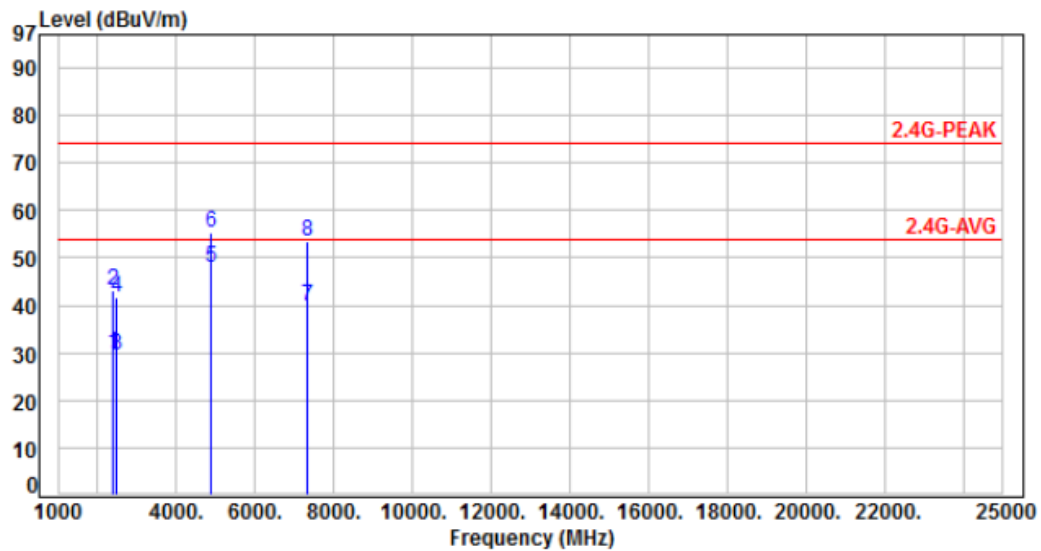
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC from Battery	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH19		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.61	44.37	29.76	54.00	-24.24	Average	185	320	P
2	2390.00	-14.61	57.83	43.22	74.00	-30.78	Peak	185	320	P
3	2483.50	-14.22	43.71	29.49	54.00	-24.51	Average	185	320	P
4	2483.50	-14.22	55.95	41.73	74.00	-32.27	Peak	185	320	P
5	4880.00	-6.61	54.46	47.85	54.00	-6.15	Average	113	177	P
6	4880.00	-6.61	62.10	55.49	74.00	-18.51	Peak	113	177	P
7	7320.00	-1.27	41.07	39.80	54.00	-14.20	Average	100	135	P
8	7320.00	-1.27	54.65	53.38	74.00	-20.62	Peak	100	135	P

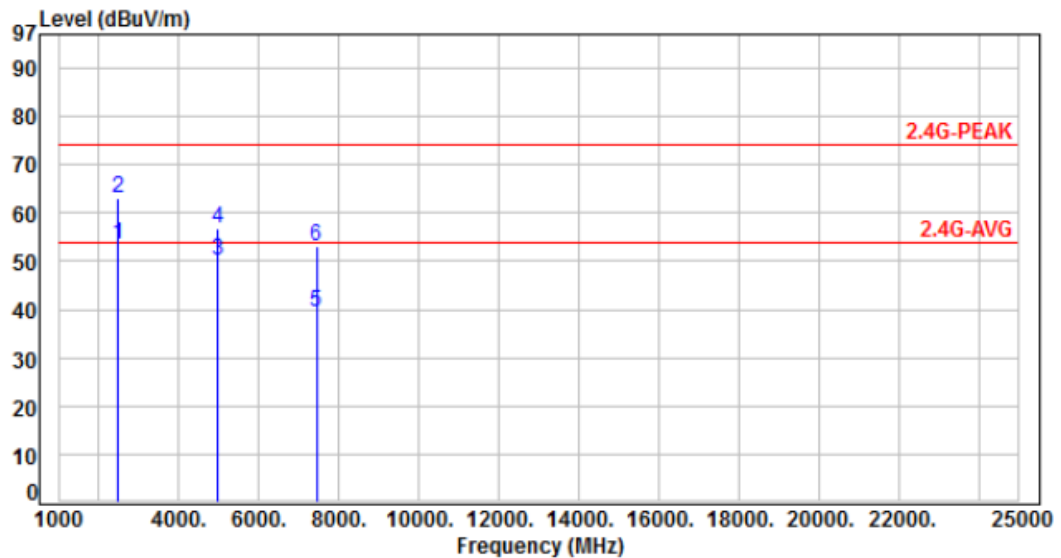
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC from Battery	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH39		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-14.22	67.76	53.54	54.00	-0.46	Average	100	190	P
2	2483.50	-14.22	77.14	62.92	74.00	-11.08	Peak	100	190	P
3	4960.00	-6.39	56.60	50.21	54.00	-3.79	Average	156	160	P
4	4960.00	-6.39	63.27	56.88	74.00	-17.12	Peak	156	160	P
5	7440.00	-1.14	40.76	39.62	54.00	-14.38	Average	100	155	P
6	7440.00	-1.14	54.39	53.25	74.00	-20.75	Peak	100	155	P

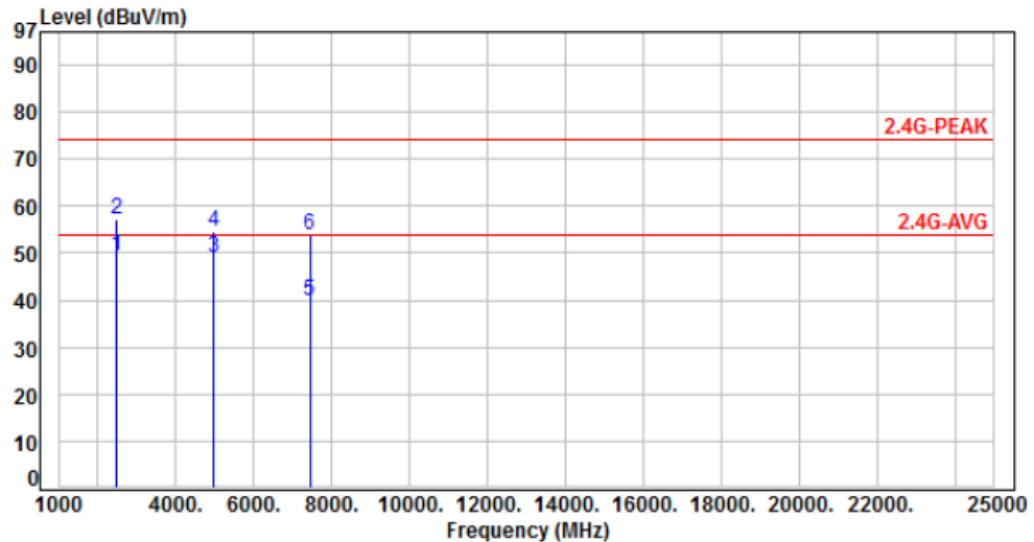
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC from Battery	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH39		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-14.22	63.51	49.29	54.00	-4.71	Average	150	325	P
2	2483.50	-14.22	71.44	57.22	74.00	-16.78	Peak	150	325	P
3	4960.00	-6.39	55.34	48.95	54.00	-5.05	Average	104	15	P
4	4960.00	-6.39	60.92	54.53	74.00	-19.47	Peak	104	15	P
5	7440.00	-1.14	40.90	39.76	54.00	-14.24	Average	100	125	P
6	7440.00	-1.14	55.00	53.86	74.00	-20.14	Peak	100	125	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. On Time, Duty Cycle and Measurement methods

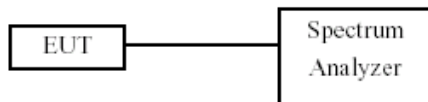
7.1 Test Limit

None; for reporting purposes only.

7.2 Test Procedure

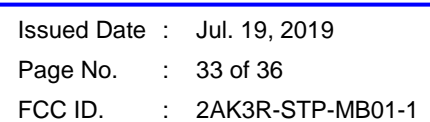
KDB 558074 Zero-Span Spectrum Analyzer Method.

7.3 Test Setup Layout



7.4 Test Result and Data

Modulation Mode	On Time (ms)	Period Time (ms)	Duty Cycle (%)
GFSK	100.00	100.00	100.00%





8. Maximum Peak and Average Output Power

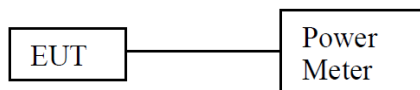
8.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

8.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

8.3 Test Setup Layout



8.4 Test Result and Data

Modulation Mode	Channel	Frequency(MHz)	Power Output (dBm)		Power Output (mW)	
			Peak	Average	Peak	Average
GFSK	0	2402	-9.96	-16.53	0.101	0.022
	19	2440	-10.43	-14.12	0.091	0.039
	39	2480	-11.01	-15.28	0.079	0.030

*Average Power is for reference only

*No vast difference in between power of worst channel in original test report compared to that measured in this test report.